

3705 Haven Avenue  
EIR Scoping Comments

Table of Contents

**Public Agencies**

California Geological Survey..... 2  
Sequoia Audubon Society ..... 5  
Sequoia Union High School District ..... 9  
Department of Fish and Wildlife .....18

**From:** Olson, Brian@DOC <Brian.Olson@conservation.ca.gov>  
**Sent:** Thursday, December 28, 2023 1:56 PM  
**To:** Khan, Fahteen N  
**Cc:** OLRA@DOC; OPR State Clearinghouse; Gomez, DarylAnne@DOC  
**Subject:** 3705 Haven Avenue Project - City of Menlo Park NOP Comments

**Categories:** 3705 Haven

**CAUTION: This email originated from outside of the organization. Unless you recognize the sender's email address and know the content is safe, DO NOT click links, open attachments or reply.**

**SCH Number**

2023120023

**Lead Agency**

City of Menlo Park

**Document Title**

3705 Haven Avenue Project

**Document Type**

NOP - Notice of Preparation of a Draft EIR

**Received**

12/1/2023

Hello Fahteen,

Thank you for providing the City's Notice of Preparation (NOP) of an EIR for our review. This email conveys the following recommendations from CGS concerning geologic and seismic hazard issues within the planned project:

1. Liquefaction Hazards

- The EIR should discuss liquefaction as a potential seismic hazard for the proposed project. The City should include a discussion of Earthquake Zones of Required Investigation (EZRI) for liquefaction and consider providing a map of these zones.
- CGS Seismic Hazard Zone maps and data are available here:  
<https://maps-cnra-cadoc.opendata.arcgis.com/datasets/cadoc::cgs-seismic-hazards-program-liquefaction-zones-1/about>  
<https://maps-cnra-cadoc.opendata.arcgis.com/datasets/cadoc::cgs-seismic-hazards-program-landslide-zones-doc-hosted/about>  
<https://maps.conservation.ca.gov/cgs/informationwarehouse/index.html?map=regulatorymaps>  
<https://maps.conservation.ca.gov/cgs/EQZApp/app/>
- Cities and counties affected by EZRIs must regulate certain development projects within them. The Seismic Hazards Mapping Act (1990) also requires sellers of real property (and their agents) within a mapped hazard zone to disclose at the time of sale that the property lies within such a zone.

2. Earthquake Ground Motion Hazards



- The EIR should provide a discussion of the probability of large earthquakes in the region. This discussion may include earthquake probabilities from the third Uniform California Earthquake Rupture Forecast (UCERF3). A non-technical discussion of this model is available here: <https://pubs.usgs.gov/fs/2015/3009/pdf/fs2015-3009.pdf>

### 3. Fault Hazards

- The EIR should consider providing maps depicting the locations of Alquist-Priolo Earthquake Fault Zones in the region. The City might also consider referring readers to the CGS website for a map that is continually updated: <https://maps.conservation.ca.gov/cgs/EQZApp/app/>
- CGS maps of Alquist-Priolo Earthquake Fault Zones and data are available here: <https://maps-cnra-cadoc.opendata.arcgis.com/datasets/cadoc::cgs-seismic-hazards-program-fault-traces/about>  
<https://maps-cnra-cadoc.opendata.arcgis.com/datasets/cadoc::cgs-seismic-hazards-program-alquist-priolo-fault-hazard-zones-1/about>  
<https://maps.conservation.ca.gov/cgs/informationwarehouse/index.html?map=regulatorymaps>

### 4. Tsunami Hazards

- The EIR should also consider and discuss potential tsunami hazards. The CGS has mapped a Tsunami Hazard Area (THA) near the proposed project. The purpose of a THA is to assist public agencies in identifying their exposure to tsunami hazards. It is intended for local jurisdictional, coastal evacuation planning uses only. Additional information can be found at the links below: <https://maps.conservation.ca.gov/cgs/informationwarehouse/index.html?map=regulatorymaps>  
<https://www.conservation.ca.gov/cgs/Documents/Publications/Tsunami-Maps/Tsunami Hazard Area Map Napa County a11y.pdf>  
<https://www.conservation.ca.gov/cgs/Documents/Publications/Tsunami-Maps/Tsunami Hazard Area Map Solano County a11y.pdf>  
<https://www.conservation.ca.gov/cgs/Documents/Publications/Tsunami-Maps/Tsunami Hazard Area Map Sonoma County a11y.pdf>
- The City should also check to see if the proposed project includes a Tsunami Design Zone within the California Building Code (CBC). The CBC requires certain design standards for essential/critical or larger structures. The following website provides additional information regarding Tsunami Design Zones: <https://asce7tsunami.online/>.

Please let me know if you have any questions.



@CAgeosurvey

**Brian Olson, CEG**  
Senior Engineering Geologist  
Seismic Hazards Program

**14** Years of Public Service

**California Geological Survey**  
320 W. 4th Street, Suite 850, Los Angeles, CA 90013  
M: (213) 507-1080

**FOLLOW US!**

*“A team is not a group of people who work together.  
A team is a group of people who trust each other.” – Simon Sinek*

CONFIDENTIALITY NOTICE: This communication with its contents may contain confidential and/or legally privileged information. It is solely for the use of the intended recipient(s). Unauthorized interception, review, use, or disclosure is prohibited and may violate applicable laws, including the Electronic Communications Privacy Act. If you are not the intended recipient, please contact the sender and destroy all copies of the communication.



P.O. Box 620292  
Woodside, CA 94062-0292

January 9, 2024

Fahteen Khan  
Associate Planner  
Community Development, City of Menlo Park Mail:  
701 Laurel St., Menlo Park, CA 94025  
By email to: [fnkhan@menlopark.gov](mailto:fnkhan@menlopark.gov)

Subject: Comments on Notice of Preparation for 3705 Haven EIR

Dear Ms. Khan:

The Sequoia Audubon Society (SAS) respectfully submits the following scoping comments regarding the Notice of Preparation (NOP) for the 3705 Haven EIR. SAS, the San Mateo County chapter of the National Audubon Society, has a strong interest in protecting the birds and their habitats in the nearby shoreline, Baylands, Bedwell Bayfront Park and in Don Edwards National Wildlife Refuge. It is also important to minimize bird collision hazards for resident and migrating birds and minimize night lighting and noise projecting towards the Bay habitats spanning the NE, N to SE directions from the Project site and light projecting up into the night sky. The EIR should address these concerns which are not adequately considered in the current project plans.

The ConnectMenlo EIR requires a Biological Assessment and appropriate mitigations for the 3705 Haven Project EIR. The Project area is within 1000 feet of sensitive tidal marsh habitat and salt ponds providing suitable habitat for a diverse group of birds and endangered species. The Federally Endangered Species, Ridgway's Rail has been observed, and there is likely habitat for Salt Marsh Harvest Mouse. In the eBird database, Steven Rottenborn reported two Ridgway's Rails on 29 Jan 2020: "one foraging at the edge of marsh and swimming in the tidal channel to circumvent some ducks along the shoreline; another called while this bird was visible. These birds were just north of the "bulb" formed where Flood Slough is enlarged at its southern/upper end."<sup>1</sup>

---

<sup>1</sup> <https://ebird.org/checklist/S65620888>

Sequoia Audubon is asking that the scope of the EIR include the following:

1. **Evaluate Measures to Minimize Bird Collisions with Building Surfaces:** Require the EIR to specify alternatives and design requirements to minimize bird collisions. As stated in bird-safe planning guidelines<sup>2</sup>:

“Birds strike transparent windows as they attempt to access potential perches, plants, food or water sources and other lures seen through the glass or reflected in glass. Design traps such as glass balcony walls, glass walls around planted atria and windows installed at building corners are dangerous because birds perceive an unobstructed route to the other side.” “Night-time lighting also interferes with avian migrations by attracting birds to the buildings.” “Night-migrating songbirds—already imperiled by habitat loss and other environmental stressors—are at double the risk, threatened both by illuminated buildings when they fly at night and by daytime glass collisions as they seek food and shelter.”

A recent news article highlights how communities are preventing bird deaths by minimizing impacts of night lighting and making sure that glass is marked with opaque patterns to prevent collisions.<sup>3</sup>

Mitigation Measure BIO-1 of the ConnectMenlo EIR requires measures to ensure that the project reduces bird collisions with new buildings. These requirements are as follows:

- A. No more than 10% of façade surface area shall have non-bird-friendly glazing.
- B. Bird-friendly glazing includes, but is not limited to, opaque glass, covering the outside surface of clear glass with patterns, paned glass with fenestrations, frit or etching patterns, and external screens over non-reflective glass. Highly reflective glass is not permitted.
- C. Occupancy sensors or other switch control devices with an astronomic time clock shall be installed on nonemergency lights and shall be programmed to shut off during non-work hours and between 10:00 p.m. and sunrise.
- D. Placement of buildings shall avoid the potential funneling of flight paths towards a building façade.
- E. Glass skyways or walkways, free-standing (see-through) glass walls and handrails, and transparent building corners shall not be allowed.
- F. Transparent glass shall not be allowed at the rooflines of buildings, including in conjunction with roof decks, patios and roofs with landscape vegetation.
- G. Use of rodenticides shall not be allowed.

---

<sup>2</sup> Adapted from guidelines at [sfplanning.org](http://sfplanning.org)

<sup>3</sup> “Cities jump into action to mitigate bird deaths”, Joseph Howlett, The Mercury News, [https://edition.pagesuite.com/popovers/dynamic\\_article\\_popover.aspx?guid=1a75c1d2-63f3-4e12-8345-4826695770c1&appcode=SAN252&eguid=927031d1-d597-4c89-ab04-f3a43df8cce7&pnum=26](https://edition.pagesuite.com/popovers/dynamic_article_popover.aspx?guid=1a75c1d2-63f3-4e12-8345-4826695770c1&appcode=SAN252&eguid=927031d1-d597-4c89-ab04-f3a43df8cce7&pnum=26)

Item E prohibits clear panels on the roof deck, such as those shown in the photos in the current Project plan.<sup>4</sup> Require that the plan use opaque, non-reflective panels on decks

2. **Minimize artificial lighting:** Require that the EIR consider the Project's artificial lighting threat to birds.

SAS recommends that the Biological Assessment and EIR consider measures to reduce lighting impacts. Interior lights should be blocked by shades after dark in residences and opaque glass or motion sensors in common areas. Perhaps built in automatic shades and timers would make it easy for residents to reduce night light emissions. This will help prevent birds from being attracted to the lights. Plans for exterior lights on buildings, and lights for parking lots and walkways should follow these principles: Lights on buildings, and lights for parking lots and walkways, should be down - lighted with fully shielded fixtures.

- Only be on when needed
- Only light the area that needs it
- Be no brighter than necessary
- Minimize blue light emissions, by using fixtures with a color temperature of 3,000 Kelvin or less.
- Eliminate upward or outward directed light
- Prohibit outdoor blinking, flashing, or rotating lights, flood lights, and spotlights.

Revise the project plans to eliminate high-intensity lighting and avoid light pollution of the Baylands to the extent possible. For example, the plan proposes 4,000 K LED street lights without full shielding. Lights this bright are bad both for the environment and for human health.

Since the project proposes roof decks, including a lighted social activity facility in a residential building, it may be impossible to eliminate light transmission skyward or bayward, nor will it be likely that noise can be controlled. Given these uncontrollable risks, eliminate the 8th floor roof deck with social facilities. Housing is given special privilege in CEQA analysis, but the roof decks are optional and not required to provide residential units.

Limit night lighting on the exposed terraces by requiring low intensity lights, directed downward, off when not in use, and with low reflectance to the sky. Provide illustrations of the expected nighttime glow from the project overhead and from various viewing angles and explain how that glow is minimized.

The installation of lighting in new development, streets and parking lots may result in potential impacts on animal species. Many animals, both special-status and common species, are sensitive to light cues, which influence their physiology and shape their behaviors, particularly during the breeding season.

---

<sup>4</sup> See picture on Page 69 of the September 2023 Project Plans (3705 Haven plng\_5\_dwgs-rev3-project-plans-sb330-3705-haven)

“Artificial light has been used as a means of manipulating breeding behavior and productivity in captive birds for decades and has been shown to influence the territorial singing behavior of wild birds. While it is difficult to extrapolate results of experiments on captive birds to wild populations, it is known that photoperiod (the relative amount of light and dark in a 24-hour period) is an essential cue triggering physiological processes as diverse as growth, metabolism, development, breeding behavior, and molting. This holds true for mammals and other taxa as well, suggesting that increases in ambient light may interfere with these processes across a wide range of species, resulting in impacts on wildlife populations. Artificial lighting may also indirectly affect animals by increasing the nocturnal activity of predators such as owls, hawks, and mammalian predators.”<sup>5</sup>

### 3. Other Comments on the Scope of the EIR:

- Require the developer to use replacement trees that are California native species rather than those suggested in the plan, which are all exotic species. Native trees provide better habitat for birds and use less water. Preservation of the native heritage oak trees would be a public benefit and amenity.
- Require that qualified biologists are used to accomplish the Biological Assessment, Mitigation Plans, Adaptation plans. Indicate what inspection of materials, monitoring and adaptation will occur.
- Aesthetics is another important issue. Consider the blockage of view of the natural Baylands and skies, and the effect of night glow back onto inland neighborhoods.
- The cumulative impacts of this project should be considered in the EIR. Has ConnectMenlo already over-committed, resulting in long term significant environmental impacts from glass hazards, lighting impacts, noise, excessive places for predator perches, and spoiling views and night skies?

SAS is concerned with the health of the ecosystems and wildlife, and access for appreciation of these natural resources. Addressing these concerns will benefit both 3705 Haven residents and wildlife. We appreciate your including these comments in the scope of the EIR.

Thank you.  
Sincerely,

Chris MacIntosh  
conservation@sequoia-audubon.org  
Sequoia Audubon Society Conservation Committee

---

<sup>5</sup> Page. 4896-7 of the Willow Village FEIR <https://menlopark.gov/files/sharedassets/public/v/1/community-development/documents/projects/under-review/willow-village/final-eir/willow-village-master-plan-final-eir-appendices.pdf>



Kelly M. Rem  
Attorney at Law

E-mail: krem@lozanosmith.com

January 10, 2024

**By Email and U.S. Mail: [fnkhan@menlopark.org](mailto:fnkhan@menlopark.org)**

Fahteen Khan  
Associate Planner  
Community Development  
City of Menlo Park  
701 Laurel Street  
Menlo Park, CA 94025

Re: Response of Sequoia Union High School District to Notice of Preparation of the Environmental Impact Report for the 3705 Haven Avenue Housing Project

Dear Ms. Khan:

This office represents Sequoia Union High School District (“District”). The District appreciates the opportunity to provide comments and input regarding the Notice of Preparation of the Environmental Impact Report (“EIR”) for the 3705 Haven Avenue Housing Project (“Project”).

As the District has expressed in scoping and comment letters recently submitted to the City regarding other projects, the District is very concerned about the numerous large residential and commercial development projects proposed in the City. The District’s TIDE Academy is approximately 0.8 miles from the Project. The District’s Menlo-Atherton High School and Sequoia High School are each located approximately four miles from the Project. The Project is anticipated to result in extensive impacts on student safety, among other impacts. **As in the District’s prior letters, the District requests that all direct and indirect impacts related to the Project’s proximity to District schools, especially TIDE Academy, be thoroughly reviewed, analyzed, and mitigated.**

The Project sponsor, 3705 Haven LLC, proposes to demolish the existing 10,361-square foot commercial building and redevelop the project site with an eight-story (approximately 93 feet tall), 99-unit residential apartment building with approximately 1,550 square feet of ground floor commercial space and structured parking. The ground floor commercial space would be located at the southeast corner of the building where Haven Avenue curves. The Project includes a total of approximately 11,730 square feet of common open space, including approximately 4,670 square feet of publicly accessible outdoor space. Within the proposed building, the Project includes three common outdoor spaces for residents, located on the third floor (podium level), fifth floor, and rooftop. In addition, the Project would include standard mechanical equipment (such as heating, ventilation, and air conditioning equipment) and would potentially include a battery-powered electric emergency generator. The Project also includes utility and other public

*Limited Liability Partnership*

*2001 North Main Street, Suite 500 Walnut Creek, California 94596 Tel 925-953-1620 Fax 925-953-1625*

right-of-way improvements including undergrounding of overhead electrical lines and new utility lateral connections, driveways, sidewalks, curbs, and gutters. As explained further below, the Project has the potential to cause severe detriment to the District and its students.

The Notice of Preparation (“NOP”) prepared for the Project concludes that the Project may have numerous impacts on the environment, including potential impacts on Public Services, Population and Housing, Transportation, Noise and Vibration, Air Quality and Utilities. The NOP thus correctly concludes that a subsequent full-scope EIR is required.

Preliminarily, the District notes that it is willing to participate in meetings or study sessions with City Staff and the applicant to discuss the proposed Project. The District is hopeful that opening the door to these discussions will yield solutions that benefit the District, the City, and the community as a whole. The District therefore requests that the following topics be analyzed and considered in the Draft EIR for the Project.

**A. Transportation/Circulation/Traffic Analysis**

- 1. Describe the existing and the anticipated vehicular traffic and student pedestrian movement patterns to and from school sites, including movement patterns to and from Menlo-Atherton High School, TIDE Academy, and Sequoia High School, and including consideration of bus routes.**
- 2. Assess the impact(s) of increased vehicular movement and volumes caused by the Project, including but not limited to potential conflicts with school pedestrian movement, school transportation, and bussing activities to and from Menlo-Atherton High School, TIDE Academy, and Sequoia High School.**
- 3. Estimate travel demand and trip generation, trip distribution, and trip assignment by including consideration of school sites and home-to-school travel.**
- 4. Assess cumulative impacts on schools and the community in general resulting from increased vehicular movement and volumes expected from additional development already approved or pending in the City.**
- 5. Discuss the direct, indirect, and cumulative impacts on the circulation and traffic patterns in the community as a result of traffic generated by the transportation needs of students to and from the Project and schools throughout the District during and after the Project build-out.**
- 6. Assess the impacts on the routes and safety of students traveling to school by vehicle, bus, walking, and bicycles.**

The District has significant concerns about the traffic, transportation, and circulation impacts that the Project may have on the District, including the District’s staff, parents, and students that



attend TIDE Academy. The foregoing categories of information are critical for determining the extent of those impacts.

**(a) The City Must Consider All Traffic and Related Impacts, Including Impacts of Traffic on Student Safety, Caused by the implementation of the Project.**

Any environmental analysis related to the Project must address potential effects related to traffic, noise, air quality, and any other issues affecting schools. (Pub. Resources Code, §§ 21000, *et seq.*; Cal. Code Regs., tit. 14, §§ 15000, *et seq.*; *Chawanakee Unified School District v. County of Madera, et al.*, (2011) 196 Cal.App.4th 1016.) Additionally, specifically regarding traffic, there must be an analysis of safety issues related to traffic impacts, such as reduced pedestrian safety, particularly as to students walking or bicycling to and from TIDE Academy; potentially reduced response times for emergency services and first responders traveling to the school; and increased potential for accidents due to gridlock during school drop-off and pick-up hours. (See, *Journal of Planning Education and Research*, “Planning for Safe Schools: Impacts of School Siting and Surrounding Environments on Traffic Safety,” November 2015, Chia-Yuan Yu and Xuemei Zhu, pg. 8 [Study of traffic accidents near Austin, Texas schools found that “[a] higher percentage of commercial uses was associated with more motorist and pedestrian crashes” around schools].)

The State Office of Planning and Research has developed new CEQA Guidelines which set forth new criteria for the assessment of traffic impacts, and now encourages the use of metrics such as vehicle miles traveled (“VMT”), rather than level-of-service (“LOS”), to analyze project impacts on traffic. (14 Cal. Code Regs. § 15064.3.) However, local agencies may still consider impacts on traffic congestion at intersections where appropriate, and must do so where, as here, such traffic congestion will cause significant impacts on air quality, noise, and safety issues caused by traffic. (Pub. Res. Code § 21099(b)(3).)

The City has experienced a drastic increase in traffic over the last ten to fifteen years as the City has continued to approve newer corporate campuses and mixed biotechnology, commercial, office, and residential land uses. **The construction resulting from and traffic generated by the Project will severely exacerbate the already stifling traffic in the downtown area, and the safety issues posed thereby. These impacts will severely inhibit the District’s ability to operate its educational programs, including at TIDE Academy.**

The proposed Project is anticipated to impede circulation in the Project area, and clog the access roads to, from, and around the District’s TIDE Academy. (See, 5 Cal. Code Regs. § 14010(k), which requires that school facilities be easily accessible from arterial roads.) The District’s TIDE Academy is located approximately 0.8 miles from the Project. Both TIDE Academy and the proposed Project would be accessed by the same roads, including those mentioned above. In addition to drawing a large number of new residents to the area, the Proposed Project will draw thousands of daily office commuters, visitors, and emergency access vehicles from around the Bay Area. The immediate roads surrounding TIDE Academy will bear the burden of the increased traffic patterns. Such increases to traffic in the area will not only make it much more difficult for students and staff to travel to and from TIDE Academy, but will also **drastically**

**increase the risk of vehicular accidents to District families, students, and staff traveling to and from school.**

In addition to increased risks of vehicular accidents, the traffic and parking impacts posed by the Project may severely impact the safety and convenience of TIDE Academy students who walk or bike to school. Title 5 of the California Code of Regulations requires that school sites be located within a proposed attendance area that encourages student walking and avoids extensive bussing. (5 Cal. Code Regs. § 14010(1).)

The EIR must analyze and mitigate all of the above traffic and related impacts, including those impacts related to student safety and ability to get to school, the District's ability to implement its transportation and safety mitigation measures for TIDE Academy, and the District's ability to promote alternative modes of transportation to and from TIDE Academy. It is important that these traffic impacts are not only assessed through a VMT analysis, but also through an LOS analysis, as traffic congestion surrounding the District's TIDE Academy caused by the proposed Project will in turn cause significant issues related to safety, noise, and air quality. It is anticipated that these impacts will extend far beyond the Project area. Rather, the District requests that all intersections that could be impacted by the Project, including those within and outside of the Project area, be analyzed for LOS and related safety impacts. The District further suggests that the lead agency consult with the District's own traffic engineering company regarding the placement of driveways to service the proposed Project, so as to achieve a plan that minimizes, to the greatest extent possible, the risk of potential injuries to students walking and biking to school in the downtown area.

**(b) City Must Consider Cumulative Traffic and Related Impacts.**

Environmental impact reports must address cumulative impacts of a project when the project's effects on the environment, viewed in conjunction with impacts of other past, present, or reasonably foreseeable future projects, is cumulatively considerable. (14 CCR 15130(a).) (See *San Joaquin Raptor/Wildlife Rescue Center v. County of Stanislaus* (1994) 27 CA4th 713, 720, finding that piecemeal approval of several projects with related impacts could lead to severe environmental harm.) While a lead agency may incorporate information from previously-prepared program EIRs into the agency's analysis of a project's cumulative impacts, the lead agency must address all cumulative impacts that were not previously addressed in the program EIR. (Pub. Res. Code § 21083.3(c); 14 CCR 14183(b)(3).)

The Project's above- and below-discussed anticipated impacts on the District, combined with the anticipated impacts of the vast number of development projects that have recently been approved and are being considered for approval in the City are cumulatively considerable. All of these impacts are exacerbated by the volume of projects that the City is considering and approving, as the District will be unable to accommodate the influx of students through facilities, infrastructure, and related improvements. When considered together, the collective impacts on traffic, safety, and air quality in the neighborhood will be devastating. **These cumulative impacts on the District's Menlo-Atherton High School, TIDE Academy, and Sequoia High School must be analyzed and mitigated.**

**B. Air Quality**

- 7. Identify and assess the direct and indirect air quality impacts of the Project on sensitive receptors, such as the District's TIDE Academy.**
- 8. Identify and assess cumulative air quality impacts on schools and the community in general resulting from increased vehicular movement and volumes expected from additional development already approved or pending in the downtown area.**

The Bay Area Air Quality Management District's ("BAAQMD") CEQA Guidelines (May 2017) impose numerous limitations on the exposure of "sensitive receptors," such as schools, to odors, toxins, and pollutants, including pollutants from vehicular exhaust.

It is anticipated that the Project, including when viewed in conjunction with all of the other developments being considered and approved in the vicinity of TIDE Academy, will have a significant impact on the air quality of the neighborhood due to extensive construction activities and increases in vehicular traffic. Even more pressing, the proposed Project is anticipated to result in significant impacts to sensitive receptors as an increased number of vehicles enter and exit the Project area, creating increased levels of air toxins and particulate matter that could negatively impact student health. These impacts, as they relate to the District's students at TIDE Academy, must be analyzed in the Draft EIR. This analysis also dovetails with the discussion above regarding the necessity of LOS analysis. Decreased levels of service at intersections generally mean lengthier amounts of time for cars to idle, including near schools, resulting in decreased air quality and the potential for substantial impacts on students.

**C. Noise**

- 9. Identify any noise sources and volumes which may affect school facilities, classrooms and outdoor school areas.**

It is expected that noise from construction stemming from the implementation of the proposed Project will cause impacts on the District's educational programs at TIDE Academy. Request No. 9 is intended to clarify that the EIR's consideration of noise issues take into account all of the various ways in which noise may impact schools, including increases in noise levels in the immediate vicinity of TIDE Academy.

**D. Population**

- 10. Describe historical, current, and future population projections for the District.**
- 11. Assess the impacts of population growth within the District on the District's ability to provide its educational program.**

In addition to 99 anticipated residential units, it is anticipated that the proposed Project's 1,500 square feet of ground floor commercial space and structure parking will draw thousands of

residents into the area on a permanent, or at least a daily basis. As the Project proposes the development of a residential apartment building, the District believes that the student generation rate for multifamily units will apply. Using the District's multifamily student generation rate of 0.1, 99 anticipated residential units are likely to generate approximately 10 new high school students to the District. TIDE Academy is currently close to or over capacity.

The District, therefore, specifically demands that historic, current, and future population projections for the District be addressed in the EIR. Population growth or shrinkage is a primary consideration in determining the impact that development may have on a school district, as a booming population can directly impact the District and its provision of educational services, largely because of resulting school overcrowding, while a district with declining enrollment may depend on new development to avoid school closure or program cuts. Overcrowding can constitute a significant impact within the meaning of CEQA. (See, 14 Cal. Code Regs. §§ 15064(e).) This is particularly true where the overcrowding results in unsafe conditions, decreased quality of education, the need for new bus routes, and a need for new school construction. The same can hold true for potential school closures or program cuts resulting from a declining population.

#### **E. Housing**

**12. Describe the type and number of anticipated dwelling units indirectly resulting from the Project.**

**13. Describe the average square footage for anticipated dwelling units, broken down by type of unit, indirectly resulting from the Project.**

**14. Estimate the amount of development fees to be generated by development in accordance with implementation of the Project.**

The foregoing categories of information are critical for determining the extent of both physical and fiscal impacts on the District caused by increased population growth.

California school districts are dependent on developer fees authorized by the provisions of Government Code sections 65995, *et seq.*, and Education Code sections 17620, *et seq.*, for financing new school facilities and maintenance of existing facilities. The developer fees mandated by Section 65995 provide the District a significant portion of its local share of financing for facilities needs related to development.

The adequacy of the statutory development fees to offset the impact of new development on local school districts can be determined only if the types of housing and average square footage can be taken into consideration. For instance, larger homes often generate approximately the same number of students as smaller homes. At the same time, however, a larger home will generate a greater statutory development fee, better providing for facilities to house the student being generated. It is for these reasons that the Government Code now requires a school district to seek – and presumably to receive – such square footage information from local planning departments. (Gov. Code § 65995.5(c)(3).)

While the foregoing funding considerations raise fiscal issues, they also translate directly into physical, environmental impacts, in that inadequate funding for new school construction results in overcrowding of existing facilities. Without funding to build new facilities or land on which to expand, students may need to attend schools outside their attendance boundaries, creating significant traffic impacts, among others. Furthermore, fiscal and social considerations are relevant to an EIR, particularly when they either contribute to or result from physical impacts. (Pub. Resources Code § 21001(g); 14 Cal. Code Regs. §§ 15021(b), 15131(a)-(c), 15142 & 15382.)

Phasing of development is also a crucial consideration in determining the extent of impacts on schools, which is especially relevant considering the volume of development occurring in the downtown area. The timing of the development will determine when new students are expected to be generated, and therefore is an important consideration particularly when considering the cumulative impact of a project in conjunction with other approved or pending development.

#### **F. Public Services**

- 15. Describe existing and future conditions within the District, on a school-by-school basis, including size, location and capacity of facilities.**
- 16. Describe the adequacy of both existing infrastructure serving schools and anticipated infrastructure needed to serve future schools.**
- 17. Describe the District's past and present enrollment trends.**
- 18. Describe the District's current uses of its facilities.**
- 19. Describe projected teacher/staffing requirements based on anticipated population growth and existing State and District policies.**
- 20. Describe any impacts on curriculum as a result of anticipated population growth.**
- 21. Identify the cost of providing capital facilities to properly accommodate students on a per-student basis, by the District (including land costs).**
- 22. Identify the expected shortfall or excess between the estimated development fees to be generated by the Project and the cost for provision of capital facilities.**
- 23. Assess the District's present and projected capital facility, operations, maintenance, and personnel costs.**
- 24. Assess financing and funding sources available to the District, including but not limited to those mitigation measures set forth in section 65996 of the Government Code.**

25. **Identify any expected fiscal impacts on the District, including an assessment of projected cost of land acquisition, school construction, and other facilities needs.**
26. **Assess cumulative impacts on schools resulting from additional development already approved, pending, or anticipated.**
27. **Identify how the District will accommodate students from the Project who are not accommodated at current District schools, including the effects on the overall operation and administration of the District, the students and employees.**

CEQA Guidelines, Appendix G, states that a project may have public services impacts on schools if the project would “result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives” for the provision of school services.

There are myriad ways in which large residential and commercial development projects can impact a school district’s need for new or physically altered facilities in order to maintain performance objectives. The Draft EIR’s examination of the Project should analyze all potential impacts under this standard, including but not limited to: (1) whether the influx of students would require “physically altered” school facilities unrelated to the accommodation of additional enrollment; (2) whether other impacts of the Project, such as increased traffic, noise, or air pollutants in the neighborhood surrounding TIDE Academy, could impact the District’s need for new or physically altered school facilities; and (3) whether other impacts of the Project could otherwise interfere with the District’s ability to accomplish its own performance objectives. Consideration of the above-listed categories of information is essential to properly making these determinations.

Lead agencies often cite to SB 50 (specifically, Government Code sections 65995(h) and 65996(a)), for the proposition that the payment of school impact fees (commonly referred to as “developer fees”) excuses them from their obligations to analyze and mitigate impacts posed on school districts by development. This, however, is a misstatement of the law related to developer fees and CEQA. While SB 50 does declare that the payment of the developer fees authorized by Education Code section 17620 constitutes “full and complete mitigation of the impacts of any legislative or adjudicative act on the provision of adequate school facilities,” (Gov. Code § 65995(h)), SB 50 does not excuse lead agencies from analyzing such impacts on school facilities in the first place. Further, **California courts have since acknowledged that developer fees do not constitute full and complete mitigation for school-related impacts other than school overcrowding.** (*Chawanakee Unified Sch. Dist. v. County of Madera* (2011) 196 Cal.App.4th 1016.) Thus, the payment of fees does not constitute full mitigation for all impacts caused by development related to traffic, noise, biological, pedestrian safety, and all other types of impacts related to the District and its educational program. The District expects the City to analyze and mitigate all such impacts in the EIR for the Project.

Fahteen Khan  
City of Menlo Park  
January 10, 2024  
Page 9

**Conclusion**

The District does not oppose development within District boundaries, and recognizes the importance of housing on the health and welfare of the community. However, the District maintains that the community can only thrive if the District's educational program and its facilities are viable and sufficient, and District staff, families, and students are safe. Accordingly, the needs of the District must be appropriately considered in the environmental review process for all proposed new development that will impact the District, such as the very large project under consideration.

We request that all notices and copies of documentation with regard to the Project be mailed both to the District directly, and also to our attention as follows:

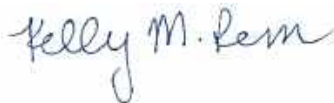
Crystal Leach, Superintendent  
Sequoia Union High School District  
480 James Avenue  
Redwood City, CA 94062

Kelly M. Rem, Esq.  
Lozano Smith  
2001 North Main Street, Suite 500  
Walnut Creek, CA 94596

Please feel free to contact us directly if we can be of any assistance in reviewing the above issues. Thank you.

Sincerely,

LOZANO SMITH



Kelly M. Rem

KMR/mg

cc: Crystal Leach, Superintendent (cleach@seq.org)



State of California – Natural Resources Agency

DEPARTMENT OF FISH AND WILDLIFE

Bay Delta Region

2825 Cordelia Road, Suite 100

Fairfield, CA 94534

(707) 428-2002

[www.wildlife.ca.gov](http://www.wildlife.ca.gov)

**GAVIN NEWSOM, Governor**

**CHARLTON H. BONHAM, Director**



December 22, 2023

Mr. Fahteen Khan

City of Menlo Park, Community Development Department

701 Laurel Street

Menlo Park, CA 94025

[Fnkhan@menlopark.gov](mailto:Fnkhan@menlopark.gov)

Subject: 3705 Haven Avenue Project, Notice of Preparation of an Environmental Impact Report, SCH No. 2023120023, City of Menlo Park, San Mateo County

Dear Mr. Khan:

The California Department of Fish and Wildlife (CDFW) reviewed the City of Menlo Park's Notice of Preparation (NOP) of a Draft Environmental Impact Report (EIR) for the City of Menlo Park (City) 3705 Haven Avenue Housing Project (Project) pursuant the California Environmental Quality Act (CEQA) and CEQA Guidelines<sup>1</sup>.

## **CDFW ROLE**

CDFW is California's **Trustee Agency** for fish and wildlife resources and holds those resources in trust by statute for all the people of the state. (Fish & G. Code, §§ 711.7, subd. (a) & 1802; Pub. Resources Code, § 21070; CEQA Guidelines, § 15386, subd. (a)). CDFW, in its trustee capacity, has jurisdiction over the conservation, protection, and management of fish, wildlife, native plants, and habitat necessary for biologically sustainable populations of those species. (Id., § 1802). For purposes of CEQA, CDFW is charged by law to provide, as available, biological expertise during public agency environmental review efforts, focusing specifically on projects and related activities that have the potential to adversely affect fish and wildlife resources.

CDFW is also submitting these comments as a **Responsible Agency** under CEQA. (Pub. Resources Code, § 21069; CEQA Guidelines, § 15381). CDFW expects that it may need to exercise regulatory authority over the Project pursuant to the Fish and Game Code. Likewise, to the extent the Project may result in "take," as defined by state law, of any species protected under the California Endangered Species Act (CESA) (Fish & G. Code, § 2050 et seq.), related authorization as provided by the Fish and Game Code will be required.

---

<sup>1</sup>CEQA is codified in the California Public Resources Code in section 21000 et seq. The "CEQA Guidelines" are found in Title 14 of the California Code of Regulations, commencing with section 15000.



Mr. Fahteen Khan  
City of Menlo Park  
December 22, 2023  
Page 2

## **PROJECT DESCRIPTION AND LOCATION**

**Proponent:** 3705 Haven LLC

The Project site is approximately 0.66-acre at 3705 Haven Avenue and is currently developed with a one-story commercial building and parking lot. The Project site is located to the west of the intersection of Marsh Road/Bayfront Expressway (State Route 84) and Haven Avenue (APN 055-170-240).

The Project proposes the redevelopment of an existing parcel, to demolish the existing commercial building, and redevelop the Project site with an eight-story (approximately 93 feet tall), 99-unit residential apartment building with approximately 1,550 square feet of ground floor commercial space. Also, the Project includes a total of approximately 11,730 square feet of common open space and 4,670 square feet of publicly accessible outdoor space.

The Project also proposes changes to infrastructure including undergrounding of overhead electrical lines and new utility lateral connections, driveways, sidewalks, curbs, and gutters.

The Project includes the removal of 13 trees, three of which are heritage trees. The Project proposes to plant a total of 15 new trees (four silver linden, six African fern pine, and five Saratoga laurel trees) to compensate for the removal of the three heritage trees. In addition, the Project proposes 24 new trees would be located on the podium courtyard and rooftop deck.

The CEQA Guidelines (§§15124 & 15378) require that the draft EIR incorporate a full Project description, including reasonably foreseeable future phases of the Project, and that contains sufficient information to evaluate and review the Project's environmental impact. Please include a complete description of the following Project components in the Project description including, but not limited to, the below information.

- Land use changes resulting from, for example, rezoning certain areas;
- Footprints of permanent Project features and temporarily impacted areas, such as staging areas and access routes;
- Area and plans for any proposed buildings/structures, ground-disturbing activities, fencing, paving, stationary machinery, landscaping, and stormwater systems;
- Operational features of the Project, including level of anticipated human presence (describe seasonal or daily peaks in activity, if relevant), artificial lighting/light reflection, noise, traffic generation, and other features; and

Mr. Fahteen Khan  
 City of Menlo Park  
 December 22, 2023  
 Page 3

- Construction schedule, activities, equipment, and crew sizes.

## ENVIRONMENTAL SETTING

Sufficient information for meaningful review regarding the environmental setting is necessary to understand any potentially significant impacts on the environment of the proposed Project and any alternatives identified in the EIR (CEQA Guidelines, §§ 15125 & 15360). CDFW recommends the EIR provide baseline habitat assessments for special-status plant, fish, and wildlife species located and potentially located within the Project area and surrounding lands, including all rare, threatened, and endangered species (CEQA Guidelines, §15380). The EIR should describe aquatic habitats, such as wetlands or waters of the U.S. or state, and any sensitive natural communities or riparian habitat occurring on or adjacent to the Project site (for sensitive natural communities see:

<https://wildlife.ca.gov/Data/VegCAMP/NaturalCommunities#sensitive%20natural%20communities>), and any stream or wetland set back distances the [City or County] may require. Fully protected, threatened or endangered, candidate, and other special-status species that are known to occur, or have the potential to occur, in or near the Project site include, but are not limited to:

Common Name	Scientific Name	Status
salt-marsh harvest mouse	<i>Reithrodontomys raviventris</i>	FE, SE, SP
California least tern	<i>Sternula antillarum browni</i>	FE, SE, SP
California Ridgway's rail	<i>Rallus obsoletus obsoletus</i>	FE, SE, SP
Nesting birds Bats		
<b>Notes:</b> FE = listed as endangered under the federal Endangered Species Act; SE = listed as endangered under CESA; SP = state listed as fully protected.		

Habitat descriptions and species profiles included in the EIR should include robust information from multiple sources: aerial imagery, historical and recent survey data, field reconnaissance, scientific literature and reports, U.S. Fish and Wildlife Service's (USFWS) Information, Planning, and Consultation System; California Aquatic Resources Inventory; and findings from "positive occurrence" databases such as California Natural Diversity Database (CNDDDB). Only with sufficient data and

Mr. Fahteen Khan  
City of Menlo Park  
December 22, 2023  
Page 4

information from the habitat assessment can the City adequately assess which special-status species are likely to occur in the Project vicinity.

CDFW recommends that prior to Project implementation, surveys be conducted for special-status species with potential to occur, following recommended survey protocols if available. Survey and monitoring protocols and guidelines are available at: <https://wildlife.ca.gov/Conservation/Survey-Protocols>.

Botanical surveys for special-status plant species, including those listed by the California Native Plant Society (<http://www.cnps.org/cnps/rareplants/inventory/>), should also be conducted during the blooming period for all sensitive plant species potentially occurring within the Project area and include the identification of reference populations. Please refer to CDFW protocols for surveying and evaluating impacts to special-status plants available at: <https://wildlife.ca.gov/Conservation/Plants>.

## **IMPACT ANALYSIS AND MITIGATION MEASURES**

The CEQA Guidelines necessitate the EIR discuss all direct and indirect impacts (temporary and permanent) that may occur with implementation of the Project. (CEQA Guidelines, § 15126.2). This includes evaluating and describing impacts such as:

- Potential for “take” of special-status species;
- Loss or modification of breeding, nesting, dispersal, and foraging habitat, including vegetation removal, alternation of soils and hydrology, and removal of habitat structural features (e.g. snags, roosts);
- Permanent and temporary habitat disturbances associated with ground disturbance, noise, lighting, reflection, air pollution, traffic, or human presence;
- Water quality impacts resulting from construction and operation of the Project;
- Impacts both from construction and operation of the Project; and
- Impacts to bed, channel, bank, and riparian habitat, and the direct and indirect effects to fish, wildlife, and their habitat.

The EIR should also identify existing and reasonably foreseeable future projects in the Project vicinity, disclose any cumulative impacts associated with these projects, determine the significance of each cumulative impact, and assess the significance of the Project’s contribution to each impact (CEQA Guidelines, § 15355). Although a project’s impacts may be insignificant individually, its contributions to a cumulative impact may be considerable; a contribution to a significant cumulative impact (e.g.,

Mr. Fahteen Khan  
City of Menlo Park  
December 22, 2023  
Page 5

reduction of available habitat for a listed species) should be considered cumulatively considerable without mitigation to minimize or avoid the impact.

The CEQA Guidelines direct the City, as the Lead Agency, to consider and describe in the EIR all feasible mitigation measures to avoid and/or mitigate potentially significant impacts of the Project on the environment based on comprehensive analysis of the potential direct, indirect, and cumulative impacts of the Project. (CEQA Guidelines, §§ 15021, 15063, 15071, 15126.2, 15126.4 & 15370). This should include discussion of take avoidance and minimization measures for special-status species, which should be developed in consultation with the USFWS, the National Marine Fisheries Service, and CDFW. These measures can then be incorporated as enforceable Project conditions to reduce potential impacts to biological resources to less-than-significant levels.

Fully protected species, such as California Ridgway's rail (*Rallus obsoletus obsoletus*), may not be taken or possessed at any time except in limited circumstances (Fish & G. Code, §§ 3511, 4700, 5050, & 5515). Therefore, the CEQA document should include measures to completely avoid take of fully protected species.

## **REGULATORY REQUIREMENTS**

### **California Endangered Species Act**

A CESA Incidental Take Permit (ITP) must be obtained from CDFW if the Project has the potential to result in “take” of plants or animals listed under CESA, either during construction or over the life of the Project. Under CESA, “take” means “hunt, pursue, catch, capture, or kill, or attempt to hunt, pursue, catch, capture, or kill.” (Fish & G. Code, § 86). If the Project will impact CESA listed species, early consultation with CDFW is encouraged, as significant modification to the Project and mitigation measures may be required to obtain an ITP. Issuance of an ITP is subject to CEQA and to facilitate permit issuance, any such Project modifications and mitigation measures must be incorporated into the EIR’s analysis, discussion, and mitigation monitoring and reporting program.

CEQA requires a mandatory finding of significance if a Project is likely to substantially impact threatened or endangered species. (Pub. Resources Code, §§ 21001, subd. (c) & 21083; CEQA Guidelines, §§ 15380, 15064 & 15065). In addition, pursuant to CEQA, the Lead Agency cannot approve a project unless all impacts to the environment are avoided or mitigated to less-than-significant levels, or the Lead Agency makes and supports Findings of Overriding Consideration (FOC) for impacts that remain significant despite the implementation of all feasible mitigation. FOC under CEQA, however, do not eliminate the Project proponent’s obligation to comply with the Fish and Game Code.

Mr. Fahteen Khan  
City of Menlo Park  
December 22, 2023  
Page 6

## **Lake and Streambed Alteration Agreement**

CDFW requires a Lake and Streambed Alteration (LSA) Notification, pursuant to Fish and Game Code section 1600 et seq., for Project activities affecting lakes or streams and associated riparian habitat. Notification is required for any activity that may substantially divert or obstruct the natural flow; change or use material from the bed, channel, or bank (including associated riparian or wetland resources); or deposit or dispose of material where it may pass into a river, lake, or stream. Work within ephemeral streams, drainage ditches, washes, watercourses with a subsurface flow, and floodplains is generally subject to notification requirements. In addition, infrastructure installed beneath such aquatic features, such as through hydraulic directional drilling, is also generally subject to notification requirements. Therefore, any impact to the mainstems, tributaries, or floodplains or associated riparian habitat caused by the proposed Project will likely require an LSA Notification. CDFW may not execute a final LSA Agreement until it has considered the final EIR and complied with its responsibilities as a responsible agency under CEQA.

## **Migratory Birds and Raptors**

CDFW has authority over actions that may result in the disturbance or destruction of active bird nest sites or the unauthorized take of birds. Fish and Game Code sections protecting birds, their eggs, and nests include section 3503 (regarding unlawful take, possession, or needless destruction of the nests or eggs of any bird), section 3503.5 (regarding the take, possession, or destruction of any birds-of-prey or their nests or eggs), and section 3513 (regarding unlawful take of any migratory non-game bird). Migratory birds are also protected under the federal Migratory Bird Treaty Act (MBTA).

## **COMMENTS AND RECOMMENDATIONS**

CDFW offers the below comments and recommendations to assist the City in adequately identifying and/or mitigating the Project's significant, or potentially significant, direct, and indirect impacts on fish and wildlife (biological) resources.

**Issue:** The Project includes the removal of 13 trees, three of which are heritage trees. The Project proposes to plant a total of 15 new trees (four silver linden, six African fern pine, and five Saratoga laurel trees) to compensate for the removal of the three heritage trees. In addition, the Project proposes 24 new trees would be located on the podium courtyard and rooftop deck.

Removal of heritage and other trees can cause impacts to roosting bats and nesting birds. Planting new trees as proposed may not be sufficient to offset impacts to wildlife resources.

Mr. Fahteen Khan  
City of Menlo Park  
December 22, 2023  
Page 7

Bat species may also occur within and surrounding the Project site, including in existing buildings. Bats are considered non-game mammals and are protected by state law from take and/or harassment (Fish and Game Code §4150, CCR §251.1). Several bat species are also considered Species of Special Concern.

**Recommendations:** CDFW recommends the Project avoid heritage tree removal to the greatest extent feasible. Where heritage tree removal is unavoidable, CDFW recommends Project mitigation focus on using native tree species such as regionally adapted native oak trees for replacements.

CDFW encourages that Project implementation occur during the bird non-nesting season; however, if ground-disturbing or vegetation-disturbing activities must occur during the breeding season (February through early-September), the Project applicant is responsible for ensuring that implementation of the Project does not result in violation of the MBTA or Fish and Game Codes.

**Evidence:** The comprehensive ecological benefits associated with the healthy urban forests have been extensively documented (Tyrväinen, Pauleit, Seeland, & De Vries, 2005; Pawlak et al., 2023), so there is a strong scientific rationale for selecting native trees for and preserving the canopy cover of urban forests. Indigenous tree species within urban settings play a pivotal role in supporting local wildlife and fostering biodiversity (Burghardt et al., 2009). For instance, McPherson's study (1998) showed how Sacramento County's urban forest reduces greenhouse gas emissions and sequesters substantial amounts of carbon dioxide. Additionally, several scientific inquiries have emphasized the importance of native trees in urban forest inventories because they are critical habitat for of avian, bat, and insect populations (Wood and Esaian, 2020).

Urban development activities in California significantly contribute to the decline of native tree species, an overall reduction in urban tree cover, as well as an increase in non-native and invasive tree varieties (Pawlak et al., 2023). Although California's urban forests yield numerous ecological advantages, they predominantly feature non-native species potentially poorly suited for a changing climate (Conway and Vecht, 2015; Pawlak et al., 2023). In contrast, native species are often better adapted to local environmental conditions, necessitating less water and fewer pesticides to persist (Pawlak et al., 2023), native species selection is therefore critical to mitigate the loss of existing trees.

Species selection for urban forest cultivation involves multiple factors, encompassing site-specific conditions like soil quality, available space, and tree-specific attributes such as native status, susceptibility to pests, water needs, and the overall species diversity within the area (Conway and Vecht, 2015; Pawlak et al., 2023). A resilient urban forest is comprised of a diverse array of native tree species, serves as critical habitat for

Mr. Fahteen Khan  
City of Menlo Park  
December 22, 2023  
Page 8

numerous birds, bats, and insects, encompassing both common and protected species (Burghardt et al., 2009; Ordóñez & Duinker, 2013). Choosing appropriate tree species becomes crucial to boost the presence of native species in urban forests to optimize ecosystem services and uphold regional ecological integrity (Ordóñez and Duinker, 2013). Numerous scientific studies provide evidence that native trees are often best species to propagate in the urban forest to support healthy regional ecosystems and local wildlife (Conway and Vecht, 2015; Pawlak et al., 2023):

- *Biodiversity Preservation*: Research often indicates that native trees support local biodiversity better than non-native species. Native trees have evolved within specific ecosystems, providing food, shelter, and support to a variety of native wildlife, such as insects, birds, and mammals;
- *Ecosystem Functioning*: Studies show that native trees contribute significantly to the overall health and functioning of ecosystems. They often have complex relationships with other species, including soil microbes, fungi, and other plants, which can be disrupted by introducing non-native species;
- *Resilience to Climate Change*: Native trees are generally better adapted to local environmental conditions, making them more resilient to climate change impacts like drought, extreme temperatures, and pests. They may require less water and fewer resources to thrive, reducing maintenance efforts;
- *Invasive Species Control*: Planting native trees helps to suppress the proliferation of invasive species that might outcompete or negatively impact native flora and fauna, thereby preserving the integrity of the ecosystem; and
- *Soil Health and Nutrient Cycling*: Native trees may have symbiotic relationships with soil microorganisms, aiding in nutrient cycling and maintaining soil health. Introducing non-native species can negatively impact overall soil quality and nutrient cycling.

### **Recommended Mitigation Measure 1: Nesting Bird Surveys**

CDFW recommends that a qualified avian biologist conduct pre-activity surveys for active nests no more than seven (7) days prior to the start of ground or vegetation disturbance and every fourteen (14) days during Project activities to maximize the probability that nests that could potentially be impacted are detected. CDFW also recommends that surveys cover a sufficient area around the Project site to identify nests and determine their status. A sufficient area means any area potentially affected by the Project. Prior to initiation of ground or vegetation disturbance, CDFW recommends that a qualified biologist conduct a survey to establish a behavioral baseline of all identified nests. Once Project activities begin, CDFW recommends

Mr. Fahteen Khan  
City of Menlo Park  
December 22, 2023  
Page 9

having the qualified biologist continuously monitor nests to detect behavioral changes resulting from the Project. If behavioral changes occur, CDFW recommends halting the work causing that change and consulting with CDFW for additional avoidance and minimization measures.

### **Recommended Mitigation Measure 2: Nesting Bird Buffers**

If continuous monitoring of identified nests by a qualified avian biologist is not feasible, CDFW recommends a minimum no-disturbance buffer of 250 feet around active nests of non-listed bird species and a 500-foot no-disturbance buffer around active nests of non-listed raptors. These buffers are advised to remain in place until the breeding season has ended or until a qualified biologist has determined that the birds have fledged and are no longer reliant upon the nest or on-site parental care for survival. Variance from these no-disturbance buffers is possible when there is compelling biological or ecological reason to do so, such as when the Project site would be concealed from a nest site by topography. CDFW recommends that a qualified avian biologist advise and support any variance from these buffers.

### **Recommended Mitigation Measure 3: Bat Habitat Assessment**

To evaluate Project impacts to bats, a qualified bat biologist should conduct a habitat assessment for bats at the site seven (7) days prior to the start of Project activities. The habitat assessment shall include a visual inspection of features within 50 feet of the work area for potential roosting features (bats need not be present). Habitat features found during the survey shall be flagged or marked.

### **Recommended Mitigation Measure 4: Bat Habitat Monitoring**

If any habitat features identified in the habitat assessment will be altered or disturbed by Project construction, the qualified bat biologist should monitor the feature daily to ensure bats are not disturbed, impacted, or fatalities are caused by the Project.

### **Recommended Mitigation Measure 5: Bat Project Avoidance**

If bat colonies are observed at the Project site, at any time, all Project activities should stop until the qualified bat biologist develops a bat avoidance plan to be implemented at the Project site. Once the plan is implemented, Project activities may recommence.

### **Recommended Mitigation Measure 6: Bat Roosting Structures**

If active bat roosts or signs of bat presence are observed at the Project site within habitat or structures (i.e., trees or buildings) that will be impacted as a result of Project, permanent bat roosting structures shall be incorporated into the design of the Project in consultation with CDFW. Temporary structures shall also be installed to provide habitat



Mr. Fahteen Khan  
City of Menlo Park  
December 22, 2023  
Page 10

from the timeframe to when the old structure is demolished, and the new structure is complete.

## ENVIRONMENTAL DATA

CEQA requires that information developed in environmental impact reports and negative declarations be incorporated into a database which may be used to prepare subsequent EIRs or to make subsequent or supplemental environmental determinations. (Pub. Resources Code, § 21003, subds. (d) & (e)). Accordingly, please report any special-status species and natural communities detected during Project surveys to CNDDDB. The CNDDDB online field survey form and other methods for submitting data can be found here: <https://wildlife.ca.gov/Data/CNDDDB/Submitting-Data>. The types of information reported to CNDDDB can be found here: <https://wildlife.ca.gov/Data/CNDDDB/Plants-and-Animals>.

## FILING FEES

CDFW anticipates that the proposed Project will have an impact on fish and/or wildlife, and assessment of environmental document filing fees is necessary. Fees are payable upon filing of the Notice of Determination by the Lead Agency and serve to help defray the cost of environmental review by CDFW. Payment of the environmental document filing fee is required in order for the underlying project approval to be operative, vested, and final. (Cal. Code Regs, tit. 14, § 753.5; Fish & G. Code, § 711.4; Pub. Resources Code, § 21089).

## CONCLUSION

CDFW appreciates the opportunity to provide comments on the proposed Project to assist the City in identifying and mitigating Project impacts on biological resources.

Questions regarding this letter or further coordination should be directed to Jason Teichman, Environmental Scientist at (707) 210-5104 or [Jason.Teichman@wildlife.ca.gov](mailto:Jason.Teichman@wildlife.ca.gov), or Wesley Stokes, Senior Environmental Scientist (Supervisory), at (707) 944-5554 or [Wesley.Stokes@wildlife.ca.gov](mailto:Wesley.Stokes@wildlife.ca.gov).

Sincerely,

DocuSigned by:  
*Erin Chappell*  
B77E9A6211EF486  
Erin Chappell  
Regional Manager  
Bay Delta Region

Mr. Fahteen Khan  
City of Menlo Park  
December 22, 2023  
Page 11

ec: Office of Planning and Research, State Clearinghouse (SCH No. 2023120023)  
Craig Weightman, CDFW Bay Delta Region - [Craig.Weightman@wildlife.ca.gov](mailto:Craig.Weightman@wildlife.ca.gov)

## REFERENCES

- Burghardt, K.T., Tallamy, D.W. and Shriver, G.W. (2009), *Impact of Native Plants on Bird and Butterfly Biodiversity in Suburban Landscapes*. Conservation Biology, 23: 219-224. <https://doi.org/10.1111/j.1523-1739.2008.01076.x>.
- Conway, T.M., Vecht, J.V. (2015). *Growing a diverse urban forest: Species selection decisions by practitioners planting and supplying trees*. Landscape and Urban Planning. Volume 138, Pages 1-10, ISSN 0169-2046. <https://doi.org/10.1016/j.landurbplan.2015.01.007>.
- McPherson, E. G. (1998). *Atmospheric carbon dioxide reduction by Sacramento's urban forest*. Journal of Arboriculture, 24, 215-223.
- Ordóñez, C. and Duinker, P. (2013) *An analysis of urban forest management plans in Canada: Implications for urban forest management*. Landscape and Urban Planning, Volume 116, Pages 36-47, ISSN 0169-2046. <https://doi.org/10.1016/j.landurbplan.2013.04.007>.
- Pawlak, C., Love, N. Yost, J., G., Fricker, A., Doremus, J., Ritter, M. (2023). *California's native trees and their use in the urban forest*. Urban Forestry & Urban Greening, Volume 89. ISSN 1618-8667. <https://doi.org/10.1016/j.ufug.2023.128125>.
- Tyrväinen, L., Pauleit, S., Seeland, K., de Vries, S. (2005). *Benefits and Uses of Urban Forests and Trees*. In: Konijnendijk, C., Nilsson, K., Randrup, T., Schipperijn, J. (eds) Urban Forests and Trees. Springer, Berlin, Heidelberg. [https://doi.org/10.1007/3-540-27684-X\\_5](https://doi.org/10.1007/3-540-27684-X_5)
- Wood, E. M., and S. Esaian. 2020. *The importance of street trees to urban avifauna*. Ecological Applications 30(7): e02149. 10.1002/eap.2149

***3705 HAVEN AVENUE  
RESIDENTIAL PROJECT  
AIR QUALITY & GREENHOUSE GAS  
ASSESSMENT***

***Menlo Park, California***

**August 20, 2024**

**Prepared for:**

**Fiona Phung  
Project Manager  
David J Powers & Associates Inc.  
1871 The Alameda Suite 200  
San José, CA 95126**

**Prepared by:**

**Zachary Palm  
Jordyn Bauer**

**ILLINGWORTH & RODKIN, INC.**  
**|||| Acoustics • Air Quality ||||**

**429 East Cotati Avenue  
Cotati, CA 94931  
(707) 794-0400**

**I&R Project#: 23-152**

## **Introduction**

The purpose of this report is to address the impacts of project emissions on air quality and greenhouse gases (GHGs). The project is a proposed residential development located at 3705 Haven Avenue in Menlo Park, California. The air quality and GHG impacts from this project would be associated with demolition of the existing building, construction of the new building, and operation of the project. Air pollutants and GHG emissions were predicted using industry-standard computer models. In addition, this report evaluates the potential health risks on nearby and proposed sensitive receptors associated with toxic air contaminant (TAC) sources during construction and operation of the project. The analysis was conducted following guidance provided by the Bay Area Air Quality Management District (BAAQMD).<sup>1</sup>

## **Project Description**

The 0.66-acre project site is developed with a commercial building and associated surface parking lot and landscaping. The project proposes to demolish the existing improvements and construct an approximately 117,781 square foot (sf), eight-story residential building with 112 units. The project also proposes two levels of above grade podium parking totaling approximately 35,226-sf. There would be 104 parking spaces inclusive of 16 EV supply equipment (EVSE) spaces or more if required by the California Green Building Standards Code (CALGreen) Tier 2 standards in effect at the time of building permit. The project would be all electric, with no natural gas connection. Construction is expected to begin in October 2024 and will be completed by September 2026.<sup>2</sup>

## **Setting**

The project is located in San Mateo County, which is in the San Francisco Bay Area Air Basin. Ambient air quality standards have been established at both the State and federal level. The Bay Area meets all ambient air quality standards with the exception of ground-level ozone, respirable particulate matter (PM<sub>10</sub>), and fine particulate matter (PM<sub>2.5</sub>).

## **Air Pollutants of Concern**

High ozone concentrations in the air basin are caused by the cumulative emissions of reactive organic gases (ROG) and nitrogen oxides (NO<sub>x</sub>). These precursor pollutants react under certain meteorological conditions to form ozone. Controlling the emissions of these precursor pollutants is the focus of the Bay Area's attempts to reduce ambient ozone concentrations. The highest ozone concentrations in the Bay Area occur in the eastern and southern inland valleys that are downwind of air pollutant sources. High ozone concentrations aggravate respiratory and cardiovascular diseases, reduced lung function, and increase coughing and chest discomfort.

---

<sup>1</sup> Bay Area Air Quality Management District, 2023. *CEQA Air Quality Guidelines*. April.

<sup>2</sup> At the time of this analysis, the construction schedule began in October of 2024. The project now likely will not begin construction before 2025. No re-analysis based on a later construction start date is necessary because emission quantities from project construction, and operation, would simply shift into the future and would not materially change. Further, project emissions are likely to decrease the later construction begins because new emission control technology on construction equipment, trucks, and passenger vehicles will be phased in over time and the Building Code likely will become more stringent.

Particulate matter is another problematic air pollutant in the air basin. Particulate matter is assessed and measured in terms of respirable particulate matter or particles that have a diameter of 10 micrometers or less (PM<sub>10</sub>) and fine particulate matter where particles have a diameter of 2.5 micrometers or less (PM<sub>2.5</sub>). Elevated concentrations of PM<sub>10</sub> and PM<sub>2.5</sub> are the result of both region-wide (or cumulative) emissions and localized emissions. High particulate matter concentrations aggravate respiratory and cardiovascular diseases, reduce lung function, increase mortality (e.g., lung cancer), and result in reduced lung function growth in children.

### Toxic Air Contaminants

Toxic air contaminants (TAC) are a broad class of compounds known to cause morbidity or mortality (usually because they cause cancer). TACs are found in ambient air, especially in urban areas, and are caused by industry, agriculture, fuel combustion, and commercial operations (e.g., dry cleaners). TACs are typically found in low concentrations, even near their source (e.g., diesel particulate matter [DPM] near a freeway). Because chronic exposure of TACs can result in adverse health effects, they are regulated at the regional, State, and federal level.

Diesel exhaust is the predominant TAC in urban air and is estimated to represent about three-quarters of the cancer risk from TACs (based on the Bay Area average). According to the California Air Resources Board (CARB), diesel exhaust is a complex mixture of gases, vapors, and fine particles. This complexity makes the evaluation of health effects from diesel exhaust exposure a complicated scientific issue. Some of the chemicals in diesel exhaust, such as benzene and formaldehyde, have been previously identified as TACs by the CARB, and are listed as carcinogens either under the State's Proposition 65 or under the Federal Hazardous Air Pollutants programs. The most recent Office of Environmental Health Hazard Assessment (OEHHA) risk assessment guidelines were published in February of 2015 and incorporated into BAAQMD's current CEQA guidance.<sup>3</sup>

### Sensitive Receptors

There are groups of people more affected by air pollution than others. CARB has identified the following persons who are most likely to be affected by air pollution: children under 16, people over 65, athletes, and people with cardiovascular and chronic respiratory diseases. These groups are classified as sensitive receptors. Locations that may contain a high concentration of these sensitive population groups include residential areas, hospitals, daycare facilities, elder care facilities, and elementary schools. For cancer risk assessments, children are the most sensitive receptors, since they are more susceptible to cancer causing TACs. Residential locations are assumed to include infants and small children. The closest sensitive receptors to the project site are the multi-family residences adjacent to the northwest. There are additional single- and multi-family residences to the southwest opposite Highway 101. This project would introduce new sensitive receptors (i.e., residents) to the area.

---

<sup>3</sup> OEHHA, 2015. *Air Toxics Hot Spots Program Risk Assessment Guidelines, The Air Toxics Hot Spots Program Guidance Manual for Preparation of Health Risk Assessments*. Office of Environmental Health Hazard Assessment. February.

## Regulatory Setting

### Federal Regulations

The United States Environmental Protection Agency (EPA) sets nationwide emission standards for mobile sources, which include on-road (highway) motor vehicles such trucks, buses, and automobiles, and non-road (off-road) vehicles and equipment used in construction, agricultural, industrial, and mining activities (such as bulldozers and loaders). The EPA also sets nationwide fuel standards. California also has the ability to set motor vehicle emission standards and standards for fuel, as long as they are the same or more stringent than the nationwide standards.

In the past twenty years, the EPA has established a number of emission standards for on- and non-road heavy-duty diesel engines used in trucks and other equipment. This was done in part because diesel engines are a significant source of NO<sub>x</sub> and particulate matter (PM<sub>2.5</sub>) and because the EPA has identified DPM as a probable carcinogen. Implementation of the heavy-duty diesel on-road vehicle standards and the non-road diesel engine standards are estimated to reduce particulate matter and NO<sub>x</sub> emissions from diesel engines up to 95 percent in 2030 when the heavy-duty vehicle fleet is completely replaced with newer heavy-duty vehicles that comply with these emission standards.<sup>4</sup>

In concert with the diesel engine emission standards, the EPA has also substantially reduced the amount of sulfur allowed in diesel fuels. The sulfur contained in diesel fuel is a significant contributor to the formation of particulate matter in diesel-fueled engine exhaust. The current standards limit the amount of sulfur allowed in diesel fuel to 15 parts per million by weight (ppmw). Ultra-low sulfur diesel (ULSD), as it is referred to, is required for use by all vehicles in the U.S.

All of the above federal diesel engine and diesel fuel requirements have been adopted by California, in some cases with modifications making the requirements more stringent or the implementation dates sooner.

### State Regulations

To address the issue of diesel emissions in the state, CARB developed the *Risk Reduction Plan to Reduce Particulate Matter Emissions from Diesel-Fueled Engines and Vehicles*.<sup>5</sup> In addition to requiring more stringent emission standards for new on-road and off-road mobile sources and stationary diesel-fueled engines to reduce particulate matter emissions by 90 percent, a significant component of the plan involves application of emission control strategies to existing diesel vehicles and equipment. Many of the measures of the Diesel Risk Reduction Plan have been approved and adopted, including the federal on-road and non-road diesel engine emission standards for new engines, as well as adoption of regulations for low sulfur fuel in California.

---

<sup>4</sup> USEPA, 2000. *Regulatory Announcement, Heavy-Duty Engine and Vehicle Standards and Highway Diesel Fuel Sulfur Control Requirements*. EPA420-F-00-057. December.

<sup>5</sup> California Air Resources Board, 2000. *Risk Reduction Plan to Reduce Particulate Matter Emissions from Diesel-Fueled Engines and Vehicles*. October.

CARB has adopted and implemented a number of regulations for stationary and mobile sources to reduce emissions of DPM. Several of these regulatory programs affect medium and heavy-duty diesel trucks that represent the bulk of DPM emissions from California highways. CARB regulations require on-road diesel trucks to be retrofitted with particulate matter controls or replaced to meet 2010 or later engine standards that have much lower NO<sub>x</sub>, DPM and PM<sub>2.5</sub> emissions. This regulation substantially reduced these emissions between 2013 and 2023. While new trucks and buses will meet strict federal standards, this measure was intended to accelerate the rate at which the fleet either turns over so there are more, cleaner vehicles on the road or retrofitted to meet similar standards. With this regulation, older, more polluting trucks have been removed from the roads sooner.

CARB has also implemented regulations to reduce DPM and NO<sub>x</sub> emissions from in-use (existing) and new off-road heavy-duty diesel vehicles (e.g., loaders, tractors, bulldozers, backhoes, off-highway trucks, etc.). The regulations apply to diesel-powered off-road vehicles with engines 25 horsepower (hp) or greater. The regulations are intended to reduce DPM and NO<sub>x</sub> exhaust emissions by requiring owners to turn over their fleet (replace older equipment with newer equipment) or retrofit existing equipment in order to achieve specified fleet-averaged emission rates. Implementation of this regulation, in conjunction with stringent federal off-road equipment engine emission limits for new vehicles, will significantly reduce emissions of DPM and NO<sub>x</sub>. These regulations will have been in place for 10 years when project construction begins in 2025.

#### Bay Area Air Quality Management District (BAAQMD)

BAAQMD has jurisdiction over an approximately 5,600-square mile area, commonly referred to as the San Francisco Bay Area (Bay Area). The District's boundary encompasses the nine San Francisco Bay Area counties, including Alameda County, Contra Costa County, Marin County, San Francisco County, San Mateo County, Santa Clara County, Napa County, southwestern Solano County and southern Sonoma County.

BAAQMD is the lead agency in developing plans to address attainment and maintenance of the National Ambient Air Quality Standards (NAAQS) and California Ambient Air Quality Standards (CAAQS). The District also has permit authority over most types of stationary equipment utilized for the proposed project. The BAAQMD is responsible for permitting and inspection of stationary sources; enforcement of regulations, including setting fees, levying fines, and enforcement actions; and ensuring that public nuisances are minimized.

BAAQMD's Community Air Risk Evaluation (CARE) program was initiated in 2004 to evaluate and reduce health risks associated with exposures to outdoor TACs in the Bay Area.<sup>6</sup> The program examines TAC emissions from point sources, area sources, and on-road and off-road mobile sources with an emphasis on diesel exhaust, which is a major contributor to airborne health risk in California. The CARE program is an on-going program that encourages community involvement and input. The technical analysis portion of the CARE program has been implemented in three phases that includes an assessment of the sources of TAC emissions, modeling and measurement programs to estimate concentrations of TAC, and an assessment of exposures and health risks. Throughout the program, information derived from the technical analyses has been used to develop emission reduction activities in areas with high TAC exposures and high density of sensitive

populations. Risk reduction activities associated with the CARE program are focused on the most at-risk communities in the Bay Area. Seven areas have been identified by BAAQMD as impacted communities. They include Eastern San Francisco, Richmond/San Pablo, Western Alameda, San José, Vallejo, Concord, and Pittsburgh/Antioch. The project site is not within any of the BAAQMD CARE areas.

Overburdened communities are areas located (i) within a census tract identified by the California Communities Environmental Health Screening Tool (CalEnviroScreen), Version 4.0 implemented by OEHHA, as having an overall CalEnviroScreen score at or above the 70<sup>th</sup> percentile, or (ii) within 1,000 feet of any such census tract.<sup>6</sup> The BAAQMD has identified several overburden areas within the air district's boundaries. However, the project site is not within an overburdened area as the project site and surrounding area are scored at the 10<sup>th</sup> percentile on CalEnviroScreen.<sup>7</sup>

### BAAQMD CEQA Air Quality Guidelines

In June 2010, BAAQMD adopted thresholds of significance to assist in the review of projects under CEQA. In 2022, the BAAQMD revised the *California Environmental Quality Act (CEQA) Air Quality Guidelines* that include significance thresholds to assist in the evaluation of air quality impacts of projects and plans proposed within the Bay Area. The current BAAQMD guidelines provide recommended procedures for evaluating potential air impacts during the environmental review process consistent with CEQA requirements including thresholds of significance, mitigation measures, and background air quality information. They include assessment methodologies for criteria air pollutants, air toxics, odors, and GHG emissions, as shown in Table 1.<sup>8</sup> Air quality impacts and health risks are considered potentially significant if they exceed these thresholds.

The BAAQMD recommends all projects include a “basic” set of best management practices (BMPs) to manage fugitive dust and consider impacts from dust (i.e., fugitive PM<sub>10</sub> and PM<sub>2.5</sub>) to be less than significant if BMPs are implemented (listed below). BAAQMD strongly encourages enhanced BMPs for construction sites near schools, residential areas, other sensitive land uses, or if air quality impacts were found to be significant.

---

<sup>6</sup> See BAAQMD: [https://www.baaqmd.gov/~/\\_media/dotgov/files/rules/reg-2-permits/2021-amendments/documents/20210722\\_01\\_appendixd\\_mapsofverburdenedcommunities-pdf.pdf?la=en](https://www.baaqmd.gov/~/_media/dotgov/files/rules/reg-2-permits/2021-amendments/documents/20210722_01_appendixd_mapsofverburdenedcommunities-pdf.pdf?la=en) , accessed 11/23/2021.

<sup>7</sup> OEHHA, CalEnviroScreen 4.0 Maps [https://experience.arcgis.com/experience/11d2f52282a54ceebcac7428e6184203/page/CalEnviroScreen-4\\_0/](https://experience.arcgis.com/experience/11d2f52282a54ceebcac7428e6184203/page/CalEnviroScreen-4_0/)

<sup>8</sup> Bay Area Air Quality Management District, 2023. *2022 CEQA Guidelines*. April.



**Table 1. BAAQMD CEQA Air Quality Significance Thresholds**

Criteria Air Pollutant	Construction Thresholds	Operational Thresholds	
	Average Daily Emissions (lbs./day)	Average Daily Emissions (lbs./day)	Annual Average Emissions (tons/year)
ROG	54	54	10
NO <sub>x</sub>	54	54	10
PM <sub>10</sub>	82 (Exhaust)	82	15
PM <sub>2.5</sub>	54 (Exhaust)	54	10
CO	Not Applicable	9.0 ppm (8-hour average) or 20.0 ppm (1-hour average)	
Fugitive Dust (PM <sub>10</sub> /PM <sub>2.5</sub> )	Best Management Practices (BMPs)*	Not Applicable	
<b>Health Risks and Hazards</b>	<b>Single Sources Within 1,000-foot Zone of Influence</b>	<b>Combined Sources (Cumulative from all sources within 1000-foot zone of influence)</b>	
Excess Cancer Risk	>10.0 in a million	>100 in a million	
Hazard Index	>1.0	>10.0	
Incremental annual PM <sub>2.5</sub>	>0.3 µg/m <sup>3</sup>	>0.8 µg/m <sup>3</sup>	
<b>Greenhouse Gas Emissions</b>			
Land Use Projects – (Must Include A or B)	<p>A. Projects must include, at a minimum, the following project design elements:</p> <ol style="list-style-type: none"> <li>1. Buildings                             <ol style="list-style-type: none"> <li>a. The project will not include natural gas appliances or natural gas plumbing (in both residential and nonresidential development).</li> <li>b. The project will not result in any wasteful, inefficient, or unnecessary energy usage as determined by the analysis required under CEQA Section 21100(b)(3) and Section 15126.2(b) of the State CEQA Guidelines.</li> </ol> </li> <li>2. Transportation                             <ol style="list-style-type: none"> <li>a. Achieve a reduction in project-generated vehicle miles traveled (VMT) below the regional average consistent with the current version of the California Climate Change Scoping Plan (currently 15 percent) or meet a locally adopted Senate Bill 743 VMT target, reflecting the recommendations provided in the Governor’s Office of Planning and Research’s Technical Advisory on Evaluating Transportation Impacts in CEQA:                                     <ol style="list-style-type: none"> <li>i. Residential projects: 15 percent below the existing VMT per capita</li> <li>ii. Office projects: 15 percent below the existing VMT per employee</li> <li>iii. Retail projects: no net increase in existing VMT</li> </ol> </li> <li>b. Achieve compliance with off-street electric vehicle requirements in the most recently adopted version of CALGreen Tier 2.</li> </ol> </li> </ol> <p>B. Be consistent with a local GHG reduction strategy that meets the criteria under State CEQA Guidelines Section 15183.5(b).</p>		
<p>Note: ROG = reactive organic gases, NO<sub>x</sub> = nitrogen oxides, PM<sub>10</sub> = coarse particulate matter or particulates with an aerodynamic diameter of 10 micrometers (µm) or less, PM<sub>2.5</sub> = fine particulate matter or particulates with an aerodynamic diameter of 2.5µm or less. GHG = greenhouse gases.</p> <p>* BAAQMD strongly recommends implementing all feasible fugitive dust management practices especially when construction projects are located near sensitive communities, including schools, residential areas, or other sensitive land uses.</p>			

Source: Bay Area Air Quality Management District, 2022

## City of Menlo Park General Plan

The City of Menlo Park General Plan, adopted November 29, 2016, includes goals, policies, and programs to reduce exposure of the City's sensitive population to exposure of air pollution and toxic air contaminants or TACs. The following goals, policies, and programs are applicable to the proposed project and this assessment:

### Land Use Element

- Goal LU-2                      Maintain and enhance the character, variety and stability of Menlo Park's residential neighborhoods.
- Goal LU-6                      Preserve open-space lands for recreation; protect natural resources and air and water quality; and protect and enhance scenic qualities.
- Goal LU-7                      Promote the implementation and maintenance of sustainable development, facilities, and services to meet the needs of Menlo Park's residents, businesses, workers, and visitors.

### *Applicable Policies – Land Use Element*

- Policy LU-2.3                      **Mixed Use Design.** Allow mixed-use projects with residential units if project design addresses potential compatibility issues such as traffic, parking, light spillover, dust, odors, and transport and use of potentially hazardous materials.
- Policy LU-6.9                      **Pedestrian and Bicycle Facilities.** Provide well-designed pedestrian and bicycle facilities for safe and convenient multi-modal activity through the use of access easements along linear parks or paseos.
- Policy LU-7.1                      **Sustainability.** Promote sustainable site planning, development, landscaping, and operational practices that conserve resources and minimize waste.
- Policy LU-7.9                      **Green Building.** Support sustainability and green building best practices through the orientation, design, and placement of buildings and facilities to optimize their energy efficiency in preparation of State zero-net energy requirements for residential construction in 2020 and commercial construction in 2030.

### *Applicable Programs – Land Use Element*

- Program LU-7.A                      **Green Building Operation and Maintenance.** Employ green building and operation and maintenance best practices, including increased energy efficiency, use of renewable energy and reclaimed water, and install drought-tolerant landscaping for all projects.

- Program LU-7.D      **Performance Standards.** Establish performance standards in the Zoning Ordinance that requires new development to employ environmentally friendly technology and design to conserve energy and water and minimize the generation of indoor and outdoor pollutants.
- Program LU-7.E      **Greenhouse Gas Emissions.** Develop a Greenhouse Gas (GHG) standard for development projects that would help reduce communitywide GHG emissions to meet City and Statewide reduction goals.

Circulation Element

- Goal CIRC-1      Provide and maintain a safe, efficient, attractive, user-friendly circulation system that promotes a healthy, safe, and active community and quality of life throughout Menlo Park.
- Goal CIRC-2      Increase accessibility for and use of streets by pedestrians, bicyclists, and transit riders.
- Goal CIRC-5      Support local and regional transit that is efficient, frequent, convenient, and safe.
- Goal CIRC-6      Provide a range of transportation choices for the Menlo Park community.

*Applicable Policies – Circulation Element*

- Policy CIRC-1      **Safe Routes to Schools.** Support Safe Routes to School programs to enhance the safety of school children who walk and bike to school.
- Policy CIRC-2.7      **Walking and Biking.** Provide for the safe, efficient, and equitable use of streets by pedestrians and bicyclists through appropriate roadway design and maintenance, effective traffic law enforcement, and implementation of the City’s Comprehensive Bicycle Development Plan and the El Camino Real/Downtown Specific Plan.
- Policy CIRC-2.8      **Pedestrian Access at Intersections.** Support full pedestrian access across all legs of signalized intersections.
- Policy CIRC-2.9      **Bikeway System Expansion.** Expand the Citywide bikeway system through appropriate roadway design, maintenance, effective traffic law enforcement, and implementation of the City’s Comprehensive Bicycle Development Plan, and the El Camino Real/Downtown Specific Plan.
- Policy CIRC-2.13      **County Congestion Management.** Work with the County Congestion Management Agency to implement the Countywide Congestion Management Program and Deficiency Plans for City and State facilities,

and avoid adding any Menlo Park streets or intersections to the Countywide Congestion Management Program.

- Policy CIRC-2.14     **Impacts of New Development.** Require new development to mitigate its impacts on the safety (e.g., collision rates) and efficiency (e.g., vehicle miles traveled (VMT) per capita) of the circulation system, by minimizing cut-through vehicle traffic on residential streets and speeding traffic; reducing the number of vehicle trips, providing bicycle, pedestrian, and transit connections, amenities and improvements in proportion with the scale of proposed projects; and facilitating appropriate or adequate response times and access for emergency vehicles.
- Policy CIRC-2.15     **Regional Transportation Improvements.** Work with neighboring jurisdictions and appropriate agencies to identify and secure adequate funding for regional transportation improvements to improve transportation options and reduce congestion in Menlo Park and adjacent communities.
- Policy CIRC-5.1     **Transit Service and Ridership.** Promote improved public transit service and increased transit ridership, especially to employment centers, commercial destinations, schools, and public facilities.
- Policy CIRC-5.2     **Transit Proximity to Activity Centers.** Promote the clustering of as many activities as possible within easy walking distance of transit stops, and locate any new transit stops as close as possible to housing, jobs, shopping areas, open space, and parks.
- Policy CIRC-5.3     **Rail Service.** Promote increasing the capacity and frequency of commuter rail service, including Caltrain; protect rail rights-of-way for future transit service; and support efforts to reactivate the Dumbarton Corridor for transit, pedestrian, bicycle, and emergency vehicle use.
- Policy CIRC-5.4     **Caltrain Enhancements.** Support Caltrain safety and efficiency improvements, such as positive train control, grade separation (with priority at Ravenswood Avenue), and electrification, provided that Caltrain service to Menlo Park increases and use of the rail right-of-way is consistent with the City’s Rail Policy.
- Policy CIRC-5.6     **Bicycle Amenities and Transit.** Encourage transit providers within San Mateo County to provide improved bicycle amenities to enhance convenience, including access to transit including bike share programs, secure storage at transit stations and onboard storage where feasible.
- Policy CIRC-5.7     **New Development.** Ensure that new nonresidential, mixed-use, and multiple-dwelling residential development provides associated needed

transit service, improvements and amenities in proportion with demand attributable to the type and scale of the proposed development.

Policy CIRC-6.1     **Transportation Demand Management.** Coordinate Menlo Park’s transportation demand management efforts with other agencies providing similar services within San Mateo and Santa Clara Counties.

Open Space/Conservation Element

Goal OSC-2           Provide parks and recreation facilities. Develop and maintain a parks and recreation system to provide areas and facilities conveniently located, sustainable, properly designed and well-maintained to serve the recreation needs and promote healthy living of residents, workers and visitors to Menlo Park.

Goal OSC-4           Promote sustainability and climate action planning. Promote a sustainable energy supply and implement the City’s Climate Action Plan to reduce greenhouse gas emissions and improve the sustainability of actions by City government, residents, and businesses in Menlo Park. This includes promoting land use patterns that reduce the number and length of motor vehicle trips, and encouraging recycling, reduction and reuse programs.

Goal OSC-5           Ensure healthy air and water quality. Enhance and preserve air quality in accord with State and regional standards, and encourage the coordination of total water quality management including both supply and wastewater treatment.

*Applicable Policies – Open Space/Conservation Element*

Policy OSC-2.7       **Conservation of Resources at City Facilities.** Reduce consumption of water, energy, landfilled waste, and fossil fuels in the construction, operations and maintenance of City owned and/or operated facilities.

Policy OSC-4.1       **Sustainable Approach to Land Use Planning to Reduce Resource Consumption.** Encourage, to the extent feasible, (1) a balance and match between jobs and housing, (2) higher density residential and mixed-use development to be located adjacent to commercial centers and transit corridors, and (3) retail and office areas to be located within walking and biking distance of transit or existing and proposed residential developments.

Policy OSC-4.2       **Sustainable Building.** Promote and/or establish environmentally sustainable building practices or standards in new development that would conserve water and energy, prevent stormwater pollution, reduce landfilled waste, and reduce fossil fuel consumption from transportation and energy activities.

- Policy OSC-4.3      **Renewable Energy.** Promote the installation of renewable energy technology, such as, on residences and businesses through education, social marketing methods, establishing standards and/or providing incentives.
- Policy OSC-4.4      **Vehicles Using Alternative Fuel.** Explore the potential for installing infrastructure for vehicles that use alternative fuel, such as electric plug in recharging stations.
- Policy OSC-4.5      **Energy Standards in Residential and Commercial Construction.** Encourage projects to achieve a high level of energy conservation exceeding standards set forth in the California Energy Code for Residential and Commercial development.
- Policy OSC-4.6      **Waste Reduction Target.** Strive to meet the California State Integrated Waste Management Board per person target of waste generation per person per day through their source reduction, reuse, and recycling programs.
- Policy OSC-4.7      **Waste Management Collaboration.** Continue to support and participate in efforts such as the South Bayside Waste Management Authority, which provides waste reduction, recycling, and solid waste programs and solutions.
- Policy OSC-4.8      **Waste Diversion.** Develop and implement a zero waste policy, or implement standards, incentives, or other programs that would lead the community towards a zero waste goal.
- Policy OSC-4.9      **Climate Action Planning.** Undertake annual review and updates, as needed, to the City’s Climate Action Plan (CAP).
- Policy OSC-4.10      **Energy Upgrade California.** Consider actively marketing and providing additional incentives for residents and businesses
- Policy OSC-5.1      **Air and Water Quality Standards.** Continue to apply standards and policies established by the Bay Area Air Quality Management District (BAAQMD), San Mateo Countywide Water Pollution Prevention Program (SMCWPPP), and City of Menlo Park Climate Action Plan through the California Environmental Quality Act (CEQA) process and other means as applicable.
- Policy OSC-5.3      **Water Conservation.** Encourage water-conserving practices in businesses, homes and institutions.

City of Menlo Park ConnectMenlo Environmental Impact Report (EIR) and Housing Element Update (HEU) Draft Subsequent Environmental Impact Report (SEIR)

In January 2023, the City of Menlo Park certified the City of Menlo Park Housing Element Update (HEU) Subsequent Environmental Impact Report (SEIR)<sup>9</sup> and adopted the HEU. The HEU amended the City’s General Plan (ConnectMenlo) to provide goals, policies, and implementing programs to address housing needs citywide. This project, after accounting for Density Bonus Law, is consistent with the project site’s General Plan land use designation (put in place by ConnectMenlo) and zoning.

The ConnectMenlo General Plan Update in 2016 enabled opportunities for over 5,000 new housing units in the City, including housing on the project site. The HEU SEIR evaluated the potential for housing sites sufficient to accommodate 4,000 new dwelling units, as well as accounting for General Plan growth, pipeline projects and potential accessory dwelling units (ADUs) to consider a maximum build-out and cumulative scenarios. Specifically, the HEU SEIR began with the 2015 baseline data from ConnectMenlo and updated it to a 2021 baseline by incorporating approved and constructed housing units, estimated population, and estimated jobs added since the adoption of ConnectMenlo in 2016. In addition to 4,000 new housing units that could be developed through zoning changes as part of the HEU, the SEIR accounted for 2,733 new residential units from projects that have been submitted and are currently under review, 85 anticipated accessory dwelling units, and an additional 299 units of cumulative development.

The following air quality impacts and mitigation measures were identified in the HEU SEIR:

**Impact AQ-1:** Implementation of the HEU would not conflict with or obstruct implementation of the applicable air quality plan. (*Less than Significant*)

**Impact AQ-2:** Implementation of the HEU would result in a cumulatively considerable net increase of criteria pollutants for which the project region is in non-attainment under an applicable federal or state ambient air quality standard. (*Significant and Unavoidable Impact, with Mitigation*)

**Mitigation Measure AQ-2: Emission Reduction Measures**

The following mitigation measures are recommended to reduce criteria air pollutant emissions from multi-family housing developments under the HEU.

- a) As part of the City’s development approval process, the City shall require applicants for future development projects to comply with current Bay Area Air Quality Management District’s basic control measures for reducing construction emissions of PM<sub>10</sub>.

---

<sup>9</sup> City of Menlo Park, URL: <https://menlopark.gov/files/sharedassets/public/v/1/community-development/documents/projects/housing-element-update/menlo-park-housing-element-update-draft-seir.pdf>

- b) Prior to issuance of building permits, development project applicants that are subject to CEQA and exceed the screening sizes in the BAAQMD's CEQA Guidelines shall prepare and submit to the City of Menlo Park a technical assessment evaluating potential project construction-related air quality impacts. The evaluation shall be prepared in conformance with the BAAQMD methodology in assessing air quality impacts. If construction-related criteria air pollutants are determined to have the potential to exceed the BAAQMD thresholds of significance, as identified in the BAAQMD CEQA Guidelines, the City of Menlo Park shall require that applicants for new development projects incorporate emission reduction measures to reduce air pollutant emissions during construction activities to below the thresholds of significance. These identified measures shall be incorporated into all appropriate construction documents submitted to the City and shall be verified by the City's Building Division and/or Planning Division.
  
- c) In the event that a project-specific analysis finds that the project could result in significant construction criteria air pollutant emissions that exceed significance thresholds, the project sponsor shall implement the following emission reduction measures to the degree necessary to reduce the impact to less than significance thresholds, and shall implement other feasible measures as needed to reduce the impact to less than the significance thresholds.
  - 1) Diesel off-road equipment shall have engines that meet the Tier 4 Final off-road emission standards, as certified by CARB, as required to reduce the emissions to less than the thresholds of significance shown in Table 2-1 of the BAAQMD CEQA Guidelines (BAAQMD, 2017b). This requirement shall be verified through submittal of an equipment inventory that includes the following information: (1) Type of Equipment, (2) Engine Year and Age, (3) Number of Years Since Rebuild of Engine, (4) Type of Fuel Used, (5) Engine HP, (6) Verified Diesel Emission Control Technology (VDECS) information if applicable and other related equipment data. A Certification Statement is also required to be made by the Contractor for documentation of compliance and for future review by the BAAQMD as necessary. The Certification Statement must state that the Contractor agrees to compliance and acknowledges that a violation of this requirement shall constitute a material breach of contract.

The City may waive the equipment requirement above only under the following unusual circumstances: if a particular piece of off-road



equipment with Tier 4 Final standards is technically not feasible or not commercially available; the equipment would not produce desired emissions reduction due to expected operating modes; installation of the equipment would create a safety hazard or impaired visibility for the operator; or there is a compelling emergency need to use other alternate off-road equipment. If the City grants the waiver, the contractor shall use the next cleanest piece of off-road equipment available.

- 2) The project sponsor shall require the idling time for off-road and on-road equipment be limited to no more than 2 minutes, except as provided in exception to the applicable state regulations regarding idling for off-road and on-road equipment. Legible and visible signs shall be posted in multiple languages (English, Spanish, Chinese) in designated queuing areas and at the construction site to remind operators of the 2-minute idling limit.
  
- d) Prior to issuance of building permits, development project applicants that are subject to CEQA and exceed the screening sizes in the BAAQMD CEQA Guidelines shall prepare and submit to the City of Menlo Park a technical assessment evaluating potential project operation-phase-related air quality impacts. The evaluation shall be prepared in conformance with the BAAQMD methodology in assessing air quality impacts. If operational-related criteria pollutants are determined to have the potential to exceed the BAAQMD thresholds of significance, as identified in BAAQMD's CEQA Guidelines, the City of Menlo Park Community Development Department shall require that applicants for new development projects incorporate emission reduction measures to reduce air pollutant emissions during operational activities to below the thresholds of significance.

**Impact AQ-3:** Implementation of the HEU would not expose sensitive receptors to substantial pollutant concentrations. (*Less than Significant with Mitigation*).

**Mitigation Measure AQ-3: Health Risk Reduction Measures.**

- a) Applicants for residential and other sensitive land use projects (e.g., hospitals, nursing homes, day care centers) in Menlo Park within 1,000 feet of major sources of toxic air contaminants (TACs) (e.g., warehouses, industrial areas, freeways, and roadways with traffic volumes over 10,000 vehicles per day), as measures from the property line of the project to the property line of the source/edge of the nearest travel lane, shall submit a health risk assessment (HRA) to the City of Menlo Park prior to future discretionary Project approval. The HRA shall be prepared in accordance

with policies and procedures of State Office of Environmental Health Hazard Assessment (OEHHA) and the Bay Area Air Quality Management District. The latest OEHHA guidelines shall be used for the analysis, including age sensitivity factors, breathing rates, and body weights appropriate for children ages 0 to 16 years. If the HRA shows that the incremental cancer risk exceeds ten in one million ( $10E^{06}$ ),  $PM_{2.5}$  concentrations exceed  $0.3 \mu\text{g}/\text{m}^3$ , or the appropriate noncancer hazard index exceeds 1.0, including appropriate enforcement mechanisms. Measures to reduce risk include but are not limited to: Air intakes located away from high volume roadways and/or truck loading zones; Heating, ventilation, and air conditioning systems of the buildings provided with appropriately sized maximum efficiency rating value (MERV) filters. Measures identified in the HRA shall be included in the environmental document and/or incorporated into the site development plan as a component of the proposed project. The air intake design and MERV filter requirements shall be noted and/or reflected on all building plans submitted to the City and shall be verified by the City's Building Division and/or Planning Division.

Project sponsors proposing multifamily development projects within 1,000 feet of sensitive receptors, including residences, schools, day care centers, and hospitals, shall prepare a project-level health risk assessment at the time the project is proposed. In lieu of a project-level health risk assessment, a comparison of the project with other similar-sized projects located a similar distance from receptors and with a similar type of development (e.g., bedroom counts) where a quantitative analysis has been conducted and were found to not exceed the BAAQMD health risk thresholds can be used to demonstrate less than significant health risk impacts. The selection of comparison projects shall be subject to preapproval by the City. If the comparison does not show the project will have the same or less impact, a project-level health risk assessment is required.

In the event that a project-level health risk assessment finds that the project could result in health risks that exceed significance thresholds, the project sponsor shall implement the clean construction equipment requirement of Mitigation Measure AQ-2(c) to the degree necessary to reduce the impact to less than significance thresholds, and shall implement other feasible measures as needed to reduce the impacts to less than significant thresholds.

**Impact AQ-4:** Implementation of the HEU would not result in other emissions (such as those leading to odors) adversely affecting a substantial number of people. (*Less than Significant*)

**Impact AQ-5:** Implementation of the HEU, in conjunction with cumulative sources, would not result in exposure of sensitive receptors to a cumulatively considerable increase in levels of fine particulate matter (PM<sub>2.5</sub>) and TACs under cumulative conditions. (*Less than Significant*)

**Impact AQ-6:** Implementation of the HEU, when combined with other past, present, or reasonably foreseeable projects, would not combine with other sources of odors that would adversely affect a substantial number of people. (*Less than Significant*).

## **AIR QUALITY IMPACTS**

### **Impact AIR-1: Conflict with or obstruct implementation of the applicable air quality plan?**

The project is consistent with the development potential established by the General Plan and zoning, after accounting for Density Bonus Law. According to the ConnectMenlo EIR and HEU SEIR, planned City growth would not hinder BAAQMD's implementation of the Bay Area Clean Air Plan. The primary goals of the Clean Air Plan are to protect air quality and public health at the regional and local scale by reducing regional criteria air pollutant emissions and reducing local air quality-related health risks (by meeting the CAAQS and NAAQS) and protect the climate by encouraging actions that reduce GHG emissions. To determine consistency with the 2017 Clean Air Plan, the HEU SEIR analysis considered whether the HEU would: (1) support the primary goals of the Clean Air Plan; (2) include applicable control measures of the Clean Air Plan; and (3) avoid disrupting or hindering implementation of control measures identified in the Clean Air Plan. The HEU SEIR concluded that residential growth in the City would not conflict with or obstruct implementation of the 2017 Clean Air Plan because that growth would be in dense multi-family housing that would support the implementation of transportation-, energy-, building-, waste-, and water conservation-related measures discussed in the Clean Air Plan.

The proposed project would not conflict with the latest Clean Air planning efforts since it would support the primary goals of the Clean Air Plan. The project would have emissions below the BAAQMD thresholds (see Impact below), which means that it would not contribute to exceedances of the CAAQS or NAAQS. The project also would support climate reduction goals because it is dense multi-family housing on a previously developed site served by existing utilities and services in a job-rich area. These features reduce per capita GHG emissions compared to single-family residences not near jobs, with density that does not support the growth of transit service.

**Conclusion AIR-1: Less than significant.** Compared to the environmental effects analyzed in the ConnectMenlo EIR and HEU SEIR, the project has none of the following: (1) peculiar effects, (2) effects not analyzed as significant in the analysis on the General Plan as updated by the HEU, (3) new potentially significant off-site impacts or cumulative impacts, or (4) more severe adverse impacts than discussed in the ConnectMenlo EIR as updated by the HEU SEIR.

**Impact AIR-2: Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard?**

Consistent with BAAQMD's recommendations for the analysis of plans, the ConnectMenlo EIR compared the VMT and population increases anticipated from the plan and concluded that ConnectMenlo would not make a cumulatively considerable contribution to the net increase of any criteria pollutant for which the project region is in nonattainment. The HEU SEIR reached the same conclusion as the ConnectMenlo EIR under the plan threshold. The HEU SEIR also evaluated the significance of the HEU's impacts under the BAAQMD threshold for individual projects and concluded that the additional residential growth planned under the HEU would result in a *significant and unavoidable* impact with mitigation with respect to Impact AIR-2 because of uncertainty that construction and operational criteria air pollutant impacts associated with all subsequent projects would be reduced to less than significant. This is because projects with substantial ground disturbance, specialty construction equipment, or compressed and highly intensive construction schedules would be expected to exceed emissions significance thresholds. As a result, Mitigation Measures AQ-2(b) and AQ-2(d) are required for implementation by any project in the area but are insufficient to guarantee that all projects would have less than cumulatively considerable impacts.

HEU SEIR Mitigation Measure AQ-2a would require all projects within Menlo Park to implement BAAQMD basic BMPs to control emissions of fugitive dust during construction. HEU SEIR Mitigation Measures AQ-2b also requires the project to prepare a construction-related criteria air pollutant assessment. If construction emissions result in criteria air pollutant emissions that exceed BAAQMD significance thresholds, the project would be required to implement additional measures listed in HEU SEIR Mitigation Measure AQ-2c to reduce construction emissions below significance thresholds. These could include use of clean construction equipment and engine idle time restrictions.

#### Project Analysis – Construction

Pursuant to the BAAQMD CEQA Guidelines, if a project is at or below the applicable screening level size and meets additional screening criteria identified, the project is assumed to have impacts related to construction criteria air pollutants that are less than significant. While the project is below the applicable screening level size of 416 apartment units identified in the BAAQMD CEQA Guidelines, the project would include demolition of the existing building on-site.<sup>10</sup> Therefore, the project's construction-related criteria pollutant emissions was evaluated per HEU Mitigation Measure AQ-2b. As discussed below, the project construction emissions would be below BAAQMD's thresholds for criteria air pollutants and therefore would not make a cumulatively considerable contribution to significant cumulative impacts of such pollutants.

---

<sup>10</sup> One of the BAAQMD listed screening criteria include construction-related activities such as demolition, simultaneous occurrence of two or more construction phases, extensive site preparation, extensive materials transport, or stationary sources subject to Air District rules and regulations.

## Construction Period Emissions

The California Emissions Estimator Model (CalEEMod) Online Version 2022 was used to estimate emissions from on-site construction activity, construction vehicle trips, and evaporative emissions. The project land use types and size, and anticipated construction schedule were input to CalEEMod. The CalEEMod model output along with construction inputs are included in *Attachment 1*.

### CalEEMod Inputs

#### *Land Use Inputs*

The proposed project land uses were entered into CalEEMod as described in Table 2.

**Table 2. Summary of Project Land Use Inputs<sup>11</sup>**

Project Land Uses	Size	Units	Square Feet (sf)	Acreage
Apartments Mid Rise	112	Dwelling Unit	117,781	0.66
Unenclosed Parking with Elevator	99	Parking Spaces	35,226	

#### *Construction Inputs*

CalEEMod computes annual emissions for construction that are based on the project type, size, and acreage. The model provides emission estimates for both on-site and off-site construction activities. On-site activities are primarily made up of construction equipment emissions, while off-site activity includes worker, hauling, and vendor traffic. The construction build-out scenario, including equipment quantities, average hours per day, total number of workdays, and schedule, was provided by the project applicant (see *Attachment 1*). The construction schedule assumed that the earliest possible start date would be October 2024 and the project would be built out over a period of approximately 23 months or 512 construction workdays. The earliest year of operation was assumed to be 2027.<sup>12</sup>

#### *Construction Truck Traffic Emissions*

Construction would produce traffic in the form of worker trips and truck traffic. The traffic-related emissions are based on worker and vendor trip estimates produced by CalEEMod and haul trips that were computed based on the amount of demolition material to be exported, soil imported and/or exported to the site, and the amount of concrete and asphalt truck trips to and from the site. CalEEMod provides daily estimates of worker and vendor trips for each applicable phase. Daily haul trips for demolition and grading were estimated by CalEEMod using the provided demolition

---

<sup>11</sup> Since the original analysis was completed, the parking space quantity has increased to 104 parking spaces from 99 parking spaces. This change would have no effect on the outcomes of this report.

<sup>12</sup> At the time of this analysis, the construction schedule began in October of 2024. Construction now likely will not begin before 2025. No reanalysis based on a later construction start date is necessary because emission quantities from project construction, and operation, would simply shift into the future and would not materially change. Further, project emissions are likely to decrease the later construction begins because new emission control technology on construction equipment, trucks, and passenger vehicles will be phased in over time and the Building Code likely will become more stringent.

and grading volumes. The number of concrete and asphalt total round haul trips were provided for the project and converted to daily one-way trips, assuming two trips per delivery. These values are shown in the project construction equipment worksheets included in *Attachment 1*.

**Conclusion – Construction Emissions**

Average daily emissions were annualized for each year of construction by dividing the annual construction emissions by the number of active workdays during that year. Table 3 shows the unmitigated annualized average daily construction emissions of ROG, NOx, PM<sub>10</sub> exhaust, and PM<sub>2.5</sub> exhaust during construction of the project. As indicated in Table 3, the predicted average daily project construction emissions would not exceed the BAAQMD significance thresholds during any year of construction.

**Table 3. Construction Period Emissions - Unmitigated**

Year	ROG	NOx	PM <sub>10</sub> Exhaust	PM <sub>2.5</sub> Exhaust
<i>Construction Emissions Per Year (Tons)</i>				
2024	0.02	0.22	0.01	0.01
2025	0.34	0.51	0.01	0.01
2026	0.55	0.05	<0.01	<0.01
<i>Average Daily Construction Emissions Per Year (pounds/day)</i>				
2024 (66 construction workdays)	0.57	6.58	0.23	0.21
2025 (261 construction workdays)	2.63	3.87	0.11	0.11
2026 (185 construction workdays)	6.00	0.49	0.02	0.02
<i>BAAQMD Thresholds (pounds per day)</i>	54 lbs./day	54 lbs./day	82 lbs./day	54 lbs./day
<b>Exceed Threshold?</b>	No	No	No	No

**Compliance with HEU SEIR Mitigation Measure AQ-2a**

Construction activities, particularly during site preparation and grading, would temporarily generate fugitive dust in the form of PM<sub>10</sub> and PM<sub>2.5</sub>. Sources of fugitive dust would include disturbed soils at the construction site and trucks carrying uncovered loads of soils. Unless properly controlled, vehicles leaving the site would deposit mud on local streets, which could be an additional source of airborne dust after it dries. The BAAQMD CEQA Air Quality Guidelines consider these impacts to be less than significant if BMPs are implemented to reduce these emissions. Mitigation Measure AQ-2a of the HEU SEIR requires implementation of BAAQMD’s basic BMPs:

***HEU SEIR Mitigation Measure AQ-2a:* Include measures to control dust and exhaust during construction.**

The project applicant for any subsequent development project in Menlo Park shall require all construction plans to specify implementation of the following BMPs:

1. All exposed surfaces (e.g., parking areas, staging areas, soil piles, graded areas, and unpaved access roads) shall be watered two times per day.
2. All haul trucks transporting soil, sand, or other loose material off-site shall be covered.

3. All visible mud or dirt track-out onto adjacent public roads shall be removed using wet power vacuum street sweepers at least once per day. The use of dry power sweeping is prohibited.
4. All vehicle speeds on unpaved roads shall be limited to 15 miles per hour (mph).
5. All roadways, driveways, and sidewalks to be paved shall be completed as soon as practicable. Building pads shall be laid as soon as practicable after grading unless seeding or soil binders are used.
6. All excavation, grading, and/or demolition activities shall be suspended when average wind speeds exceed 20 mph.
7. All trucks and equipment, including their tires, shall be washed off prior to leaving the site.
8. Unpaved roads providing access to site located 100 feet of further from a paved road shall be treated with a 6- to 12-inch layer of compacted layer of wood chips, mulch, or gravel.
9. Publicly visible signs shall be posted with the telephone number and name of the person to contact at the lead agency regarding dust complaints. This person shall respond and take corrective action within 48 hours. The Air District's General Air Pollution Complaints number shall be visible to ensure compliance with applicable regulations.

#### *Effectiveness of HEU SEIR Mitigation Measure AQ-2a*

*HEU SEIR Mitigation Measure AQ-2a* is consistent with BAAQMD-recommended basic BMPs for reducing fugitive dust contained in the BAAQMD CEQA Air Quality Guidelines and is a uniformly applied development standard in the City. Only the basic set of BMPs are required as the unmitigated fugitive dust emissions from construction are below the BAAQMD single-source threshold.

Additional measures under HEU SEIR Mitigation Measure AQ-2c are not necessary because the project does not have criteria air pollutant emissions that exceed criteria pollutant significance thresholds during the construction period.

#### **Project Analysis – Operations**

The project is significantly smaller than the BAAQMD screening thresholds. Therefore, under HEU SEIR Mitigation Measure AQ-2d, no technical assessment evaluating potential project operation-phase-related air quality impacts is required. Nevertheless, this report provides such an assessment, which reaches the expected conclusion, which is that project operational emissions would be below BAAQMD's thresholds for criteria air pollutants and therefore would not make a cumulatively considerable contribution to significant cumulative impacts of such pollutants.

## Operational Emissions

Operational air emissions from the project would be generated primarily from autos driven by future residents. Evaporative ROG emissions from architectural coatings and maintenance products (classified as consumer products) are also typical ROG emission sources from these types of land uses. CalEEMod was used to estimate emissions from operation of the proposed project assuming full build-out.

### CalEEMod Inputs

#### *Land Uses*

The project land uses were input to CalEEMod as described above for the construction period modeling.

#### *Model Year*

Emissions associated with vehicle travel depend on the year of analysis because emission control technology requirements are phased-in over time. Therefore, the earlier the year analyzed in the model, the higher the emission rates utilized by CalEEMod. The earliest year of full operation would be 2027 if construction begins in 2024. Emissions associated with build-out later than 2027 would be lower.

#### *Traffic Information*

CalEEMod allows the user to enter specific vehicle trip generation rates. Therefore, the project-specific daily trip generation rate provided by the traffic consultant was entered into the model.<sup>13</sup> The project would produce approximately 508 daily trips. When considering the 35% *Transportation Demand Management (TDM) Reduction* adjustments applied in the traffic analysis, the project would produce 331 daily trips<sup>14</sup>. The daily trip generation was calculated using ITE trip generation rates, the size of the project land uses, and the adjusted total automobile trips. The Saturday and Sunday trip rates were derived by multiplying the ratio of the CalEEMod default rates for Saturday and Sunday trips to the default weekday rate with the project-specific daily weekday trip rate. The default trip lengths and trip types specified by CalEEMod were used because those rates have proved to be indicative of trip lengths and type in the City.

#### *Energy*

CalEEMod defaults for energy use were used, which include the 2019 Title 24 Building Standards. GHG emissions modeling includes those indirect emissions from electricity consumption. The electricity produced emission rate was modified in CalEEMod. The CalEEMod default emission

---

<sup>13</sup> Email correspondence from Fiona Phung, Project Manager, David J. Powers, Inc., May 2, 2024, *Haven Ave Residential TIA\_Traffic Volumes\_VMT (5-2-24).xlsx*. ”

<sup>14</sup> Total trips are utilized for criteria pollutant modeling to capture the full emissions profile of the traffic generated by the project.



factor for electricity produced, which is based on Peninsula Clean Energy's 2019 emissions rate, was utilized for this analysis.

The project plans do not show any natural gas infrastructure, and the applicant has confirmed the building will be all electric. Therefore, natural gas use for the project land uses was set to zero and reassigned to electricity use in CalEEMod.

### *Other Inputs*

Default model assumptions for emissions associated with solid waste generation and water use were used. Wastewater treatment was estimated to be 100% aerobic conditions to represent City wastewater treatment plant conditions. The project site would not send wastewater to on-site septic tanks or facultative lagoons.

### *Existing Use*

An existing commercial building and associated parking lot currently occupies the project site. CalEEMod was used to estimate the emissions generated by operation of the current building. The 10,361-sf commercial building would generate approximately 112 daily trips as estimated by the traffic consultant.<sup>15</sup> CalEEMod defaults were used to estimate energy use emissions, including emissions from natural gas usage and solid waste generation. Emissions from wastewater use were based on 100 percent aerobic treatment to represent wastewater treatment plant conditions. The CalEEMod model inputs and output for the existing facility are included in *Attachment 1*.

## **Conclusion**

Annual operational emissions were predicted using CalEEMod as described above. The daily emissions were calculated assuming 365 days of operation. Table 4 shows average daily emissions of ROG, NO<sub>x</sub>, total PM<sub>10</sub>, and total PM<sub>2.5</sub> during operation of the project. The operational period emissions would not exceed the BAAQMD significance thresholds. Therefore, additional measures under the HEU SEIR Mitigation Measure AQ-2d are not necessary since the project does not have criteria air pollutant emissions that exceed criteria pollutant significance thresholds during the operational period.

---

<sup>15</sup> Email correspondence from Fiona Phung, Project Manager, David J. Powers, Inc., May 2, 2024, *Haven Ave Residential TIA\_Traffic Volumes\_VMT (5-2-24).xlsx*."

**Table 4. Operational Period Emissions**

Scenario	ROG	NO <sub>x</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>
2027 Annual Project Operational Emissions ( <i>tons/year</i> )	0.76	0.11	0.32	0.08
Existing Facility Emissions ( <i>tons/year</i> )	0.10	0.06	0.13	0.03
Net Operational Emissions ( <i>tons/year</i> )	0.66	0.05	0.19	0.05
<i>BAAQMD Thresholds (tons /year)</i>	<i>10 tons</i>	<i>10 tons</i>	<i>15 tons</i>	<i>10 tons</i>
<i>Exceed Threshold?</i>	<i>No</i>	<i>No</i>	<i>No</i>	<i>No</i>
2027 Daily Project Operational Emissions ( <i>pounds/day</i> ) <sup>1</sup>	3.59	0.28	1.04	0.26
<i>BAAQMD Thresholds (pounds/day)</i>	<i>54 lbs.</i>	<i>54 lbs.</i>	<i>82 lbs.</i>	<i>54 lbs.</i>
<i>Exceed Threshold?</i>	<i>No</i>	<i>No</i>	<i>No</i>	<i>No</i>

Note: <sup>1</sup>Assumes 365-day operation.

**Conclusion AIR-2:** The project would not exceed the BAAQMD significance thresholds during operation and would include appropriate BMPs recommended in the BAAQMD CEQA Air Quality Guidelines. As a result, impacts from the project emissions of criteria air pollutants would be less than significant and the project would not make a cumulatively considerable contribution to significant cumulative criteria air pollutant impacts. Compared to the environmental effects analyzed in the ConnectMenlo EIR and HEU SEIR, the project has none of the following: (1) peculiar effects, (2) effects not analyzed as significant in the analysis on the General Plan as updated by the HEU, (3) new potentially significant off-site impacts or cumulative impacts, or (4) more severe adverse impacts than discussed in the ConnectMenlo EIR as updated by the HEU SEIR.

**Impact AIR-3: Expose sensitive receptors to substantial pollutant concentrations?**

Summary of the ConnectMenlo EIR and HEU SEIR

The ConnectMenlo EIR addressed two types of pollutant concentrations that can adversely affect sensitive receptors: CO hotspots and TACs. Areas of vehicle congestion can create CO hotspots with the potential to exceed the state ambient air quality standards. The ConnectMenlo EIR found that the developments under the General Plan would be consistent with C/CAG’s 2013 Congestion Management Program and therefore localized air quality impacts related to pollutant concentrations from mobile-source emissions would be less than significant. According to the HEU SEIR, the land use and circulation elements are the same as those contained within the ConnectMenlo EIR and therefore, the HEU would be consistent with C/CAG’s 2021 Congestion Management Program (San Mateo County, 2021), and localized air quality impacts related to pollutant concentrations from mobile-source emissions would be less than significant.

The ConnectMenlo EIR did not specifically address TACs from the construction of residential projects, and instead focused on operational TACs, finding impacts would be less than significant with mitigation. As the HEU SEIR states, construction and operation of multi-family development projects could expose existing sensitive receptors near the sites to levels of TACs and PM<sub>2.5</sub> that could lead to potentially significant health risk impacts. Although residential projects that are below the BAAQMD screening sizes are not expected to have a significant impact from criteria pollutant emissions, screening is infeasible because the severity of the impact depends on the proximity of the emissions-generating activity to sensitive receptors, meteorological conditions, and the duration of exposure. Therefore, the HEU SEIR requires Mitigation Measure AQ-3a to

address exposure of sensitive receptors to TACs. Under this mitigation measure, projects that may result in TAC emissions that are located within 1,000 feet of sensitive receptors are required to prepare a Health Risk Assessment (HRA). Based on the results of the HRA, the project may be required to identify and implement measures (such as Tier 4 Final construction equipment or air filtration systems) to reduce potential exposure to particulate matter, carbon monoxide, diesel fumes, and other potential health hazards<sup>16</sup>. Measures identified in the HRA are to be included into the site development plan as a component of a proposed project.

## Project Analysis

Project impacts related to increased health risk can occur by generating emissions of TACs and air pollutants. This project would introduce new sources of TACs during construction (i.e., on-site construction and truck hauling emissions) and operation (i.e., mobile sources). Project construction activity would generate dust and equipment exhaust that would affect nearby sensitive receptors. The project would not include stationary sources but would generate some traffic consisting of mostly light-duty gasoline-powered vehicles, which would produce TAC and air pollutant emissions.

Project impacts to existing sensitive receptors were addressed for temporary construction activities and long-term operational conditions. There are also several sources of existing TACs and localized air pollutants in the vicinity of the project. The impact of existing sources of TACs was assessed in terms of the cumulative risk which includes the project contribution; as well as the risk on the new sensitive receptors introduced by the project.

## Local Carbon Monoxide (CO) Impacts

According to BAAQMD CEQA Guidelines, the project would result in less than significant localized CO concentrations if it is consistent with county and local congestion management plans and does not increase traffic volumes at affected intersections to over 24,000 vehicles per hour.

As mentioned above, the project would generate 331 daily trips, significantly less than the 24,000 vehicles per hour threshold. The project trips also do not interfere with the Santa Clara Valley Transportation Authority's Congestion Management Plan as the project includes a TDM program to reduce project trips by 35 percent, as mentioned above. As a result, project operational impacts from CO emissions would be less than significant.

## Health Risk Methodology for Construction and Operation

Health risk impacts were addressed by predicting increased cancer risk, the increase in annual PM<sub>2.5</sub> concentrations, and by computing the Hazard Index (HI) for non-cancer health risks. The risk impacts from the project are the combination of risks from construction and operation sources. These sources include on-site construction activity, construction truck hauling, and increased traffic from the project. To evaluate the increased cancer risks from the project, a 30-year exposure

---

<sup>16</sup> Tier 4 Final in this context is intended as an example of a measure a project can use to reduce health related impacts to sensitive receptors. This project, however, required Tier 4 Interim emission controls, as discussed below.

period was used, per BAAQMD guidance,<sup>17</sup> with the sensitive receptors being exposed to both project construction and operation emissions during this timeframe.

The project increased cancer risk is computed by summing the project construction cancer risk and operation cancer risk contributions. Unlike the increased maximum cancer risk, the annual PM<sub>2.5</sub> concentration and HI values are not additive but based on the annual maximum values for the entirety of the project. The project maximally exposed individual (MEI) is identified as the sensitive receptor that is most impacted by the project's construction and operation.

The methodology for computing health risks impacts is contained in Appendix E of the BAAQMD CEQA Guidelines. TAC and PM<sub>2.5</sub> emissions are calculated, a dispersion model used to estimate ambient pollutant concentrations, and cancer risks and HI calculated using DPM concentrations.

### Modeled Sensitive Receptors

Receptors for this assessment included locations where sensitive populations closest to the project would be present for extended periods of time (i.e., chronic exposures). This includes the existing residences near the site, as shown in Figure 1. Residential receptors are assumed to include all receptor groups (i.e., third trimester, infants, children, and adults) with almost continuous exposure to project emissions. While there are additional sensitive receptors within 1,000 feet of the project site, the receptors chosen are adequate to identify maximum impacts from the project.

### **Compliance with HEU SEIR Mitigation Measure AQ-3a**

The primary health risk impact issues associated with construction projects are cancer risks associated with diesel exhaust (i.e., DPM), which is a known TAC, and exposure to high ambient concentrations of dust (i.e., PM<sub>2.5</sub>). DPM poses both a potential health and nuisance impact to nearby receptors. A health risk assessment of the project construction activities was conducted that evaluated potential health effects to nearby sensitive receptors from construction emissions of DPM and PM<sub>2.5</sub>.<sup>18</sup> This assessment included dispersion modeling to predict the offsite concentrations resulting from project construction, so that lifetime cancer risks and non-cancer health effects could be estimated.

### Construction Emissions

The CalEEMod model provided total annual PM<sub>10</sub> exhaust emissions (assumed to be DPM) for the off-road construction equipment and for exhaust emissions from on-road vehicles, with total emissions from all construction stages being 0.01 tons (29 pounds). The on-road vehicle emissions are a result of haul truck travel on-site during demolition and grading activities, worker travel on-site, and vendor travel on-site during construction. A trip length of one mile was used to represent vehicle travel while at or near the construction site. Fugitive PM<sub>2.5</sub> dust emissions were calculated by CalEEMod as 0.01 tons (14 pounds) for the overall construction period.

---

<sup>17</sup> BAAQMD, 2022. *BAAQMD CEQA Air Quality Guidelines Appendix E*. April 2023.

<sup>18</sup> DPM is identified by California as a toxic air contaminant due to the potential to cause cancer.

## Dispersion Modeling

The U.S. EPA AERMOD dispersion model was used to predict DPM and PM<sub>2.5</sub> concentrations at sensitive receptors (i.e., residences) in the vicinity of the project construction area. The AERMOD dispersion model is a BAAQMD-recommended model for use in modeling analysis of these types of emission activities for CEQA projects.<sup>19</sup> Emission sources for the construction site were grouped into two categories: exhaust emissions of DPM and fugitive PM<sub>2.5</sub> dust emissions.

### *Construction Sources*

Combustion equipment DPM exhaust emissions were modeled as an array of point sources to reflect construction equipment and trucks operating at the site. These sources included nine-foot release heights (construction equipment exhaust stack height) that were placed at 23 feet (7 meter) intervals throughout the construction site. This resulted in 62 individual point sources being used to represent mobile equipment DPM exhaust emissions in the construction. The total DPM emissions were divided into each of the point sources that were spread throughout the project construction site. In addition, the following stack parameters were used: a vertical release, a stack diameter of 2.5 inches, an exhaust temperature of 918°F, and an exit velocity of 309 feet per second. Point source plume rise is calculated by the AERMOD dispersion model. Emissions from vehicle travel on- and off-site were also distributed among the point sources throughout the site. The array of point sources used for the modeling are shown in Figure 1.

For modeling fugitive PM<sub>2.5</sub> emissions, a near-ground level release height of 7 feet (2 meters) was used for the area source. Fugitive dust emissions at construction sites come from a variety of sources, including truck and equipment travel, grading activities, truck loading (with loaders) and unloading (rear or bottom dumping), loaders and excavators moving and transferring soil and other materials, etc. All of these activities result in fugitive dust emissions at various heights at the point(s) of generation. Once generated, the dust plume will tend to rise as it moves downwind across the site and exit the site at a higher elevation than when it was generated. For all these reasons, a 7-foot release height was used as the average release height across the construction site. Emissions from the construction equipment and on-road vehicle travel were distributed throughout the modeled area sources. Figure 1 shows the project construction site and receptors.

### *AERMOD Inputs and Meteorological Data*

The modeling used a five-year meteorological data set (2011-2015) from the San Carlos Airport prepared for us with the AERMOD model by the BAAQMD. Construction emissions were modeled as occurring daily between 7:00 a.m. to 6:00 p.m., per the project applicant's construction schedule. Annual DPM and PM<sub>2.5</sub> concentrations from construction activities during the 2024-2026 period were calculated using the model. DPM and PM<sub>2.5</sub> concentrations were calculated at nearby sensitive receptors. Receptor heights of 5 feet (1.5 meters), 15 feet (4.5 meters), 25 feet (7.6 meters), and 35 feet (10.7 meters) were used to represent the breathing height on the first through fourth floors of nearby single- and multi-family residences.<sup>20</sup>

---

<sup>19</sup> BAAQMD, 2023, *Appendix E of the 2022 BAAQMD CEQA Guidelines*. April.

<sup>20</sup> BAAQMD, 2022. *BAAQMD CEQA Air Quality Guidelines Appendix E*. April 2023.

## Summary of Construction Health Risk Impacts

The maximum increased cancer risks were calculated using the modeled TAC concentrations combined with the BAAQMD CEQA guidance for age sensitivity factors and exposure parameters. Age-sensitivity factors reflect the greater sensitivity of infants and small children to cancer causing TACs. Third trimester, infant, child, and adult exposures were assumed to occur at all residences during the entire construction period.

Non-cancer health hazards and maximum PM<sub>2.5</sub> concentrations were also calculated and identified. The maximum modeled annual PM<sub>2.5</sub> concentration was calculated based on combined exhaust and fugitive concentrations. The maximum computed HI value was based on the ratio of the maximum DPM concentration modeled and the chronic inhalation reference exposure level of 5 µg/m<sup>3</sup>.

The maximum modeled annual DPM and PM<sub>2.5</sub> concentrations were identified at nearby sensitive receptors (as shown in Figure 1) to find the maximally exposed individuals (MEI). Results of this assessment indicated that the construction MEIs were located at two different receptors. The cancer risk MEI was located on the third floor (25 feet above the ground) of a multi-family home west of the project site. The annual PM<sub>2.5</sub> concentration MEI was located at a receptor adjacent to the cancer risk MEI but on the first floor (5 feet above the ground) of a multi-family home west of the project site. Table 5 summarizes the maximum cancer risks, PM<sub>2.5</sub> concentrations, and HI for project's construction activities at the MEIs. *Attachment 2* to this report includes the emission calculations used for the construction area source modeling and the cancer risk calculations.

## **Health Risks from Project Operation**

The project would not include stationary sources (e.g., emergency generators) of TACs. Diesel powered vehicles are the primary concern with local traffic-generated TAC impacts. This project would generate 508 daily trips or 331 daily trips<sup>21</sup> with a majority of the trips being from light-duty gasoline-powered vehicles (i.e., passenger cars)<sup>22</sup>. The project is not anticipated to generate large amounts of truck trips that would involve diesel vehicles. In addition, projects with the potential to cause or contribute to increased cancer risk from traffic include those that have high numbers of diesel-powered on road trucks or use off-road diesel equipment on site, such as a distribution center, a quarry, or a manufacturing facility, may potentially expose existing or future planned receptors to substantial cancer risk levels and/or health hazards. TAC emissions from project-related vehicle trips are considered negligible and not included in this analysis.

## Summary of Project-Related Health Risks at the Off-Site Project MEI

For this project, the sensitive receptors identified in Figure 1 as the construction MEIs are also the project MEIs. Project risk impacts are shown in Table 5. The unmitigated maximum cancer risks,

---

<sup>21</sup> Email correspondence from Fiona Phung, Project Manager, David J. Powers, Inc., May 2, 2024, *Haven Ave Residential TIA\_Traffic Volumes\_VMT (5-2-24).xlsx*. ”

<sup>22</sup> If the total trip quantity had been high enough to warrant dispersion modeling, total (rather than net) trips would have been utilized for health risk modeling to capture the full emissions profile of the traffic generated by the project.

annual PM<sub>2.5</sub> concentration, and HI from project construction activities at the residential project MEI locations would not exceed the single-source significance thresholds.

**Table 5. Construction Risk Impacts at the Off-Site Project MEIs**

Source		Cancer Risk <sup>1</sup> (per million)	Annual PM <sub>2.5</sub> <sup>1</sup> (µg/m <sup>3</sup> )	Hazard Index
Project Construction	Unmitigated	7.70 (infant)	0.07	<0.01
<i>BAAQMD Single-Source Threshold</i>		<i>10</i>	<i>0.3</i>	<i>1.0</i>
<i>Exceed Threshold?</i>	Unmitigated	<i>No</i>	<i>No</i>	<i>No</i>

Note: <sup>1</sup> Maximum cancer risk and PM<sub>2.5</sub> concentration occur at different receptors.

**Figure 1. Locations of Project Construction Site, DPM Point Sources, Off-Site Sensitive Receptors, and Maximum TAC Impacts (MEIs)**



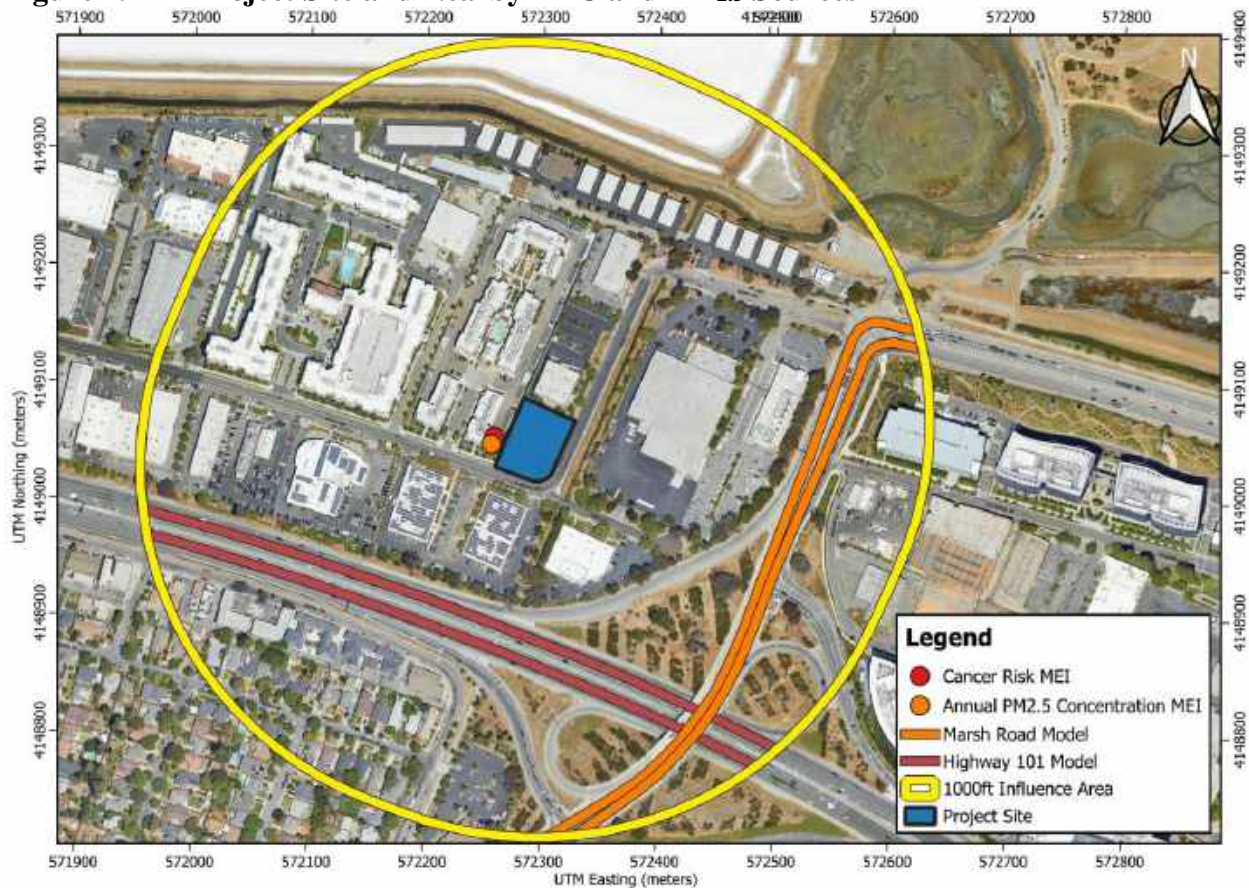
**Cumulative Health Risks of all TAC Sources at the Off-Site Project MEIs**

Cumulative health risk assessments look at all substantial sources of TACs located within 1,000 feet of a project site (i.e., influence area) that can affect sensitive receptors. These sources include freeways or highways, busy surface streets, and stationary sources identified by BAAQMD. A review of the project area using BAAQMD’s geographic information systems (GIS) screening maps identified the existing health risks from nearby sources at the MEIs. Highway 101 and Marsh Road were identified as potential TAC sources that could affect the project MEIs. No existing stationary sources were identified within the influence area. Figure 2 shows the location of the



sources affecting the MEIs. Health risk impacts from these sources upon the MEIs are reported in Table 6. Details of the modeling and health risk calculations are included in *Attachment 3*.

**Figure 2. Project Site and Nearby TAC and PM<sub>2.5</sub> Sources**



### Highways – Highway 101

The project MEIs are located near Highway 101. A refined analysis of the impacts of TACs and PM<sub>2.5</sub> to the MEI receptors is necessary to evaluate potential cancer risks and PM<sub>2.5</sub> concentrations from Highway 101. A review of the traffic information reported by Caltrans indicates that Highway 101 traffic includes 170,000 vehicles per day (based on an annual average)<sup>23</sup> that are about 4.50 percent trucks, of which 1.8 percent are considered diesel heavy duty trucks and 2.7 percent are medium duty trucks.<sup>24</sup>

### Local Roadways – Marsh Road

A refined analysis of potential health impacts from vehicle traffic on Marsh Road was conducted since the roadway was identified as a potential TAC source. The refined analysis involved predicting emissions for the traffic volume and mix of vehicle types on the roadway near the

<sup>23</sup> Caltrans. 2021. *2021 Traffic Volumes California State Highways*.

<sup>24</sup> Caltrans. 2021. *2021 Annual Average Daily Truck Traffic on the California State Highway System*.



project site and using an atmospheric dispersion model to predict exposure to TACs. The associated cancer risks are then computed based on the modeled exposures.

### *Traffic Emissions Modeling*

This analysis involved the development of DPM, organic TACs, and PM<sub>2.5</sub> emissions for traffic on Highway 101 and Marsh Road using the Caltrans version of the CARB EMFAC2021 emissions model, known as CT-EMFAC2021. CT-EMFAC2021 provides emission factors for mobile source criteria pollutants and TACs, including DPM. Emission processes modeled include running exhaust for DPM, PM<sub>2.5</sub> and total organic compounds (TOG), running evaporative losses for TOG, and tire and brake wear and fugitive road dust for PM<sub>2.5</sub>. All PM<sub>2.5</sub> emissions from all vehicles were used, rather than just the PM<sub>2.5</sub> fraction from diesel powered vehicles, because all vehicle types (i.e., gasoline and diesel powered) produce PM<sub>2.5</sub>. Additionally, PM<sub>2.5</sub> emissions from vehicle tire and brake wear from re-entrained roadway dust were included in these emissions. DPM emissions are projected to decrease in the future and are reflected in the CT-EMFAC2021 emissions data. Inputs to the model include region (San Mateo County), type of road (freeway and major/collector), traffic mix assigned by CT-EMFAC2021 for the county, adjusted for the local truck mix on Highway 101 and truck percentage for non-state highways in San Mateo County (3.13 percent)<sup>25</sup> for the local roadway, year of analysis (2024 – construction start year), and season (annual).

To estimate TAC and PM<sub>2.5</sub> emissions over the 30-year exposure period used for calculating the increased cancer risks for sensitive receptors at the MEIs, the CT-EMFAC2021 model was used to develop vehicle emission factors for the year 2024 (construction start year). Emissions associated with vehicle travel depend on the year of analysis because emission control technology requirements are phased-in over time. Therefore, the earlier the year analyzed in the model, the higher the emission rates utilized by CT-EMFAC2021. Year 2024 emissions were conservatively assumed as being representative of future conditions over the time period that cancer risks are evaluated since, as discussed above, overall vehicle emissions, and in particular diesel truck emissions, will decrease in the future.

The average daily traffic (ADT) volumes and truck percentages were based on Caltrans data for Highway 101. Traffic volumes were assumed to increase 1 percent per year for a total of 175,099 vehicles. Hourly traffic distributions specific to these segments of Highway 101 were obtained from Caltrans Performance Measurement System (PeMS). PeMS data is collected in real-time from nearly 40,000 individual detectors spanning the freeway system across all major metropolitan areas of California.<sup>26</sup> The fraction of traffic volume each hour was calculated and applied to the 2024 average daily traffic volumes estimate to estimate hourly traffic emission rates for Highway 101.

---

<sup>25</sup> Bay Area Air Quality Management District, 2012, *Recommended Methods for Screening and Modeling Local Risks and Hazards, Version 3.0*. May. Web: <https://www.baaqmd.gov/~media/files/planning-and-research/ceqa/risk-modeling-approach-may-2012.pdf?la=en>

<sup>26</sup> Caltrans Performance Measurement System (PeMS) Data Source. URL: <https://dot.ca.gov/programs/traffic-operations/mpr/pems-source>

Based on traffic data from the Caltrans PeMS, traffic speeds during the daytime and nighttime periods were identified. For northbound and southbound traffic on Highway 101, the following was assumed for all vehicles:

- 70 mph – From 12:00 a.m. until 6:00 a.m. and 7:00 p.m. until 12:00 a.m.
- 65 mph – From 6:00 a.m. until 7:00 a.m. and 10:00 a.m. until 7:00 p.m.
- 60 mph – From 7:00 a.m. until 10:00 a.m.

The ADT for Marsh Road was calculated based on traffic data provided by the City of Menlo Park traffic volumes website.<sup>27</sup> Assuming a 1 percent per year increase, the predicted ADT on Marsh Road was 45,451 vehicles. Average hourly traffic distributions for San Mateo County roadways were developed using the EMFAC model,<sup>28</sup> which were then applied to the ADT volumes to obtain estimated hourly traffic volumes and emissions for Marsh Road. An average travel speed of 45 mph was used for all hours of the day based on posted speed limit signs on each roadway.

This analysis involved the development of DPM, organic TACs, and PM<sub>2.5</sub> emissions for future traffic on Highway 101 and Marsh Road and using these emissions with an air quality dispersion model to calculate TAC and PM<sub>2.5</sub> concentrations at the project MEI receptor locations. Maximum increased lifetime cancer risks and annual PM<sub>2.5</sub> concentrations for the receptors were then computed using modeled TAC and PM<sub>2.5</sub> concentrations and BAAQMD methods and exposure parameters.

### *Dispersion Modeling*

Dispersion modeling of TAC and PM<sub>2.5</sub> emissions was conducted using the EPA AERMOD air quality dispersion model, which is recommended by the BAAQMD for this type of analysis.<sup>29</sup> TAC and PM<sub>2.5</sub> emissions from traffic on Highway 101 and Marsh Road within 1,000 feet of the project site were evaluated. Vehicle traffic on the roadways was modeled using a series of area sources along a line (line area sources); with line segments used for travel on the roadways in opposing directions. The same meteorological data and off-site sensitive receptors used in the previous construction site dispersion modeling scenario were used in the roadway modeling. Other inputs to the model included road geometry, hourly traffic emissions, and receptor locations. Annual TAC and PM<sub>2.5</sub> concentrations using 2024 emissions from traffic on each roadway were calculated using the model. Concentrations were calculated at the MEIs with receptor heights of 5 feet (1.5 meters) and 25 feet (7.6 meters) to represent the breathing heights on the first and third floors of residents in the multi-family residences.

---

<sup>27</sup> City of Menlo Park Traffic Counts Map. Web:

<https://menlopark.maps.arcgis.com/apps/dashboards/ca1d1781eb284056b55865e05c8df9da>

<sup>28</sup> The Burden output from EMFAC2007, a previous version of CARB's EMFAC model, was used for this since the current web-based version of EMFAC2021 does not include Burden type output with hour by hour traffic volume information.

<sup>29</sup> BAAQMD. *Recommended Methods for Screening and Modeling Local Risks and Hazards*. May 2012

### *Computed Cancer and Non-Cancer Health Impacts*

The cancer risk, PM<sub>2.5</sub> concentration, and HI impacts from each roadway on the off-site MEIs are shown in Table 6. Figure 2 shows the roadway links modeled and receptor locations where concentrations were calculated. Details of the emission calculations, dispersion modeling, and cancer risk calculations for the receptors with the maximum cancer risk from traffic on each roadway are provided in *Attachment 3*.

### BAAQMD Permitted Stationary Sources

Permitted stationary sources of air pollution near the project site were identified using BAAQMD's *Permitted Stationary Sources 2021* GIS website,<sup>30</sup> which identifies the location of nearby stationary sources and their estimated risk and hazard impacts, based on emissions and adjustments to account for OEHHA's risk guidance. There were no identified sources within the project's 1,000-foot influence area.

### **Conclusion**

Table 6 reports both the project and cumulative health risk impacts at the sensitive receptors most affected by the project (i.e., the MEI). The project would not have a significant project-level impact or a cumulative impact with respect to health risk to sensitive receptors caused by project construction and operational TACs since none of the risk values exceed their respective BAAQMD single-source or cumulative-source thresholds. Additional measures under HEU SEIR Mitigation Measure AQ-3 (namely, the measures in AQ-2c) are not necessary because the project does not have health risk impacts that exceed significance thresholds. Compared to the environmental effects related to TAC emissions analyzed in the ConnectMenlo EIR and HEU SEIR, the project has none of the following: (1) peculiar effects, (2) effects not analyzed as significant in the analysis on the General Plan as updated by the HEU, (3) new potentially significant off-site impacts or cumulative impacts, or (4) more severe adverse impacts than discussed in the ConnectMenlo EIR as updated by the HEU SEIR.

---

<sup>30</sup> BAAQMD, *Stationary Source Screening Map*, 2023. Web: <https://baaqmd.maps.arcgis.com/apps/webappviewer/index.html?id=845658c19eae4594b9f4b805fb9d89a3>

**Table 6. Cumulative Health Risk Impacts at the Project MEIs**

Source		Cancer Risk <sup>1</sup> (per million)	Annual PM <sub>2.5</sub> <sup>1</sup> (µg/m <sup>3</sup> )	Hazard Index
<b>Project Impacts</b>				
Project Construction	Unmitigated	7.70 (infant)	0.07	<0.01
<b>BAAQMD Single-Source Threshold</b>		<b>10</b>	<b>0.3</b>	<b>1.0</b>
<b>Exceed Threshold?</b>	Unmitigated	<i>No</i>	<i>No</i>	<i>No</i>
<b>Cumulative Impacts</b>				
Highway 101, ADT 175,099		5.91	0.19	<0.01
Marsh Road, ADT 45,451		0.26	0.02	<0.01
<i>Combined Sources</i>	Unmitigated	13.87	0.28	<0.03
<b>BAAQMD Cumulative Source Threshold</b>		<b>100</b>	<b>0.8</b>	<b>10.0</b>
<b>Exceed Threshold?</b>	Unmitigated	<i>No</i>	<i>No</i>	<i>No</i>

Note: <sup>1</sup> Maximum cancer risk and PM<sub>2.5</sub> concentration occur at different receptors.

**Impact AIR-4: Create objectionable odors affecting a substantial number of people?**

The ConnectMenlo EIR and HEU SEIR analyzed odors and found the project to be less than significant without mitigation.

Project construction activities could result in odorous emissions from diesel exhaust associated with construction equipment. Because of the temporary nature of these emissions and the highly diffusive properties of diesel exhaust, these odor emissions would not adversely affect a substantial number of people. Operationally, the project would not emit noticeably odorous emissions.

**Conclusion**

Compared to the environmental effects related to odors analyzed in the ConnectMenlo EIR and HEU SEIR, the project has none of the following: (1) peculiar effects, (2) effects not analyzed as significant in the analysis on the General Plan as updated by the HEU, (3) new potentially significant off-site impacts or cumulative impacts, or (4) more severe adverse impacts than discussed in the ConnectMenlo EIR as updated by the HEU SEIR.

**Non-CEQA: On-site Health Risk Assessment for TAC Sources - New Project Sensitive Residences**

Although not required by CEQA, the ConnectMenlo EIR and HEU SEIR analyzed impacts of the environment on new sensitive receptors, which resulted in Mitigation Measure AQ-3 (modifying ConnectMenlo EIR Mitigation Measure AQ-3b), which states in relevant part: “Applicants for residential and other sensitive land use projects (e.g., hospitals, nursing homes, day care centers) in Menlo Park within 1,000 feet of a major sources of toxic air contaminants (TACs) (e.g., warehouses, industrial areas, freeways, and roadways with traffic volumes over 10,000 vehicle per day), as measured from the property line of the project to the property line of the source/edge of the nearest travel lane, shall submit a health risk assessment (HRA) to the City of Menlo Park prior to future discretionary Project approval” that analyzes impacts on the project.

Accordingly, a health risk assessment was completed to assess the effects that the existing TAC sources would have on the new proposed sensitive receptors (i.e., residents) introduced by the project. The same TAC sources identified above were used in this assessment. BAAQMD's recommended thresholds for health risks and hazards, shown in Table 1, are used to evaluate on-site exposure. Figure 3 shows the on-site sensitive receptors in relation to the nearby TAC sources. Results are listed in Table 7. *Attachment 3* includes the dispersion modeling and risk calculations for TAC source impacts upon the proposed on-site sensitive receptors.

### Highways and Local Roadways – Highway 101 & Marsh Road

The analysis of the effects from highway and roadway TACs on project residents was conducted in the same manner as described above for the off-site MEIs. However, the year 2027 (operational year) emission factors were assumed as being representative of all future conditions, which is a conservative assumption because it does not account for regulations that will be phased in that would reduce vehicle emissions. An analysis based on 2027 resulted in an increased ADT on Highway 101 of 180,199 vehicles and 46,801 vehicles on Marsh Road. On-site receptors were placed throughout the project site with a spacing of 7 meters (23 feet). Roadway impacts were modeled at receptor heights of 16 feet (4.9 meters) and 30 feet (9.1 meters) representing sensitive receptors on the second and third floors (first and second residential floors) of the proposed building. The portion of the roadways included in the modeling is shown in Figure 3 along with the project site and receptor locations where impacts were modeled.

Maximum increased cancer risks were calculated for the residents at the project site using the maximum modeled TAC concentrations. A 30-year exposure period was used in calculating cancer risks assuming the residents would include infants and adults were assumed to be in the new apartments for 24 hours per day for 350 days per year. The highest combined impacts from Highway 101 and Marsh Road occurred at a receptor on the second floor at the southern corner of the multi-family building. Cancer risks associated with the roadways are greatest closest to the roadways and decrease with distance from the roads. The roadway impacts at the project site are shown in Table 7. Details of the emission calculations, dispersion modeling, and cancer risk calculations are contained in *Attachment 3*.

### Stationary Sources

As mentioned above, there are no nearby stationary sources within 1,000 feet of the project site.

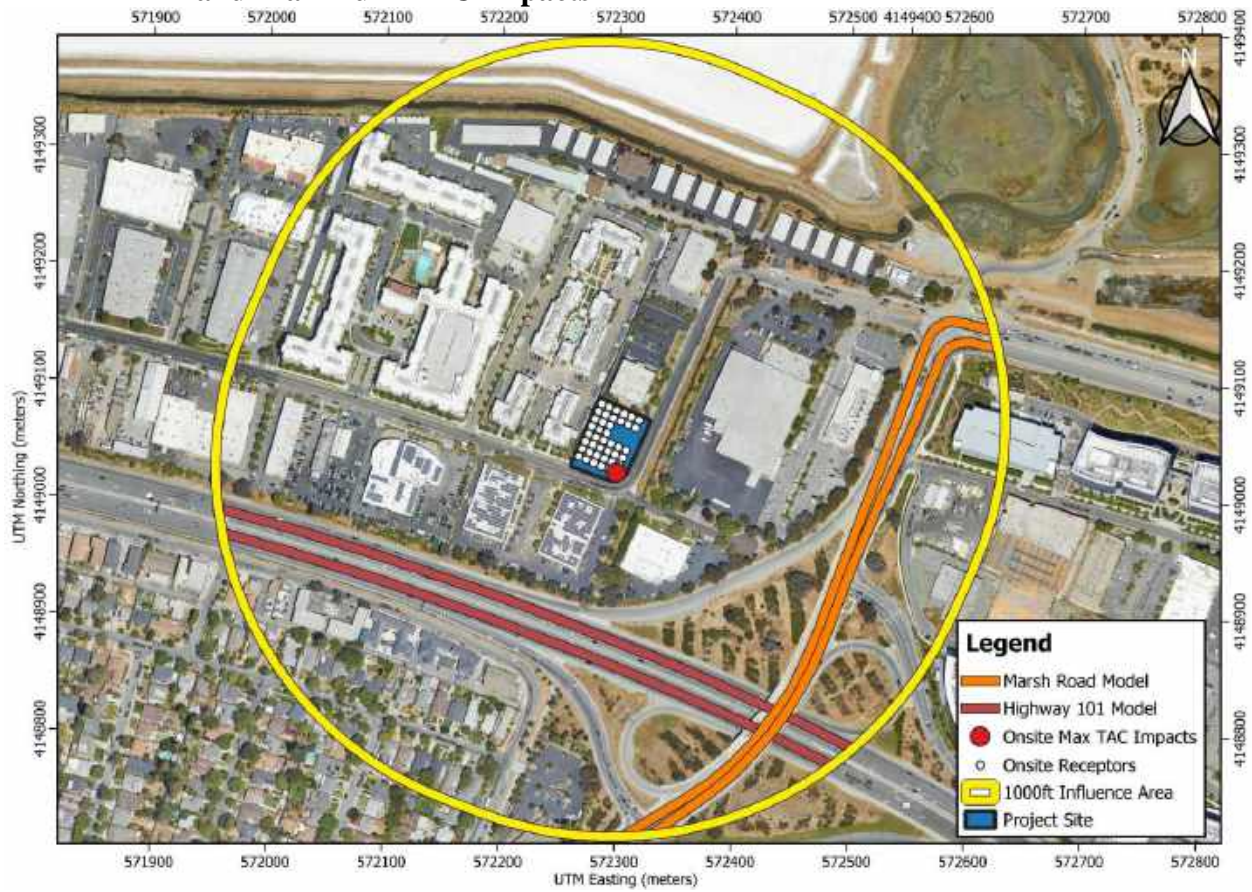
### Non-CEQA Analysis

Health risk effects from the existing and TAC sources upon the project are reported in Table 7. The risks from the singular TAC sources are compared against the BAAQMD single-source threshold. The risks from all the sources are then combined and compared against the BAAQMD cumulative-source threshold. As shown, the BAAQMD single-source and cumulative-source thresholds are not exceeded at the onsite MEI from environmental TAC sources.

**Table 7. Impacts from Combined Sources to Project Site Receptors**

Source	Cancer Risk (per million)	Annual PM <sub>2.5</sub> (µg/m <sup>3</sup> )	Hazard Index
Highway 101, ADT 180,199	6.79	0.21	<0.01
Marsh Road, ADT 46,801	0.32	0.03	<0.01
<b>BAAQMD Single-Source Threshold</b>	<b>10</b>	<b>0.3</b>	<b>1.0</b>
Exceed Threshold?	No	No	No
Cumulative Total	7.11	0.24	<0.02
<b>BAAQMD Cumulative Source Threshold</b>	<b>100</b>	<b>0.8</b>	<b>10.0</b>
Exceed Threshold?	No	No	No

**Figure 3. Locations of Project Site, On-Site Residential Receptors, Roadway Models, and Maximum TAC Impacts**



## GREENHOUSE GAS EMISSIONS

### Setting

Gases that trap heat in the atmosphere, GHGs, regulate the earth's temperature. This phenomenon, known as the greenhouse effect, is responsible for maintaining a habitable climate. The most common GHGs are carbon dioxide (CO<sub>2</sub>) and water vapor but there are also several others, most importantly methane (CH<sub>4</sub>), nitrous oxide (N<sub>2</sub>O), hydrofluorocarbons (HFCs), perfluorocarbons (PFCs), and sulfur hexafluoride (SF<sub>6</sub>). These are released into the earth's atmosphere through a variety of natural processes and human activities. Sources of GHGs are generally as follows:

- CO<sub>2</sub>, CH<sub>4</sub>, and N<sub>2</sub>O are byproducts of fossil fuel combustion.
- N<sub>2</sub>O is associated with agricultural operations such as fertilization of crops.
- CH<sub>4</sub> is commonly created by off-gassing from agricultural practices (e.g., keeping livestock) and landfill operations.
- Chlorofluorocarbons (CFCs) were widely used as refrigerants, propellants, and cleaning solvents but their production has been stopped by international treaty.
- HFCs are now used as a substitute for CFCs in refrigeration and cooling.
- PFCs and sulfur hexafluoride emissions are commonly created by industries such as aluminum production and semi-conductor manufacturing.

Each GHG has its own potency and effect upon the earth's energy balance. This is expressed in terms of a global warming potential (GWP), with CO<sub>2</sub> being assigned a value of 1 and sulfur hexafluoride being several orders of magnitude stronger. In GHG emission inventories, the weight of each gas is multiplied by its GWP and is measured in units of CO<sub>2</sub> equivalents (CO<sub>2</sub>e).

An expanding body of scientific research supports the theory that global climate change is currently affecting changes in weather patterns, average sea level, ocean acidification, chemical reaction rates, and precipitation rates, and that it will increasingly do so in the future. The climate and several naturally occurring resources within California are adversely affected by the global warming trend. Increased precipitation and sea level rise will increase coastal flooding, saltwater intrusion, and degradation of wetlands. Mass migration and/or loss of plant and animal species could also occur. Potential effects of global climate change that could adversely affect human health include more extreme heat waves and heat-related stress; an increase in climate-sensitive diseases; more frequent and intense natural disasters such as flooding, hurricanes and drought; and increased levels of air pollution.

### Federal and Statewide GHG Emissions

The U.S. EPA reported that in 2022, total gross nationwide GHG emissions were 5,215.6 million metric tons (MMT) carbon dioxide equivalent (CO<sub>2</sub>e).<sup>31</sup> These emissions were lower than peak levels of 7,416 MMT that were emitted in 2007. CARB updates the statewide GHG emission

---

<sup>31</sup> United States Environmental Protection Agency, 2022. *Draft Inventory of U.S. Greenhouse Gas Emissions and Sinks 1990-2020*. February. Web: <https://www.epa.gov/ghgemissions/inventory-us-greenhouse-gas-emissions-and-sinks>



inventory on an annual basis where the latest inventory includes 2000 through 2020 emissions.<sup>32</sup> In 2020, GHG emissions from statewide emitting activities were 369.2 MMT CO<sub>2</sub>e. The 2020 emissions have decreased by 25 percent since peak levels in 2004 and are 35.3 MMT CO<sub>2</sub>e lower than 2019 emissions level and almost 62 MMT CO<sub>2</sub>e below the State's 2020 GHG limit of 431 MMT CO<sub>2</sub>e. Per capita GHG emissions in California have dropped from a 2001 peak of 13.8 MT CO<sub>2</sub>e per person to 9.7 MT CO<sub>2</sub>e per person in 2021.

### Recent Regulatory Actions for GHG Emissions

#### *Executive Order S-3-05 – California GHG Reduction Targets*

Executive Order (EO) S-3-05 was signed by Governor Arnold Schwarzenegger in 2005 to set GHG emission reduction targets for California. The three targets established by this EO are as follows: (1) reduce California's GHG emissions to 2000 levels by 2010, (2) reduce California's GHG emissions to 1990 levels by 2020, and (3) reduce California's GHG emissions by 80 percent below 1990 levels by 2050.

#### *Assembly Bill 32 – California Global Warming Solutions Act (2006)*

Assembly Bill (AB) 32, the Global Warming Solutions Act of 2006, codified the State's GHG emissions target by directing CARB to reduce the State's global warming emissions to 1990 levels by 2020. AB 32 was signed and passed into law by Governor Schwarzenegger on September 27, 2006. Since that time, the CARB, CEC, California Public Utilities Commission (CPUC), and Building Standards Commission have all been developing regulations that will help meet the goals of AB 32 and Executive Order S-3-05, which has a target of reducing GHG emissions 85 percent below 1990 levels.

The first Scoping Plan for AB 32 was adopted by CARB in December 2008. Its most recent update was completed in December of 2022<sup>33</sup>. It contains the State's main strategies to achieve carbon neutrality by 2045. This plan extends and expands upon the earlier versions with a target of reducing anthropogenic emissions to 85 percent below 1990 levels by 2045. It also takes the step of adding carbon neutrality as a science-based guide and touchstone for California's climate work. Measures to achieve carbon neutrality include rapidly moving to zero emission vehicles (ZEV), removing natural gas as an option for space conditioning, increasing the number of solar arrays and wind turbines, and scaling up renewable hydrogen for hard-to-electrify end uses.

#### *Senate Bill 375 – California's Regional Transportation and Land Use Planning Efforts (2008)*

California enacted legislation (SB 375) to expand the efforts of AB 32 by controlling indirect GHG emissions caused by urban sprawl. SB 375 provides incentives for local governments and applicants to implement new conscientiously planned growth patterns. This includes incentives for creating attractive, walkable, and sustainable communities and revitalizing existing communities.

---

<sup>32</sup> CARB. 2022. *California Greenhouse Gas Emission for 2000 to 2020*. Web: [https://ww2.arb.ca.gov/sites/default/files/classic/cc/inventory/2000-2020\\_ghg\\_inventory\\_trends.pdf](https://ww2.arb.ca.gov/sites/default/files/classic/cc/inventory/2000-2020_ghg_inventory_trends.pdf)

<sup>33</sup> CARB. 2022. *Final 2022 Scoping Plan Update and Appendices*. Web: <https://ww2.arb.ca.gov/our-work/programs/ab-32-climate-change-scoping-plan/2022-scoping-plan-documents>



The legislation also allows applicants to bypass certain environmental reviews under CEQA if they build projects consistent with the new sustainable community strategies. Development of more alternative transportation options that would reduce vehicle trips and miles traveled, along with traffic congestion, would be encouraged. SB 375 enhances CARB's ability to reach the AB 32 goals by directing the agency in developing regional GHG emission reduction targets to be achieved from the transportation sector for 2020 and 2035. CARB works with the metropolitan planning organizations (e.g. Association of Bay Area Governments [ABAG] and Metropolitan Transportation Commission [MTC]) to align their regional transportation, housing, and land use plans to reduce vehicle miles traveled and demonstrate the region's ability to attain its GHG reduction targets. A similar process is used to reduce transportation emissions of ozone precursor pollutants in the Bay Area.

#### *Senate Bill 350 - Renewable Portfolio Standards*

In September 2015, the California Legislature passed SB 350, which increases the states Renewables Portfolio Standard (RPS) for content of electrical generation from the 33 percent target for 2020 to a 50 percent renewables target by 2030.

#### *Executive Order B-30-15 & Senate Bill 32 GHG Reduction Targets – 2030 GHG Reduction Target*

In April 2015, Governor Brown signed EO B-30-15, which extended the goals of AB 32, setting a GHG emissions target at 40 percent of 1990 levels by 2030. On September 8, 2016, Governor Brown signed Senate Bill (SB) 32, which legislatively established the GHG reduction target of 40 percent of 1990 levels by 2030. In November 2017, CARB issued *California's 2017 Climate Change Scoping Plan*.<sup>34</sup> While the State is on track to exceed the AB 32 scoping plan 2020 targets, this plan is an update to reflect the enacted SB 32 reduction target.

SB 32 was passed in 2016, which codified a 2030 GHG emissions reduction target of 40 percent below 1990 levels. CARB has drafted a 2022 Scoping Plan Update to reflect the 2030 target set by Executive Order B-30-15 and codified by SB 32. The 2022 draft plan:

- Identifies a path to keep California on track to meet its SB 32 GHG reduction target of at least 40 percent below 1990 emissions by 2030.
- Identifies a technologically feasible, cost-effective path to achieve carbon neutrality by 2045 or earlier.
- Focuses on strategies for reducing California's dependency on petroleum to provide consumers with clean energy options that address climate change, improve air quality, and support economic growth and clean sector jobs.
- Integrates equity and protecting California's most impacted communities as a driving principle.
- Incorporates the contribution of natural and working lands to the state's GHG emissions, as well as its role in achieving carbon neutrality.
- Relies on the most up to date science, including the need to deploy all viable tools,

---

<sup>34</sup> California Air Resource Board, 2017. *California's 2017 Climate Change Scoping Plan: The Strategy for Achieving California's 2030 Greenhouse Gas Targets*. November. Web: [https://ww2.arb.ca.gov/sites/default/files/classic/cc/scopingplan/scoping\\_plan\\_2017.pdf](https://ww2.arb.ca.gov/sites/default/files/classic/cc/scopingplan/scoping_plan_2017.pdf)

including carbon capture and sequestration as well a direct air capture.

- Evaluates multiple options for achieving our GHG and carbon neutrality targets, as well as the public health benefits and economic impacts associated with each.

The Scoping Plan was updated in 2022 and lays out how the state can get to carbon neutrality by 2045 or earlier. It is the first Scoping Plan that adds carbon neutrality as a science-based guide and touchstone beyond statutorily established emission reduction targets.<sup>35</sup>

The mid-term 2030 target is considered critical by CARB on the path to obtaining an even deeper GHG emissions target of 80 percent below 1990 levels by 2050, as directed in Executive Order S-3-05. The 2022 Scoping Plan outlines the suite of policy measures, regulations, planning efforts, and investments in clean technologies and infrastructure, providing a blueprint to continue driving down GHG emissions and to not only obtain the statewide goals, but cost-effectively achieve carbon-neutrality by 2045 or earlier. In the 2022 Scoping Plan, CARB recommends:

- VMT per capita reduced 12% below 2019 levels by 2030 and 22% below 2019 levels by 2045.
- 100% of Light-duty vehicle sales are zero emissions vehicles (ZEV) by 2035.
- 100% of medium duty/heavy duty vehicle sales are ZEV by 2040.
- 100% of passenger and other locomotive sales are ZEV by 2030.
- 100% of line haul locomotive sales are ZEV by 2035.
- All electric appliances in new residential and commercial building beginning 2026 (residential) and 2029 (commercial).
- 80% of residential appliance sales are electric by 2030 and 100% of residential appliance sales are electric by 2035.
- 80% of commercial appliance sales are electric by 2030 and 100% of commercial appliance sales are electric by 2045.

### *SB 743 Transportation Impacts*

Senate Bill 743 required lead agencies to abandon the old “level of service” metric for evaluating a project’s transportation impacts, which was based solely on the amount of delay experienced by motor vehicles. In response, the Governor’s Office of Planning and Research (OPR) developed a VMT metric that considered other factors such as reducing GHG emissions and developing multimodal transportation<sup>36</sup>. A VMT-per-capita metric was adopted into the CEQA Guidelines Section 15064.3 in November 2017. Given current baseline per-capita VMT levels computed by CARB in the 2030 Scoping Plan of 22.24 miles per day for light-duty vehicles and 24.61 miles per day for all vehicle types, the reductions needed to achieve the 2050 climate goal are 16.8 percent for light-duty vehicles and 14.3 percent for all vehicle types combined. Based on this analysis (as well as other factors), OPR recommended using a 15-percent reduction in per capita VMT as an appropriate threshold of significance for evaluating transportation impacts.

---

<sup>35</sup> <https://ww2.arb.ca.gov/our-work/programs/ab-32-climate-change-scoping-plan/2022-scoping-plan-documents>

<sup>36</sup> Governor’s Office of Planning and Research. 2018. *Technical Advisory on Evaluating Transportation Impacts in CEQA*. December.

### *Executive Order B-55-18 – Carbon Neutrality*

In 2018, a new statewide goal was established to achieve carbon neutrality as soon as possible, but no later than 2045, and to maintain net negative emissions thereafter. CARB and other relevant state agencies are tasked with establishing sequestration targets and create policies/programs that would meet this goal.

### *Senate Bill 100 – Current Renewable Portfolio Standards*

In September 2018, SB 100 was signed by Governor Brown to revise California’s RPS program goals, furthering California’s focus on using renewable energy and carbon-free power sources for its energy needs. The bill would require all California utilities to supply a specific percentage of their retail sales from renewable resources by certain target years. By December 31, 2024, 44 percent of the retail sales would need to be from renewable energy sources, by December 31, 2026 the target would be 40 percent, by December 31, 2027 the target would be 52 percent, and by December 31, 2030 the target would be 60 percent. By December 31, 2045, all California utilities would be required to supply retail electricity that is 100 percent carbon-free and sourced from eligible renewable energy resource to all California end-use customers.

### *Senate Bill 1020 – Clean Energy, Jobs, and Affordability Act of 2022*

In 2022, the state revised updated its policy to provide renewable and carbon-free targets for the years between 2030 and 2045. Specifically, SB 1020 requires that eligible renewable energy resources and zero-carbon resources supply 90 percent of all retail sales of electricity to California end-use customers by December 31, 2035, 95 percent by December 31, 2040, and 100 percent by December 31, 2045. SB 1020 also requires that eligible renewable energy resources and zero-carbon resources supply 100 percent of electricity procured to serve all state agencies by December 31, 2035.

### *California Building Standards Code – Title 24 Part 11 & Part 6*

The California Green Building Standards Code (CALGreen Code) is part of the California Building Standards Code under Title 24, Part 11.<sup>37</sup> The CALGreen Code encourages sustainable construction standards that involve planning/design, energy efficiency, water efficiency resource efficiency, and environmental quality. These green building standard codes are mandatory statewide and are applicable to residential and non-residential developments. The most recent CALGreen Code (2022 California Building Standard Code) was effective as of January 1, 2023.

The California Building Energy Efficiency Standards (California Energy Code) is under Title 24, Part 6 and is overseen by the California Energy Commission (CEC). This code includes design requirements to conserve energy in new residential and non-residential developments, while being cost effective for homeowners. This Energy Code is enforced and verified by cities during the planning and building permit process. The current energy efficiency standards (2022 Energy Code) replaced the 2019 Energy Code as of January 1, 2023. Under the 2019 standards, single-family

---

<sup>37</sup> See: <https://www.dgs.ca.gov/BSC/Resources/Page-Content/Building-Standards-Commission-Resources-List-Folder/CALGreen#:~:text=CALGreen%20is%20the%20first%2Din,to%201990%20levels%20by%202020>.

homes are predicted to be 53 percent more efficient than homes built under the 2016 standard due to more stringent energy-efficiency standards and mandatory installation of solar photovoltaic systems. For nonresidential developments, it is predicted that these buildings will use 30 percent less energy due to lightening upgrades.<sup>38</sup>

Requirements for electric vehicle (EV) charging infrastructure are set forth in Title 24 of the California Code of Regulations. The CALGreen standards consist of a set of mandatory standards required for new development, as well as two more voluntary standards known as Tier 1 and Tier 2. The CALGreen 2022 standards require deployment of additional EV chargers in various building types, including multi-family residential and nonresidential land uses. They include requirements for both EV capable parking spaces and the installation of Level 2 EV supply equipment for multi-family residential and nonresidential buildings. The 2022 CALGreen standards include requirements for both EV readiness, installation of EV chargers, and include both mandatory requirements and more aggressive voluntary Tier 1 and Tier 2 provisions. Providing EV charging infrastructure that meets current CALGreen requirements will not be sufficient to power the anticipated more extensive level of EV penetration in the future that is needed to meet SB 30 climate goals.

CEC studies have identified the most aggressive electrification scenario as putting the building sector on track to reach the carbon neutrality goal by 2045.<sup>39</sup> Installing new natural gas infrastructure in new buildings will interfere with this goal. To meet the State's goal, communities have been adopting "Reach" codes that prohibit natural gas connections in new and remodeled buildings.

### *Advanced Clean Cars*

The Advanced Clean Cars Program, originally adopted by CARB in 2012, was designed to bring together CARB's traditional passenger vehicle requirements to meet federal air quality standards and also support California's AB 32 goals to develop and implement programs to reduce GHG emissions back down to 1990 levels by 2020, a goal achieved in 2016 as a result of numerous emissions reduction programs.

*Advanced Clean Cars II (ACC II)* is phase two of the original rule. ACC II establishes a year-by-year process, starting in 2026, so all new cars and light trucks sold in California will be zero-emission vehicles by 2035, including plug-in hybrid electric vehicles. The regulation codifies the light-duty vehicle goals set out in Governor Newsom's Executive Order N-79-20. Currently, 16 percent of new light-duty vehicles sold in California are zero emissions or plug-in hybrids. By 2030, 68 percent of new vehicles sold in California would be zero emissions and 100 percent by 2035.

Since this regulation was recently adopted, the air pollutant and GHG emissions computed in this assessment do not reflect the emissions reductions. Future updates to the State's mobile emission factor model, EMFAC, will include these effects.

---

<sup>38</sup> See: [https://www.energy.ca.gov/sites/default/files/2020-03/Title\\_24\\_2019\\_Building\\_Standards\\_FAQ\\_ada.pdf](https://www.energy.ca.gov/sites/default/files/2020-03/Title_24_2019_Building_Standards_FAQ_ada.pdf)

<sup>39</sup> California Energy Commission. 2021. *Final Commission Report: California Building Decarbonization Assessment*. Publication Number CEC-400-2021-006-CMF. August

## City of Menlo Park General Plan

The City of Menlo Park General Plan includes policies and programs to reduce exposure of the City's sensitive population to exposure of air pollution, TACs, and GHG emissions. The following policies and programs are applicable to the proposed project:

### *Applicable Programs – Land Use Element*

Program LU-7E      **Greenhouse Gas Emissions.** Develop a Greenhouse Gas (GHG) standard for development projects that would help reduce communitywide GHG emissions to meet City and Statewide reduction goals.

### Circulation Element

Goal CIRC-3      Increase mobility options to reduce traffic congestion, greenhouse gas emissions, and commute travel time.

Goal CIRC-4      Improve Menlo Park's overall health, wellness, and quality of life through transportation enhancements.

### *Applicable Policies – Circulation Element*

Policy CIRC-3.1      Support development and transportation improvements that help reduce per service population (or other efficiency metric) VMT [vehicle miles traveled].

Policy CIRC-4.1      Encourage the safer and more widespread use of nearly zero-emission modes, such as walking and biking, and lower emission modes like transit, to reduce GHG emissions.

Policy CIRC-4.2      Promote non-motorized transportation to reduce exposure to local air pollution, thereby reducing risks of respiratory diseases, other chronic illnesses, and premature death.

### Open Space/Conservation Element

Goal OSC-4      Promote sustainability and climate action planning. Promote a sustainable energy supply and implement the City's Climate Action Plan to reduce greenhouse gas emissions and improve the sustainability of actions by City government, residents, and businesses in Menlo Park. This includes promoting land use patterns that reduce the number and length of motor vehicle trips, and encouraging recycling, reduction and reuse programs.

Goal OSC-5      Ensure healthy air and water quality. Enhance and preserve air quality in accord with State and regional standards, and encourage the coordination of

total water quality management including both supply and wastewater treatment.

*Applicable Policies – Open Space/Conservation Element*

- Policy OSC-4.1      **Sustainable Approach to Land Use Planning to Reduce Resource Consumption.** Encourage, to the extent feasible, (1) a balance and match between jobs and housing, (2) higher density residential and mixed-use development to be located adjacent to commercial centers and transit corridors, and (3) retail and office areas to be located within walking and biking distance of transit or existing and proposed residential developments.
- Policy OSC-4.2      **Sustainable Building.** Promote and/or establish environmentally sustainable building practices or standards in new development that would conserve water and energy, prevent stormwater pollution, reduce landfilled waste, and reduce fossil fuel consumption from transportation and energy activities.
- Policy OSC-4.3      **Renewable Energy.** Promote the installation of renewable energy technology, such as, on residences and businesses through education, social marketing methods, establishing standards and/or providing incentives.
- Policy OSC-4.4      **Vehicles Using Alternative Fuel.** Explore the potential for installing infrastructure for vehicles that use alternative fuel, such as electric plug in recharging stations.
- Policy OSC-4.5      **Energy Standards in Residential and Commercial Construction.** Encourage projects to achieve a high level of energy conservation exceeding standards set forth in the California Energy Code for Residential and Commercial development.
- Policy OSC-4.6      **Waste Reduction Target.** Strive to meet the California State Integrated Waste Management Board per person target of waste generation per person per day through their source reduction, reuse, and recycling programs.
- Policy OSC-4.7      **Waste Management Collaboration.** Continue to support and participate in efforts such as the South Bayside Waste Management Authority, which provides waste reduction, recycling, and solid waste programs and solutions.
- Policy OSC-4.8      **Waste Diversion.** Develop and implement a zero waste policy, or implement standards, incentives, or other programs that would lead the community towards a zero waste goal.
- Policy OSC-4.9      **Climate Action Planning.** Undertake annual review and updates, as needed, to the City’s Climate Action Plan (CAP).

Policy OSC-4.10      **Energy Upgrade California.** Consider actively marketing and providing additional incentives for residents and businesses

Policy OSC-5.3      **Water Conservation.** Encourage water-conserving practices in businesses, homes and institutions.

### City of Menlo Park 2030 Climate Action Plan

The City of Menlo Park adopted the 2030 Climate Action Plan (CAP) on July 2020 and amended it on April 20,2021.<sup>40</sup> The CAP aims to reduce emissions 90% by 2030 relative to 2005 levels. The City has a goal of being a zero carbon city by 2030.

### ConnectMenlo Environmental Impact Report (EIR) and City of Menlo Park Housing Element Update (HEU) Draft Subsequent Environmental Impact Report (SEIR)

As described above, in January 2023, the City of Menlo Park certified the HEU SEIR, which updates and supplements the analysis in the ConnectMenlo EIR<sup>41</sup>. The HEU amends the City’s General Plan to provide goals, policies, and implementing programs to address housing needs citywide.

The ConnectMenlo EIR determined implementation of ConnectMenlo would result in a substantial increase in GHG emissions by the horizon year of 2040 and would not achieve the 2040 efficiency target, pursuant to EO S-03-05, resulting in a significant and unavoidable impact even with mitigation incorporated. The HEU SEIR disclosed that the HEU would comply with two of the four BAAQMD thresholds for impacts that are less than significant (i.e., all development under the HEU would not result in any wasteful, inefficient, or unnecessary energy usage and would result in VMT that is 15 percent below the citywide average). The HEU SEIR also disclosed that since the City’s Reach Code allows exceptions to the no natural gas standard and could not ensure compliance with Tier 2 CALGreen requirements for EV infrastructure, the implementation of the HEU could result in a significant GHG impact. With the implementation of HEU SEIR Mitigation Measures GHG-1a and GHG-1b, the HEU SEIR concluded that GHG impacts associated with future development would be reduced to less than significant.

The HEU SEIR identified the following greenhouse gas impacts and mitigation measures:

**Impact GHG-1:**      Implementation of the HEU would not generate greenhouse gas emissions, either directly or indirectly, that would have a significant impact on the environment. (*Less than Significant Impact, with Mitigation*)

**Mitigation Measure GHG-1a: Enforce No Natural Gas Requirement.**  
Subsequent housing development projects proposed under the HEU shall

---

<sup>40</sup> City of Menlo Park Climate Action Plan, URL: <https://menlopark.gov/Government/Departments/City-Managers-Office/Sustainability/Climate-Action-Plan>

<sup>41</sup> City of Menlo Park, URL: <https://menlopark.gov/files/sharedassets/public/v/1/community-development/documents/projects/housing-element-update/menlo-park-housing-element-update-draft-seir.pdf>

not be eligible for exceptions for the “all electric” requirement in the City’s Reach Codes.

**Mitigation Measure GHG-1b: Enforce EV Charging Requirements in CALGreen Tier 2.** Subsequent housing development projects proposed under the HEU shall comply with EV charging requirements in the most recently adopted version of CALGreen Tier 2 at the time that a building permit application is filed.

**Impact GHG-2:** Implementation of the HEU would not conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of greenhouse gases. (*Less than Significant Impact, with Mitigation*)

**Mitigation: Implement Mitigation Measures GHG-1a and GHG-1b.**

#### BAAQMD GHG Significance Thresholds

As noted in the HEU SEIR, on April 20, 2022, BAAQMD adopted new project-level thresholds of significance for operational GHG emissions from land use projects for projects beginning the CEQA process. The current thresholds of significance are:

- A. Projects must include, at a minimum, the following project design elements:
  - a. Buildings
    - i. The project will not include natural gas appliances or natural gas plumbing (in both residential and non-residential development).
    - ii. The project will not result in any wasteful, inefficient, or unnecessary energy usage as determined by the analysis required under CEQA Section 21100(b)(3) and Section 15126.2(b) of the State CEQA Guidelines.
  - b. Transportation
    - i. Achieve a reduction in project-generated vehicle miles traveled (VMT) below the regional average consistent with the current version of the California Climate Change Scoping Plan (currently 15 percent) or meet a locally adopted Senate Bill 743 VMT target, reflecting the recommendations provided in the Governor’s Office of Planning and Research’s Technical Advisory on Evaluating Transportation Impacts in CEQA:
      - 1. Residential Projects: 15 percent (16.8 percent in Petaluma) below the existing VMT per capita
      - 2. Office Projects: 15 percent (16.8 percent in Petaluma) below the existing VMT per employee
      - 3. Retail Projects: no net increase in existing VMT
    - ii. Achieve compliance with off-street electric vehicle requirements in the most recently adopted version of CALGreen Tier 2.
- B. Be consistent with a local GHG reduction strategy that meets the criteria under State CEQA Guidelines Section 15183.5(b).



New land use projects are required to meet either section A or B from the above list, not both, to be considered less than significant. Although the City adopted a 2030 Climate Action Plan, that plan is not a “qualified” climate action plan, and therefore the HEU SEIR assessment uses the BAAQMD’s Option A threshold to evaluate whether the project would generate GHG emissions, either directly or indirectly, that may have a significant impact on the environment. This analysis follows the same approach for Impact GHG-1.

**Impact GHG-1:      Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?**

GHG emissions associated with development of the proposed project would occur over the short-term from construction activities, consisting primarily of emissions from equipment exhaust and worker and vendor trips. There would also be long-term operational emissions associated with vehicular traffic within the project vicinity, energy and water usage, and solid waste disposal. Emissions for the proposed project are discussed below. Additionally, the HEU SEIR included measures that would apply to the project:

Mitigation Measure GHG-1a would implement a natural gas ban via the City’s Reach Codes for new residential developments.

Mitigation Measure GHG-1b would enforce compliance with CALGreen Tier 2 EV charging requirements for new residential development.

CalEEMod Modeling

CalEEMod was used to predict GHG emissions from operation of the site assuming full build-out of the project. The project land use types and size and other project-specific information were input to the model, as described above within the construction period emissions. CalEEMod output is included in *Attachment 1*.

Construction GHG Emissions

GHG emissions associated with construction were computed at 321 MT of CO<sub>2</sub>e for the total construction period. These are the emissions from on-site operation of construction equipment, vendor and hauling truck trips, and worker trips. Neither the City nor BAAQMD have an adopted threshold of significance for construction-related GHG emissions, though the California Office of Planning and Research (OPR) recommends quantifying emissions and disclosing that GHG emissions would occur during construction, even in cases where BAAQMD does not.

Operational GHG Emissions

The CalEEMod model was used to estimate daily emissions associated with operation of the fully developed site under the proposed project. For informational purposes, annual GHG emissions resulting from operation of the proposed project in Table 8 are predicted to be 362 MT of CO<sub>2</sub>e in 2027.

**Table 8. Annual Project GHG Emissions (CO<sub>2</sub>e) in Metric Tons**

Source Category	Existing Use in 2024	2027 Proposed Project
Mobile	122	295
Area	<1	2
Energy Consumption	23	36
Water Usage	2	3
Solid Waste Generation	3	26
Refrigerants	<1	<1
Total (MT CO <sub>2</sub> e/year)	150	362
Net Total (MT CO <sub>2</sub> e/year)		212

For this impact to be considered less than significant, it must be consistent with a local GHG reduction strategy (Threshold B) or meet the minimum project design elements recommended by BAAQMD (Threshold A). As noted above, Threshold A is being applied to the analysis of this project. Threshold A requires the project:

1. Avoid construction of new natural gas connections for the residential building,
  - Conforms – The project will be all electric.
2. Avoid wasteful or inefficient use of electricity,
  - Conforms – The project would meet CALGreen Building Standards Code requirements that result in energy efficient buildings. The project also is located in a job-rich area, providing an opportunity to reduce inefficient fuel use, and is at a density supportive of transit, which is an energy efficient mode of transportation compared to cars. The project also responds to a need for housing and thus its energy use is necessary to meet the need.
3. Include electric vehicle charging infrastructure that meets current Building Code CALGreen Tier 2 compliance, and
  - Conforms – the project is intending to install 15 EVSE parking spots or more, as needed to meet the CALGreen Tier 2 EV charging requirements in effect at the time of building permit submission.
4. Reduce VMT per service population by 15 percent over regional average.
  - Conforms – The project would include and implement a TDM plan that would reduce vehicle trips by more than 35 percent. This TDM plan would provide at least a 27 percent reduction in VMT per capita to meet a 15 percent reduction from the regional average per capita VMT.<sup>42</sup>

Based on the above analysis, the project would not make a cumulatively considerable contribution to significant cumulative climate change impacts. Compared to the environmental effects related to GHG emissions analyzed in the ConnectMenlo EIR and HEU SEIR, the project has none of the following: (1) peculiar effects, (2) effects not analyzed as significant in the analysis on the General Plan as updated by the HEU, (3) new potentially significant off-site impacts or cumulative impacts,

<sup>42</sup> File: *Haven Ave Residential TIA\_Traffic Volumes\_VMT (5-2-24).xlsx*

or (4) more severe adverse impacts than discussed in the ConnectMenlo EIR as updated by the HEU SEIR.

**Impact GHG-2: Conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases?**

The ConnectMenlo EIR disclosed that development under ConnectMenlo would be consistent with Plan Bay Area 2040 and the City’s CAP (i.e., the 2015 CAP Update) and implement ConnectMenlo EIR Mitigation Measure GHG-1 that requires the City update its CAP prior to January 1, 2020 to address the GHG reduction goals and targets to comply with EO B-30-15 and EO S-03-05. Pursuant to ConnectMenlo EIR Mitigation Measure GHG-1, the City updated its CAP. The HEU SEIR concluded that with the implementation of HEU SEIR Mitigation Measures GHG-1a and GHG-1b, the HEU would not conflict with the CARB’s 2017 Scoping Plan, Plan Bay Area 2040, and the City’s CAP.

The project is consistent with ConnectMenlo and HEU and would comply with HEU Mitigation Measures GHG-1a and GHG-1b. Because the Scoping Plan and Plan Bay Area have been updated, and to show consistency with the CAP, a project-level consistency analysis is provided.

**Consistency with the 2022 Scoping Plan**

The 2022 Scoping Plan reflects the 2030 target of a 40 percent reduction below 1990 levels codified by SB 32, and the 2045 target of carbon neutrality established by EO B-55-18. Appendix D to the 2022 Scoping Plan recommends three potential ways for determining whether a local project would be in alignment with State climate goals.

First, Appendix D “strongly recommends” that local governments adopt a local CAP complies with CEQA requirements. Consistency with a locally adopted CAP would be evidence of consistency with State-wide goals to reduce GHG emissions. Table 10 contains the analysis of the project’s consistency with the City’s CAP, concluding that the project would be consistent. Accordingly, the project also would be in alignment with the Scoping Plan.

Second, CARB also identified residential and mixed-use project attributes that would “clearly” cause the project to be consistent with the State’s climate strategy (CARB 2022). Per the Scoping Plan, empirical evidence shows that residential development projects that are consistent with these project attributes to reduce GHG emissions will accommodate growth in a manner that aligns with the GHG and equity goals of SB 32. Additionally, consistency with the project attributes will ensure that projects are: (1) addressing the largest sources of their operational emissions, (2) are in alignment with the priority areas defined for Local Climate Action (see Table 9), and (3) are in alignment with the State’s climate goals. The attributes and the project’s consistency with them are in Table 9. As shown in Table 9, the project is consistent with most, but not all, of the project attributes identified by the 2022 Scoping Plan that would clearly cause a project to be consistent with State climate goals. According to the 2022 Scoping Plan, these attributes are a guide to determine residential projects that are clearly consistent with the State’s climate strategy for CEQA purposes and are not necessarily required. The Scoping Plan notes that even projects with some (but not all) of these attributes may well be consistent with the State’s climate strategy, though they will likely need to provide further evidence to demonstrate consistency. The project has

demonstrated such consistency by showing it is consistent with the City’s 2030 CAP and BAAQMD’s thresholds.

Third, Appendix D states that a project can show alignment with State climate goals by showing that it would meet a local air quality management agency’s adopted GHG threshold. As discussed above, the project is consistent with the BAAQMD’s GHG threshold.

**Table 9. Project Consistency with 2022 Scoping Plan Climate Change Guidance**

Project Attributes	Project Consistency
At least 20 percent of the units are affordable to lower-income residents <sup>a, b</sup>	<i>Potentially inconsistent.</i> The project proposes 112 residential units with 14 Below Market Rate (BMR) units consisting of 10 very low-income units and 4 moderate-income units. These 14 units comprise approximately 21 percent of the base units before accounting for the bonus provided by Density Bonus Law, but only 12.5 percent of the total units. Nevertheless, most of the BMR units would be for very-low rather than low-income households and the project has demonstrated consistency with the Scoping Plan by showing that it is consistent with the City’s 2030 CAP and BAAQMD’s GHG threshold.
Result in no net loss of existing affordable units	<i>Consistent.</i> The proposed project would include demolition of an existing commercial building. There are no affordable housing units currently within the project site and no affordable housing units would be lost as a result of the project.
Utilize existing infill sites that are surrounded by urban uses, and reuse or redevelop previously developed, underutilized land presently served by existing utilities and essential public services (e.g., transit, streets, water, sewer) <sup>c</sup>	<i>Consistent.</i> The project involves redevelopment of an existing urban, developed area. The project site is served by existing utilities, streets, bike lanes, water, sewer, and a bus stop with service by the Menlo Park Shuttle Service and the SamTrans bus service.
Include transit-supportive densities (minimum of 20 residential dwelling units/acre <sup>d</sup> ), or are in proximity to existing transit (within ½ mile), <sup>e</sup> or satisfy more detailed and stringent criteria specified in the region’s Sustainable Communities Strategy (SCS), for “SCS consistency” that would go further to reduce emissions	<i>Consistent.</i> The project site is within the Residential Mixed-Use Bonus (R-MU-B) zoning district which is subject to the requirements of the Menlo Park Municipal Code Chapter 16.45, R-MU Residential Mixed-Use District. The project proposes a density of 169.7 dwelling units per acre, which far exceeds 20 dwelling units per acre. Further, the project site is served by the Menlo Park Shuttle Service and the SamTrans bus service, which provide local and regional public transit within the project area.

**Table 9. Project Consistency with 2022 Scoping Plan Climate Change Guidance**

Project Attributes	Project Consistency
Do not result in the loss or conversion of the State’s natural and working lands	<i>Consistent.</i> The project involves redevelopment of an existing urban, developed area and implementation of project would not result in land use conversion that would reduce the State’s natural and working lands.
Use all electric appliances, without any natural gas connections, and would not use propane or other fossil fuels for space heating, water heating, or indoor cooking <sup>f,g</sup>	<i>Consistent.</i> The project consists of new development and would be all-electric, consistent with the Menlo Park Municipal Code.
Provide EV charging infrastructure at least in accordance with CALGreen Tier 2 standards <sup>h</sup>	<i>Consistent.</i> The project would provide EV charging in compliance with the Menlo Park Municipal Code and CALGreen Tier 2 requirements.
Relax parking requirements <sup>i</sup> by: <ul style="list-style-type: none"> <li>• Eliminating parking requirements or including maximum allowable parking ratios.</li> <li>• Providing residential parking supply at a ratio of &lt;1 parking space per unit.</li> <li>• Unbundling residential parking costs from costs to rent or lease.</li> </ul>	<i>Consistent.</i> The project provides unbundled parking at a ratio of less than one parking spot per unit.
<p><b>Source:</b> CARB 2022.</p> <p><b>Notes:</b> MMT CO<sub>2</sub>e = million metric tons of carbon dioxide equivalent.</p> <p><sup>a</sup> Newmark and Haas 2015.</p> <p><sup>b</sup> California Housing Partnership Corporation and TransForm 2014.</p> <p><sup>c</sup> California Government Code § 65041.1.</p> <p><sup>d</sup> Federal Transit Administration. 2014.</p> <p><sup>e</sup> Washington Department of Transportation. 2013.</p> <p><sup>f</sup> Energy and Environmental Economics. 2019.</p> <p><sup>g</sup> Energy and Environmental Economics. 2021.</p> <p><sup>h</sup> Cal. Code of Regs., tit. 24, Part 11.</p> <p><sup>i</sup> CAPCOA. 2021.</p>	

Plan Bay Area 2050

MTC and ABAG’s Plan Bay Area 2050 is a regional growth-management strategic plan that focuses on reducing GHG emissions associated with transportation, pursuant to SB 375. Plan Bay Area 2050 incorporates local land use projections and circulation networks as identified in city and county general plans and presents 35 strategies across the elements of housing, the economy, transportation and the environment. These strategies identify public policies and investments that can be implemented in the Bay Area at the city, county, regional, and/or state level over the next 30 years.

Typically, a project would be consistent with the Regional Transportation Plan (RTP)/SCS if the project does not exceed the underlying growth assumptions within the RTP/SCS. The project would provide a minor amount of growth, but is consistent with the bonus-level residential capacity permitted by the project site’s General Plan land use designation and zoning, after accounting for Density Bonus Law, and is within the housing units ABAG projected the City would need. As such, the project is within the population growth projections in the City and the ABAG region.

The project’s consistency with Plan Bay Area 2050 is demonstrated via the project’s land use characteristics and features that would reduce vehicular trips and VMT. The project site is designated as Mixed-Use Residential on the ConnectMenlo land use designation map and is within the City’s Residential Mixed-Use Bonus (R-MU-B) zoning district. The project proposes to develop 112 rental apartments, consistent with these designations and Density Bonus Law. Because the project would result in the development of uses and growth that are consistent with the City’s General Plan and zoning designations it is concluded to have been anticipated in the MTC and ABAG’s Plan Bay Area 2050 growth projections. In addition, according to the VMT analysis prepared for the project, the estimated per capita VMT for the project at buildout and with implementation of the proposed TDM Plan is estimated to be at least 15 percent less than the per capita VMT for the transportation analysis zone in which the project site is located. Therefore, the project would not exceed the regional (City) VMT per service population estimates and the project is anticipated to be consistent with Plan Bay Area 2050 strategies.

Based on the analysis above, the project would not conflict with the strategies of Plan Bay Area 2050.

### 2030 CAP

The City of Menlo Park 2030 CAP identifies a variety of actions, which will help the City make progress towards achieving the CAP goals with respect to conservation of energy, reducing GHG emissions associated with transportation, and adapting to sea level rise. Notably, the six actions detailed below were selected from over 76 actions included in the City’s prior Bold and Moderate Plans, because they offered the most benefit for reductions in GHG emissions per cost. The list of actions presented within the 2030 CAP are outlined in Table 10, along with analysis of the project’s consistency with them.

**Table 10. Project Consistency with the City of Menlo Park CAP**

CAP Actions	Project Consistency
Action 1: Explore policy/program options to convert 95 percent of existing buildings to all-electric by 2030.	<i>Not Applicable.</i> The project consists of new residential development and would be built all-electric consistent with the Menlo Park Municipal Code.
Action 2: Set citywide goal for increasing EVs and decreasing gasoline sales.	<i>Consistent.</i> The project would provide EV charging in compliance with the Menlo Park Municipal Code Section 12.18.050 and CALGreen Tier 2 requirements.

**Table 10. Project Consistency with the City of Menlo Park CAP**

CAP Actions	Project Consistency
Action 3: Expand access to EV charging for multi-family and commercial properties.	<i>Consistent.</i> The project would provide EV charging in compliance with the Menlo Park Municipal Code Section 12.18.050 and CALGreen Tier 2 requirements.
Action 4: Reduce VMT by 25 percent or an amount recommended by the Complete Streets Commission.	<p><i>Consistent.</i> The 25 percent VMT reduction goal is intended to be applied citywide, rather than as a mandate for each individual project to achieve a 25 percent reduction in VMT. This action is described in the CAP as being implemented with a two-pronged approach that includes encouraging higher density development, especially housing, near transit and making the city easier to navigate without a car by implementing the Transportation Master Plan.</p> <p>The project proposes higher density housing through bonus-level development, as permitted by the site’s zoning designation and Density Bonus Law. Transit services are available proximate to and within walking distance of the project site. The project also incorporates pedestrian and bicycle facilities to support non-motor vehicle mobility. The project also places housing in a job-rich area, which promotes the ability of workers to live near their jobs and reduce commute miles.</p> <p>The proposed project would implement a TDM Plan that would reduce the project-specific VMT per capita by 60 percent compared to the existing VMT per capita.</p>
Action 5: Eliminate the use of fossil fuels from municipal operations.	<i>Not Applicable.</i> Applies to City facilities. However, until all municipal operations have eliminated use of fossil fuels, the project’s water conservation measures would contribute to reduced fossil fuel consumption associated with operation of Menlo Park Municipal Water facilities.
Action 6: Develop a climate adaptation plan to protect the community from sea level rise and flooding.	<i>Not Applicable.</i> This action describes a City initiative. However, as part of this Action, the City has adopted a requirement that all new residential units in areas subject to sea level rise must be raised 2 feet above the 5-foot Federal Emergency Management Agency (FEMA) floodplain. The proposed project design is consistent with this requirement.
<b>Source:</b> City of Menlo Park. <i>2030 Climate Action Plan</i> . June 2020 (amended April 2021).	

For these reasons, the project would not conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of GHGs, including the 2022 Scoping Plan, Plan Bay Area 2050, and the 2030 CAP.

### **Conclusion GHG-2**

The project is consistent and would not interfere with plans adopted to reduce GHG emissions. Therefore, the project would make a less than cumulatively considerable contribution to significant cumulative climate change impacts. The project is consistent with the ConnectMenlo EIR, as modified by the HEU SEIR. Compared to the environmental effects related to GHG emissions analyzed in the ConnectMenlo EIR and HEU SEIR, the project has none of the following: (1) peculiar effects, (2) effects not analyzed as significant in the analysis on the General Plan as updated by the HEU, (3) new potentially significant off-site impacts or cumulative impacts, or (4) more severe adverse impacts than discussed in the ConnectMenlo EIR as updated by the HEU SEIR.



## **Supporting Documentation**

*Attachment 1* includes the CalEEMod output for project construction and operational criteria air pollutant emissions. Also included are any modeling assumptions.

*Attachment 2* is the health risk assessment. AERMOD dispersion modeling files for these assessments, which are quite voluminous, are available upon request and would be provided in digital format.

*Attachment 3* includes the cumulative health risk calculations, modeling results, and health risk calculations from sources affecting the MEI and on-site receptors.

## **Attachment 1: CalEEMod Modeling Inputs and Outputs**

## Air Quality/Noise Construction Information Data Request

**Project Name: 3705 Haven Ave**

**Complete ALL Portions in Yellow**

See Equipment Type TAB for type, horsepower and load factor

Project Size	112 Dwelling Units	0.66 total project acres disturbed
	117,781 s.f. residential	
	s.f. retail	
	s.f. office/commercial	
	s.f. other, specify:	
	35226 s.f. parking garage	99 spaces
	s.f. parking lot	spaces
Construction Days	Mon	Fri
Construction Hours	7:00am	6:00pm

Pile Driving? Y/N? NO

Project include on-site GENERATOR OR FIRE PUMP during project OPERATION

IF YES (if BOTH separate values) -->

Kilowatts/Horsepower: 40

Fuel Type:        Diesel       

Location in project (Plans Desired if Available): Roof. See "Draft MEP Equipment List" file for details

DO NOT MULTIPLY EQUIPMENT HOURS/DAY BY THE QUANTITY OF EQUIPMENT

Quantity	Description	HP	Load Factor	Hours/day	Total Work Days	Avg. Hours per day	HP Annual Hours	Comments
<b>Demolition</b>		Start Date: 10/01/2024		1/2/2023		Total phase:		14
End Date: 10/18/2024								
Overall Import/Export Volumes								
3	Concrete/Industrial Saws	81	0.73	8	14	8	19868	Demolition Volume
1	Excavators	158	0.38	8	14	8	6724	Square footage of buildings to be demolished
0	Rubber-Tired Dozers	247	0.4	0	0	0	0	(or total tons to be hauled)
1	Tractors/Loaders/Backhoes	97	0.37	8	14	8	4020	2 square feet or
Other Equipment?								
2000 Hauling volume (tons)								
Any pavement demolished and hauled? 1200tons								
<b>Site Preparation</b>		Start Date: 10/21/2024		Total phase:		34		
End Date: 12/06/2024								
1	Graders	187	0.41	8	34	8	20854	
0	Rubber Tired Dozers	247	0.4	0	0	0	0	
1	Tractors/Loaders/Backhoes	97	0.37	8	34	8	9762	
Other Equipment?								
<b>Grading / Excavation</b>		Start Date: 12/09/2024		Total phase:		15		
End Date: 01/03/2025								
Soil Hauling Volume								
1	Excavators	158	0.38	8	15	8	7205	Export volume = 2000 cubic yards?
1	Graders	187	0.41	8	5	2.666666667	3067	Import volume = 0 cubic yards?
	Rubber Tired Dozers	247	0.4	0	0	0	0	
	Concrete/Industrial Saws	81	0.73	0	0	0	0	
1	Tractors/Loaders/Backhoes	97	0.37	8	15	8	4307	
Other Equipment?								
<b>Trenching/Foundation</b>		Start Date: 01/06/2025		Total phase:		20		
End Date: 02/07/2025								
0	Tractor/Loader/Backhoe	97	0.37	0	0	0	0	
1	Excavators	158	0.38	8	2	0.8	961	
1	Forklift	100	0.38	8	15	6	4560	
<b>Building - Exterior</b>		Start Date: 02/07/2025		Total phase:		200		
End Date: 11/28/2025								
Cement Trucks Total Round-Trips - 500								
1	Cranes	231	0.29	4	200	4	53592	Electric? (Y/N) Yes Electric
1	Forklifts	89	0.2	4	200	4	14240	Liquid Propane (LPG)? (Y/N) LPG
1	Generator Sets	84	0.74	8	50	2	24864	Or temporary line power? (Y/N) Y after initial 50 days
0	Tractors/Loaders/Backhoes	97	0.37	0	0	0	0	
1	Welders	46	0.45	8	75	3	12420	
Other Equipment?								
<b>Building - Interior/Architectural Coating</b>		Start Date: 09/15/2025		Total phase:		215		
End Date: 07/31/2026								
1	Air Compressors	78	0.48	4	75	1.395348837	11232	
	Aerial Lift	62	0.31	0	0	0	0	
1	Forklifts	89	0.2	4	150	2.790697674	10680	
<b>Paving</b>		Start Date: 09/02/2026		Total phase:		15		
Start Date: 09/15/2026								
Asphalt? _130_ cubic yards or _15_ round trips?								
1	Cement and Mortar Mixers	9	0.56	8	10	5.333333333	403	
	Pavers	130	0.42	0	0	0	0	
	Paving Equipment	132	0.36	0	0	0	0	
1	Rollers	80	0.38	8	10	5.333333333	2432	
1	Tractors/Loaders/Backhoes	97	0.37	8	10	5.333333333	2871	
Other Equipment?								
<b>Additional Phases</b>		Start Date:		Total phase:				
Start Date:								
						#DIV/0!	0	
						#DIV/0!	0	
						#DIV/0!	0	
						#DIV/0!	0	
						#DIV/0!	0	

Equipment types listed in "Equipment Types" worksheet tab.  
 Equipment listed in this sheet is to provide an example of input.  
 It is assumed that water trucks would be used during grading.  
 Add or subtract phases and equipment, as appropriate.  
 Modify horsepower or load factor, as appropriate.

Complete one sheet for each project component

Construction Criteria Air Pollutants							
Unmitigated	ROG	NOX	PM10 Exhaust	PM2.5 Exhaust	PM2.5 Fugitive	CO2e	
Year	Tons					MT	
Construction Equipment							
2024	0.02	0.22	0.01	0.01	0.01	64	
2025	0.34	0.51	0.01	0.01	0.03	240	
2026	0.55	0.05	0.002	0.001	0.003	18	
	Total Construction Emissions						
Tons	0.92	0.77	0.02	0.02		322.00	
Pounds/Workdays	Average Daily Emissions					Workdays	
2024	0.57	6.60	0.23	0.21			66
2025	2.63	3.87	0.11	0.11			261
2026	6.00	0.49	0.02	0.02			185
Threshold - lbs/day	54.0	54.0	82.0	54.0			
	Total Construction Emissions						
Pounds	1833.84	1535.97	47.71	44.15		0.00	
Average	3.58	3.00	0.09	0.09		0.00	511.71
Threshold - lbs/day	54.0	54.0	82.0	54.0			

Operational Criteria Air Pollutants							
Unmitigated	ROG	NOX	Total PM10	Total PM2.5			
Year	Tons						
Total	0.76	0.11	0.32	0.08			
	Existing Use Emissions						
Total	0.10	0.06	0.13	0.03			
	Net Annual Operational Emissions						
Tons/year	0.66	0.05	0.19	0.05			
Threshold - Tons/year	10.0	10.0	15.0	10.0			
	Average Daily Emissions						
Pounds Per Day	3.59	0.28	1.04	0.26			
Threshold - lbs/day	54.0	54.0	82.0	54.0			

Category	CO2e			
	Project	Existing		
Mobile	294.79	121.60		
Area	1.91	0.15		
Energy	35.64	23.23		
Water	3.28	1.68		
Waste	25.89	3.01		
Refrig.	0.14	0.004		
TOTAL	361.65	149.67	0.00	0.00

Traffic Consultant Trip Gen					CalEEMod Default			
Land Use	Size	Daily Trips	New Trips	Weekday Trip Gen	Weekday	Sat	Sun	
Apartments Mid RiseDU	DU	112	508	331	2.96	5.44	4.91	4.09
TDM Reduction	35%		-178		Rev	2.67	2.22	
<b>Existing</b>								
General Office Building	ksf	10.355	112	112	10.82	9.74	2.21	0.7
					Rev	2.45	0.78	

Land Use (ITE Land Use Code)	Unit	Size	Weekday Daily	Weekday AM Peak Hour			Weekday PM Peak Hour		
				In	Out	Total	In	Out	Total
<b>Proposed Project</b>									
Mid-Rise Multifamily Housing (LU-221) (1)	DU	112	508	9	32	41	27	17	44
TDM Reduction (35%) (2)			-178	-3	-11	-14	-9	-6	-15
<b>Total Proposed Project Trips</b>			<b>331</b>	<b>6</b>	<b>21</b>	<b>27</b>	<b>18</b>	<b>11</b>	<b>29</b>
<b>Existing Project (Credits for Existing Land Use)</b>									
General Office Building (LU-710) (3)	KSF	10.355	112	-9	-2	-11	-6	-8	-14
<b>Net New Project Trips (Total Proposed Project Trips – Existing Trips at Project Site)</b>			<b>218</b>	<b>-3</b>	<b>19</b>	<b>16</b>	<b>12</b>	<b>3</b>	<b>15</b>
Notes: KSF- 1,000 Square Feet, DU - Dwelling Units;									
1) Source: ITE Trip Generation Manual, 11th Edition									
2) C/CAG TDM policy requires 35 % TDM reduction for large projects that generate more than 499 daily trips.									
3) Ingress and egress trips from the existing land use were collected at the site driveways on March 5th, 2024. Daily trips were estimated based on the ITE Trip Generation Manual.									

# 23-152 3705 Haven Avenue, Menlo Park T4i 2027 Detailed Report

## Table of Contents

### 1. Basic Project Information

1.1. Basic Project Information

1.2. Land Use Types

1.3. User-Selected Emission Reduction Measures by Emissions Sector

### 2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

2.2. Construction Emissions by Year, Unmitigated

2.3. Construction Emissions by Year, Mitigated

2.4. Operations Emissions Compared Against Thresholds

2.5. Operations Emissions by Sector, Unmitigated

2.6. Operations Emissions by Sector, Mitigated

### 3. Construction Emissions Details

3.1. Demolition (2024) - Unmitigated

3.2. Demolition (2024) - Mitigated

3.3. Site Preparation (2024) - Unmitigated

3.4. Site Preparation (2024) - Mitigated

3.5. Grading (2024) - Unmitigated

3.6. Grading (2024) - Mitigated

3.7. Grading (2025) - Unmitigated

3.8. Grading (2025) - Mitigated

3.9. Building Construction (2025) - Unmitigated

3.10. Building Construction (2025) - Mitigated

3.11. Paving (2026) - Unmitigated

3.12. Paving (2026) - Mitigated

3.13. Architectural Coating (2025) - Unmitigated

3.14. Architectural Coating (2025) - Mitigated

3.15. Architectural Coating (2026) - Unmitigated

3.16. Architectural Coating (2026) - Mitigated

3.17. Trenching (2025) - Unmitigated

3.18. Trenching (2025) - Mitigated

#### 4. Operations Emissions Details

#### 4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

4.1.2. Mitigated

#### 4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

4.2.2. Electricity Emissions By Land Use - Mitigated

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

4.2.4. Natural Gas Emissions By Land Use - Mitigated

#### 4.3. Area Emissions by Source

4.3.1. Unmitigated

4.3.2. Mitigated

#### 4.4. Water Emissions by Land Use

4.4.1. Unmitigated

4.4.2. Mitigated

#### 4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

4.5.2. Mitigated



#### 4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

4.6.2. Mitigated

#### 4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

4.7.2. Mitigated

#### 4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

4.8.2. Mitigated

#### 4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

4.9.2. Mitigated

#### 4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

4.10.5. Above and Belowground Carbon Accumulation by Land Use Type - Mitigated

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

## 5. Activity Data

5.1. Construction Schedule

5.2. Off-Road Equipment

5.2.1. Unmitigated

5.2.2. Mitigated

5.3. Construction Vehicles

5.3.1. Unmitigated

5.3.2. Mitigated

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

5.5. Architectural Coatings

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

5.6.2. Construction Earthmoving Control Strategies

5.7. Construction Paving

## 5.8. Construction Electricity Consumption and Emissions Factors

## 5.9. Operational Mobile Sources

### 5.9.1. Unmitigated

### 5.9.2. Mitigated

## 5.10. Operational Area Sources

### 5.10.1. Hearths

#### 5.10.1.1. Unmitigated

#### 5.10.1.2. Mitigated

### 5.10.2. Architectural Coatings

### 5.10.3. Landscape Equipment

### 5.10.4. Landscape Equipment - Mitigated

## 5.11. Operational Energy Consumption

### 5.11.1. Unmitigated

### 5.11.2. Mitigated

## 5.12. Operational Water and Wastewater Consumption

### 5.12.1. Unmitigated

### 5.12.2. Mitigated

5.13. Operational Waste Generation

5.13.1. Unmitigated

5.13.2. Mitigated

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

5.14.2. Mitigated

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

5.15.2. Mitigated

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

5.16.2. Process Boilers

5.17. User Defined

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

5.18.1.2. Mitigated

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

5.18.1.2. Mitigated

5.18.2. Sequestration

5.18.2.1. Unmitigated

5.18.2.2. Mitigated

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

6.2. Initial Climate Risk Scores

6.3. Adjusted Climate Risk Scores

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

7.2. Healthy Places Index Scores

7.3. Overall Health & Equity Scores

7.4. Health & Equity Measures

7.5. Evaluation Scorecard

## 7.6. Health & Equity Custom Measures

## 8. User Changes to Default Data

# 1. Basic Project Information

## 1.1. Basic Project Information

Data Field	Value
Project Name	23-152 3705 Haven Avenue, Menlo Park T4i 2027
Construction Start Date	10/1/2024
Operational Year	2027
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	4.20
Precipitation (days)	18.8
Location	3705 Haven Ave, Menlo Park, CA 94025, USA
County	San Mateo
City	Menlo Park
Air District	Bay Area AQMD
Air Basin	San Francisco Bay Area
TAZ	1209
EDFZ	1
Electric Utility	Peninsula Clean Energy
Gas Utility	Pacific Gas & Electric
App Version	2022.1.1.24

## 1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
------------------	------	------	-------------	-----------------------	------------------------	--------------------------------	------------	-------------

Apartments Mid Rise	112	Dwelling Unit	0.66	117,781	0.00	—	323	—
Unenclosed Parking with Elevator	99.0	Space	0.00	35,226	0.00	—	—	—

### 1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Construction	C-5	Use Advanced Engine Tiers

## 2. Emissions Summary

### 2.1. Construction Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Unmit.	7.89	4.91	0.15	1.17	1.32	0.14	0.28	0.42	2,660
Mit.	7.63	4.35	0.06	1.17	1.22	0.05	0.28	0.34	2,660
% Reduced	3%	11%	62%	—	7%	61%	—	20%	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Unmit.	7.89	13.9	0.28	4.35	4.63	0.26	0.79	1.05	5,742
Mit.	7.63	15.2	0.25	4.35	4.60	0.24	0.79	1.02	5,742
% Reduced	3%	-9%	10%	—	1%	10%	—	2%	—
Average Daily (Max)	—	—	—	—	—	—	—	—	—
Unmit.	3.04	2.77	0.08	0.61	0.70	0.08	0.15	0.22	1,448
Mit.	3.02	2.44	0.03	0.61	0.64	0.03	0.15	0.18	1,448
% Reduced	1%	12%	63%	—	7%	62%	—	21%	—
Annual (Max)	—	—	—	—	—	—	—	—	—



Unmit.	0.55	0.51	0.01	0.11	0.13	0.01	0.03	0.04	240
Mit.	0.55	0.45	0.01	0.11	0.12	0.01	0.03	0.03	240
% Reduced	1%	12%	63%	—	7%	62%	—	21%	—

## 2.2. Construction Emissions by Year, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—
2025	7.89	4.91	0.15	1.17	1.32	0.14	0.28	0.42	2,660
2026	7.31	1.79	0.06	0.16	0.17	0.06	0.04	0.08	554
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—
2024	0.95	13.9	0.28	4.35	4.63	0.26	0.79	1.05	5,742
2025	7.89	5.18	0.16	1.17	1.32	0.15	0.28	0.42	2,612
2026	7.31	0.48	0.02	0.16	0.17	0.02	0.04	0.05	232
Average Daily	—	—	—	—	—	—	—	—	—
2024	0.10	1.19	0.04	0.21	0.25	0.04	0.04	0.07	385
2025	1.88	2.77	0.08	0.61	0.70	0.08	0.15	0.22	1,448
2026	3.04	0.25	0.01	0.07	0.08	0.01	0.02	0.02	112
Annual	—	—	—	—	—	—	—	—	—
2024	0.02	0.22	0.01	0.04	0.05	0.01	0.01	0.01	63.8
2025	0.34	0.51	0.01	0.11	0.13	0.01	0.03	0.04	240
2026	0.55	0.05	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	18.5

## 2.3. Construction Emissions by Year, Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—
2025	7.63	4.35	0.06	1.17	1.22	0.05	0.28	0.34	2,660
2026	7.27	2.04	0.04	0.16	0.17	0.03	0.04	0.06	554
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—
2024	0.31	15.2	0.25	4.35	4.60	0.24	0.79	1.02	5,742
2025	7.63	4.65	0.06	1.17	1.22	0.05	0.28	0.34	2,612
2026	7.27	0.51	0.01	0.16	0.17	0.01	0.04	0.04	232
Average Daily	—	—	—	—	—	—	—	—	—
2024	0.03	1.13	0.01	0.21	0.22	0.01	0.04	0.05	385
2025	1.74	2.44	0.03	0.61	0.64	0.03	0.15	0.18	1,448
2026	3.02	0.27	< 0.005	0.07	0.07	< 0.005	0.02	0.02	112
Annual	—	—	—	—	—	—	—	—	—
2024	0.01	0.21	< 0.005	0.04	0.04	< 0.005	0.01	0.01	63.8
2025	0.32	0.45	0.01	0.11	0.12	0.01	0.03	0.03	240
2026	0.55	0.05	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	18.5

## 2.4. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Unmit.	4.62	0.60	0.02	1.83	1.84	0.01	0.46	0.48	2,371
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Unmit.	3.79	0.63	0.01	1.83	1.84	0.01	0.46	0.47	2,260

Average Daily (Max)	—	—	—	—	—	—	—	—	—
Unmit.	4.14	0.60	0.01	1.71	1.73	0.01	0.43	0.45	2,184
Annual (Max)	—	—	—	—	—	—	—	—	—
Unmit.	0.76	0.11	< 0.005	0.31	0.32	< 0.005	0.08	0.08	362

## 2.5. Operations Emissions by Sector, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Mobile	0.83	0.53	0.01	1.83	1.84	0.01	0.46	0.47	1,955
Area	3.78	0.07	0.01	—	0.01	< 0.005	—	< 0.005	23.4
Energy	0.00	0.00	0.00	—	0.00	0.00	—	0.00	215
Water	—	—	—	—	—	—	—	—	19.8
Waste	—	—	—	—	—	—	—	—	156
Refrig.	—	—	—	—	—	—	—	—	0.84
Total	4.62	0.60	0.02	1.83	1.84	0.01	0.46	0.48	2,371
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Mobile	0.82	0.63	0.01	1.83	1.84	0.01	0.46	0.47	1,868
Area	2.97	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Energy	0.00	0.00	0.00	—	0.00	0.00	—	0.00	215
Water	—	—	—	—	—	—	—	—	19.8
Waste	—	—	—	—	—	—	—	—	156
Refrig.	—	—	—	—	—	—	—	—	0.84
Total	3.79	0.63	0.01	1.83	1.84	0.01	0.46	0.47	2,260
Average Daily	—	—	—	—	—	—	—	—	—
Mobile	0.77	0.56	0.01	1.71	1.72	0.01	0.43	0.44	1,781

Area	3.37	0.04	< 0.005	—	< 0.005	< 0.005	—	< 0.005	11.5
Energy	0.00	0.00	0.00	—	0.00	0.00	—	0.00	215
Water	—	—	—	—	—	—	—	—	19.8
Waste	—	—	—	—	—	—	—	—	156
Refrig.	—	—	—	—	—	—	—	—	0.84
Total	4.14	0.60	0.01	1.71	1.73	0.01	0.43	0.45	2,184
Annual	—	—	—	—	—	—	—	—	—
Mobile	0.14	0.10	< 0.005	0.31	0.31	< 0.005	0.08	0.08	295
Area	0.62	0.01	< 0.005	—	< 0.005	< 0.005	—	< 0.005	1.91
Energy	0.00	0.00	0.00	—	0.00	0.00	—	0.00	35.6
Water	—	—	—	—	—	—	—	—	3.28
Waste	—	—	—	—	—	—	—	—	25.9
Refrig.	—	—	—	—	—	—	—	—	0.14
Total	0.76	0.11	< 0.005	0.31	0.32	< 0.005	0.08	0.08	362

## 2.6. Operations Emissions by Sector, Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Mobile	0.83	0.53	0.01	1.83	1.84	0.01	0.46	0.47	1,955
Area	3.78	0.07	0.01	—	0.01	< 0.005	—	< 0.005	23.4
Energy	0.00	0.00	0.00	—	0.00	0.00	—	0.00	215
Water	—	—	—	—	—	—	—	—	19.8
Waste	—	—	—	—	—	—	—	—	156
Refrig.	—	—	—	—	—	—	—	—	0.84
Total	4.62	0.60	0.02	1.83	1.84	0.01	0.46	0.48	2,371

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Mobile	0.82	0.63	0.01	1.83	1.84	0.01	0.46	0.47	1,868
Area	2.97	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Energy	0.00	0.00	0.00	—	0.00	0.00	—	0.00	215
Water	—	—	—	—	—	—	—	—	19.8
Waste	—	—	—	—	—	—	—	—	156
Refrig.	—	—	—	—	—	—	—	—	0.84
Total	3.79	0.63	0.01	1.83	1.84	0.01	0.46	0.47	2,260
Average Daily	—	—	—	—	—	—	—	—	—
Mobile	0.77	0.56	0.01	1.71	1.72	0.01	0.43	0.44	1,781
Area	3.37	0.04	< 0.005	—	< 0.005	< 0.005	—	< 0.005	11.5
Energy	0.00	0.00	0.00	—	0.00	0.00	—	0.00	215
Water	—	—	—	—	—	—	—	—	19.8
Waste	—	—	—	—	—	—	—	—	156
Refrig.	—	—	—	—	—	—	—	—	0.84
Total	4.14	0.60	0.01	1.71	1.73	0.01	0.43	0.45	2,184
Annual	—	—	—	—	—	—	—	—	—
Mobile	0.14	0.10	< 0.005	0.31	0.31	< 0.005	0.08	0.08	295
Area	0.62	0.01	< 0.005	—	< 0.005	< 0.005	—	< 0.005	1.91
Energy	0.00	0.00	0.00	—	0.00	0.00	—	0.00	35.6
Water	—	—	—	—	—	—	—	—	3.28
Waste	—	—	—	—	—	—	—	—	25.9
Refrig.	—	—	—	—	—	—	—	—	0.14
Total	0.76	0.11	< 0.005	0.31	0.32	< 0.005	0.08	0.08	362

### 3. Construction Emissions Details

## 3.1. Demolition (2024) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.82	6.82	0.23	—	0.23	0.21	—	0.21	1,169
Demolition	—	—	—	3.26	3.26	—	0.49	0.49	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.26	0.01	—	0.01	0.01	—	0.01	44.8
Demolition	—	—	—	0.13	0.13	—	0.02	0.02	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.05	< 0.005	—	< 0.005	< 0.005	—	< 0.005	7.42
Demolition	—	—	—	0.02	0.02	—	< 0.005	< 0.005	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.00	0.10	0.10	0.00	0.02	0.02	101
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.10	7.07	0.05	0.98	1.03	0.05	0.27	0.32	4,472
Average Daily	—	—	—	—	—	—	—	—	—

Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	3.88
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.27	< 0.005	0.04	0.04	< 0.005	0.01	0.01	172
Annual	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.64
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.05	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	28.4

### 3.2. Demolition (2024) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.18	8.08	0.20	—	0.20	0.19	—	0.19	1,169
Demolition	—	—	—	3.26	3.26	—	0.49	0.49	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.31	0.01	—	0.01	0.01	—	0.01	44.8
Demolition	—	—	—	0.13	0.13	—	0.02	0.02	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.06	< 0.005	—	< 0.005	< 0.005	—	< 0.005	7.42
Demolition	—	—	—	0.02	0.02	—	< 0.005	< 0.005	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Offsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.00	0.10	0.10	0.00	0.02	0.02	101
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.10	7.07	0.05	0.98	1.03	0.05	0.27	0.32	4,472
Average Daily	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	3.88
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.27	< 0.005	0.04	0.04	< 0.005	0.01	0.01	172
Annual	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.64
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.05	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	28.4

### 3.3. Site Preparation (2024) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.50	4.60	0.24	—	0.24	0.22	—	0.22	861
Dust From Material Movement	—	—	—	0.21	0.21	—	0.02	0.02	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—



Off-Road Equipment	0.05	0.44	0.02	—	0.02	0.02	—	0.02	82.5
Dust From Material Movement	—	—	—	0.02	0.02	—	< 0.005	< 0.005	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.08	< 0.005	—	< 0.005	< 0.005	—	< 0.005	13.7
Dust From Material Movement	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.00	0.04	0.04	0.00	0.01	0.01	40.3
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	3.88
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.64
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

### 3.4. Site Preparation (2024) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.13	3.48	0.02	—	0.02	0.02	—	0.02	861
Dust From Material Movement	—	—	—	0.21	0.21	—	0.02	0.02	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.33	< 0.005	—	< 0.005	< 0.005	—	< 0.005	82.5
Dust From Material Movement	—	—	—	0.02	0.02	—	< 0.005	< 0.005	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.06	< 0.005	—	< 0.005	< 0.005	—	< 0.005	13.7
Dust From Material Movement	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.00	0.04	0.04	0.00	0.01	0.01	40.3
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—

Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	3.88
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.64
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

### 3.5. Grading (2024) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.35	3.18	0.14	—	0.14	0.13	—	0.13	624
Dust From Material Movement	—	—	—	0.07	0.07	—	0.01	0.01	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.14	0.01	—	0.01	0.01	—	0.01	28.1
Dust From Material Movement	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.03	< 0.005	—	< 0.005	< 0.005	—	< 0.005	4.65

Dust From Material Movement	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.00	0.06	0.06	0.00	0.01	0.01	60.4
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.02	1.67	0.01	0.23	0.24	0.01	0.06	0.07	1,057
Average Daily	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	2.73
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.07	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	47.6
Annual	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.45
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	7.89

### 3.6. Grading (2024) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.09	3.04	0.04	—	0.04	0.04	—	0.04	624

Dust From Material Movement	—	—	—	0.07	0.07	—	0.01	0.01	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.14	< 0.005	—	< 0.005	< 0.005	—	< 0.005	28.1
Dust From Material Movement	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.03	< 0.005	—	< 0.005	< 0.005	—	< 0.005	4.65
Dust From Material Movement	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.00	0.06	0.06	0.00	0.01	0.01	60.4
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.02	1.67	0.01	0.23	0.24	0.01	0.06	0.07	1,057
Average Daily	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	2.73
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.07	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	47.6
Annual	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.45
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	7.89

## 3.7. Grading (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.33	2.95	0.13	—	0.13	0.12	—	0.12	624
Dust From Material Movement	—	—	—	0.07	0.07	—	0.01	0.01	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.02	< 0.005	—	< 0.005	< 0.005	—	< 0.005	3.66
Dust From Material Movement	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.61
Dust From Material Movement	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.00	0.06	0.06	0.00	0.01	0.01	59.1
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Hauling	0.02	1.59	0.01	0.23	0.24	0.01	0.06	0.07	1,034
Average Daily	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.35
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	6.07
Annual	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.06
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	1.01

### 3.8. Grading (2025) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.09	3.04	0.04	—	0.04	0.04	—	0.04	624
Dust From Material Movement	—	—	—	0.07	0.07	—	0.01	0.01	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.02	< 0.005	—	< 0.005	< 0.005	—	< 0.005	3.66
Dust From Material Movement	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—

Off-Road Equipment	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.61
Dust From Material Movement	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.00	0.06	0.06	0.00	0.01	0.01	59.1
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.02	1.59	0.01	0.23	0.24	0.01	0.06	0.07	1,034
Average Daily	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.35
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	6.07
Annual	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.06
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	1.01

### 3.9. Building Construction (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.32	2.90	0.12	—	0.12	0.11	—	0.11	677



Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.32	2.90	0.12	—	0.12	0.11	—	0.11	677
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.19	1.68	0.07	—	0.07	0.06	—	0.06	392
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.31	0.01	—	0.01	0.01	—	0.01	64.8
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Worker	0.23	0.17	0.00	0.79	0.79	0.00	0.18	0.18	791
Vendor	0.02	0.73	0.01	0.13	0.13	0.01	0.03	0.04	535
Hauling	0.01	0.60	< 0.005	0.09	0.10	< 0.005	0.03	0.03	414
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Worker	0.23	0.23	0.00	0.79	0.79	0.00	0.18	0.18	752
Vendor	0.02	0.76	0.01	0.13	0.13	0.01	0.03	0.04	534
Hauling	0.01	0.63	< 0.005	0.09	0.10	< 0.005	0.03	0.03	413
Average Daily	—	—	—	—	—	—	—	—	—
Worker	0.13	0.12	0.00	0.45	0.45	0.00	0.11	0.11	437
Vendor	0.01	0.44	< 0.005	0.07	0.08	< 0.005	0.02	0.02	309
Hauling	0.01	0.36	< 0.005	0.05	0.06	< 0.005	0.01	0.02	239
Annual	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.00	0.08	0.08	0.00	0.02	0.02	72.3

Vendor	< 0.005	0.08	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	51.1
Hauling	< 0.005	0.07	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	39.6

### 3.10. Building Construction (2025) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.10	2.34	0.04	—	0.04	0.03	—	0.03	677
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.10	2.34	0.04	—	0.04	0.03	—	0.03	677
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	1.35	0.02	—	0.02	0.02	—	0.02	392
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.25	< 0.005	—	< 0.005	< 0.005	—	< 0.005	64.8
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Worker	0.23	0.17	0.00	0.79	0.79	0.00	0.18	0.18	791
Vendor	0.02	0.73	0.01	0.13	0.13	0.01	0.03	0.04	535

Hauling	0.01	0.60	< 0.005	0.09	0.10	< 0.005	0.03	0.03	414
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Worker	0.23	0.23	0.00	0.79	0.79	0.00	0.18	0.18	752
Vendor	0.02	0.76	0.01	0.13	0.13	0.01	0.03	0.04	534
Hauling	0.01	0.63	< 0.005	0.09	0.10	< 0.005	0.03	0.03	413
Average Daily	—	—	—	—	—	—	—	—	—
Worker	0.13	0.12	0.00	0.45	0.45	0.00	0.11	0.11	437
Vendor	0.01	0.44	< 0.005	0.07	0.08	< 0.005	0.02	0.02	309
Hauling	0.01	0.36	< 0.005	0.05	0.06	< 0.005	0.01	0.02	239
Annual	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.00	0.08	0.08	0.00	0.02	0.02	72.3
Vendor	< 0.005	0.08	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	51.1
Hauling	< 0.005	0.07	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	39.6

### 3.11. Paving (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.19	1.54	0.06	—	0.06	0.05	—	0.05	325
Paving	0.00	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.04	< 0.005	—	< 0.005	< 0.005	—	< 0.005	8.89

Paving	0.00	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.01	< 0.005	—	< 0.005	< 0.005	—	< 0.005	1.47
Paving	0.00	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Worker	0.02	0.01	0.00	0.06	0.06	0.00	0.01	0.01	60.9
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.24	< 0.005	0.04	0.04	< 0.005	0.01	0.01	168
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	1.59
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	4.61
Annual	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.26
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.76

### 3.12. Paving (2026) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	1.78	0.04	—	0.04	0.03	—	0.03	325
Paving	0.00	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.05	< 0.005	—	< 0.005	< 0.005	—	< 0.005	8.89
Paving	0.00	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.01	< 0.005	—	< 0.005	< 0.005	—	< 0.005	1.47
Paving	0.00	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Worker	0.02	0.01	0.00	0.06	0.06	0.00	0.01	0.01	60.9
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.24	< 0.005	0.04	0.04	< 0.005	0.01	0.01	168
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	1.59
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	4.61
Annual	—	—	—	—	—	—	—	—	—

Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.26
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.76

### 3.13. Architectural Coating (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.46	0.02	—	0.02	0.02	—	0.02	84.8
Architectural Coatings	7.21	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.46	0.02	—	0.02	0.02	—	0.02	84.8
Architectural Coatings	7.21	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.10	< 0.005	—	< 0.005	< 0.005	—	< 0.005	17.9
Architectural Coatings	1.52	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.02	< 0.005	—	< 0.005	< 0.005	—	< 0.005	2.97

Architectural Coatings	0.28	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Worker	0.05	0.03	0.00	0.16	0.16	0.00	0.04	0.04	158
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.00	0.16	0.16	0.00	0.04	0.04	150
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.00	0.03	0.03	0.00	0.01	0.01	31.9
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.29
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

### 3.14. Architectural Coating (2025) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.01	0.47	0.01	—	0.01	0.01	—	0.01	84.8
Architectural Coatings	7.21	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.47	0.01	—	0.01	0.01	—	0.01	84.8
Architectural Coatings	7.21	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.10	< 0.005	—	< 0.005	< 0.005	—	< 0.005	17.9
Architectural Coatings	1.52	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.02	< 0.005	—	< 0.005	< 0.005	—	< 0.005	2.97
Architectural Coatings	0.28	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Worker	0.05	0.03	0.00	0.16	0.16	0.00	0.04	0.04	158
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.00	0.16	0.16	0.00	0.04	0.04	150



Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.00	0.03	0.03	0.00	0.01	0.01	31.9
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.29
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

### 3.15. Architectural Coating (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.44	0.02	—	0.02	0.02	—	0.02	84.8
Architectural Coatings	7.21	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.44	0.02	—	0.02	0.02	—	0.02	84.8
Architectural Coatings	7.21	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.02	0.18	0.01	—	0.01	0.01	—	0.01	35.2
Architectural Coatings	2.99	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.03	< 0.005	—	< 0.005	< 0.005	—	< 0.005	5.82
Architectural Coatings	0.55	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Worker	0.04	0.03	0.00	0.16	0.16	0.00	0.04	0.04	155
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.00	0.16	0.16	0.00	0.04	0.04	147
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.00	0.06	0.06	0.00	0.02	0.02	61.4
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	0.01	0.01	0.00	< 0.005	< 0.005	10.2
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

## 3.16. Architectural Coating (2026) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.47	0.01	—	0.01	0.01	—	0.01	84.8
Architectural Coatings	7.21	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.47	0.01	—	0.01	0.01	—	0.01	84.8
Architectural Coatings	7.21	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.19	< 0.005	—	< 0.005	< 0.005	—	< 0.005	35.2
Architectural Coatings	2.99	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.04	< 0.005	—	< 0.005	< 0.005	—	< 0.005	5.82
Architectural Coatings	0.55	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Worker	0.04	0.03	0.00	0.16	0.16	0.00	0.04	0.04	155
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.00	0.16	0.16	0.00	0.04	0.04	147
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.00	0.06	0.06	0.00	0.02	0.02	61.4
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	0.01	0.01	0.00	< 0.005	< 0.005	10.2
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

### 3.17. Trenching (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.64	0.03	—	0.03	0.03	—	0.03	129
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Average Daily	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.04	< 0.005	—	< 0.005	< 0.005	—	< 0.005	8.83
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.01	< 0.005	—	< 0.005	< 0.005	—	< 0.005	1.46
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.00	0.04	0.04	0.00	0.01	0.01	39.4
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	2.71
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.45
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

### 3.18. Trenching (2025) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.58	0.01	—	0.01	0.01	—	0.01	129
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.04	< 0.005	—	< 0.005	< 0.005	—	< 0.005	8.83
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.01	< 0.005	—	< 0.005	< 0.005	—	< 0.005	1.46
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.00	0.04	0.04	0.00	0.01	0.01	39.4
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	2.71
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.45
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

## 4. Operations Emissions Details

### 4.1. Mobile Emissions by Land Use

#### 4.1.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	0.83	0.53	0.01	1.83	1.84	0.01	0.46	0.47	1,955
Unenclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.83	0.53	0.01	1.83	1.84	0.01	0.46	0.47	1,955
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	0.82	0.63	0.01	1.83	1.84	0.01	0.46	0.47	1,868
Unenclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.82	0.63	0.01	1.83	1.84	0.01	0.46	0.47	1,868
Annual	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	0.14	0.10	< 0.005	0.31	0.31	< 0.005	0.08	0.08	295
Unenclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.14	0.10	< 0.005	0.31	0.31	< 0.005	0.08	0.08	295

#### 4.1.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	0.83	0.53	0.01	1.83	1.84	0.01	0.46	0.47	1,955
Unenclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.83	0.53	0.01	1.83	1.84	0.01	0.46	0.47	1,955
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	0.82	0.63	0.01	1.83	1.84	0.01	0.46	0.47	1,868
Unenclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.82	0.63	0.01	1.83	1.84	0.01	0.46	0.47	1,868
Annual	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	0.14	0.10	< 0.005	0.31	0.31	< 0.005	0.08	0.08	295
Unenclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.14	0.10	< 0.005	0.31	0.31	< 0.005	0.08	0.08	295

## 4.2. Energy

### 4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—



Apartments Mid Rise	—	—	—	—	—	—	—	—	188
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	27.7
Total	—	—	—	—	—	—	—	—	215
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	188
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	27.7
Total	—	—	—	—	—	—	—	—	215
Annual	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	31.0
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	4.59
Total	—	—	—	—	—	—	—	—	35.6

#### 4.2.2. Electricity Emissions By Land Use - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	188
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	27.7
Total	—	—	—	—	—	—	—	—	215

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	188
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	27.7
Total	—	—	—	—	—	—	—	—	215
Annual	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	31.0
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	4.59
Total	—	—	—	—	—	—	—	—	35.6

#### 4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Unenclosed Parking with Elevator	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Unenclosed Parking with Elevator	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00

Total	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Unenclosed Parking with Elevator	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00

#### 4.2.4. Natural Gas Emissions By Land Use - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Unenclosed Parking with Elevator	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Unenclosed Parking with Elevator	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00

Unenclosed Parking with Elevator	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00

### 4.3. Area Emissions by Source

#### 4.3.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Consumer Products	2.52	—	—	—	—	—	—	—	—
Architectural Coatings	0.45	—	—	—	—	—	—	—	—
Landscape Equipment	0.81	0.07	0.01	—	0.01	< 0.005	—	< 0.005	23.4
Total	3.78	0.07	0.01	—	0.01	< 0.005	—	< 0.005	23.4
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Consumer Products	2.52	—	—	—	—	—	—	—	—
Architectural Coatings	0.45	—	—	—	—	—	—	—	—
Total	2.97	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Consumer Products	0.46	—	—	—	—	—	—	—	—

Architectural Coatings	0.08	—	—	—	—	—	—	—	—
Landscape Equipment	0.07	0.01	< 0.005	—	< 0.005	< 0.005	—	< 0.005	1.91
Total	0.62	0.01	< 0.005	—	< 0.005	< 0.005	—	< 0.005	1.91

### 4.3.2. Mitigated

#### Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Consumer Products	2.52	—	—	—	—	—	—	—	—
Architectural Coatings	0.45	—	—	—	—	—	—	—	—
Landscape Equipment	0.81	0.07	0.01	—	0.01	< 0.005	—	< 0.005	23.4
Total	3.78	0.07	0.01	—	0.01	< 0.005	—	< 0.005	23.4
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Consumer Products	2.52	—	—	—	—	—	—	—	—
Architectural Coatings	0.45	—	—	—	—	—	—	—	—
Total	2.97	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Consumer Products	0.46	—	—	—	—	—	—	—	—

Architectural Coatings	0.08	—	—	—	—	—	—	—	—
Landscape Equipment	0.07	0.01	< 0.005	—	< 0.005	< 0.005	—	< 0.005	1.91
Total	0.62	0.01	< 0.005	—	< 0.005	< 0.005	—	< 0.005	1.91

#### 4.4. Water Emissions by Land Use

##### 4.4.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	19.8
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	19.8
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	19.8
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	19.8
Annual	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	3.28
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	0.00

Total	—	—	—	—	—	—	—	—	3.28
-------	---	---	---	---	---	---	---	---	------

#### 4.4.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	19.8
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	19.8
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	19.8
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	19.8
Annual	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	3.28
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	3.28

#### 4.5. Waste Emissions by Land Use

##### 4.5.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	156
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	156
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	156
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	156
Annual	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	25.9
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	25.9

4.5.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	156



Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	156
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	156
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	156
Annual	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	25.9
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	25.9

## 4.6. Refrigerant Emissions by Land Use

### 4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	0.84
Total	—	—	—	—	—	—	—	—	0.84
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	0.84

Total	—	—	—	—	—	—	—	—	0.84
Annual	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	0.14
Total	—	—	—	—	—	—	—	—	0.14

#### 4.6.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	0.84
Total	—	—	—	—	—	—	—	—	0.84
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	0.84
Total	—	—	—	—	—	—	—	—	0.84
Annual	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	0.14
Total	—	—	—	—	—	—	—	—	0.14

#### 4.7. Offroad Emissions By Equipment Type

##### 4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
----------------	-----	-----	-------	-------	-------	--------	--------	--------	------

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—

#### 4.7.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—

#### 4.8. Stationary Emissions By Equipment Type

##### 4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—

Total	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—

#### 4.8.2. Mitigated

##### Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—

#### 4.9. User Defined Emissions By Equipment Type

##### 4.9.1. Unmitigated

##### Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—

#### 4.9.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—

#### 4.10. Soil Carbon Accumulation By Vegetation Type

##### 4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—

##### 4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
----------	-----	-----	-------	-------	-------	--------	--------	--------	------

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—

Annual	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—

4.10.5. Above and Belowground Carbon Accumulation by Land Use Type - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—

Annual	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—



Removed	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—

## 5. Activity Data

### 5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Demolition	Demolition	10/1/2024	10/18/2024	5.00	14.0	—
Site Preparation	Site Preparation	10/21/2024	12/6/2024	5.00	35.0	—
Grading	Grading	12/9/2024	1/3/2025	5.00	20.0	—
Building Construction	Building Construction	2/7/2025	11/28/2025	5.00	211	—
Paving	Paving	9/2/2026	9/15/2026	5.00	10.0	—
Architectural Coating	Architectural Coating	9/15/2025	7/31/2026	5.00	230	—
Trenching	Trenching	1/6/2025	2/7/2025	5.00	25.0	—

### 5.2. Off-Road Equipment

#### 5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Tractors/Loaders/Backhoes	Diesel	Average	1.00	8.00	84.0	0.37
Demolition	Concrete/Industrial Saws	Diesel	Average	3.00	8.00	33.0	0.73
Demolition	Excavators	Diesel	Average	1.00	8.00	36.0	0.38
Site Preparation	Graders	Diesel	Average	1.00	8.00	148	0.41
Site Preparation	Tractors/Loaders/Backhoes	Diesel	Average	1.00	8.00	84.0	0.37

Grading	Graders	Diesel	Average	1.00	2.67	148	0.41
Grading	Tractors/Loaders/Backhoes	Diesel	Average	1.00	8.00	84.0	0.37
Grading	Excavators	Diesel	Average	1.00	8.00	36.0	0.38
Building Construction	Cranes	Diesel	Average	1.00	4.00	367	0.29
Building Construction	Forklifts	Diesel	Average	1.00	4.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	1.00	2.00	14.0	0.74
Building Construction	Welders	Diesel	Average	1.00	3.00	46.0	0.45
Paving	Tractors/Loaders/Backhoes	Diesel	Average	1.00	5.30	84.0	0.37
Paving	Cement and Mortar Mixers	Diesel	Average	1.00	5.30	10.0	0.56
Paving	Rollers	Diesel	Average	1.00	5.30	36.0	0.38
Architectural Coating	Air Compressors	Diesel	Average	1.00	1.40	37.0	0.48
Architectural Coating	Forklifts	Diesel	Average	1.00	2.80	82.0	0.20
Trenching	Excavators	Diesel	Average	1.00	0.80	36.0	0.38
Trenching	Forklifts	Diesel	Average	1.00	6.00	82.0	0.20

### 5.2.2. Mitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Tractors/Loaders/Backhoes	Diesel	Tier 4 Interim	1.00	8.00	84.0	0.37
Demolition	Concrete/Industrial Saws	Diesel	Tier 4 Interim	3.00	8.00	33.0	0.73
Demolition	Excavators	Diesel	Tier 4 Interim	1.00	8.00	36.0	0.38
Site Preparation	Graders	Diesel	Tier 4 Interim	1.00	8.00	148	0.41
Site Preparation	Tractors/Loaders/Backhoes	Diesel	Tier 4 Interim	1.00	8.00	84.0	0.37
Grading	Graders	Diesel	Tier 4 Interim	1.00	2.67	148	0.41

Grading	Tractors/Loaders/Backhoes	Diesel	Tier 4 Interim	1.00	8.00	84.0	0.37
Grading	Excavators	Diesel	Tier 4 Interim	1.00	8.00	36.0	0.38
Building Construction	Cranes	Diesel	Tier 4 Interim	1.00	4.00	367	0.29
Building Construction	Forklifts	Diesel	Tier 4 Interim	1.00	4.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	1.00	2.00	14.0	0.74
Building Construction	Welders	Diesel	Tier 4 Interim	1.00	3.00	46.0	0.45
Paving	Tractors/Loaders/Backhoes	Diesel	Tier 4 Interim	1.00	5.30	84.0	0.37
Paving	Cement and Mortar Mixers	Diesel	Average	1.00	5.30	10.0	0.56
Paving	Rollers	Diesel	Tier 4 Interim	1.00	5.30	36.0	0.38
Architectural Coating	Air Compressors	Diesel	Tier 4 Interim	1.00	1.40	37.0	0.48
Architectural Coating	Forklifts	Diesel	Tier 4 Interim	1.00	2.80	82.0	0.20
Trenching	Excavators	Diesel	Tier 4 Interim	1.00	0.80	36.0	0.38
Trenching	Forklifts	Diesel	Tier 4 Interim	1.00	6.00	82.0	0.20

## 5.3. Construction Vehicles

### 5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	12.5	11.7	LDA,LDT1,LDT2
Demolition	Vendor	—	8.40	HHDT,MHDT
Demolition	Hauling	52.9	20.0	HHDT
Demolition	Onsite truck	—	—	HHDT
Site Preparation	—	—	—	—
Site Preparation	Worker	5.00	11.7	LDA,LDT1,LDT2
Site Preparation	Vendor	—	8.40	HHDT,MHDT

Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	7.50	11.7	LDA,LDT1,LDT2
Grading	Vendor	—	8.40	HHDT,MHDT
Grading	Hauling	12.5	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	95.4	11.7	LDA,LDT1,LDT2
Building Construction	Vendor	17.7	8.40	HHDT,MHDT
Building Construction	Hauling	5.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	7.50	11.7	LDA,LDT1,LDT2
Paving	Vendor	—	8.40	HHDT,MHDT
Paving	Hauling	2.08	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	19.1	11.7	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	8.40	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT
Trenching	—	—	—	—
Trenching	Worker	5.00	11.7	LDA,LDT1,LDT2
Trenching	Vendor	—	8.40	HHDT,MHDT
Trenching	Hauling	0.00	20.0	HHDT
Trenching	Onsite truck	—	—	HHDT

## 5.3.2. Mitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	12.5	11.7	LDA,LDT1,LDT2
Demolition	Vendor	—	8.40	HHDT,MHDT
Demolition	Hauling	52.9	20.0	HHDT
Demolition	Onsite truck	—	—	HHDT
Site Preparation	—	—	—	—
Site Preparation	Worker	5.00	11.7	LDA,LDT1,LDT2
Site Preparation	Vendor	—	8.40	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	7.50	11.7	LDA,LDT1,LDT2
Grading	Vendor	—	8.40	HHDT,MHDT
Grading	Hauling	12.5	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	95.4	11.7	LDA,LDT1,LDT2
Building Construction	Vendor	17.7	8.40	HHDT,MHDT
Building Construction	Hauling	5.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	7.50	11.7	LDA,LDT1,LDT2
Paving	Vendor	—	8.40	HHDT,MHDT
Paving	Hauling	2.08	20.0	HHDT
Paving	Onsite truck	—	—	HHDT

Architectural Coating	—	—	—	—
Architectural Coating	Worker	19.1	11.7	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	8.40	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT
Trenching	—	—	—	—
Trenching	Worker	5.00	11.7	LDA,LDT1,LDT2
Trenching	Vendor	—	8.40	HHDT,MHDT
Trenching	Hauling	0.00	20.0	HHDT
Trenching	Onsite truck	—	—	HHDT

## 5.4. Vehicles

### 5.4.1. Construction Vehicle Control Strategies

Control Strategies Applied	PM10 Reduction	PM2.5 Reduction
Water unpaved roads twice daily	55%	55%
Limit vehicle speeds on unpaved roads to 25 mph	44%	44%

## 5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
Architectural Coating	238,507	79,502	0.00	0.00	—

## 5.6. Dust Mitigation

### 5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (cy)	Material Exported (cy)	Acres Graded (acres)	Material Demolished (Ton of Debris)	Acres Paved (acres)
Demolition	0.00	0.00	0.00	2,000	—
Site Preparation	—	—	17.5	0.00	—
Grading	—	2,000	3.34	0.00	—
Paving	0.00	0.00	0.00	0.00	0.00

### 5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency (per day)	PM10 Reduction	PM2.5 Reduction
Water Exposed Area	2	61%	61%

### 5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Apartments Mid Rise	—	0%
Unenclosed Parking with Elevator	0.00	100%

### 5.8. Construction Electricity Consumption and Emissions Factors

#### kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2025	0.00	100.0	0.03	< 0.005
2024	0.00	100.0	0.03	< 0.005
2026	0.00	100.0	0.03	< 0.005

### 5.9. Operational Mobile Sources

#### 5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Apartments Mid Rise	332	299	249	114,990	2,595	2,341	1,947	900,238
Unenclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

## 5.9.2. Mitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Apartments Mid Rise	332	299	249	114,990	2,595	2,341	1,947	900,238
Unenclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

## 5.10. Operational Area Sources

### 5.10.1. Hearths

#### 5.10.1.1. Unmitigated

Hearth Type	Unmitigated (number)
Apartments Mid Rise	—
Wood Fireplaces	0
Gas Fireplaces	0
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	0
Conventional Wood Stoves	0
Catalytic Wood Stoves	0
Non-Catalytic Wood Stoves	0
Pellet Wood Stoves	0



### 5.10.1.2. Mitigated

Hearth Type	Unmitigated (number)
Apartments Mid Rise	—
Wood Fireplaces	0
Gas Fireplaces	0
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	0
Conventional Wood Stoves	0
Catalytic Wood Stoves	0
Non-Catalytic Wood Stoves	0
Pellet Wood Stoves	0

### 5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
238506.525	79,502	0.00	0.00	—

### 5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	180

### 5.10.4. Landscape Equipment - Mitigated

Season	Unit	Value
Snow Days	day/yr	0.00

Summer Days	day/yr	180
-------------	--------	-----

### 5.11. Operational Energy Consumption

#### 5.11.1. Unmitigated

##### Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Apartments Mid Rise	671,067	100.0	0.0330	0.0040	0.00
Unenclosed Parking with Elevator	99,267	100.0	0.0330	0.0040	0.00

#### 5.11.2. Mitigated

##### Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Apartments Mid Rise	671,067	100.0	0.0330	0.0040	0.00
Unenclosed Parking with Elevator	99,267	100.0	0.0330	0.0040	0.00

### 5.12. Operational Water and Wastewater Consumption

#### 5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Apartments Mid Rise	3,590,374	0.00
Unenclosed Parking with Elevator	0.00	0.00

#### 5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
----------	-------------------------	--------------------------

Apartments Mid Rise	3,590,374	0.00
Unenclosed Parking with Elevator	0.00	0.00

## 5.13. Operational Waste Generation

### 5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Apartments Mid Rise	82.9	—
Unenclosed Parking with Elevator	0.00	—

### 5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Apartments Mid Rise	82.9	—
Unenclosed Parking with Elevator	0.00	—

## 5.14. Operational Refrigeration and Air Conditioning Equipment

### 5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Apartments Mid Rise	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0
Apartments Mid Rise	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00

### 5.14.2. Mitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
---------------	----------------	-------------	-----	---------------	----------------------	-------------------	----------------

Apartments Mid Rise	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0
Apartments Mid Rise	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00

## 5.15. Operational Off-Road Equipment

### 5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
----------------	-----------	-------------	----------------	---------------	------------	-------------

### 5.15.2. Mitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
----------------	-----------	-------------	----------------	---------------	------------	-------------

## 5.16. Stationary Sources

### 5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
----------------	-----------	----------------	---------------	----------------	------------	-------------

### 5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)
----------------	-----------	--------	--------------------------	------------------------------	------------------------------

## 5.17. User Defined

Equipment Type	Fuel Type
----------------	-----------

## 5.18. Vegetation

### 5.18.1. Land Use Change

#### 5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
--------------------------	----------------------	---------------	-------------

#### 5.18.1.2. Mitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
--------------------------	----------------------	---------------	-------------

### 5.18.1. Biomass Cover Type

#### 5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
--------------------	---------------	-------------

#### 5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres
--------------------	---------------	-------------

### 5.18.2. Sequestration

#### 5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
-----------	--------	------------------------------	------------------------------

#### 5.18.2.2. Mitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
-----------	--------	------------------------------	------------------------------

## 6. Climate Risk Detailed Report

## 6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	11.8	annual days of extreme heat
Extreme Precipitation	4.05	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	10.7	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about  $\frac{3}{4}$  an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters

Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

## 6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	0	0	0	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

### 6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	1	1	1	2

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

### 6.4. Climate Risk Reduction Measures

## 7. Health and Equity Details

### 7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	10.6

AQ-PM	16.4
AQ-DPM	87.6
Drinking Water	29.1
Lead Risk Housing	96.6
Pesticides	0.00
Toxic Releases	25.1
Traffic	94.4
Effect Indicators	—
CleanUp Sites	82.2
Groundwater	71.7
Haz Waste Facilities/Generators	91.9
Impaired Water Bodies	0.00
Solid Waste	67.4
Sensitive Population	—
Asthma	23.9
Cardio-vascular	10.4
Low Birth Weights	45.3
Socioeconomic Factor Indicators	—
Education	78.5
Housing	86.1
Linguistic	87.2
Poverty	56.8
Unemployment	36.4

## 7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
-----------	---------------------------------



Economic	—
Above Poverty	42.61516746
Employed	87.75824458
Median HI	40.5363788
Education	—
Bachelor's or higher	33.61991531
High school enrollment	100
Preschool enrollment	68.52303349
Transportation	—
Auto Access	16.95110997
Active commuting	77.53111767
Social	—
2-parent households	34.64647761
Voting	49.83959964
Neighborhood	—
Alcohol availability	49.37764661
Park access	18.02900038
Retail density	78.37803157
Supermarket access	71.53856025
Tree canopy	69.94738868
Housing	—
Homeownership	32.22122418
Housing habitability	26.98575645
Low-inc homeowner severe housing cost burden	15.44976261
Low-inc renter severe housing cost burden	56.30694213
Uncrowded housing	19.8639805
Health Outcomes	—

Insured adults	48.91569357
Arthritis	0.0
Asthma ER Admissions	81.6
High Blood Pressure	0.0
Cancer (excluding skin)	0.0
Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	56.1
Cognitively Disabled	78.9
Physically Disabled	69.8
Heart Attack ER Admissions	92.6
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	19.6
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—
Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	13.0
Children	10.6

Elderly	82.5
English Speaking	22.4
Foreign-born	77.9
Outdoor Workers	25.6
Climate Change Adaptive Capacity	—
Impervious Surface Cover	46.6
Traffic Density	83.5
Traffic Access	65.0
Other Indices	—
Hardship	69.0
Other Decision Support	—
2016 Voting	43.5

### 7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	60.0
Healthy Places Index Score for Project Location (b)	52.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

### 7.4. Health & Equity Measures

No Health & Equity Measures selected.

### 7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

## 7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

## 8. User Changes to Default Data

Screen	Justification
Characteristics: Utility Information	Menlo Park's default clean energy provider is Peninsula Clean Energy.
Land Use	Total lot acreage, square footage, number of units, and number of parking spaces provided by filled out construction worksheet.
Construction: Construction Phases	Provided by filled out construction worksheet (dates are located in Column C under HP.)
Construction: Off-Road Equipment	Provided by filled out construction worksheet.
Construction: Trips and VMT	Demolition = 1,200 tons of pavement demo (17.143 trips/day), Building Construction = 500 concrete truck round trips (5 trips/day), Paving = 130-cy asphalt (2.08 trips/day).
Operations: Hearths	No hearths.
Operations: Energy Use	Project design is all-electric. Confirmed no natural gas. Convert natural gas to electricity.
Operations: Water and Waste Water	Wastewater treatment 100% aerobic - no septic tanks or lagoons.
Operations: Vehicle Data	Provided trip gen with reduction adjustments.

## 2. Emissions Summary - HRA

### 2.2 Construction Emissions by Year, Unmitigated

Year	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO <sub>2</sub> e
Daily - Summer (Max)									
2025	7.8515073	3.7813166	0.1383336	0.1008261	0.2391598	0.1273472	0.0243478	0.1516950	973.1238381719119
2026	7.3033948	1.5818789	0.0584223	0.0134856	0.0656495	0.0537559	0.0031610	0.0555258	342.90818039849177
Daily - Winter (Max)									
2024	0.8763822	7.9444167	0.2409655	3.3211063	3.5559934	0.2216882	0.5096386	0.7260143	1491.8192682089189
2025	7.8479796	3.9707035	0.1502434	0.1008261	0.2411166	0.1383130	0.0243478	0.1603278	1001.6815826733381
2026	7.3029740	0.4512197	0.0167224	0.0134856	0.0302081	0.0153846	0.0031610	0.0185456	100.72341533622378
Average Daily									
2024	0.0997822	0.9008992	0.0386067	0.1515686	0.1901753	0.0355273	0.0223216	0.0578490	171.89805805988735
2025	1.8608308	2.0825986	0.0755300	0.0534890	0.1290191	0.0695343	0.0128904	0.0824248	536.7628379617419
2026	3.0352682	0.2302270	0.0085383	0.0057230	0.0142613	0.0078554	0.0013424	0.0091979	51.18433543880933
Annual									
2024	0.0182102	0.1644141	0.0070457	0.0276612	0.0347070	0.0064837	0.0040737	0.0105574	28.459685202828098
2025	0.3396016	0.3800742	0.0137842	0.0097617	0.0235459	0.0126900	0.0023525	0.0150425	88.86721333201903
2026	0.5539364	0.0420164	0.0015582	0.0010444	0.0026026	0.0014336	0.0002450	0.0016786	8.474150844665024

### 5.3. Construction Vehicles - HRA

#### 5.3.1 Unmitigated

Phase	Narr	Trip Type	One-Way T	Miles per T	Vehicle Mix
<b>Demolition</b>					
Demolition	Worker		12.5	1	LDA,LDT1,LDT2
Demolition	Vendor			1	HHDT,MHDT
Demolition	Hauling		52.86	1	HHDT
Demolition	Onsite truc				HHDT
<b>Site Preparation</b>					
Site Prepar	Worker		5	1	LDA,LDT1,LDT2
Site Prepar	Vendor			1	HHDT,MHDT
Site Prepar	Hauling		0	1	HHDT
Site Prepar	Onsite truc				HHDT
<b>Grading</b>					
Grading	Worker		7.5	1	LDA,LDT1,LDT2
Grading	Vendor			1	HHDT,MHDT
Grading	Hauling		12.5	1	HHDT
Grading	Onsite truc				HHDT
<b>Building Construction</b>					
Building Cc	Worker		95.43492	1	LDA,LDT1,LDT2
Building Cc	Vendor		17.746341	1	HHDT,MHDT
Building Cc	Hauling		5	1	HHDT
Building Cc	Onsite truc				HHDT
<b>Paving</b>					
Paving	Worker		7.5	1	LDA,LDT1,LDT2
Paving	Vendor			1	HHDT,MHDT
Paving	Hauling		2.08	1	HHDT
Paving	Onsite truc				HHDT
<b>Architectural Coating</b>					
Architectur	Worker		19.086984	1	LDA,LDT1,LDT2
Architectur	Vendor			1	HHDT,MHDT
Architectur	Hauling		0	1	HHDT
Architectur	Onsite truc				HHDT
<b>Trenching</b>					
Trenching	Worker		5	1	LDA,LDT1,LDT2
Trenching	Vendor			1	HHDT,MHDT
Trenching	Hauling		0	1	HHDT
Trenching	Onsite truc				HHDT

# 23-152 3705 Haven Avenue, Menlo Park Existing Detailed Report

## Table of Contents

- 1. Basic Project Information
  - 1.1. Basic Project Information
  - 1.2. Land Use Types
  - 1.3. User-Selected Emission Reduction Measures by Emissions Sector
- 2. Emissions Summary
  - 2.4. Operations Emissions Compared Against Thresholds
  - 2.5. Operations Emissions by Sector, Unmitigated
- 4. Operations Emissions Details
  - 4.1. Mobile Emissions by Land Use
    - 4.1.1. Unmitigated
  - 4.2. Energy
    - 4.2.1. Electricity Emissions By Land Use - Unmitigated
    - 4.2.3. Natural Gas Emissions By Land Use - Unmitigated
  - 4.3. Area Emissions by Source

4.3.1. Unmitigated

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated



## 5. Activity Data

### 5.9. Operational Mobile Sources

#### 5.9.1. Unmitigated

### 5.10. Operational Area Sources

#### 5.10.1. Hearths

##### 5.10.1.1. Unmitigated

#### 5.10.2. Architectural Coatings

#### 5.10.3. Landscape Equipment

### 5.11. Operational Energy Consumption

#### 5.11.1. Unmitigated

### 5.12. Operational Water and Wastewater Consumption

#### 5.12.1. Unmitigated

### 5.13. Operational Waste Generation

#### 5.13.1. Unmitigated

### 5.14. Operational Refrigeration and Air Conditioning Equipment

#### 5.14.1. Unmitigated

### 5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

5.16.2. Process Boilers

5.17. User Defined

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

5.18.2. Sequestration

5.18.2.1. Unmitigated

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

6.2. Initial Climate Risk Scores

6.3. Adjusted Climate Risk Scores

6.4. Climate Risk Reduction Measures

## 7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

7.2. Healthy Places Index Scores

7.3. Overall Health & Equity Scores

7.4. Health & Equity Measures

7.5. Evaluation Scorecard

7.6. Health & Equity Custom Measures

## 8. User Changes to Default Data

# 1. Basic Project Information

## 1.1. Basic Project Information

Data Field	Value
Project Name	23-152 3705 Haven Avenue, Menlo Park Existing
Operational Year	2024
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	4.20
Precipitation (days)	18.8
Location	3705 Haven Ave, Menlo Park, CA 94025, USA
County	San Mateo
City	Menlo Park
Air District	Bay Area AQMD
Air Basin	San Francisco Bay Area
TAZ	1209
EDFZ	1
Electric Utility	Peninsula Clean Energy
Gas Utility	Pacific Gas & Electric
App Version	2022.1.1.22

## 1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
General Office Building	10.4	1000sqft	0.24	10,355	0.00	—	—	—

### 1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

## 2. Emissions Summary

### 2.4. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Unmit.	0.68	0.37	0.01	0.91	0.92	0.01	0.23	0.24	1,185
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Unmit.	0.60	0.42	0.01	0.91	0.92	0.01	0.23	0.24	1,135
Average Daily (Max)	—	—	—	—	—	—	—	—	—
Unmit.	0.55	0.32	0.01	0.68	0.69	0.01	0.17	0.18	904
Annual (Max)	—	—	—	—	—	—	—	—	—
Unmit.	0.10	0.06	< 0.005	0.12	0.13	< 0.005	0.03	0.03	150

### 2.5. Operations Emissions by Sector, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Mobile	0.35	0.30	0.01	0.91	0.91	0.01	0.23	0.24	1,015
Area	0.33	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	1.86
Energy	< 0.005	0.07	0.01	—	0.01	0.01	—	0.01	140
Water	—	—	—	—	—	—	—	—	10.2

Waste	—	—	—	—	—	—	—	—	18.2
Refrig.	—	—	—	—	—	—	—	—	0.03
Total	0.68	0.37	0.01	0.91	0.92	0.01	0.23	0.24	1,185
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Mobile	0.35	0.35	0.01	0.91	0.91	0.01	0.23	0.24	967
Area	0.25	—	—	—	—	—	—	—	—
Energy	< 0.005	0.07	0.01	—	0.01	0.01	—	0.01	140
Water	—	—	—	—	—	—	—	—	10.2
Waste	—	—	—	—	—	—	—	—	18.2
Refrig.	—	—	—	—	—	—	—	—	0.03
Total	0.60	0.42	0.01	0.91	0.92	0.01	0.23	0.24	1,135
Average Daily	—	—	—	—	—	—	—	—	—
Mobile	0.26	0.25	< 0.005	0.68	0.68	< 0.005	0.17	0.18	734
Area	0.29	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.92
Energy	< 0.005	0.07	0.01	—	0.01	0.01	—	0.01	140
Water	—	—	—	—	—	—	—	—	10.2
Waste	—	—	—	—	—	—	—	—	18.2
Refrig.	—	—	—	—	—	—	—	—	0.03
Total	0.55	0.32	0.01	0.68	0.69	0.01	0.17	0.18	904
Annual	—	—	—	—	—	—	—	—	—
Mobile	0.05	0.05	< 0.005	0.12	0.12	< 0.005	0.03	0.03	122
Area	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.15
Energy	< 0.005	0.01	< 0.005	—	< 0.005	< 0.005	—	< 0.005	23.2
Water	—	—	—	—	—	—	—	—	1.68
Waste	—	—	—	—	—	—	—	—	3.01
Refrig.	—	—	—	—	—	—	—	—	< 0.005
Total	0.10	0.06	< 0.005	0.12	0.13	< 0.005	0.03	0.03	150

## 4. Operations Emissions Details

### 4.1. Mobile Emissions by Land Use

#### 4.1.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
General Office Building	0.35	0.30	0.01	0.91	0.91	0.01	0.23	0.24	1,015
Total	0.35	0.30	0.01	0.91	0.91	0.01	0.23	0.24	1,015
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
General Office Building	0.35	0.35	0.01	0.91	0.91	0.01	0.23	0.24	967
Total	0.35	0.35	0.01	0.91	0.91	0.01	0.23	0.24	967
Annual	—	—	—	—	—	—	—	—	—
General Office Building	0.05	0.05	< 0.005	0.12	0.12	< 0.005	0.03	0.03	122
Total	0.05	0.05	< 0.005	0.12	0.12	< 0.005	0.03	0.03	122

### 4.2. Energy

#### 4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—

General Office Building	—	—	—	—	—	—	—	—	61.3
Total	—	—	—	—	—	—	—	—	61.3
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	61.3
Total	—	—	—	—	—	—	—	—	61.3
Annual	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	10.1
Total	—	—	—	—	—	—	—	—	10.1

#### 4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
General Office Building	< 0.005	0.07	0.01	—	0.01	0.01	—	0.01	79.0
Total	< 0.005	0.07	0.01	—	0.01	0.01	—	0.01	79.0
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
General Office Building	< 0.005	0.07	0.01	—	0.01	0.01	—	0.01	79.0
Total	< 0.005	0.07	0.01	—	0.01	0.01	—	0.01	79.0
Annual	—	—	—	—	—	—	—	—	—
General Office Building	< 0.005	0.01	< 0.005	—	< 0.005	< 0.005	—	< 0.005	13.1
Total	< 0.005	0.01	< 0.005	—	< 0.005	< 0.005	—	< 0.005	13.1



### 4.3. Area Emissions by Source

#### 4.3.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Consumer Products	0.22	—	—	—	—	—	—	—	—
Architectural Coatings	0.03	—	—	—	—	—	—	—	—
Landscape Equipment	0.07	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	1.86
Total	0.33	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	1.86
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Consumer Products	0.22	—	—	—	—	—	—	—	—
Architectural Coatings	0.03	—	—	—	—	—	—	—	—
Total	0.25	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—
Consumer Products	0.04	—	—	—	—	—	—	—	—
Architectural Coatings	0.01	—	—	—	—	—	—	—	—
Landscape Equipment	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.15
Total	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.15

### 4.4. Water Emissions by Land Use

## 4.4.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	10.2
Total	—	—	—	—	—	—	—	—	10.2
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	10.2
Total	—	—	—	—	—	—	—	—	10.2
Annual	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	1.68
Total	—	—	—	—	—	—	—	—	1.68

## 4.5. Waste Emissions by Land Use

## 4.5.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	18.2
Total	—	—	—	—	—	—	—	—	18.2
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	18.2

Total	—	—	—	—	—	—	—	—	18.2
Annual	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	3.01
Total	—	—	—	—	—	—	—	—	3.01

## 4.6. Refrigerant Emissions by Land Use

### 4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	0.03
Total	—	—	—	—	—	—	—	—	0.03
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	0.03
Total	—	—	—	—	—	—	—	—	0.03
Annual	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	< 0.005
Total	—	—	—	—	—	—	—	—	< 0.005

## 4.7. Offroad Emissions By Equipment Type

### 4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—

#### 4.8. Stationary Emissions By Equipment Type

##### 4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—

#### 4.9. User Defined Emissions By Equipment Type

##### 4.9.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—

Total	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—

#### 4.10. Soil Carbon Accumulation By Vegetation Type

##### 4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—

##### 4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—

Total	—	—	—	—	—	—	—	—	—
-------	---	---	---	---	---	---	---	---	---

#### 4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—

Subtotal	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—

## 5. Activity Data

### 5.9. Operational Mobile Sources

#### 5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
General Office Building	112	25.4	8.08	30,955	1,292	293	93.1	356,956

### 5.10. Operational Area Sources

#### 5.10.1. Hearths

##### 5.10.1.1. Unmitigated

#### 5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
0	0.00	15,533	5,178	—

#### 5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	180

## 5.11. Operational Energy Consumption

### 5.11.1. Unmitigated

#### Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
General Office Building	219,201	100.0	0.0330	0.0040	245,934

## 5.12. Operational Water and Wastewater Consumption

### 5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
General Office Building	1,840,433	0.00

## 5.13. Operational Waste Generation

### 5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
General Office Building	9.63	—

## 5.14. Operational Refrigeration and Air Conditioning Equipment

### 5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
General Office Building	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
General Office Building	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0



## 5.15. Operational Off-Road Equipment

### 5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
----------------	-----------	-------------	----------------	---------------	------------	-------------

## 5.16. Stationary Sources

### 5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
----------------	-----------	----------------	---------------	----------------	------------	-------------

### 5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)
----------------	-----------	--------	--------------------------	------------------------------	------------------------------

## 5.17. User Defined

Equipment Type	Fuel Type
----------------	-----------

## 5.18. Vegetation

### 5.18.1. Land Use Change

#### 5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
--------------------------	----------------------	---------------	-------------

### 5.18.1. Biomass Cover Type

#### 5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
--------------------	---------------	-------------

### 5.18.2. Sequestration

#### 5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
-----------	--------	------------------------------	------------------------------

## 6. Climate Risk Detailed Report

### 6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	11.8	annual days of extreme heat
Extreme Precipitation	4.05	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	10.7	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento–San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters

Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

### 6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
----------------	----------------	-------------------	-------------------------	---------------------

Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	0	0	0	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

### 6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	1	1	1	2

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

## 6.4. Climate Risk Reduction Measures

# 7. Health and Equity Details

## 7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	10.6
AQ-PM	16.4
AQ-DPM	87.6
Drinking Water	29.1
Lead Risk Housing	96.6
Pesticides	0.00
Toxic Releases	25.1
Traffic	94.4
Effect Indicators	—
CleanUp Sites	82.2
Groundwater	71.7
Haz Waste Facilities/Generators	91.9
Impaired Water Bodies	0.00
Solid Waste	67.4
Sensitive Population	—
Asthma	23.9
Cardio-vascular	10.4
Low Birth Weights	45.3
Socioeconomic Factor Indicators	—

Education	78.5
Housing	86.1
Linguistic	87.2
Poverty	56.8
Unemployment	36.4

## 7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	42.61516746
Employed	87.75824458
Median HI	40.5363788
Education	—
Bachelor's or higher	33.61991531
High school enrollment	100
Preschool enrollment	68.52303349
Transportation	—
Auto Access	16.95110997
Active commuting	77.53111767
Social	—
2-parent households	34.64647761
Voting	49.83959964
Neighborhood	—
Alcohol availability	49.37764661
Park access	18.02900038
Retail density	78.37803157

Supermarket access	71.53856025
Tree canopy	69.94738868
Housing	—
Homeownership	32.22122418
Housing habitability	26.98575645
Low-inc homeowner severe housing cost burden	15.44976261
Low-inc renter severe housing cost burden	56.30694213
Uncrowded housing	19.8639805
Health Outcomes	—
Insured adults	48.91569357
Arthritis	0.0
Asthma ER Admissions	81.6
High Blood Pressure	0.0
Cancer (excluding skin)	0.0
Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	56.1
Cognitively Disabled	78.9
Physically Disabled	69.8
Heart Attack ER Admissions	92.6
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	19.6
Physical Health Not Good	0.0

Stroke	0.0
Health Risk Behaviors	—
Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	13.0
Children	10.6
Elderly	82.5
English Speaking	22.4
Foreign-born	77.9
Outdoor Workers	25.6
Climate Change Adaptive Capacity	—
Impervious Surface Cover	46.6
Traffic Density	83.5
Traffic Access	65.0
Other Indices	—
Hardship	69.0
Other Decision Support	—
2016 Voting	43.5

### 7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	60.0
Healthy Places Index Score for Project Location (b)	52.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No

Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

## 7.4. Health & Equity Measures

No Health & Equity Measures selected.

## 7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

## 7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

# 8. User Changes to Default Data

Screen	Justification
Characteristics: Utility Information	Menlo Park default clean energy provider is Peninsula Clean Energy.
Operations: Vehicle Data	Provided trip gen.
Operations: Water and Waste Water	Wastewater treatment 100% aerobic - no septic tanks or lagoons.



**Attachment 2: Project Construction Emissions and Health Risk Calculations**

3705 Haven Ave, Menlo Park, CA  
 Construction Health Impact Summary

Maximum Impacts at MEI Location - Without Mitigation

Emissions Year	Maximum Concentrations		Cancer Risk (per million) Infant/Child	Hazard Index (-)	Maximum Annual PM2.5 Concentration (µg/m <sup>3</sup> )
	Exhaust PM10/DPM (µg/m <sup>3</sup> )	Fugitive PM2.5 (µg/m <sup>3</sup> )			
	2024 + 2025	0.0405	0.0164	7.20	0.01
2026	0.0030	0.0005	0.50	0.00	0.00
<b>Total</b>	-	-	<b>7.70</b>		-
<b>Maximum</b>	0.0405	0.0164	-	<b>0.01</b>	<b>0.07</b>

3705 Haven Ave, Menlo Park, CA

**DPM Construction Emissions and Modeling Emission Rates - Unmitigated**

Construction Year	Activity	DPM (ton/year)	Source Type	No. Sources	DPM Emissions			Emissions per Point Source (g/s)
					(lb/yr)	(lb/hr)	(g/s)	
2024 + 2025	Construction	0.0208	Point	62	41.7	0.01038	1.31E-03	2.11E-05
2026	Construction	0.0016	Point	62	3.1	0.00078	9.78E-05	1.58E-06
<b>Total</b>		<b>0.0224</b>			<b>44.8</b>	<b>0.0112</b>	<b>0.0014</b>	

Emissions assumed to be evenly distributed over each construction areas

hr/day = 11 (7am - 6pm)  
 days/yr = 365  
 hours/year = 4015

3705 Haven Ave, Menlo Park, CA

**PM2.5 Fugitive Dust Construction Emissions for Modeling**

Construction Year	Activity	Area Source	PM2.5 Emissions				Modeled Area (m <sup>2</sup> )	DPM Emission Rate (g/s/m <sup>2</sup> )
			(ton/year)	(lb/yr)	(lb/hr)	(g/s)		
2024 + 2025	Construction	CON_FUG	0.0064	12.9	0.00320	4.03E-04	2963.9	1.36E-07
2026	Construction	CON_FUG	0.0002	0.4	0.00011	1.38E-05	2963.9	4.67E-09
<b>Total</b>			<b>0.0066</b>	<b>13.3</b>	<b>0.0033</b>	<b>0.0004</b>		

Emissions assumed to be evenly distributed over each construction areas

hr/day = 11  
 days/yr = 365  
 hours/year = 4015

**3705 Haven Ave, Menlo Park, CA - Construction Impacts - Without Mitigation  
Maximum DPM Cancer Risk and PM2.5 Calculations From Construction  
Impacts at Off-Site MEI Location - 10.7 meter receptor height**

Cancer Risk (per million) = CPF x Inhalation Dose x ASF x ED/AT x FAH x 1.0E6

Where: CPF = Cancer potency factor (mg/kg-day)<sup>1</sup>  
 ASF = Age sensitivity factor for specified age group  
 ED = Exposure duration (years)  
 AT = Averaging time for lifetime cancer risk (years)  
 FAH = Fraction of time spent at home (unitless)

Inhalation Dose = C<sub>air</sub> x DBR x A x (EF/365) x 10<sup>-6</sup>

Where: C<sub>air</sub> = concentration in air (µg/m<sup>3</sup>)  
 DBR = daily breathing rate (L/kg body weight-day)  
 A = Inhalation absorption factor  
 EF = Exposure frequency (days/year)  
 10<sup>-6</sup> = Conversion factor

Values

Age --> Parameter	Infant/Child			Adult
	3rd Trimester	0 - 2	2 - 16	16 - 30
ASF =	10	10	3	1
CPF =	1.10E+00	1.10E+00	1.10E+00	1.10E+00
DBR* =	361	1090	572	261
A =	1	1	1	1
EF =	350	350	350	350
AT =	70	70	70	70
FAH =	1.00	1.00	1.00	0.73

\* 95th percentile breathing rates for infants and 80th percentile for children and adults

**Construction Cancer Risk by Year - Maximum Impact Receptor Location**

Exposure Year	Exposure Duration (years)	Age	Infant/Child - Exposure Information			Infant/Child Cancer Risk (per million)	Adult - Exposure Information			Adult Cancer Risk (per million)
			DPM Conc (ug/m3)		Age Sensitivity Factor		Modeled		Age Sensitivity Factor	
			Year	Annual			Year	Annual		
0	0.25	-0.25 - 0*	2024 + 2025	0.0044	10	0.06	2024 + 2025	0.0044	-	-
1	1	0 - 1	2024 + 2025	0.0044	10	0.72	2024 + 2025	0.0044	1	0.01
2	1	1 - 2	2026	0.0003	10	0.05	2026	0.0003	1	0.00
3	1	2 - 3		0.0000	3	0.00		0.0000	1	0.00
4	1	3 - 4		0.0000	3	0.00		0.0000	1	0.00
5	1	4 - 5		0.0000	3	0.00		0.0000	1	0.00
6	1	5 - 6		0.0000	3	0.00		0.0000	1	0.00
7	1	6 - 7		0.0000	3	0.00		0.0000	1	0.00
8	1	7 - 8		0.0000	3	0.00		0.0000	1	0.00
9	1	8 - 9		0.0000	3	0.00		0.0000	1	0.00
10	1	9 - 10		0.0000	3	0.00		0.0000	1	0.00
11	1	10 - 11		0.0000	3	0.00		0.0000	1	0.00
12	1	11 - 12		0.0000	3	0.00		0.0000	1	0.00
13	1	12 - 13		0.0000	3	0.00		0.0000	1	0.00
14	1	13 - 14		0.0000	3	0.00		0.0000	1	0.00
15	1	14 - 15		0.0000	3	0.00		0.0000	1	0.00
16	1	15 - 16		0.0000	3	0.00		0.0000	1	0.00
17	1	16-17		0.0000	1	0.00		0.0000	1	0.00
18	1	17-18		0.0000	1	0.00		0.0000	1	0.00
19	1	18-19		0.0000	1	0.00		0.0000	1	0.00
20	1	19-20		0.0000	1	0.00		0.0000	1	0.00
21	1	20-21		0.0000	1	0.00		0.0000	1	0.00
22	1	21-22		0.0000	1	0.00		0.0000	1	0.00
23	1	22-23		0.0000	1	0.00		0.0000	1	0.00
24	1	23-24		0.0000	1	0.00		0.0000	1	0.00
25	1	24-25		0.0000	1	0.00		0.0000	1	0.00
26	1	25-26		0.0000	1	0.00		0.0000	1	0.00
27	1	26-27		0.0000	1	0.00		0.0000	1	0.00
28	1	27-28		0.0000	1	0.00		0.0000	1	0.00
29	1	28-29		0.0000	1	0.00		0.0000	1	0.00
30	1	29-30		0.0000	1	0.00		0.0000	1	0.00
<b>Total Increased Cancer Risk</b>						<b>0.83</b>				<b>0.01</b>

\* Third trimester of pregnancy

Hazard Index	Maximum	
	Fugitive PM2.5	Total PM2.5
0.00	0.002	0.01
0.00	0.000	0.00

**3705 Haven Ave, Menlo Park, CA - Construction Impacts - Without Mitigation  
Maximum DPM Cancer Risk and PM2.5 Calculations From Construction  
Impacts at Off-Site MEI Location - 7.6 meter receptor height**

Cancer Risk (per million) = CPF x Inhalation Dose x ASF x ED/AT x FAH x 1.0E6

- Where: CPF = Cancer potency factor (mg/kg-day)<sup>1</sup>  
 ASF = Age sensitivity factor for specified age group  
 ED = Exposure duration (years)  
 AT = Averaging time for lifetime cancer risk (years)  
 FAH = Fraction of time spent at home (unitless)

Inhalation Dose = C<sub>air</sub> x DBR x A x (EF/365) x 10<sup>-6</sup>

- Where: C<sub>air</sub> = concentration in air (µg/m<sup>3</sup>)  
 DBR = daily breathing rate (L/kg body weight-day)  
 A = Inhalation absorption factor  
 EF = Exposure frequency (days/year)  
 10<sup>-6</sup> = Conversion factor

**Values**

Age --> Parameter	Infant/Child			Adult
	3rd Trimester	0 - 2	2 - 16	16 - 30
ASF =	10	10	3	1
CPF =	1.10E+00	1.10E+00	1.10E+00	1.10E+00
DBR* =	361	1090	572	261
A =	1	1	1	1
EF =	350	350	350	350
AT =	70	70	70	70
FAH =	1.00	1.00	1.00	0.73

\* 95th percentile breathing rates for infants and 80th percentile for children and adults

**Construction Cancer Risk by Year - Maximum Impact Receptor Location**

Exposure Year	Exposure Duration (years)	Age	Infant/Child - Exposure Information			Infant/Child Cancer Risk (per million)	Adult - Exposure Information			Adult Cancer Risk (per million)
			DPM Conc (ug/m3)		Age Sensitivity Factor		Modeled		Age Sensitivity Factor	
			Year	Annual			Year	Annual		
0	0.25	-0.25 - 0*	2024 + 2025	0.0405	10	0.55	2024 + 2025	0.0405	-	-
1	1	0 - 1	2024 + 2025	0.0405	10	6.65	2024 + 2025	0.0405	1	0.12
2	1	1 - 2	2026	0.0030	10	0.50	2026	0.0030	1	0.01
3	1	2 - 3		0.0000	3	0.00		0.0000	1	0.00
4	1	3 - 4		0.0000	3	0.00		0.0000	1	0.00
5	1	4 - 5		0.0000	3	0.00		0.0000	1	0.00
6	1	5 - 6		0.0000	3	0.00		0.0000	1	0.00
7	1	6 - 7		0.0000	3	0.00		0.0000	1	0.00
8	1	7 - 8		0.0000	3	0.00		0.0000	1	0.00
9	1	8 - 9		0.0000	3	0.00		0.0000	1	0.00
10	1	9 - 10		0.0000	3	0.00		0.0000	1	0.00
11	1	10 - 11		0.0000	3	0.00		0.0000	1	0.00
12	1	11 - 12		0.0000	3	0.00		0.0000	1	0.00
13	1	12 - 13		0.0000	3	0.00		0.0000	1	0.00
14	1	13 - 14		0.0000	3	0.00		0.0000	1	0.00
15	1	14 - 15		0.0000	3	0.00		0.0000	1	0.00
16	1	15 - 16		0.0000	3	0.00		0.0000	1	0.00
17	1	16 - 17		0.0000	1	0.00		0.0000	1	0.00
18	1	17 - 18		0.0000	1	0.00		0.0000	1	0.00
19	1	18 - 19		0.0000	1	0.00		0.0000	1	0.00
20	1	19 - 20		0.0000	1	0.00		0.0000	1	0.00
21	1	20 - 21		0.0000	1	0.00		0.0000	1	0.00
22	1	21 - 22		0.0000	1	0.00		0.0000	1	0.00
23	1	22 - 23		0.0000	1	0.00		0.0000	1	0.00
24	1	23 - 24		0.0000	1	0.00		0.0000	1	0.00
25	1	24 - 25		0.0000	1	0.00		0.0000	1	0.00
26	1	25 - 26		0.0000	1	0.00		0.0000	1	0.00
27	1	26 - 27		0.0000	1	0.00		0.0000	1	0.00
28	1	27 - 28		0.0000	1	0.00		0.0000	1	0.00
29	1	28 - 29		0.0000	1	0.00		0.0000	1	0.00
30	1	29 - 30		0.0000	1	0.00		0.0000	1	0.00
<b>Total Increased Cancer Risk</b>						<b>7.70</b>				<b>0.12</b>

\* Third trimester of pregnancy

Hazard Index	Maximum	
	Fugitive PM2.5	Total PM2.5
0.01	0.016	0.06
0.00	0.001	0.00

**3705 Haven Ave, Menlo Park, CA - Construction Impacts - Without Mitigation  
Maximum DPM Cancer Risk and PM2.5 Calculations From Construction  
Impacts at Off-Site MEI Location - 4.5 meter receptor height**

Cancer Risk (per million) = CPF x Inhalation Dose x ASF x ED/AT x FAH x 1.0E6

- Where: CPF = Cancer potency factor (mg/kg-day)<sup>1</sup>  
 ASF = Age sensitivity factor for specified age group  
 ED = Exposure duration (years)  
 AT = Averaging time for lifetime cancer risk (years)  
 FAH = Fraction of time spent at home (unitless)

Inhalation Dose = C<sub>air</sub> x DBR x A x (EF/365) x 10<sup>-6</sup>

- Where: C<sub>air</sub> = concentration in air (µg/m<sup>3</sup>)  
 DBR = daily breathing rate (L/kg body weight-day)  
 A = Inhalation absorption factor  
 EF = Exposure frequency (days/year)  
 10<sup>-6</sup> = Conversion factor

**Values**

Age --> Parameter	Infant/Child			Adult
	3rd Trimester	0 - 2	2 - 16	16 - 30
ASF =	10	10	3	1
CPF =	1.10E+00	1.10E+00	1.10E+00	1.10E+00
DBR* =	361	1090	572	261
A =	1	1	1	1
EF =	350	350	350	350
AT =	70	70	70	70
FAH =	1.00	1.00	1.00	0.73

\* 95th percentile breathing rates for infants and 80th percentile for children and adults

**Construction Cancer Risk by Year - Maximum Impact Receptor Location**

Exposure Year	Exposure Duration (years)	Age	Infant/Child - Exposure Information			Infant/Child Cancer Risk (per million)	Adult - Exposure Information			Adult Cancer Risk (per million)
			DPM Conc (ug/m3)		Age Sensitivity Factor		Modeled		Age Sensitivity Factor	
			Year	Annual			Year	Annual		
0	0.25	-0.25 - 0*	2024 + 2025	0.0249	10	0.34	2024 + 2025	0.0249	-	-
1	1	0 - 1	2024 + 2025	0.0249	10	4.08	2024 + 2025	0.0249	1	0.07
2	1	1 - 2	2026	0.0019	10	0.31	2026	0.0019	1	0.01
3	1	2 - 3		0.0000	3	0.00		0.0000	1	0.00
4	1	3 - 4		0.0000	3	0.00		0.0000	1	0.00
5	1	4 - 5		0.0000	3	0.00		0.0000	1	0.00
6	1	5 - 6		0.0000	3	0.00		0.0000	1	0.00
7	1	6 - 7		0.0000	3	0.00		0.0000	1	0.00
8	1	7 - 8		0.0000	3	0.00		0.0000	1	0.00
9	1	8 - 9		0.0000	3	0.00		0.0000	1	0.00
10	1	9 - 10		0.0000	3	0.00		0.0000	1	0.00
11	1	10 - 11		0.0000	3	0.00		0.0000	1	0.00
12	1	11 - 12		0.0000	3	0.00		0.0000	1	0.00
13	1	12 - 13		0.0000	3	0.00		0.0000	1	0.00
14	1	13 - 14		0.0000	3	0.00		0.0000	1	0.00
15	1	14 - 15		0.0000	3	0.00		0.0000	1	0.00
16	1	15 - 16		0.0000	3	0.00		0.0000	1	0.00
17	1	16-17		0.0000	1	0.00		0.0000	1	0.00
18	1	17-18		0.0000	1	0.00		0.0000	1	0.00
19	1	18-19		0.0000	1	0.00		0.0000	1	0.00
20	1	19-20		0.0000	1	0.00		0.0000	1	0.00
21	1	20-21		0.0000	1	0.00		0.0000	1	0.00
22	1	21-22		0.0000	1	0.00		0.0000	1	0.00
23	1	22-23		0.0000	1	0.00		0.0000	1	0.00
24	1	23-24		0.0000	1	0.00		0.0000	1	0.00
25	1	24-25		0.0000	1	0.00		0.0000	1	0.00
26	1	25-26		0.0000	1	0.00		0.0000	1	0.00
27	1	26-27		0.0000	1	0.00		0.0000	1	0.00
28	1	27-28		0.0000	1	0.00		0.0000	1	0.00
29	1	28-29		0.0000	1	0.00		0.0000	1	0.00
30	1	29-30		0.0000	1	0.00		0.0000	1	0.00
<b>Total Increased Cancer Risk</b>						<b>4.73</b>				<b>0.08</b>

\* Third trimester of pregnancy

Hazard Index	Maximum	
	Fugitive PM2.5	Total PM2.5
0.00	0.034	0.06
0.00	0.001	0.00

**3705 Haven Ave, Menlo Park, CA - Construction Impacts - Without Mitigation  
Maximum DPM Cancer Risk and PM2.5 Calculations From Construction  
Impacts at Off-Site MEI Location - 1.5 meter receptor height**

Cancer Risk (per million) = CPF x Inhalation Dose x ASF x ED/AT x FAH x 1.0E6

- Where: CPF = Cancer potency factor (mg/kg-day)<sup>1</sup>  
 ASF = Age sensitivity factor for specified age group  
 ED = Exposure duration (years)  
 AT = Averaging time for lifetime cancer risk (years)  
 FAH = Fraction of time spent at home (unitless)

Inhalation Dose = C<sub>air</sub> x DBR x A x (EF/365) x 10<sup>-6</sup>

- Where: C<sub>air</sub> = concentration in air (µg/m<sup>3</sup>)  
 DBR = daily breathing rate (L/kg body weight-day)  
 A = Inhalation absorption factor  
 EF = Exposure frequency (days/year)  
 10<sup>-6</sup> = Conversion factor

**Values**

Age --> Parameter	Infant/Child			Adult
	3rd Trimester	0 - 2	2 - 16	16 - 30
ASF =	10	10	3	1
CPF =	1.10E+00	1.10E+00	1.10E+00	1.10E+00
DBR* =	361	1090	572	261
A =	1	1	1	1
EF =	350	350	350	350
AT =	70	70	70	70
FAH =	1.00	1.00	1.00	0.73

\* 95th percentile breathing rates for infants and 80th percentile for children and adults

**Construction Cancer Risk by Year - Maximum Impact Receptor Location**

Exposure Year	Exposure Duration (years)	Age	Infant/Child - Exposure Information			Infant/Child Cancer Risk (per million)	Adult - Exposure Information			Adult Cancer Risk (per million)
			DPM Conc (ug/m3)		Age Sensitivity Factor		Modeled		Age Sensitivity Factor	
			Year	Annual			Year	Annual		
0	0.25	-0.25 - 0*	2024 + 2025	0.0140	10	0.19	2024 + 2025	0.0140	-	-
1	1	0 - 1	2024 + 2025	0.0140	10	2.31	2024 + 2025	0.0140	1	0.04
2	1	1 - 2	2026	0.0011	10	0.17	2026	0.0011	1	0.00
3	1	2 - 3		0.0000	3	0.00		0.0000	1	0.00
4	1	3 - 4		0.0000	3	0.00		0.0000	1	0.00
5	1	4 - 5		0.0000	3	0.00		0.0000	1	0.00
6	1	5 - 6		0.0000	3	0.00		0.0000	1	0.00
7	1	6 - 7		0.0000	3	0.00		0.0000	1	0.00
8	1	7 - 8		0.0000	3	0.00		0.0000	1	0.00
9	1	8 - 9		0.0000	3	0.00		0.0000	1	0.00
10	1	9 - 10		0.0000	3	0.00		0.0000	1	0.00
11	1	10 - 11		0.0000	3	0.00		0.0000	1	0.00
12	1	11 - 12		0.0000	3	0.00		0.0000	1	0.00
13	1	12 - 13		0.0000	3	0.00		0.0000	1	0.00
14	1	13 - 14		0.0000	3	0.00		0.0000	1	0.00
15	1	14 - 15		0.0000	3	0.00		0.0000	1	0.00
16	1	15 - 16		0.0000	3	0.00		0.0000	1	0.00
17	1	16-17		0.0000	1	0.00		0.0000	1	0.00
18	1	17-18		0.0000	1	0.00		0.0000	1	0.00
19	1	18-19		0.0000	1	0.00		0.0000	1	0.00
20	1	19-20		0.0000	1	0.00		0.0000	1	0.00
21	1	20-21		0.0000	1	0.00		0.0000	1	0.00
22	1	21-22		0.0000	1	0.00		0.0000	1	0.00
23	1	22-23		0.0000	1	0.00		0.0000	1	0.00
24	1	23-24		0.0000	1	0.00		0.0000	1	0.00
25	1	24-25		0.0000	1	0.00		0.0000	1	0.00
26	1	25-26		0.0000	1	0.00		0.0000	1	0.00
27	1	26-27		0.0000	1	0.00		0.0000	1	0.00
28	1	27-28		0.0000	1	0.00		0.0000	1	0.00
29	1	28-29		0.0000	1	0.00		0.0000	1	0.00
30	1	29-30		0.0000	1	0.00		0.0000	1	0.00
<b>Total Increased Cancer Risk</b>						<b>2.67</b>				<b>0.04</b>

\* Third trimester of pregnancy

Hazard Index	Maximum	
	Fugitive PM2.5	Total PM2.5
0.00	0.057	0.07
0.00	0.002	0.00

**Attachment 3: Health Risk Modeling Information and Calculations**



File Name: Highways 2024.EF  
 CT-EMFAC2021 Version: 1.0.2.0  
 Run Date: 1/23/2024 11:26:17 AM  
 Area: San Mateo (SF)  
 Analysis Year: 2024  
 Season: Annual

=====

Vehicle Category	VMT Fraction	Diesel VMT Fraction	Gas VMT
Fraction	Across Category	Within Category	Within
Category			
Truck 1	0.027	0.379	0.614
Truck 2	0.018	0.827	0.133
Non-Truck	0.955	0.010	0.934

=====

Road Type:	Freeway		
Silt Loading Factor:	CARB	0.015 g/m2	
Precipitation Correction:	CARB	P = 74 days	N = 365
days			

=====

Fleet Average Running Exhaust Emission Factors (grams/veh-mile)

Pollutant Name	60 mph	65 mph	70 mph
PM2.5	0.001423	0.001614	0.001721
TOG	0.017419	0.019285	0.020641
Diesel PM	0.000538	0.000602	0.000604

=====

Fleet Average Running Loss Emission Factors (grams/veh-hour)

Pollutant Name	Emission Factor
TOG	0.873825

=====

Fleet Average Tire Wear Factors (grams/veh-mile)

Pollutant Name	Emission Factor
PM2.5	0.002077

=====

Fleet Average Brake Wear Factors (grams/veh-mile)

Pollutant Name	60 mph	65 mph	70 mph
PM2.5	0.002300	0.002000	0.002000

=====

Fleet Average Road Dust Factors (grams/veh-mile)

Pollutant Name	Emission Factor
PM2.5	0.008031

=====END=====

File Name: Highways 2027.EF  
 CT-EMFAC2021 Version: 1.0.2.0  
 Run Date: 1/23/2024 11:26:27 AM  
 Area: San Mateo (SF)  
 Analysis Year: 2027  
 Season: Annual

=====

Vehicle Category	VMT Fraction	Diesel VMT Fraction	Gas VMT
Fraction	Across Category	Within Category	Within
Category			
Truck 1	0.027	0.387	0.573
Truck 2	0.018	0.801	0.132
Non-Truck	0.955	0.010	0.924

=====

Road Type:	Freeway		
Silt Loading Factor:	CARB	0.015 g/m2	
Precipitation Correction:	CARB	P = 74 days	N = 365
days			

=====

Fleet Average Running Exhaust Emission Factors (grams/veh-mile)

Pollutant Name	60 mph	65 mph	70 mph
PM2.5	0.001211	0.001381	0.001471
TOG	0.013994	0.015447	0.016494
Diesel PM	0.000451	0.000514	0.000515

=====

Fleet Average Running Loss Emission Factors (grams/veh-hour)

Pollutant Name	Emission Factor
TOG	0.785562

=====

Fleet Average Tire Wear Factors (grams/veh-mile)

Pollutant Name	Emission Factor
PM2.5	0.002077

=====

Fleet Average Brake Wear Factors (grams/veh-mile)

Pollutant Name	60 mph	65 mph	70 mph
PM2.5	0.002293	0.001992	0.001992

=====

Fleet Average Road Dust Factors (grams/veh-mile)

Pollutant Name	Emission Factor
PM2.5	0.008195

=====END=====

File Name: Local Roadways 2024.EF  
 CT-EMFAC2021 Version: 1.0.2.0  
 Run Date: 1/23/2024 1:33:34 PM  
 Area: San Mateo (SF)  
 Analysis Year: 2024  
 Season: Annual

=====

Vehicle Category	VMT Fraction	Diesel VMT Fraction	Gas VMT
Fraction	Across Category	Within Category	Within
Category			
Truck 1	0.021	0.379	0.614
Truck 2	0.010	0.827	0.133
Non-Truck	0.969	0.010	0.934

=====

Road Type: Major/Collector  
 Silt Loading Factor: CARB 0.032 g/m2  
 Precipitation Correction: CARB P = 74 days N = 365 days

=====

Fleet Average Running Exhaust Emission Factors (grams/veh-mile)

Pollutant Name	45 mph
PM2.5	0.001139
TOG	0.016339
Diesel PM	0.000287

=====

Fleet Average Running Loss Emission Factors (grams/veh-hour)

Pollutant Name	Emission Factor
TOG	0.877121

=====

Fleet Average Tire Wear Factors (grams/veh-mile)

Pollutant Name	Emission Factor
PM2.5	0.002050

=====

Fleet Average Brake Wear Factors (grams/veh-mile)

Pollutant Name	45 mph
PM2.5	0.003914

=====

Fleet Average Road Dust Factors (grams/veh-mile)

Pollutant Name	Emission Factor
PM2.5	0.015192

=====END=====

File Name: Local Roadways 2027.EF  
 CT-EMFAC2021 Version: 1.0.2.0  
 Run Date: 1/23/2024 1:33:40 PM  
 Area: San Mateo (SF)  
 Analysis Year: 2027  
 Season: Annual

=====

Vehicle Category	VMT Fraction	Diesel VMT Fraction	Gas VMT
Fraction	Across Category	Within Category	Within
Category			
Truck 1	0.021	0.387	0.573
Truck 2	0.010	0.801	0.132
Non-Truck	0.969	0.010	0.924

=====

Road Type: Major/Collector  
 Silt Loading Factor: CARB 0.032 g/m2  
 Precipitation Correction: CARB P = 74 days N = 365 days

=====

Fleet Average Running Exhaust Emission Factors (grams/veh-mile)

Pollutant Name	45 mph
PM2.5	0.000967
TOG	0.013207
Diesel PM	0.000234

=====

Fleet Average Running Loss Emission Factors (grams/veh-hour)

Pollutant Name	Emission Factor
TOG	0.789502

=====

Fleet Average Tire Wear Factors (grams/veh-mile)

Pollutant Name	Emission Factor
PM2.5	0.002050

=====

Fleet Average Brake Wear Factors (grams/veh-mile)

Pollutant Name	45 mph
PM2.5	0.003903

=====

Fleet Average Road Dust Factors (grams/veh-mile)

Pollutant Name	Emission Factor
PM2.5	0.015525

=====END=====



**3705 Haven Ave, Menlo Park, CA - Highway 101 Traffic - TACs & PM2.5  
 AERMOD Risk Modeling Parameters and Maximum Concentrations  
 at Project MEI Receptor (7.6 & 1.5 meter receptor height)**

**Emission Year** 2024  
**Receptor Information**  
 Number of Receptors 2  
 Receptor Height 7.6 & 1.5 meters  
 Receptor Distances At Project MEI locations

**Meteorological Conditions**  
 BAAQMD San Carlos Airport Met Data 2011 - 2015  
 Land Use Classification Urban  
 Wind Speed Variable  
 Wind Direction Variable

**Construction MEI Cancer Risk Maximum Concentrations**

Meteorological Data Years	Concentration (µg/m3)		
	DPM	Exhaust TOG	Evaporative TOG
2011 - 2015	0.0066	0.2350	0.1539

**Construction MEI PM2.5 Maximum Concentrations**

Meteorological Data Years	PM2.5 Concentration (µg/m3)		
	Total PM2.5	Fugitive PM2.5	Vehicle PM2.5
2011 - 2015	0.1890	0.1664	0.0226

**3705 Haven Ave, Menlo Park, CA - Highway 101 Traffic Cancer Risk  
Impacts at Project MEIs - 7.6 & 1.5 meter receptor height  
30 Year Residential Exposure**

**Cancer Risk Calculation Method**

Cancer Risk (per million) = CPF x Inhalation Dose x ASF x ED/AT x FAH x 1.0E6

Where: CPF = Cancer potency factor (mg/kg-day)<sup>-1</sup>  
 ASF = Age sensitivity factor for specified age group  
 ED = Exposure duration (years)  
 AT = Averaging time for lifetime cancer risk (years)  
 FAH = Fraction of time spent at home (unitless)

Inhalation Dose = C<sub>air</sub> x DBR x A x (EF/365) x 10<sup>-6</sup>

Where: C<sub>air</sub> = concentration in air (µg/m<sup>3</sup>)  
 DBR = daily breathing rate (L/kg body weight-day)  
 A = Inhalation absorption factor  
 EF = Exposure frequency (days/year)  
 10<sup>-6</sup> = Conversion factor

**Cancer Potency Factors (mg/kg-day)<sup>-1</sup>**

	TAC	CPF
DPM		1.10E+00
Vehicle TOG Exhaust		6.28E-03
Vehicle TOG Evaporative		3.70E-04

Values

Age -> Parameter	Infant/Child			Adult
	3rd Trimester	0 - 2	2 - 16	16 - 30
ASF =	10	10	3	1
DBR* =	361	1090	572	261
A =	1	1	1	1
EF =	350	350	350	350
AT =	70	70	70	70
FAH =	1.00	1.00	1.00	0.73

\* 95th percentile breathing rates for infants and 80th percentile for children and adults

**Construction Cancer Risk by Year - Maximum Impact Receptor Location**

Exposure Year	Maximum - Exposure Information				Concentration (ug/m3)			Cancer Risk (per million)			TOTAL
	Exposure Duration (years)	Age	Year	Age Sensitivity Factor	DPM	Exhaust TOG	Evaporative TOG	DPM	Exhaust TOG	Evaporative TOG	
0	0.25	-0.25 - 0*	2024	10	0.0066	0.2350	0.1539	0.089	0.018	0.0007	0.11
1	1	0 - 1	2024	10	0.0066	0.2350	0.1539	1.076	0.220	0.0085	1.30
2	1	1 - 2	2025	10	0.0066	0.2350	0.1539	1.076	0.220	0.0085	1.30
3	1	2 - 3	2026	3	0.0066	0.2350	0.1539	0.169	0.035	0.0013	0.21
4	1	3 - 4	2027	3	0.0066	0.2350	0.1539	0.169	0.035	0.0013	0.21
5	1	4 - 5	2028	3	0.0066	0.2350	0.1539	0.169	0.035	0.0013	0.21
6	1	5 - 6	2029	3	0.0066	0.2350	0.1539	0.169	0.035	0.0013	0.21
7	1	6 - 7	2030	3	0.0066	0.2350	0.1539	0.169	0.035	0.0013	0.21
8	1	7 - 8	2031	3	0.0066	0.2350	0.1539	0.169	0.035	0.0013	0.21
9	1	8 - 9	2032	3	0.0066	0.2350	0.1539	0.169	0.035	0.0013	0.21
10	1	9 - 10	2033	3	0.0066	0.2350	0.1539	0.169	0.035	0.0013	0.21
11	1	10 - 11	2034	3	0.0066	0.2350	0.1539	0.169	0.035	0.0013	0.21
12	1	11 - 12	2035	3	0.0066	0.2350	0.1539	0.169	0.035	0.0013	0.21
13	1	12 - 13	2036	3	0.0066	0.2350	0.1539	0.169	0.035	0.0013	0.21
14	1	13 - 14	2037	3	0.0066	0.2350	0.1539	0.169	0.035	0.0013	0.21
15	1	14 - 15	2038	3	0.0066	0.2350	0.1539	0.169	0.035	0.0013	0.21
16	1	15 - 16	2039	3	0.0066	0.2350	0.1539	0.169	0.035	0.0013	0.21
17	1	16-17	2040	1	0.0066	0.2350	0.1539	0.019	0.004	0.0001	0.02
18	1	17-18	2041	1	0.0066	0.2350	0.1539	0.019	0.004	0.0001	0.02
19	1	18-19	2042	1	0.0066	0.2350	0.1539	0.019	0.004	0.0001	0.02
20	1	19-20	2043	1	0.0066	0.2350	0.1539	0.019	0.004	0.0001	0.02
21	1	20-21	2044	1	0.0066	0.2350	0.1539	0.019	0.004	0.0001	0.02
22	1	21-22	2045	1	0.0066	0.2350	0.1539	0.019	0.004	0.0001	0.02
23	1	22-23	2046	1	0.0066	0.2350	0.1539	0.019	0.004	0.0001	0.02
24	1	23-24	2047	1	0.0066	0.2350	0.1539	0.019	0.004	0.0001	0.02
25	1	24-25	2048	1	0.0066	0.2350	0.1539	0.019	0.004	0.0001	0.02
26	1	25-26	2049	1	0.0066	0.2350	0.1539	0.019	0.004	0.0001	0.02
27	1	26-27	2050	1	0.0066	0.2350	0.1539	0.019	0.004	0.0001	0.02
28	1	27-28	2051	1	0.0066	0.2350	0.1539	0.019	0.004	0.0001	0.02
29	1	28-29	2052	1	0.0066	0.2350	0.1539	0.019	0.004	0.0001	0.02
30	1	29-30	2053	1	0.0066	0.2350	0.1539	0.019	0.004	0.0001	0.02
<b>Total Increased Cancer Risk</b>								4.88	0.999	0.039	<b>5.91</b>

\* Third trimester of pregnancy

Maximum  
 Hazard Index 0.00131  
 Fugitive PM2.5 0.17  
 Total PM2.5 0.19

**3705 Haven Ave, Menlo Park, CA - Marsh Road Traffic - TACs & PM2.5  
 AERMOD Risk Modeling Parameters and Maximum Concentrations  
 at Project MEI Receptor (7.6 & 1.5 meter receptor height)**

**Emission Year** 2024  
**Receptor Information**  
 Number of Receptors 2  
 Receptor Height 7.6 & 1.5 meters  
 Receptor Distances At Project MEI locations

**Meteorological Conditions**  
 BAAQMD San Carlos Airport Met Data 2011 - 2015  
 Land Use Classification Urban  
 Wind Speed Variable  
 Wind Direction Variable

**Construction MEI Cancer Risk Maximum Concentrations**

Meteorological Data Years	Concentration (µg/m3)		
	DPM	Exhaust TOG	Evaporative TOG
2011 - 2015	0.0003	0.0144	0.0172

**Construction MEI PM2.5 Maximum Concentrations**

Meteorological Data Years	PM2.5 Concentration (µg/m3)		
	Total PM2.5	Fugitive PM2.5	Vehicle PM2.5
2011 - 2015	0.0214	0.0203	0.0011

**3705 Haven Ave, Menlo Park, CA - Marsh Road Traffic Cancer Risk  
Impacts at Project MEIs - 7.6 & 1.5 meter receptor height  
30 Year Residential Exposure**

**Cancer Risk Calculation Method**

Cancer Risk (per million) = CPF x Inhalation Dose x ASF x ED/AT x FAH x 1.0E6

Where: CPF = Cancer potency factor (mg/kg-day)<sup>-1</sup>  
 ASF = Age sensitivity factor for specified age group  
 ED = Exposure duration (years)  
 AT = Averaging time for lifetime cancer risk (years)  
 FAH = Fraction of time spent at home (unitless)

Inhalation Dose = C<sub>air</sub> x DBR x A x (EF/365) x 10<sup>-6</sup>

Where: C<sub>air</sub> = concentration in air (µg/m<sup>3</sup>)  
 DBR = daily breathing rate (L/kg body weight-day)  
 A = Inhalation absorption factor  
 EF = Exposure frequency (days/year)  
 10<sup>-6</sup> = Conversion factor

**Cancer Potency Factors (mg/kg-day)<sup>-1</sup>**

	TAC	CPF
DPM		1.10E+00
Vehicle TOG Exhaust		6.28E-03
Vehicle TOG Evaporative		3.70E-04

Values

Age -> Parameter	Infant/Child			Adult
	3rd Trimester	0 - 2	2 - 16	16 - 30
ASF =	10	10	3	1
DBR* =	361	1090	572	261
A =	1	1	1	1
EF =	350	350	350	350
AT =	70	70	70	70
FAH =	1.00	1.00	1.00	0.73

\* 95th percentile breathing rates for infants and 80th percentile for children and adults

**Construction Cancer Risk by Year - Maximum Impact Receptor Location**

Exposure Year	Maximum - Exposure Information				Concentration (ug/m3)			Cancer Risk (per million)			TOTAL
	Exposure Duration (years)	Age	Year	Age Sensitivity Factor	DPM	Exhaust TOG	Evaporative TOG	DPM	Exhaust TOG	Evaporative TOG	
0	0.25	-0.25 - 0*	2024	10	0.0003	0.0144	0.0172	0.004	0.001	0.0001	0.00
1	1	0 - 1	2024	10	0.0003	0.0144	0.0172	0.043	0.013	0.0009	0.06
2	1	1 - 2	2025	10	0.0003	0.0144	0.0172	0.043	0.013	0.0009	0.06
3	1	2 - 3	2026	3	0.0003	0.0144	0.0172	0.007	0.002	0.0001	0.01
4	1	3 - 4	2027	3	0.0003	0.0144	0.0172	0.007	0.002	0.0001	0.01
5	1	4 - 5	2028	3	0.0003	0.0144	0.0172	0.007	0.002	0.0001	0.01
6	1	5 - 6	2029	3	0.0003	0.0144	0.0172	0.007	0.002	0.0001	0.01
7	1	6 - 7	2030	3	0.0003	0.0144	0.0172	0.007	0.002	0.0001	0.01
8	1	7 - 8	2031	3	0.0003	0.0144	0.0172	0.007	0.002	0.0001	0.01
9	1	8 - 9	2032	3	0.0003	0.0144	0.0172	0.007	0.002	0.0001	0.01
10	1	9 - 10	2033	3	0.0003	0.0144	0.0172	0.007	0.002	0.0001	0.01
11	1	10 - 11	2034	3	0.0003	0.0144	0.0172	0.007	0.002	0.0001	0.01
12	1	11 - 12	2035	3	0.0003	0.0144	0.0172	0.007	0.002	0.0001	0.01
13	1	12 - 13	2036	3	0.0003	0.0144	0.0172	0.007	0.002	0.0001	0.01
14	1	13 - 14	2037	3	0.0003	0.0144	0.0172	0.007	0.002	0.0001	0.01
15	1	14 - 15	2038	3	0.0003	0.0144	0.0172	0.007	0.002	0.0001	0.01
16	1	15 - 16	2039	3	0.0003	0.0144	0.0172	0.007	0.002	0.0001	0.01
17	1	16-17	2040	1	0.0003	0.0144	0.0172	0.001	0.000	0.0000	0.00
18	1	17-18	2041	1	0.0003	0.0144	0.0172	0.001	0.000	0.0000	0.00
19	1	18-19	2042	1	0.0003	0.0144	0.0172	0.001	0.000	0.0000	0.00
20	1	19-20	2043	1	0.0003	0.0144	0.0172	0.001	0.000	0.0000	0.00
21	1	20-21	2044	1	0.0003	0.0144	0.0172	0.001	0.000	0.0000	0.00
22	1	21-22	2045	1	0.0003	0.0144	0.0172	0.001	0.000	0.0000	0.00
23	1	22-23	2046	1	0.0003	0.0144	0.0172	0.001	0.000	0.0000	0.00
24	1	23-24	2047	1	0.0003	0.0144	0.0172	0.001	0.000	0.0000	0.00
25	1	24-25	2048	1	0.0003	0.0144	0.0172	0.001	0.000	0.0000	0.00
26	1	25-26	2049	1	0.0003	0.0144	0.0172	0.001	0.000	0.0000	0.00
27	1	26-27	2050	1	0.0003	0.0144	0.0172	0.001	0.000	0.0000	0.00
28	1	27-28	2051	1	0.0003	0.0144	0.0172	0.001	0.000	0.0000	0.00
29	1	28-29	2052	1	0.0003	0.0144	0.0172	0.001	0.000	0.0000	0.00
30	1	29-30	2053	1	0.0003	0.0144	0.0172	0.001	0.000	0.0000	0.00
<b>Total Increased Cancer Risk</b>								0.19	0.061	0.004	<b>0.26</b>

\* Third trimester of pregnancy

Maximum  
 Hazard Index 0.00005  
 Fugitive PM2.5 0.02  
 Total PM2.5 0.02

**3705 Haven Ave, Menlo Park, CA - Highway 101 Traffic - TACs & PM2.5  
 AERMOD Risk Modeling Parameters and Maximum Concentrations  
 at Onsite MEI Receptor (4.9 & 9.1 meter receptor height)**

**Emission Year** 2027  
**Receptor Information** Onsite MEI receptor  
 Number of Receptors  
 Receptor Height 4.9 & 9.1 meters  
 Receptor Distances At Onsite MEI location

**Meteorological Conditions**  
 BAAQMD San Carlos Airport Met Data 2011 - 2015  
 Land Use Classification Urban  
 Wind Speed Variable  
 Wind Direction Variable

**Construction MEI Cancer Risk Maximum Concentrations**

Meteorological Data Years	Concentration (µg/m3)			
	DPM	Exhaust TOG	Evaporative TOG	
2011 - 2015	0.0077	0.2447	0.1795	2nd Floor
2011 - 2015	0.0064	0.2181	0.1602	3rd Floor

**Construction MEI PM2.5 Maximum Concentrations**

Meteorological Data Years	PM2.5 Concentration (µg/m3)			
	Total PM2.5	Fugitive PM2.5	Vehicle PM2.5	
2011 - 2015	0.2110	0.1892	0.0218	2nd Floor
2011 - 2015	0.1882	0.1688	0.0194	3rd Floor

**3705 Haven Ave, Menlo Park, CA - Highway 101 Traffic Cancer Risk  
Impacts at Onsite MEI - 4.9 meter receptor height  
30 Year Residential Exposure**

**Cancer Risk Calculation Method**

Cancer Risk (per million) = CPF x Inhalation Dose x ASF x ED/AT x FAH x 1.0E6

Where: CPF = Cancer potency factor (mg/kg-day)<sup>-1</sup>  
 ASF = Age sensitivity factor for specified age group  
 ED = Exposure duration (years)  
 AT = Averaging time for lifetime cancer risk (years)  
 FAH = Fraction of time spent at home (unitless)

Inhalation Dose = C<sub>air</sub> x DBR x A x (EF/365) x 10<sup>-6</sup>

Where: C<sub>air</sub> = concentration in air (µg/m<sup>3</sup>)  
 DBR = daily breathing rate (L/kg body weight-day)  
 A = Inhalation absorption factor  
 EF = Exposure frequency (days/year)  
 10<sup>-6</sup> = Conversion factor

**Cancer Potency Factors (mg/kg-day)<sup>-1</sup>**

	TAC	CPF
DPM		1.10E+00
Vehicle TOG Exhaust		6.28E-03
Vehicle TOG Evaporative		3.70E-04

Values

Age -> Parameter	Infant/Child			Adult
	3rd Trimester	0 - 2	2 - 16	16 - 30
ASF =	10	10	3	1
DBR* =	361	1090	572	261
A =	1	1	1	1
EF =	350	350	350	350
AT =	70	70	70	70
FAH =	1.00	1.00	1.00	0.73

\* 95th percentile breathing rates for infants and 80th percentile for children and adults

**Construction Cancer Risk by Year - Maximum Impact Receptor Location**

Exposure Year	Maximum - Exposure Information				Concentration (ug/m3)			Cancer Risk (per million)			TOTAL
	Exposure Duration (years)	Age	Year	Age Sensitivity Factor	DPM	Exhaust TOG	Evaporative TOG	DPM	Exhaust TOG	Evaporative TOG	
0	0.25	-0.25 - 0*	2027	10	0.0077	0.2447	0.1795	0.104	0.019	0.0008	0.12
1	1	0 - 1	2027	10	0.0077	0.2447	0.1795	1.260	0.229	0.0099	1.50
2	1	1 - 2	2028	10	0.0077	0.2447	0.1795	1.260	0.229	0.0099	1.50
3	1	2 - 3	2029	3	0.0077	0.2447	0.1795	0.198	0.036	0.0016	0.24
4	1	3 - 4	2030	3	0.0077	0.2447	0.1795	0.198	0.036	0.0016	0.24
5	1	4 - 5	2031	3	0.0077	0.2447	0.1795	0.198	0.036	0.0016	0.24
6	1	5 - 6	2032	3	0.0077	0.2447	0.1795	0.198	0.036	0.0016	0.24
7	1	6 - 7	2033	3	0.0077	0.2447	0.1795	0.198	0.036	0.0016	0.24
8	1	7 - 8	2034	3	0.0077	0.2447	0.1795	0.198	0.036	0.0016	0.24
9	1	8 - 9	2035	3	0.0077	0.2447	0.1795	0.198	0.036	0.0016	0.24
10	1	9 - 10	2036	3	0.0077	0.2447	0.1795	0.198	0.036	0.0016	0.24
11	1	10 - 11	2037	3	0.0077	0.2447	0.1795	0.198	0.036	0.0016	0.24
12	1	11 - 12	2038	3	0.0077	0.2447	0.1795	0.198	0.036	0.0016	0.24
13	1	12 - 13	2039	3	0.0077	0.2447	0.1795	0.198	0.036	0.0016	0.24
14	1	13 - 14	2040	3	0.0077	0.2447	0.1795	0.198	0.036	0.0016	0.24
15	1	14 - 15	2041	3	0.0077	0.2447	0.1795	0.198	0.036	0.0016	0.24
16	1	15 - 16	2042	3	0.0077	0.2447	0.1795	0.198	0.036	0.0016	0.24
17	1	16-17	2043	1	0.0077	0.2447	0.1795	0.022	0.004	0.0002	0.03
18	1	17-18	2044	1	0.0077	0.2447	0.1795	0.022	0.004	0.0002	0.03
19	1	18-19	2045	1	0.0077	0.2447	0.1795	0.022	0.004	0.0002	0.03
20	1	19-20	2046	1	0.0077	0.2447	0.1795	0.022	0.004	0.0002	0.03
21	1	20-21	2047	1	0.0077	0.2447	0.1795	0.022	0.004	0.0002	0.03
22	1	21-22	2048	1	0.0077	0.2447	0.1795	0.022	0.004	0.0002	0.03
23	1	22-23	2049	1	0.0077	0.2447	0.1795	0.022	0.004	0.0002	0.03
24	1	23-24	2050	1	0.0077	0.2447	0.1795	0.022	0.004	0.0002	0.03
25	1	24-25	2051	1	0.0077	0.2447	0.1795	0.022	0.004	0.0002	0.03
26	1	25-26	2052	1	0.0077	0.2447	0.1795	0.022	0.004	0.0002	0.03
27	1	26-27	2053	1	0.0077	0.2447	0.1795	0.022	0.004	0.0002	0.03
28	1	27-28	2054	1	0.0077	0.2447	0.1795	0.022	0.004	0.0002	0.03
29	1	28-29	2055	1	0.0077	0.2447	0.1795	0.022	0.004	0.0002	0.03
30	1	29-30	2056	1	0.0077	0.2447	0.1795	0.022	0.004	0.0002	0.03
<b>Total Increased Cancer Risk</b>								5.71	1.040	0.045	<b>6.79</b>

\* Third trimester of pregnancy

Maximum  
 Hazard Index 0.00153  
 Fugitive PM2.5 0.19  
 Total PM2.5 0.21

**3705 Haven Ave, Menlo Park, CA - Highway 101 Traffic Cancer Risk  
Impacts at Onsite MEI - 9.1 meter receptor height  
30 Year Residential Exposure**

**Cancer Risk Calculation Method**

Cancer Risk (per million) = CPF x Inhalation Dose x ASF x ED/AT x FAH x 1.0E6

Where: CPF = Cancer potency factor (mg/kg-day)<sup>-1</sup>  
 ASF = Age sensitivity factor for specified age group  
 ED = Exposure duration (years)  
 AT = Averaging time for lifetime cancer risk (years)  
 FAH = Fraction of time spent at home (unitless)

Inhalation Dose = C<sub>air</sub> x DBR x A x (EF/365) x 10<sup>-6</sup>

Where: C<sub>air</sub> = concentration in air (µg/m<sup>3</sup>)  
 DBR = daily breathing rate (L/kg body weight-day)  
 A = Inhalation absorption factor  
 EF = Exposure frequency (days/year)  
 10<sup>-6</sup> = Conversion factor

**Cancer Potency Factors (mg/kg-day)<sup>-1</sup>**

	TAC	CPF
DPM		1.10E+00
Vehicle TOG Exhaust		6.28E-03
Vehicle TOG Evaporative		3.70E-04

Values

Age -> Parameter	Infant/Child			Adult
	3rd Trimester	0 - 2	2 - 16	16 - 30
ASF =	10	10	3	1
DBR* =	361	1090	572	261
A =	1	1	1	1
EF =	350	350	350	350
AT =	70	70	70	70
FAH =	1.00	1.00	1.00	0.73

\* 95th percentile breathing rates for infants and 80th percentile for children and adults

**Construction Cancer Risk by Year - Maximum Impact Receptor Location**

Exposure Year	Maximum - Exposure Information				Concentration (ug/m3)			Cancer Risk (per million)			TOTAL
	Exposure Duration (years)	Age	Year	Age Sensitivity Factor	DPM	Exhaust TOG	Evaporative TOG	DPM	Exhaust TOG	Evaporative TOG	
0	0.25	-0.25 - 0*	2027	10	0.0064	0.2181	0.1602	0.087	0.017	0.0007	0.10
1	1	0 - 1	2027	10	0.0064	0.2181	0.1602	1.051	0.205	0.0089	1.26
2	1	1 - 2	2028	10	0.0064	0.2181	0.1602	1.051	0.205	0.0089	1.26
3	1	2 - 3	2029	3	0.0064	0.2181	0.1602	0.165	0.032	0.0014	0.20
4	1	3 - 4	2030	3	0.0064	0.2181	0.1602	0.165	0.032	0.0014	0.20
5	1	4 - 5	2031	3	0.0064	0.2181	0.1602	0.165	0.032	0.0014	0.20
6	1	5 - 6	2032	3	0.0064	0.2181	0.1602	0.165	0.032	0.0014	0.20
7	1	6 - 7	2033	3	0.0064	0.2181	0.1602	0.165	0.032	0.0014	0.20
8	1	7 - 8	2034	3	0.0064	0.2181	0.1602	0.165	0.032	0.0014	0.20
9	1	8 - 9	2035	3	0.0064	0.2181	0.1602	0.165	0.032	0.0014	0.20
10	1	9 - 10	2036	3	0.0064	0.2181	0.1602	0.165	0.032	0.0014	0.20
11	1	10 - 11	2037	3	0.0064	0.2181	0.1602	0.165	0.032	0.0014	0.20
12	1	11 - 12	2038	3	0.0064	0.2181	0.1602	0.165	0.032	0.0014	0.20
13	1	12 - 13	2039	3	0.0064	0.2181	0.1602	0.165	0.032	0.0014	0.20
14	1	13 - 14	2040	3	0.0064	0.2181	0.1602	0.165	0.032	0.0014	0.20
15	1	14 - 15	2041	3	0.0064	0.2181	0.1602	0.165	0.032	0.0014	0.20
16	1	15 - 16	2042	3	0.0064	0.2181	0.1602	0.165	0.032	0.0014	0.20
17	1	16-17	2043	1	0.0064	0.2181	0.1602	0.018	0.004	0.0002	0.02
18	1	17-18	2044	1	0.0064	0.2181	0.1602	0.018	0.004	0.0002	0.02
19	1	18-19	2045	1	0.0064	0.2181	0.1602	0.018	0.004	0.0002	0.02
20	1	19-20	2046	1	0.0064	0.2181	0.1602	0.018	0.004	0.0002	0.02
21	1	20-21	2047	1	0.0064	0.2181	0.1602	0.018	0.004	0.0002	0.02
22	1	21-22	2048	1	0.0064	0.2181	0.1602	0.018	0.004	0.0002	0.02
23	1	22-23	2049	1	0.0064	0.2181	0.1602	0.018	0.004	0.0002	0.02
24	1	23-24	2050	1	0.0064	0.2181	0.1602	0.018	0.004	0.0002	0.02
25	1	24-25	2051	1	0.0064	0.2181	0.1602	0.018	0.004	0.0002	0.02
26	1	25-26	2052	1	0.0064	0.2181	0.1602	0.018	0.004	0.0002	0.02
27	1	26-27	2053	1	0.0064	0.2181	0.1602	0.018	0.004	0.0002	0.02
28	1	27-28	2054	1	0.0064	0.2181	0.1602	0.018	0.004	0.0002	0.02
29	1	28-29	2055	1	0.0064	0.2181	0.1602	0.018	0.004	0.0002	0.02
30	1	29-30	2056	1	0.0064	0.2181	0.1602	0.018	0.004	0.0002	0.02
<b>Total Increased Cancer Risk</b>								4.76	0.927	0.040	<b>5.73</b>

\* Third trimester of pregnancy

Maximum  
 Hazard Index 0.00128  
 Fugitive PM2.5 0.17  
 Total PM2.5 0.19

**3705 Haven Ave, Menlo Park, CA - Marsh Road Traffic - TACs & PM2.5  
 AERMOD Risk Modeling Parameters and Maximum Concentrations  
 at Onsite MEI Receptor (4.9 & 9.1 meter receptor height)**

**Emission Year** 2027  
**Receptor Information** Onsite MEI receptor  
 Number of Receptors  
 Receptor Height 4.9 & 9.1 meters  
 Receptor Distances At Onsite MEI location

**Meteorological Conditions**  
 BAAQMD San Carlos Airport Met Data 2011 - 2015  
 Land Use Classification Urban  
 Wind Speed Variable  
 Wind Direction Variable

**Construction MEI Cancer Risk Maximum Concentrations**

Meteorological Data Years	Concentration (µg/m3)			
	DPM	Exhaust TOG	Evaporative TOG	
2011 - 2015	0.0003	0.0172	0.0228	2nd Floor
2011 - 2015	0.0003	0.0154	0.0204	3rd Floor

**Construction MEI PM2.5 Maximum Concentrations**

Meteorological Data Years	PM2.5 Concentration (µg/m3)			
	Total PM2.5	Fugitive PM2.5	Vehicle PM2.5	
2011 - 2015	0.0292	0.0280	0.0013	2nd Floor
2011 - 2015	0.0261	0.0250	0.0011	3rd Floor



**3705 Haven Ave, Menlo Park, CA - Marsh Road Traffic Cancer Risk  
Impacts at Onsite MEI - 4.9 meter receptor height  
30 Year Residential Exposure**

**Cancer Risk Calculation Method**

Cancer Risk (per million) = CPF x Inhalation Dose x ASF x ED/AT x FAH x 1.0E6

Where: CPF = Cancer potency factor (mg/kg-day)<sup>-1</sup>  
 ASF = Age sensitivity factor for specified age group  
 ED = Exposure duration (years)  
 AT = Averaging time for lifetime cancer risk (years)  
 FAH = Fraction of time spent at home (unitless)

Inhalation Dose = C<sub>air</sub> x DBR x A x (EF/365) x 10<sup>-6</sup>

Where: C<sub>air</sub> = concentration in air (µg/m<sup>3</sup>)  
 DBR = daily breathing rate (L/kg body weight-day)  
 A = Inhalation absorption factor  
 EF = Exposure frequency (days/year)  
 10<sup>-6</sup> = Conversion factor

**Cancer Potency Factors (mg/kg-day)<sup>-1</sup>**

	TAC	CPF
DPM		1.10E+00
Vehicle TOG Exhaust		6.28E-03
Vehicle TOG Evaporative		3.70E-04

Values

Age -> Parameter	Infant/Child			Adult
	3rd Trimester	0 - 2	2 - 16	16 - 30
ASF =	10	10	3	1
DBR* =	361	1090	572	261
A =	1	1	1	1
EF =	350	350	350	350
AT =	70	70	70	70
FAH =	1.00	1.00	1.00	0.73

\* 95th percentile breathing rates for infants and 80th percentile for children and adults

**Construction Cancer Risk by Year - Maximum Impact Receptor Location**

Exposure Year	Maximum - Exposure Information				Concentration (ug/m3)			Cancer Risk (per million)			TOTAL
	Exposure Duration (years)	Age	Year	Age Sensitivity Factor	DPM	Exhaust TOG	Evaporative TOG	DPM	Exhaust TOG	Evaporative TOG	
0	0.25	-0.25 - 0*	2027	10	0.0003	0.0172	0.0228	0.004	0.001	0.0001	0.01
1	1	0 - 1	2027	10	0.0003	0.0172	0.0228	0.054	0.016	0.0013	0.07
2	1	1 - 2	2028	10	0.0003	0.0172	0.0228	0.054	0.016	0.0013	0.07
3	1	2 - 3	2029	3	0.0003	0.0172	0.0228	0.009	0.003	0.0002	0.01
4	1	3 - 4	2030	3	0.0003	0.0172	0.0228	0.009	0.003	0.0002	0.01
5	1	4 - 5	2031	3	0.0003	0.0172	0.0228	0.009	0.003	0.0002	0.01
6	1	5 - 6	2032	3	0.0003	0.0172	0.0228	0.009	0.003	0.0002	0.01
7	1	6 - 7	2033	3	0.0003	0.0172	0.0228	0.009	0.003	0.0002	0.01
8	1	7 - 8	2034	3	0.0003	0.0172	0.0228	0.009	0.003	0.0002	0.01
9	1	8 - 9	2035	3	0.0003	0.0172	0.0228	0.009	0.003	0.0002	0.01
10	1	9 - 10	2036	3	0.0003	0.0172	0.0228	0.009	0.003	0.0002	0.01
11	1	10 - 11	2037	3	0.0003	0.0172	0.0228	0.009	0.003	0.0002	0.01
12	1	11 - 12	2038	3	0.0003	0.0172	0.0228	0.009	0.003	0.0002	0.01
13	1	12 - 13	2039	3	0.0003	0.0172	0.0228	0.009	0.003	0.0002	0.01
14	1	13 - 14	2040	3	0.0003	0.0172	0.0228	0.009	0.003	0.0002	0.01
15	1	14 - 15	2041	3	0.0003	0.0172	0.0228	0.009	0.003	0.0002	0.01
16	1	15 - 16	2042	3	0.0003	0.0172	0.0228	0.009	0.003	0.0002	0.01
17	1	16-17	2043	1	0.0003	0.0172	0.0228	0.001	0.000	0.0000	0.00
18	1	17-18	2044	1	0.0003	0.0172	0.0228	0.001	0.000	0.0000	0.00
19	1	18-19	2045	1	0.0003	0.0172	0.0228	0.001	0.000	0.0000	0.00
20	1	19-20	2046	1	0.0003	0.0172	0.0228	0.001	0.000	0.0000	0.00
21	1	20-21	2047	1	0.0003	0.0172	0.0228	0.001	0.000	0.0000	0.00
22	1	21-22	2048	1	0.0003	0.0172	0.0228	0.001	0.000	0.0000	0.00
23	1	22-23	2049	1	0.0003	0.0172	0.0228	0.001	0.000	0.0000	0.00
24	1	23-24	2050	1	0.0003	0.0172	0.0228	0.001	0.000	0.0000	0.00
25	1	24-25	2051	1	0.0003	0.0172	0.0228	0.001	0.000	0.0000	0.00
26	1	25-26	2052	1	0.0003	0.0172	0.0228	0.001	0.000	0.0000	0.00
27	1	26-27	2053	1	0.0003	0.0172	0.0228	0.001	0.000	0.0000	0.00
28	1	27-28	2054	1	0.0003	0.0172	0.0228	0.001	0.000	0.0000	0.00
29	1	28-29	2055	1	0.0003	0.0172	0.0228	0.001	0.000	0.0000	0.00
30	1	29-30	2056	1	0.0003	0.0172	0.0228	0.001	0.000	0.0000	0.00
<b>Total Increased Cancer Risk</b>								0.25	0.073	0.006	<b>0.32</b>

\* Third trimester of pregnancy

Maximum  
 Hazard Index 0.00007  
 Fugitive PM2.5 0.03  
 Total PM2.5 0.03

**3705 Haven Ave, Menlo Park, CA - Marsh Road Traffic Cancer Risk  
Impacts at Onsite MEI - 9.1 meter receptor height  
30 Year Residential Exposure**

**Cancer Risk Calculation Method**

Cancer Risk (per million) = CPF x Inhalation Dose x ASF x ED/AT x FAH x 1.0E6

Where: CPF = Cancer potency factor (mg/kg-day)<sup>-1</sup>  
 ASF = Age sensitivity factor for specified age group  
 ED = Exposure duration (years)  
 AT = Averaging time for lifetime cancer risk (years)  
 FAH = Fraction of time spent at home (unitless)

Inhalation Dose = C<sub>air</sub> x DBR x A x (EF/365) x 10<sup>-6</sup>

Where: C<sub>air</sub> = concentration in air (µg/m<sup>3</sup>)  
 DBR = daily breathing rate (L/kg body weight-day)  
 A = Inhalation absorption factor  
 EF = Exposure frequency (days/year)  
 10<sup>-6</sup> = Conversion factor

**Cancer Potency Factors (mg/kg-day)<sup>-1</sup>**

	TAC	CPF
DPM		1.10E+00
Vehicle TOG Exhaust		6.28E-03
Vehicle TOG Evaporative		3.70E-04

Values

Age -> Parameter	Infant/Child			Adult
	3rd Trimester	0 - 2	2 - 16	16 - 30
ASF =	10	10	3	1
DBR* =	361	1090	572	261
A =	1	1	1	1
EF =	350	350	350	350
AT =	70	70	70	70
FAH =	1.00	1.00	1.00	0.73

\* 95th percentile breathing rates for infants and 80th percentile for children and adults

**Construction Cancer Risk by Year - Maximum Impact Receptor Location**

Exposure Year	Maximum - Exposure Information				Concentration (ug/m3)			Cancer Risk (per million)			TOTAL
	Exposure Duration (years)	Age	Year	Age Sensitivity Factor	DPM	Exhaust TOG	Evaporative TOG	DPM	Exhaust TOG	Evaporative TOG	
0	0.25	-0.25 - 0*	2027	10	0.0003	0.0154	0.0204	0.004	0.001	0.0001	0.01
1	1	0 - 1	2027	10	0.0003	0.0154	0.0204	0.046	0.014	0.0011	0.06
2	1	1 - 2	2028	10	0.0003	0.0154	0.0204	0.046	0.014	0.0011	0.06
3	1	2 - 3	2029	3	0.0003	0.0154	0.0204	0.007	0.002	0.0002	0.01
4	1	3 - 4	2030	3	0.0003	0.0154	0.0204	0.007	0.002	0.0002	0.01
5	1	4 - 5	2031	3	0.0003	0.0154	0.0204	0.007	0.002	0.0002	0.01
6	1	5 - 6	2032	3	0.0003	0.0154	0.0204	0.007	0.002	0.0002	0.01
7	1	6 - 7	2033	3	0.0003	0.0154	0.0204	0.007	0.002	0.0002	0.01
8	1	7 - 8	2034	3	0.0003	0.0154	0.0204	0.007	0.002	0.0002	0.01
9	1	8 - 9	2035	3	0.0003	0.0154	0.0204	0.007	0.002	0.0002	0.01
10	1	9 - 10	2036	3	0.0003	0.0154	0.0204	0.007	0.002	0.0002	0.01
11	1	10 - 11	2037	3	0.0003	0.0154	0.0204	0.007	0.002	0.0002	0.01
12	1	11 - 12	2038	3	0.0003	0.0154	0.0204	0.007	0.002	0.0002	0.01
13	1	12 - 13	2039	3	0.0003	0.0154	0.0204	0.007	0.002	0.0002	0.01
14	1	13 - 14	2040	3	0.0003	0.0154	0.0204	0.007	0.002	0.0002	0.01
15	1	14 - 15	2041	3	0.0003	0.0154	0.0204	0.007	0.002	0.0002	0.01
16	1	15 - 16	2042	3	0.0003	0.0154	0.0204	0.007	0.002	0.0002	0.01
17	1	16-17	2043	1	0.0003	0.0154	0.0204	0.001	0.000	0.0000	0.00
18	1	17-18	2044	1	0.0003	0.0154	0.0204	0.001	0.000	0.0000	0.00
19	1	18-19	2045	1	0.0003	0.0154	0.0204	0.001	0.000	0.0000	0.00
20	1	19-20	2046	1	0.0003	0.0154	0.0204	0.001	0.000	0.0000	0.00
21	1	20-21	2047	1	0.0003	0.0154	0.0204	0.001	0.000	0.0000	0.00
22	1	21-22	2048	1	0.0003	0.0154	0.0204	0.001	0.000	0.0000	0.00
23	1	22-23	2049	1	0.0003	0.0154	0.0204	0.001	0.000	0.0000	0.00
24	1	23-24	2050	1	0.0003	0.0154	0.0204	0.001	0.000	0.0000	0.00
25	1	24-25	2051	1	0.0003	0.0154	0.0204	0.001	0.000	0.0000	0.00
26	1	25-26	2052	1	0.0003	0.0154	0.0204	0.001	0.000	0.0000	0.00
27	1	26-27	2053	1	0.0003	0.0154	0.0204	0.001	0.000	0.0000	0.00
28	1	27-28	2054	1	0.0003	0.0154	0.0204	0.001	0.000	0.0000	0.00
29	1	28-29	2055	1	0.0003	0.0154	0.0204	0.001	0.000	0.0000	0.00
30	1	29-30	2056	1	0.0003	0.0154	0.0204	0.001	0.000	0.0000	0.00
<b>Total Increased Cancer Risk</b>								0.21	0.065	0.005	<b>0.28</b>

\* Third trimester of pregnancy

Maximum  
 Hazard Index 0.00006  
 Fugitive PM2.5 0.02  
 Total PM2.5 0.03

3705 Haven Ave, Menlo Park, CA - Off-Site Residential  
 Cumulative Traffic - Highway 101  
 DPM Modeling - Roadway Links, Traffic Volumes, and DPM Emissions  
 Year = 2024

Road Link	Description	Direction	No. Lanes	Link Length (m)	Link Length (mi)	Link Width (m)	Link Width (ft)	Release Height (m)	Average Speed (mph)	Average Vehicles per Day	Line Area				(Sigma z) Initial Vertical Dimension	
											Area (sq m)	Area (sq ft)	Emission (g/s/m2)	Emission (lb/hr/ft2)		Initial Vertical height (m)
DPM_NB_101	Highway 101 Northbound	NB	5	582.6	0.36	24.3	79.7	3.4	67	87,550	14,150	152,311	1.566E-08	1.155E-08	6.8	3.16
DPM_SB_101	Highway 101 Southbound	SB	5	559.5	0.35	24.3	79.7	3.4	67	87,550	13,589	146,272	1.566E-08	1.155E-08	6.8	3.16
Total										175,099						

Emission Factors

Speed Category	1	2	3	4
Travel Speed (mph)	70	65	60	
Emissions per Vehicle (g/VMT)	0.00060	0.000602	0.000538	

Emission Factors from CT-EMFAC2017

2024 Hourly Traffic Volumes and DPM Emissions - DPM\_NB\_101

Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s
1	1.25%	1090	6.62E-05	9	5.53%	4843	2.62E-04	17	6.07%	5318	3.22E-04
2	0.81%	705	4.28E-05	10	5.71%	4999	2.70E-04	18	5.98%	5236	3.17E-04
3	0.66%	579	3.52E-05	11	5.79%	5066	3.07E-04	19	5.42%	4746	2.87E-04
4	0.78%	685	4.16E-05	12	5.74%	5029	3.04E-04	20	4.69%	4109	2.50E-04
5	1.64%	1440	8.74E-05	13	5.75%	5030	3.04E-04	21	4.06%	3558	2.16E-04
6	3.33%	2913	1.77E-04	14	5.78%	5064	3.07E-04	22	3.73%	3268	1.98E-04
7	4.80%	4201	2.54E-04	15	5.98%	5233	3.17E-04	23	3.02%	2648	1.61E-04
8	5.42%	4746	2.57E-04	16	6.01%	5264	3.19E-04	24	2.03%	1778	1.08E-04
Total										87,550	

2024 Hourly Traffic Volumes Per Direction and DPM Emissions - DPM\_SB\_101

Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile
1	1.28%	1122	6.54E-05	9	5.50%	4812	2.50E-04	17	6.08%	5323	3.09E-04
2	0.83%	730	4.26E-05	10	5.68%	4975	2.58E-04	18	5.98%	5238	3.05E-04
3	0.67%	590	3.44E-05	11	5.79%	5070	2.95E-04	19	5.42%	4742	2.76E-04
4	0.77%	674	3.93E-05	12	5.76%	5044	2.93E-04	20	4.69%	4103	2.39E-04
5	1.61%	1410	8.22E-05	13	5.78%	5061	2.94E-04	21	4.06%	3557	2.08E-04
6	3.27%	2861	1.67E-04	14	5.81%	5086	2.96E-04	22	3.75%	3280	1.91E-04
7	4.71%	4127	2.40E-04	15	6.00%	5255	3.06E-04	23	3.08%	2693	1.57E-04
8	5.37%	4705	2.44E-04	16	6.03%	5276	3.07E-04	24	2.07%	1814	1.06E-04
Total										87,550	

3705 Haven Ave, Menlo Park, CA - Off-Site Residential  
 Cumulative Traffic - Highway 101  
 PM2.5 Modeling - Roadway Links, Traffic Volumes, and PM2.5 Emissions  
 Year = 2024

Road Link	Description	Direction	No. Lanes	Link Length (m)	Link Length (mi)	Link Width (m)	Link Width (ft)	Release Height (m)	Average Speed (mph)	Average Vehicles per Day	Area (sq m)	Area (sq ft)	Emission (g/s/m2)	Emission (lb/hr/ft2)	Initial Vertical height (m)	(Sigma z) Initial Vertical Dimension
PM2.5_NB_101	Highway 101 Northbound	NB	5	582.6	0.36	24.3	80	1.3	66.666667	87,550	14,150	152,311	4.46E-08	3.29E-08	2.6	1.21
PM2.5_SB_101	Highway 101 Southbound	SB	5	559.5	0.35	24.3	80	1.3	66.666667	87,550	13,589	146,272	4.46E-08	3.29E-08	2.6	1.21
Total										175,099						

Emission Factors - PM2.5

Speed Category	1	2	3	4
Travel Speed (mph)	70	65	60	
Emissions per Vehicle (g/VMT)	0.001721	0.00161	0.001423	

Emission Factors from CT-EMFAC2017

2024 Hourly Traffic Volumes and PM2.5 Emissions - PM2.5\_NB\_101

Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s	
1	1.25%	1090	1.89E-04	9	5.53%	4843	6.93E-04	17	6.07%	5318	8.63E-04	
2	0.81%	705	1.22E-04	10	5.71%	4999	7.15E-04	18	5.98%	5236	8.50E-04	
3	0.66%	579	1.00E-04	11	5.79%	5066	8.22E-04	19	5.42%	4746	7.70E-04	
4	0.78%	685	1.19E-04	12	5.74%	5029	8.16E-04	20	4.69%	4109	7.11E-04	
5	1.64%	1440	2.49E-04	13	5.75%	5030	8.16E-04	21	4.06%	3558	6.16E-04	
6	3.33%	2913	5.04E-04	14	5.78%	5064	8.22E-04	22	3.73%	3268	5.66E-04	
7	4.80%	4201	6.82E-04	15	5.98%	5233	8.49E-04	23	3.02%	2648	4.58E-04	
8	5.42%	4746	6.79E-04	16	6.01%	5264	8.54E-04	24	2.03%	1778	3.08E-04	
Total											87,550	

2024 Hourly Traffic Volumes Per Direction and PM2.5 Emissions - PM2.5\_SB\_101

Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile	
1	1.28%	1122	1.86E-04	9	5.50%	4812	6.61E-04	17	6.08%	5323	8.30E-04	
2	0.83%	730	1.21E-04	10	5.68%	4975	6.84E-04	18	5.98%	5238	8.16E-04	
3	0.67%	590	9.81E-05	11	5.79%	5070	7.90E-04	19	5.42%	4742	7.39E-04	
4	0.77%	674	1.12E-04	12	5.76%	5044	7.86E-04	20	4.69%	4103	6.82E-04	
5	1.61%	1410	2.34E-04	13	5.78%	5061	7.89E-04	21	4.06%	3557	5.91E-04	
6	3.27%	2861	4.76E-04	14	5.81%	5086	7.93E-04	22	3.75%	3280	5.45E-04	
7	4.71%	4127	6.43E-04	15	6.00%	5255	8.19E-04	23	3.08%	2693	4.48E-04	
8	5.37%	4705	6.47E-04	16	6.03%	5276	8.22E-04	24	2.07%	1814	3.02E-04	
Total											87,550	

3705 Haven Ave, Menlo Park, CA - Off-Site Residential  
 Cumulative Traffic - Highway 101  
 TOG Exhaust Modeling - Roadway Links, Traffic Volumes, and TOG Exhaust Emissions  
 Year = 2024

Road Link	Description	Direction	No. Lanes	Link Length (m)	Link Length (mi)	Link Width (m)	Link Width (ft)	Release Height (m)	Average Speed (mph)	Average Vehicles per Day	Area (sq m)	Area (sq ft)	Emission (g/s/m2)	Emission (lb/hr/ft2)	Initial Vertical height	(Sigma z) Initial Vertical Dimension
TEXH_NB_101	Highway 101 Northbound	NB	5	582.6	0.36	24.3	80	1.3	66.666667	87,550	14,150	152,311	5.35E-07	3.95E-07	2.6	1.21
TEXH_SB_101	Highway 101 Southbound	SB	5	559.5	0.35	24.3	80	1.3	66.666667	87,550	13,589	146,272	5.35E-07	3.95E-07	2.6	1.21
Total										175,099						

Emission Factors - TOG Exhaust

Speed Category Travel Speed (mph)	1	2	3	4
70	0.02064	0.01929	0.01742	
Emissions per Vehicle (g/VMT)				

Emission Factors from CT-EMFAC2017

2024 Hourly Traffic Volumes and TOG Exhaust Emissions - TEXH\_NB\_101

Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s
1	1.25%	1090	2.26E-03	9	5.53%	4843	8.48E-03	17	6.07%	5318	1.03E-02
2	0.81%	705	1.46E-03	10	5.71%	4999	8.76E-03	18	5.98%	5236	1.02E-02
3	0.66%	579	1.20E-03	11	5.79%	5066	9.82E-03	19	5.42%	4746	9.20E-03
4	0.78%	685	1.42E-03	12	5.74%	5029	9.75E-03	20	4.69%	4109	8.53E-03
5	1.64%	1440	2.99E-03	13	5.75%	5030	9.75E-03	21	4.06%	3558	7.39E-03
6	3.33%	2913	6.05E-03	14	5.78%	5064	9.82E-03	22	3.73%	3268	6.78E-03
7	4.80%	4201	8.15E-03	15	5.98%	5233	1.01E-02	23	3.02%	2648	5.50E-03
8	5.42%	4746	8.31E-03	16	6.01%	5264	1.02E-02	24	2.03%	1778	3.69E-03
Total										87,550	

2024 Hourly Traffic Volumes Per Direction and TOG Exhaust Emissions - TEXH\_SB\_101

Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile
1	1.25%	1090	2.17E-03	9	5.53%	4843	8.15E-03	17	6.07%	5318	9.90E-03
2	0.81%	705	1.41E-03	10	5.71%	4999	8.41E-03	18	5.98%	5236	9.75E-03
3	0.66%	579	1.15E-03	11	5.79%	5066	9.44E-03	19	5.42%	4746	8.84E-03
4	0.78%	685	1.37E-03	12	5.74%	5029	9.37E-03	20	4.69%	4109	8.19E-03
5	1.64%	1440	2.87E-03	13	5.75%	5030	9.37E-03	21	4.06%	3558	7.09E-03
6	3.33%	2913	5.81E-03	14	5.78%	5064	9.43E-03	22	3.73%	3268	6.51E-03
7	4.80%	4201	7.82E-03	15	5.98%	5233	9.75E-03	23	3.02%	2648	5.28E-03
8	5.42%	4746	7.98E-03	16	6.01%	5264	9.80E-03	24	2.03%	1778	3.54E-03
Total										87,550	

3705 Haven Ave, Menlo Park, CA - Off-Site Residential  
 Cumulative Traffic - Highway 101  
 TOG Evaporative Emissions Modeling - Roadway Links, Traffic Volumes, and TOG Evaporative Emissions  
 Year = 2024

Road Link	Description	Direction	No. Lanes	Link Length (m)	Link Length (mi)	Link Width (m)	Link Width (ft)	Release Height (m)	Average Speed (mph)	Average Vehicles per Day	Area (sq m)	Area (sq ft)	Emission (g/s/m2)	Emission (lb/hr/ft2)	Initial Vertical height	(Sigma z) Initial Vertical Dimension
TEVAP_NB_101	Highway 101 Northbound	NB	5	582.6	0.36	24.3	80	1.3	66.666667	87,550	14,150	152,311	3.24E-07	2.39E-07	2.6	1.21
TEVAP_SB_101	Highway 101 Southbound	SB	5	559.5	0.35	24.3	80	1.3	66.666667	87,550	13,589	146,272	3.24E-07	2.39E-07	2.6	1.21
									Total	175,099						

Emission Factors - PM2.5 - Evaporative TOG

Speed Category	1	2	3	4
Travel Speed (mph)	70	65	60	
Emissions per Vehicle per Hour (g/hour)	0.87383	0.87383	0.87383	
Emissions per Vehicle per Mile (g/VMT)	0.01248	0.01344	0.01456	

Emission Factors from CT-EMFAC2017

2024 Hourly Traffic Volumes and TOG Evaporative Emissions - TEVAP\_NB\_101

Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s
1	1.25%	1090	1.37E-03	9	5.53%	4843	7.09E-03	17	6.07%	5318	7.19E-03
2	0.81%	705	8.85E-04	10	5.71%	4999	7.32E-03	18	5.98%	5236	7.08E-03
3	0.66%	579	7.27E-04	11	5.79%	5066	6.85E-03	19	5.42%	4746	6.42E-03
4	0.78%	685	8.60E-04	12	5.74%	5029	6.80E-03	20	4.69%	4109	5.16E-03
5	1.64%	1440	1.81E-03	13	5.75%	5030	6.80E-03	21	4.06%	3558	4.47E-03
6	3.33%	2913	3.66E-03	14	5.78%	5064	6.85E-03	22	3.73%	3268	4.10E-03
7	4.80%	4201	5.68E-03	15	5.98%	5233	7.07E-03	23	3.02%	2648	3.32E-03
8	5.42%	4746	6.95E-03	16	6.01%	5264	7.12E-03	24	2.03%	1778	2.23E-03
Total										87,550	

2024 Hourly Traffic Volumes Per Direction and TOG Evaporative Emissions - TEVAP\_SB\_101

Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile
1	1.25%	1090	1.31E-03	9	5.53%	4843	6.81E-03	17	6.07%	5318	6.90E-03
2	0.81%	705	8.50E-04	10	5.71%	4999	7.03E-03	18	5.98%	5236	6.80E-03
3	0.66%	579	6.98E-04	11	5.79%	5066	6.58E-03	19	5.42%	4746	6.16E-03
4	0.78%	685	8.26E-04	12	5.74%	5029	6.53E-03	20	4.69%	4109	4.95E-03
5	1.64%	1440	1.74E-03	13	5.75%	5030	6.53E-03	21	4.06%	3558	4.29E-03
6	3.33%	2913	3.51E-03	14	5.78%	5064	6.57E-03	22	3.73%	3268	3.94E-03
7	4.80%	4201	5.45E-03	15	5.98%	5233	6.79E-03	23	3.02%	2648	3.19E-03
8	5.42%	4746	6.68E-03	16	6.01%	5264	6.83E-03	24	2.03%	1778	2.14E-03
Total										87,550	

3705 Haven Ave, Menlo Park, CA - Off-Site Residential  
 Cumulative Traffic - Highway 101  
 Fugitive Road PM2.5 Modeling - Roadway Links, Traffic Volumes, and Fugitive Road PM2.5 Emissions  
 Year = 2024

Road Link	Description	Direction	No. Lanes	Link Length (m)	Link Length (mi)	Link Width (m)	Link Width (ft)	Release Height (m)	Average Speed (mph)	Average Vehicles per Day	Area (sq m)	Area (sq ft)	Emission (g/s/m2)	Emission (lb/hr/ft2)	Initial Vertical height	(Sigma z) Initial Vertical Dimension
FUG_NB_101	Highway 101 Northbound	NB	5	582.6	0.36	24.3	80	1.3	66.666667	87,550	14,150	152,311	3.14E-07	2.31E-07	2.6	1.21
FUG_SB_101	Highway 101 Southbound	SB	5	559.5	0.35	24.3	80	1.3	66.666667	87,550	13,589	146,272	3.14E-07	2.31E-07	2.6	1.21
Total										175,099						

Emission Factors - Fugitive PM2.5

Speed Category	1	2	3	4
Travel Speed (mph)	70	65	60	
Tire Wear - Emissions per Vehicle (g/VMT)	0.00208	0.00208	0.00208	
Brake Wear - Emissions per Vehicle (g/VMT)	0.00200	0.00200	0.0023	
Road Dust - Emissions per Vehicle (g/VMT)	0.00803	0.00803	0.00803	
Total Fugitive PM2.5 - Emissions per Vehicle (g/VMT)	0.01211	0.01211	0.01241	

Emission Factors from CT-EMFAC2017

2024 Hourly Traffic Volumes and Fugitive PM2.5 Emissions - FUG\_NB\_101

Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s	
1	1.25%	1090	1.33E-03	9	5.53%	4843	6.04E-03	17	6.07%	5318	6.47E-03	
2	0.81%	705	8.58E-04	10	5.71%	4999	6.24E-03	18	5.98%	5236	6.38E-03	
3	0.66%	579	7.05E-04	11	5.79%	5066	6.17E-03	19	5.42%	4746	5.78E-03	
4	0.78%	685	8.34E-04	12	5.74%	5029	6.12E-03	20	4.69%	4109	5.00E-03	
5	1.64%	1440	1.75E-03	13	5.75%	5030	6.12E-03	21	4.06%	3558	4.33E-03	
6	3.33%	2913	3.55E-03	14	5.78%	5064	6.17E-03	22	3.73%	3268	3.98E-03	
7	4.80%	4201	5.11E-03	15	5.98%	5233	6.37E-03	23	3.02%	2648	3.22E-03	
8	5.42%	4746	5.92E-03	16	6.01%	5264	6.41E-03	24	2.03%	1778	2.16E-03	
Total											87,550	

2024 Hourly Traffic Volumes Per Direction and Fugitive PM2.5 Emissions - FUG\_SB\_101

Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile	
1	1.25%	1090	1.27E-03	9	5.53%	4843	5.80E-03	17	6.07%	5318	6.22E-03	
2	0.81%	705	8.24E-04	10	5.71%	4999	5.99E-03	18	5.98%	5236	6.12E-03	
3	0.66%	579	6.77E-04	11	5.79%	5066	5.92E-03	19	5.42%	4746	5.55E-03	
4	0.78%	685	8.01E-04	12	5.74%	5029	5.88E-03	20	4.69%	4109	4.80E-03	
5	1.64%	1440	1.68E-03	13	5.75%	5030	5.88E-03	21	4.06%	3558	4.16E-03	
6	3.33%	2913	3.41E-03	14	5.78%	5064	5.92E-03	22	3.73%	3268	3.82E-03	
7	4.80%	4201	4.91E-03	15	5.98%	5233	6.12E-03	23	3.02%	2648	3.10E-03	
8	5.42%	4746	5.69E-03	16	6.01%	5264	6.16E-03	24	2.03%	1778	2.08E-03	
Total											87,550	

3705 Haven Ave, Menlo Park, CA - On-Site Residential  
 Cumulative Traffic - Highway 101  
 DPM Modeling - Roadway Links, Traffic Volumes, and DPM Emissions  
 Year = 2027

Road Link	Description	Direction	No. Lanes	Link Length (m)	Link Length (mi)	Link Width (m)	Link Width (ft)	Release Height (m)	Average Speed (mph)	Average Vehicles per Day	Line Area				(Sigma z) Initial Vertical Dimension	
											Area (sq m)	Area (sq ft)	Emission (g/s/m2)	Emission (lb/hr/ft2)		Initial Vertical height (m)
DPM_NB_101	Highway 101 Northbound	NB	5	728.4	0.45	24.3	79.7	3.4	67	90,100	17,691	190,428	1.374E-08	1.013E-08	6.8	3.16
DPM_SB_101	Highway 101 Southbound	SB	5	727.9	0.45	24.3	79.7	3.4	67	90,100	17,679	190,298	1.374E-08	1.013E-08	6.8	3.16
Total										180,199						

Emission Factors

Speed Category	1	2	3	4
Travel Speed (mph)	70	65	60	
Emissions per Vehicle (g/VMT)	0.00052	0.000514	0.000451	

Emission Factors from CT-EMFAC2017

2027 Hourly Traffic Volumes and DPM Emissions - DPM\_NB\_101

Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s
1	1.25%	1122	7.26E-05	9	5.53%	4984	2.83E-04	17	6.07%	5473	3.54E-04
2	0.81%	725	4.70E-05	10	5.71%	5145	2.92E-04	18	5.98%	5389	3.48E-04
3	0.66%	596	3.86E-05	11	5.79%	5214	3.37E-04	19	5.42%	4885	3.16E-04
4	0.78%	705	4.57E-05	12	5.74%	5175	3.34E-04	20	4.69%	4229	2.74E-04
5	1.64%	1482	9.59E-05	13	5.75%	5177	3.35E-04	21	4.06%	3662	2.37E-04
6	3.33%	2998	1.94E-04	14	5.78%	5212	3.37E-04	22	3.73%	3363	2.18E-04
7	4.80%	4323	2.79E-04	15	5.98%	5385	3.48E-04	23	3.02%	2725	1.76E-04
8	5.42%	4884	2.77E-04	16	6.01%	5418	3.50E-04	24	2.03%	1830	1.18E-04
Total										90,100	

2027 Hourly Traffic Volumes Per Direction and DPM Emissions - DPM\_SB\_101

Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile
1	1.28%	1155	7.47E-05	9	5.50%	4952	2.81E-04	17	6.08%	5478	3.54E-04
2	0.83%	752	4.86E-05	10	5.68%	5120	2.90E-04	18	5.98%	5391	3.48E-04
3	0.67%	608	3.93E-05	11	5.79%	5218	3.37E-04	19	5.42%	4880	3.15E-04
4	0.77%	693	4.49E-05	12	5.76%	5191	3.35E-04	20	4.69%	4222	2.73E-04
5	1.61%	1451	9.39E-05	13	5.78%	5208	3.36E-04	21	4.06%	3661	2.37E-04
6	3.27%	2945	1.91E-04	14	5.81%	5234	3.38E-04	22	3.75%	3375	2.18E-04
7	4.71%	4248	2.74E-04	15	6.00%	5409	3.49E-04	23	3.08%	2771	1.79E-04
8	5.37%	4842	2.74E-04	16	6.03%	5430	3.51E-04	24	2.07%	1867	1.21E-04
Total										90,100	



3705 Haven Ave, Menlo Park, CA - On-Site Residential  
 Cumulative Traffic - Highway 101  
 PM2.5 Modeling - Roadway Links, Traffic Volumes, and PM2.5 Emissions  
 Year = 2027

Road Link	Description	Direction	No. Lanes	Link Length (m)	Link Length (mi)	Link Width (m)	Link Width (ft)	Release Height (m)	Average Speed (mph)	Average Vehicles per Day	Area (sq m)	Area (sq ft)	Emission (g/s/m2)	Emission (lb/hr/ft2)	Initial Vertical height (m)	(Sigma z) Initial Vertical Dimension
PM2.5_NB_101	Highway 101 Northbound	NB	5	728.4	0.45	24.3	80	1.3	66.666667	90,100	17,691	190,428	3.92E-08	2.89E-08	2.6	1.21
PM2.5_SB_101	Highway 101 Southbound	SB	5	727.9	0.45	24.3	80	1.3	66.666667	90,100	17,679	190,298	3.92E-08	2.89E-08	2.6	1.21
Total										180,199						

Emission Factors - PM2.5

Speed Category	1	2	3	4
Travel Speed (mph)	70	65	60	
Emissions per Vehicle (g/VTM)	0.001471	0.00138	0.001211	

Emission Factors from CT-EMFAC2017

2027 Hourly Traffic Volumes and PM2.5 Emissions - PM2.5\_NB\_101

Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s	
1	1.25%	1122	2.07E-04	9	5.53%	4984	7.59E-04	17	6.07%	5473	9.50E-04	
2	0.81%	725	1.34E-04	10	5.71%	5145	7.83E-04	18	5.98%	5389	9.36E-04	
3	0.66%	596	1.10E-04	11	5.79%	5214	9.05E-04	19	5.42%	4885	8.48E-04	
4	0.78%	705	1.30E-04	12	5.74%	5175	8.99E-04	20	4.69%	4229	7.82E-04	
5	1.64%	1482	2.74E-04	13	5.75%	5177	8.99E-04	21	4.06%	3662	6.77E-04	
6	3.33%	2998	5.54E-04	14	5.78%	5212	9.05E-04	22	3.73%	3363	6.22E-04	
7	4.80%	4323	7.51E-04	15	5.98%	5385	9.35E-04	23	3.02%	2725	5.04E-04	
8	5.42%	4884	7.44E-04	16	6.01%	5418	9.41E-04	24	2.03%	1830	3.38E-04	
Total											90,100	

2027 Hourly Traffic Volumes Per Direction and PM2.5 Emissions - PM2.5\_SB\_101

Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile	
1	1.28%	1155	2.13E-04	9	5.50%	4952	7.53E-04	17	6.08%	5478	9.50E-04	
2	0.83%	752	1.39E-04	10	5.68%	5120	7.79E-04	18	5.98%	5391	9.35E-04	
3	0.67%	608	1.12E-04	11	5.79%	5218	9.05E-04	19	5.42%	4880	8.47E-04	
4	0.77%	693	1.28E-04	12	5.76%	5191	9.01E-04	20	4.69%	4222	7.80E-04	
5	1.61%	1451	2.68E-04	13	5.78%	5208	9.04E-04	21	4.06%	3661	6.77E-04	
6	3.27%	2945	5.44E-04	14	5.81%	5234	9.08E-04	22	3.75%	3375	6.24E-04	
7	4.71%	4248	7.37E-04	15	6.00%	5409	9.38E-04	23	3.08%	2771	5.12E-04	
8	5.37%	4842	7.37E-04	16	6.03%	5430	9.42E-04	24	2.07%	1867	3.45E-04	
Total											90,100	

3705 Haven Ave, Menlo Park, CA - On-Site Residential  
 Cumulative Traffic - Highway 101  
 TOG Exhaust Modeling - Roadway Links, Traffic Volumes, and TOG Exhaust Emissions  
 Year = 2027

Road Link	Description	Direction	No. Lanes	Link Length (m)	Link Length (mi)	Link Width (m)	Link Width (ft)	Release Height (m)	Average Speed (mph)	Average Vehicles per Day	Area (sq m)	Area (sq ft)	Emission (g/s/m2)	Emission (lb/hr/ft2)	Initial Vertical height	(Sigma z) Initial Vertical Dimension
TEXH_NB_101	Highway 101 Northbound	NB	5	728.4	0.45	24.3	80	1.3	66.666667	90,100	17,691	190,428	4.40E-07	3.24E-07	2.6	1.21
TEXH_SB_101	Highway 101 Southbound	SB	5	727.9	0.45	24.3	80	1.3	66.666667	90,100	17,679	190,298	4.40E-07	3.24E-07	2.6	1.21
Total										180,199						

Emission Factors - TOG Exhaust

Speed Category Travel Speed (mph)	1	2	3	4
70	0.01649	0.01545	0.01399	
Emissions per Vehicle (g/VMT)				

Emission Factors from CT-EMFAC2017

2027 Hourly Traffic Volumes and TOG Exhaust Emissions - TEXH\_NB\_101

Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s	
1	1.25%	1122	2.33E-03	9	5.53%	4984	8.77E-03	17	6.07%	5473	1.06E-02	
2	0.81%	725	1.50E-03	10	5.71%	5145	9.05E-03	18	5.98%	5389	1.05E-02	
3	0.66%	596	1.24E-03	11	5.79%	5214	1.01E-02	19	5.42%	4885	9.49E-03	
4	0.78%	705	1.46E-03	12	5.74%	5175	1.01E-02	20	4.69%	4229	8.77E-03	
5	1.64%	1482	3.07E-03	13	5.75%	5177	1.01E-02	21	4.06%	3662	7.59E-03	
6	3.33%	2998	6.22E-03	14	5.78%	5212	1.01E-02	22	3.73%	3363	6.97E-03	
7	4.80%	4323	8.40E-03	15	5.98%	5385	1.05E-02	23	3.02%	2725	5.65E-03	
8	5.42%	4884	8.59E-03	16	6.01%	5418	1.05E-02	24	2.03%	1830	3.79E-03	
Total											90,100	

2027 Hourly Traffic Volumes Per Direction and TOG Exhaust Emissions - TEXH\_SB\_101

Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile	
1	1.25%	1122	2.33E-03	9	5.53%	4984	8.76E-03	17	6.07%	5473	1.06E-02	
2	0.81%	725	1.50E-03	10	5.71%	5145	9.05E-03	18	5.98%	5389	1.05E-02	
3	0.66%	596	1.24E-03	11	5.79%	5214	1.01E-02	19	5.42%	4885	9.48E-03	
4	0.78%	705	1.46E-03	12	5.74%	5175	1.00E-02	20	4.69%	4229	8.76E-03	
5	1.64%	1482	3.07E-03	13	5.75%	5177	1.00E-02	21	4.06%	3662	7.59E-03	
6	3.33%	2998	6.21E-03	14	5.78%	5212	1.01E-02	22	3.73%	3363	6.97E-03	
7	4.80%	4323	8.39E-03	15	5.98%	5385	1.05E-02	23	3.02%	2725	5.65E-03	
8	5.42%	4884	8.59E-03	16	6.01%	5418	1.05E-02	24	2.03%	1830	3.79E-03	
Total											90,100	

3705 Haven Ave, Menlo Park, CA - On-Site Residential  
 Cumulative Traffic - Highway 101  
 TOG Evaporative Emissions Modeling - Roadway Links, Traffic Volumes, and TOG Evaporative Emissions  
 Year = 2027

Road Link	Description	Direction	No. Lanes	Link Length (m)	Link Length (mi)	Link Width (m)	Link Width (ft)	Release Height (m)	Average Speed (mph)	Average Vehicles per Day	Area (sq m)	Area (sq ft)	Emission (g/s/m2)	Emission (lb/hr/ft2)	Initial Vertical height	(Sigma z) Initial Vertical Dimension
TEVAP_NB_101	Highway 101 Northbound	NB	5	728.4	0.45	24.3	80	1.3	66.666667	90,100	17,691	190,428	2.99E-07	2.21E-07	2.6	1.21
TEVAP_SB_101	Highway 101 Southbound	SB	5	727.9	0.45	24.3	80	1.3	66.666667	90,100	17,679	190,298	2.99E-07	2.21E-07	2.6	1.21
									Total	180,199						

Emission Factors - PM2.5 - Evaporative TOG

Speed Category	1	2	3	4
Travel Speed (mph)	70	65	60	
Emissions per Vehicle per Hour (g/hour)	0.78556	0.78556	0.78556	
Emissions per Vehicle per Mile (g/VMT)	0.01122	0.01209	0.01309	

Emission Factors from CT-EMFAC2017

2027 Hourly Traffic Volumes and TOG Evaporative Emissions - TEVAP\_NB\_101

Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s
1	1.25%	1122	1.58E-03	9	5.53%	4984	8.20E-03	17	6.07%	5473	8.32E-03
2	0.81%	725	1.02E-03	10	5.71%	5145	8.47E-03	18	5.98%	5389	8.19E-03
3	0.66%	596	8.41E-04	11	5.79%	5214	7.92E-03	19	5.42%	4885	7.42E-03
4	0.78%	705	9.95E-04	12	5.74%	5175	7.86E-03	20	4.69%	4229	5.97E-03
5	1.64%	1482	2.09E-03	13	5.75%	5177	7.87E-03	21	4.06%	3662	5.17E-03
6	3.33%	2998	4.23E-03	14	5.78%	5212	7.92E-03	22	3.73%	3363	4.75E-03
7	4.80%	4323	6.57E-03	15	5.98%	5385	8.18E-03	23	3.02%	2725	3.84E-03
8	5.42%	4884	8.04E-03	16	6.01%	5418	8.23E-03	24	2.03%	1830	2.58E-03
Total										90,100	

2027 Hourly Traffic Volumes Per Direction and TOG Evaporative Emissions - TEVAP\_SB\_101

Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile
1	1.25%	1122	1.58E-03	9	5.53%	4984	8.20E-03	17	6.07%	5473	8.31E-03
2	0.81%	725	1.02E-03	10	5.71%	5145	8.46E-03	18	5.98%	5389	8.18E-03
3	0.66%	596	8.41E-04	11	5.79%	5214	7.92E-03	19	5.42%	4885	7.42E-03
4	0.78%	705	9.94E-04	12	5.74%	5175	7.86E-03	20	4.69%	4229	5.96E-03
5	1.64%	1482	2.09E-03	13	5.75%	5177	7.86E-03	21	4.06%	3662	5.16E-03
6	3.33%	2998	4.23E-03	14	5.78%	5212	7.91E-03	22	3.73%	3363	4.74E-03
7	4.80%	4323	6.56E-03	15	5.98%	5385	8.18E-03	23	3.02%	2725	3.84E-03
8	5.42%	4884	8.03E-03	16	6.01%	5418	8.23E-03	24	2.03%	1830	2.58E-03
Total										90,100	

3705 Haven Ave, Menlo Park, CA - On-Site Residential  
 Cumulative Traffic - Highway 101  
 Fugitive Road PM2.5 Modeling - Roadway Links, Traffic Volumes, and Fugitive Road PM2.5 Emissions  
 Year = 2027

Road Link	Description	Direction	No. Lanes	Link Length (m)	Link Length (mi)	Link Width (m)	Link Width (ft)	Release Height (m)	Average Speed (mph)	Average Vehicles per Day	Area (sq m)	Area (sq ft)	Emission (g/s/m2)	Emission (lb/hr/ft2)	Initial Vertical height	(Sigma z) Initial Vertical Dimension
FUG_NB_101	Highway 101 Northbound	NB	5	728.4	0.45	24.3	80	1.3	66.666667	90,100	17,691	190,428	3.27E-07	2.41E-07	2.6	1.21
FUG_SB_101	Highway 101 Southbound	SB	5	727.9	0.45	24.3	80	1.3	66.666667	90,100	17,679	190,298	3.27E-07	2.41E-07	2.6	1.21
Total										180,199						

Emission Factors - Fugitive PM2.5

Speed Category	1	2	3	4
Travel Speed (mph)	70	65	60	
Tire Wear - Emissions per Vehicle (g/VMT)	0.00208	0.00208	0.00208	
Brake Wear - Emissions per Vehicle (g/VMT)	0.00199	0.00199	0.00229	
Road Dust - Emissions per Vehicle (g/VMT)	0.00820	0.00820	0.0082	
Total Fugitive PM2.5 - Emissions per Vehicle (g/VMT)	0.01226	0.01226	0.01257	

Emission Factors from CT-EMFAC2017

2027 Hourly Traffic Volumes and Fugitive PM2.5 Emissions - FUG\_NB\_101

Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s
1	1.25%	1122	1.73E-03	9	5.53%	4984	7.87E-03	17	6.07%	5473	8.44E-03
2	0.81%	725	1.12E-03	10	5.71%	5145	8.13E-03	18	5.98%	5389	8.31E-03
3	0.66%	596	9.19E-04	11	5.79%	5214	8.04E-03	19	5.42%	4885	7.53E-03
4	0.78%	705	1.09E-03	12	5.74%	5175	7.98E-03	20	4.69%	4229	6.52E-03
5	1.64%	1482	2.28E-03	13	5.75%	5177	7.98E-03	21	4.06%	3662	5.65E-03
6	3.33%	2998	4.62E-03	14	5.78%	5212	8.04E-03	22	3.73%	3363	5.19E-03
7	4.80%	4323	6.67E-03	15	5.98%	5385	8.30E-03	23	3.02%	2725	4.20E-03
8	5.42%	4884	7.72E-03	16	6.01%	5418	8.35E-03	24	2.03%	1830	2.82E-03
Total										90,100	

2027 Hourly Traffic Volumes Per Direction and Fugitive PM2.5 Emissions - FUG\_SB\_101

Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile
1	1.25%	1122	1.73E-03	9	5.53%	4984	7.87E-03	17	6.07%	5473	8.43E-03
2	0.81%	725	1.12E-03	10	5.71%	5145	8.12E-03	18	5.98%	5389	8.30E-03
3	0.66%	596	9.19E-04	11	5.79%	5214	8.03E-03	19	5.42%	4885	7.53E-03
4	0.78%	705	1.09E-03	12	5.74%	5175	7.97E-03	20	4.69%	4229	6.52E-03
5	1.64%	1482	2.28E-03	13	5.75%	5177	7.98E-03	21	4.06%	3662	5.64E-03
6	3.33%	2998	4.62E-03	14	5.78%	5212	8.03E-03	22	3.73%	3363	5.18E-03

3705 Haven Ave, Menlo Park CA - Off-Site Residential  
 Cumulative Traffic - Marsh Road  
 DPM Modeling - Roadway Links, Traffic Volumes, and DPM Emissions  
 Year = 2024

Road Link	Description	Direction	No. Lanes	Link Length (m)	Link Length (mi)	Link Width (m)	Link Width (ft)	Release Height (m)	Average Speed (mph)	Average Vehicles per Day	Line Area				(Sigma z) Initial Vertical Dimension	
											Area (sq m)	Area (sq ft)	Emission (g/s/m2)	Emission (lb/hr/ft2)		Initial Vertical height (m)
DPM_NB_MAR	Marsh Road Northbound	NB	3	542.6	0.34	17.0	55.7	3.4	45	22,725	9,209	99,130	2.764E-09	2.038E-09	6.8	3.16
DPM_SB_MAR	Marsh Road Southbound	SB	3	579.3	0.36	17.0	55.7	3.4	45	22,725	9,832	105,834	2.764E-09	2.038E-09	6.8	3.16
Total										45,451						

Emission Factors

Speed Category	1	2	3	4
Travel Speed (mph)	45			
Emissions per Vehicle (g/VMT)	0.00029			

Emission Factors from CT-EMFAC2017

2024 Hourly Traffic Volumes and DPM Emissions - DPM\_NB\_MAR

Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s	
1	3.80%	864	2.32E-05	9	6.65%	1511	4.06E-05	17	6.48%	1473	3.96E-05	
2	3.14%	714	1.92E-05	10	8.30%	1886	5.07E-05	18	3.84%	872	2.34E-05	
3	2.48%	563	1.51E-05	11	6.32%	1435	3.86E-05	19	2.35%	534	1.44E-05	
4	0.99%	225	6.06E-06	12	7.64%	1736	4.67E-05	20	1.19%	271	7.28E-06	
5	0.99%	225	6.06E-06	13	6.81%	1548	4.16E-05	21	2.81%	639	1.72E-05	
6	2.15%	488	1.31E-05	14	6.65%	1511	4.06E-05	22	4.79%	1089	2.93E-05	
7	4.83%	1097	2.95E-05	15	5.99%	1360	3.66E-05	23	3.47%	789	2.12E-05	
8	3.34%	759	2.04E-05	16	4.33%	985	2.65E-05	24	0.66%	150	4.04E-06	
Total											22,725	

2024 Hourly Traffic Volumes Per Direction and DPM Emissions - DPM\_SB\_MAR

Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile	
1	3.80%	864	2.48E-05	9	6.65%	1511	4.33E-05	17	6.48%	1473	4.23E-05	
2	3.14%	714	2.05E-05	10	8.30%	1886	5.41E-05	18	3.84%	872	2.50E-05	
3	2.48%	563	1.62E-05	11	6.32%	1435	4.12E-05	19	2.35%	534	1.53E-05	
4	0.99%	225	6.47E-06	12	7.64%	1736	4.98E-05	20	1.19%	271	7.78E-06	
5	0.99%	225	6.47E-06	13	6.81%	1548	4.44E-05	21	2.81%	639	1.83E-05	
6	2.15%	488	1.40E-05	14	6.65%	1511	4.33E-05	22	4.79%	1089	3.13E-05	
7	4.83%	1097	3.15E-05	15	5.99%	1360	3.90E-05	23	3.47%	789	2.26E-05	
8	3.34%	759	2.18E-05	16	4.33%	985	2.83E-05	24	0.66%	150	4.31E-06	
Total											22,725	

3705 Haven Ave, Menlo Park CA - Off-Site Residential  
 Cumulative Traffic - Marsh Road  
 PM2.5 Modeling - Roadway Links, Traffic Volumes, and PM2.5 Emissions  
 Year = 2024

Road Link	Description	Direction	No. Lanes	Link Length (m)	Link Length (mi)	Link Width (m)	Link Width (ft)	Release Height (m)	Average Speed (mph)	Average Vehicles per Day	Area (sq m)	Area (sq ft)	Emission (g/s/m2)	Emission (lb/hr/ft2)	Initial Vertical height (m)	(Sigma z) Initial Vertical Dimension
PM2.5_NB_MAR	Marsh Road Northbound	NB	3	542.6	0.34	17.0	56	1.3	45	22,725	9,209	99,130	1.10E-08	8.09E-09	2.6	1.21
PM2.5_SB_MAR	Marsh Road Southbound	SB	3	579.3	0.36	17.0	56	1.3	45	22,725	9,832	105,834	1.10E-08	8.09E-09	2.6	1.21
Total										45,451						

Emission Factors - PM2.5

Speed Category	1	2	3	4
Travel Speed (mph)	45			
Emissions per Vehicle (g/VMT)	0.001139			

Emission Factors from CT-EMFAC2017

2024 Hourly Traffic Volumes and PM2.5 Emissions - PM2.5\_NB\_MAR

Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s	
1	1.12%	254	2.71E-05	9	7.12%	1617	1.73E-04	17	7.43%	1688	1.80E-04	
2	0.42%	94	1.01E-05	10	4.38%	994	1.06E-04	18	8.23%	1870	2.00E-04	
3	0.38%	86	9.16E-06	11	4.65%	1057	1.13E-04	19	5.73%	1303	1.39E-04	
4	0.18%	40	4.28E-06	12	5.90%	1340	1.43E-04	20	4.30%	977	1.04E-04	
5	0.46%	105	1.12E-05	13	6.17%	1403	1.50E-04	21	3.25%	740	7.89E-05	
6	0.85%	193	2.06E-05	14	6.05%	1374	1.47E-04	22	3.31%	753	8.03E-05	
7	3.73%	848	9.05E-05	15	7.05%	1602	1.71E-04	23	2.48%	564	6.02E-05	
8	7.76%	1764	1.88E-04	16	7.18%	1632	1.74E-04	24	1.88%	427	4.55E-05	
Total											22,725	

2024 Hourly Traffic Volumes Per Direction and PM2.5 Emissions - PM2.5\_SB\_MAR

Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile	
1	1.12%	254	2.89E-05	9	7.12%	1617	1.84E-04	17	7.43%	1688	1.92E-04	
2	0.42%	94	1.08E-05	10	4.38%	994	1.13E-04	18	8.23%	1870	2.13E-04	
3	0.38%	86	9.78E-06	11	4.65%	1057	1.20E-04	19	5.73%	1303	1.48E-04	
4	0.18%	40	4.56E-06	12	5.90%	1340	1.53E-04	20	4.30%	977	1.11E-04	
5	0.46%	105	1.20E-05	13	6.17%	1403	1.60E-04	21	3.25%	740	8.42E-05	
6	0.85%	193	2.20E-05	14	6.05%	1374	1.56E-04	22	3.31%	753	8.57E-05	
7	3.73%	848	9.66E-05	15	7.05%	1602	1.82E-04	23	2.48%	564	6.42E-05	
8	7.76%	1764	2.01E-04	16	7.18%	1632	1.86E-04	24	1.88%	427	4.86E-05	
Total											22,725	

3705 Haven Ave, Menlo Park CA - Off-Site Residential  
 Cumulative Traffic - Marsh Road  
 TOG Exhaust Modeling - Roadway Links, Traffic Volumes, and TOG Exhaust Emissions  
 Year = 2024

Road Link	Description	Direction	No. Lanes	Link Length (m)	Link Length (mi)	Link Width (m)	Link Width (ft)	Release Height (m)	Average Speed (mph)	Average Vehicles per Day	Area (sq m)	Area (sq ft)	Emission (g/s/m2)	Emission (lb/hr/ft2)	Initial Vertical height	(Sigma z) Initial Vertical Dimension
TEXH_NB_MAR	Marsh Road Northbound	NB	3	542.6	0.34	17.0	56	1.3	45	22,725	9,209	99,130	1.57E-07	1.16E-07	2.6	1.21
TEXH_SB_MAR	Marsh Road Southbound	SB	3	579.3	0.36	17.0	56	1.3	45	22,725	9,832	105,834	1.57E-07	1.16E-07	2.6	1.21
Total										45,451						

Emission Factors - TOG Exhaust

Speed Category	1	2	3	4
Travel Speed (mph)	45			
Emissions per Vehicle (g/VMT)	0.01634			

Emission Factors from CT-EMFAC2017

2024 Hourly Traffic Volumes and TOG Exhaust Emissions - TEXH\_NB\_MAR

Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s
1	1.12%	254	3.88E-04	9	7.12%	1617	2.48E-03	17	7.43%	1688	2.58E-03
2	0.42%	94	1.45E-04	10	4.38%	994	1.52E-03	18	8.23%	1870	2.86E-03
3	0.38%	86	1.31E-04	11	4.65%	1057	1.62E-03	19	5.73%	1303	1.99E-03
4	0.18%	40	6.13E-05	12	5.90%	1340	2.05E-03	20	4.30%	977	1.50E-03
5	0.46%	105	1.61E-04	13	6.17%	1403	2.15E-03	21	3.25%	740	1.13E-03
6	0.85%	193	2.95E-04	14	6.05%	1374	2.10E-03	22	3.31%	753	1.15E-03
7	3.73%	848	1.30E-03	15	7.05%	1602	2.45E-03	23	2.48%	564	8.63E-04
8	7.76%	1764	2.70E-03	16	7.18%	1632	2.50E-03	24	1.88%	427	6.53E-04
Total										22,725	

2024 Hourly Traffic Volumes Per Direction and TOG Exhaust Emissions - TEXH\_SB\_MAR

Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile
1	1.12%	254	4.15E-04	9	7.12%	1617	2.64E-03	17	7.43%	1688	2.76E-03
2	0.42%	94	1.54E-04	10	4.38%	994	1.62E-03	18	8.23%	1870	3.06E-03
3	0.38%	86	1.40E-04	11	4.65%	1057	1.73E-03	19	5.73%	1303	2.13E-03
4	0.18%	40	6.55E-05	12	5.90%	1340	2.19E-03	20	4.30%	977	1.60E-03
5	0.46%	105	1.71E-04	13	6.17%	1403	2.29E-03	21	3.25%	740	1.21E-03
6	0.85%	193	3.15E-04	14	6.05%	1374	2.24E-03	22	3.31%	753	1.23E-03
7	3.73%	848	1.39E-03	15	7.05%	1602	2.62E-03	23	2.48%	564	9.21E-04
8	7.76%	1764	2.88E-03	16	7.18%	1632	2.67E-03	24	1.88%	427	6.97E-04
Total										22,725	

3705 Haven Ave, Menlo Park CA - Off-Site Residential  
 Cumulative Traffic - Marsh Road  
 TOG Evaporative Emissions Modeling - Roadway Links, Traffic Volumes, and TOG Evaporative Emissions  
 Year = 2024

Road Link	Description	Direction	No. Lanes	Link Length (m)	Link Length (mi)	Link Width (m)	Link Width (ft)	Release Height (m)	Average Speed (mph)	Average Vehicles per Day	Area (sq m)	Area (sq ft)	Emission (g/s/m2)	Emission (lb/hr/ft2)	Initial Vertical height	(Sigma z) Initial Vertical Dimension
TEVAP_NB_MAR	Marsh Road Northbound	NB	3	542.6	0.34	17.0	56	1.3	45	22,725	9,209	99,130	1.88E-07	1.38E-07	2.6	1.21
TEVAP_SB_MAR	Marsh Road Southbound	SB	3	579.3	0.36	17.0	56	1.3	45	22,725	9,832	105,834	1.88E-07	1.38E-07	2.6	1.21
Total										45,451						

Emission Factors - PM2.5 - Evaporative TOG

Speed Category	1	2	3	4
Travel Speed (mph)	45			
Emissions per Vehicle per Hour (g/hour)	0.87712			
Emissions per Vehicle per Mile (g/VMT)	0.01949			

Emission Factors from CT-EMFAC2017

2024 Hourly Traffic Volumes and TOG Evaporative Emissions - TEVAP\_NB\_MAR

Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s	
1	1.12%	254	4.63E-04	9	7.12%	1617	2.95E-03	17	7.43%	1688	3.08E-03	
2	0.42%	94	1.72E-04	10	4.38%	994	1.82E-03	18	8.23%	1870	3.41E-03	
3	0.38%	86	1.57E-04	11	4.65%	1057	1.93E-03	19	5.73%	1303	2.38E-03	
4	0.18%	40	7.32E-05	12	5.90%	1340	2.45E-03	20	4.30%	977	1.78E-03	
5	0.46%	105	1.92E-04	13	6.17%	1403	2.56E-03	21	3.25%	740	1.35E-03	
6	0.85%	193	3.52E-04	14	6.05%	1374	2.51E-03	22	3.31%	753	1.37E-03	
7	3.73%	848	1.55E-03	15	7.05%	1602	2.92E-03	23	2.48%	564	1.03E-03	
8	7.76%	1764	3.22E-03	16	7.18%	1632	2.98E-03	24	1.88%	427	7.79E-04	
Total											22,725	

2024 Hourly Traffic Volumes Per Direction and TOG Evaporative Emissions - TEVAP\_SB\_MAR

Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile	
1	1.12%	254	4.95E-04	9	7.12%	1617	3.15E-03	17	7.43%	1688	3.29E-03	
2	0.42%	94	1.84E-04	10	4.38%	994	1.94E-03	18	8.23%	1870	3.65E-03	
3	0.38%	86	1.67E-04	11	4.65%	1057	2.06E-03	19	5.73%	1303	2.54E-03	
4	0.18%	40	7.81E-05	12	5.90%	1340	2.61E-03	20	4.30%	977	1.90E-03	
5	0.46%	105	2.05E-04	13	6.17%	1403	2.73E-03	21	3.25%	740	1.44E-03	
6	0.85%	193	3.76E-04	14	6.05%	1374	2.68E-03	22	3.31%	753	1.47E-03	
7	3.73%	848	1.65E-03	15	7.05%	1602	3.12E-03	23	2.48%	564	1.10E-03	
8	7.76%	1764	3.44E-03	16	7.18%	1632	3.18E-03	24	1.88%	427	8.31E-04	
Total											22,725	



3705 Haven Ave, Menlo Park CA - Off-Site Residential  
 Cumulative Traffic - Marsh Road  
 Fugitive Road PM2.5 Modeling - Roadway Links, Traffic Volumes, and Fugitive Road PM2.5 Emissions  
 Year = 2024

Road Link	Description	Direction	No. Lanes	Link Length (m)	Link Length (mi)	Link Width (m)	Link Width (ft)	Release Height (m)	Average Speed (mph)	Average Vehicles per Day	Area (sq m)	Area (sq ft)	Emission (g/s/m2)	Emission (lb/hr/ft2)	Initial Vertical height	(Sigma z) Initial Vertical Dimension
FUG_NB_MAR	Marsh Road Northbound	NB	3	542.6	0.34	17.0	56	1.3	45	22,725	9,209	99,130	2.04E-07	1.50E-07	2.6	1.21
FUG_SB_MAR	Marsh Road Southbound	SB	3	579.3	0.36	17.0	56	1.3	45	22,725	9,832	105,834	2.04E-07	1.50E-07	2.6	1.21
Total										45,451						

Emission Factors - Fugitive PM2.5

Speed Category	1	2	3	4
Travel Speed (mph)	45			
Tire Wear - Emissions per Vehicle (g/VMT)	0.00205			
Brake Wear - Emissions per Vehicle (g/VMT)	0.00391			
Road Dust - Emissions per Vehicle (g/VMT)	0.01519			
Total Fugitive PM2.5 - Emissions per Vehicle (g/VMT)	0.02116			

Emission Factors from CT-EMFAC2017

2024 Hourly Traffic Volumes and Fugitive PM2.5 Emissions - FUG\_NB\_MAR

Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s	
1	1.12%	254	5.03E-04	9	7.12%	1617	3.20E-03	17	7.43%	1688	3.34E-03	
2	0.42%	94	1.87E-04	10	4.38%	994	1.97E-03	18	8.23%	1870	3.71E-03	
3	0.38%	86	1.70E-04	11	4.65%	1057	2.09E-03	19	5.73%	1303	2.58E-03	
4	0.18%	40	7.94E-05	12	5.90%	1340	2.65E-03	20	4.30%	977	1.94E-03	
5	0.46%	105	2.08E-04	13	6.17%	1403	2.78E-03	21	3.25%	740	1.47E-03	
6	0.85%	193	3.82E-04	14	6.05%	1374	2.72E-03	22	3.31%	753	1.49E-03	
7	3.73%	848	1.68E-03	15	7.05%	1602	3.17E-03	23	2.48%	564	1.12E-03	
8	7.76%	1764	3.50E-03	16	7.18%	1632	3.23E-03	24	1.88%	427	8.45E-04	
Total											22,725	

2024 Hourly Traffic Volumes Per Direction and Fugitive PM2.5 Emissions - FUG\_SB\_MAR

Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile	
1	1.12%	254	5.37E-04	9	7.12%	1617	3.42E-03	17	7.43%	1688	3.57E-03	
2	0.42%	94	2.00E-04	10	4.38%	994	2.10E-03	18	8.23%	1870	3.96E-03	
3	0.38%	86	1.82E-04	11	4.65%	1057	2.24E-03	19	5.73%	1303	2.76E-03	
4	0.18%	40	8.48E-05	12	5.90%	1340	2.83E-03	20	4.30%	977	2.07E-03	
5	0.46%	105	2.22E-04	13	6.17%	1403	2.97E-03	21	3.25%	740	1.56E-03	
6	0.85%	193	4.08E-04	14	6.05%	1374	2.91E-03	22	3.31%	753	1.59E-03	
7	3.73%	848	1.79E-03	15	7.05%	1602	3.39E-03	23	2.48%	564	1.19E-03	
8	7.76%	1764	3.73E-03	16	7.18%	1632	3.45E-03	24	1.88%	427	9.02E-04	
Total											22,725	

3705 Haven Ave, Menlo Park CA - On-Site Residential  
 Cumulative Traffic - Marsh Road  
 DPM Modeling - Roadway Links, Traffic Volumes, and DPM Emissions  
 Year = 2027

Road Link	Description	Direction	No. Lanes	Link Length (m)	Link Length (mi)	Link Width (m)	Link Width (ft)	Release Height (m)	Average Speed (mph)	Average Vehicles per Day	Line Area				(Sigma z) Initial Vertical Dimension	
											Area (sq m)	Area (sq ft)	Emission (g/s/m2)	Emission (lb/hr/ft2)		Initial Vertical height (m)
DPM_NB_MAR	Marsh Road Northbound	NB	3	728.4	0.45	17.0	55.7	3.4	45	23,400	12,363	133,074	2.320E-09	1.711E-09	6.8	3.16
DPM_SB_MAR	Marsh Road Southbound	SB	3	727.9	0.45	17.0	55.7	3.4	45	23,400	12,355	132,983	2.320E-09	1.711E-09	6.8	3.16
Total										46,801						

Emission Factors

Speed Category	1	2	3	4
Travel Speed (mph)	45			
Emissions per Vehicle (g/VMT)	0.00023			

Emission Factors from CT-EMFAC2017

2027 Hourly Traffic Volumes and DPM Emissions - DPM\_NB\_MAR

Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s
1	4.02%	941	2.77E-05	9	6.62%	1550	4.56E-05	17	6.46%	1512	4.45E-05
2	3.38%	790	2.32E-05	10	8.04%	1881	5.53E-05	18	3.89%	910	2.68E-05
3	2.57%	602	1.77E-05	11	6.11%	1430	4.21E-05	19	2.28%	534	1.57E-05
4	0.96%	226	6.64E-06	12	7.59%	1776	5.22E-05	20	0.96%	226	6.64E-06
5	0.96%	226	6.64E-06	13	7.11%	1663	4.89E-05	21	2.89%	677	1.99E-05
6	2.25%	527	1.55E-05	14	6.62%	1550	4.56E-05	22	4.82%	1129	3.32E-05
7	4.50%	1053	3.10E-05	15	6.14%	1437	4.23E-05	23	3.54%	828	2.43E-05
8	3.25%	760	2.24E-05	16	4.21%	986	2.90E-05	24	0.80%	188	5.53E-06
Total										23,400	

2027 Hourly Traffic Volumes Per Direction and DPM Emissions - DPM\_SB\_MAR

Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile
1	4.02%	941	2.77E-05	9	6.62%	1550	4.56E-05	17	6.46%	1512	4.45E-05
2	3.38%	790	2.32E-05	10	8.04%	1881	5.53E-05	18	3.89%	910	2.68E-05
3	2.57%	602	1.77E-05	11	6.11%	1430	4.20E-05	19	2.28%	534	1.57E-05
4	0.96%	226	6.64E-06	12	7.59%	1776	5.22E-05	20	0.96%	226	6.64E-06
5	0.96%	226	6.64E-06	13	7.11%	1663	4.89E-05	21	2.89%	677	1.99E-05
6	2.25%	527	1.55E-05	14	6.62%	1550	4.56E-05	22	4.82%	1129	3.32E-05
7	4.50%	1053	3.10E-05	15	6.14%	1437	4.23E-05	23	3.54%	828	2.43E-05
8	3.25%	760	2.23E-05	16	4.21%	986	2.90E-05	24	0.80%	188	5.53E-06
Total										23,400	

3705 Haven Ave, Menlo Park CA - On-Site Residential  
 Cumulative Traffic - Marsh Road  
 PM2.5 Modeling - Roadway Links, Traffic Volumes, and PM2.5 Emissions  
 Year = 2027

Road Link	Description	Direction	No. Lanes	Link Length (m)	Link Length (mi)	Link Width (m)	Link Width (ft)	Release Height (m)	Average Speed (mph)	Average Vehicles per Day	Area (sq m)	Area (sq ft)	Emission (g/s/m2)	Emission (lb/hr/ft2)	Initial Vertical height (m)	(Sigma z) Initial Vertical Dimension
PM2.5_NB_MAR	Marsh Road Northbound	NB	3	728.4	0.45	17.0	56	1.3	45	23,400	12,363	133,074	9.59E-09	7.07E-09	2.6	1.21
PM2.5_SB_MAR	Marsh Road Southbound	SB	3	727.9	0.45	17.0	56	1.3	45	23,400	12,355	132,983	9.59E-09	7.07E-09	2.6	1.21
Total										46,801						

Emission Factors - PM2.5

Speed Category	1	2	3	4
Travel Speed (mph)	45			
Emissions per Vehicle (g/VMT)	0.000967			

Emission Factors from CT-EMFAC2017

2027 Hourly Traffic Volumes and PM2.5 Emissions - PM2.5\_NB\_MAR

Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s	
1	1.12%	262	3.18E-05	9	7.12%	1666	2.03E-04	17	7.43%	1739	2.11E-04	
2	0.41%	97	1.18E-05	10	4.37%	1024	1.24E-04	18	8.23%	1927	2.34E-04	
3	0.37%	87	1.06E-05	11	4.65%	1088	1.32E-04	19	5.74%	1342	1.63E-04	
4	0.18%	42	5.07E-06	12	5.89%	1379	1.68E-04	20	4.31%	1007	1.22E-04	
5	0.46%	107	1.30E-05	13	6.16%	1442	1.75E-04	21	3.25%	761	9.25E-05	
6	0.85%	198	2.41E-05	14	6.05%	1415	1.72E-04	22	3.31%	775	9.43E-05	
7	3.73%	873	1.06E-04	15	7.06%	1651	2.01E-04	23	2.48%	581	7.06E-05	
8	7.76%	1817	2.21E-04	16	7.19%	1681	2.04E-04	24	1.88%	439	5.33E-05	
Total											23,400	

2027 Hourly Traffic Volumes Per Direction and PM2.5 Emissions - PM2.5\_SB\_MAR

Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile	
1	1.12%	262	3.18E-05	9	7.12%	1666	2.02E-04	17	7.43%	1739	2.11E-04	
2	0.41%	97	1.17E-05	10	4.37%	1024	1.24E-04	18	8.23%	1927	2.34E-04	
3	0.37%	87	1.06E-05	11	4.65%	1088	1.32E-04	19	5.74%	1342	1.63E-04	
4	0.18%	42	5.07E-06	12	5.89%	1379	1.68E-04	20	4.31%	1007	1.22E-04	
5	0.46%	107	1.30E-05	13	6.16%	1442	1.75E-04	21	3.25%	761	9.25E-05	
6	0.85%	198	2.41E-05	14	6.05%	1415	1.72E-04	22	3.31%	775	9.42E-05	
7	3.73%	873	1.06E-04	15	7.06%	1651	2.01E-04	23	2.48%	581	7.06E-05	
8	7.76%	1817	2.21E-04	16	7.19%	1681	2.04E-04	24	1.88%	439	5.33E-05	
Total											23,400	

3705 Haven Ave, Menlo Park CA - On-Site Residential  
 Cumulative Traffic - Marsh Road  
 TOG Exhaust Modeling - Roadway Links, Traffic Volumes, and TOG Exhaust Emissions  
 Year = 2027

Road Link	Description	Direction	No. Lanes	Link Length (m)	Link Length (mi)	Link Width (m)	Link Width (ft)	Release Height (m)	Average Speed (mph)	Average Vehicles per Day	Area (sq m)	Area (sq ft)	Emission (g/s/m2)	Emission (lb/hr/ft2)	Initial Vertical height	(Sigma z) Initial Vertical Dimension
TEXH_NB_MAR	Marsh Road Northbound	NB	3	728.4	0.45	17.0	56	1.3	45	23,400	12,363	133,074	1.31E-07	9.66E-08	2.6	1.21
TEXH_SB_MAR	Marsh Road Southbound	SB	3	727.9	0.45	17.0	56	1.3	45	23,400	12,355	132,983	1.31E-07	9.66E-08	2.6	1.21
Total										46,801						

Emission Factors - TOG Exhaust

Speed Category	1	2	3	4
Travel Speed (mph)	45			
Emissions per Vehicle (g/VMT)	0.01321			

Emission Factors from CT-EMFAC2017

2027 Hourly Traffic Volumes and TOG Exhaust Emissions - TEXH\_NB\_MAR

Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s
1	1.12%	262	4.34E-04	9	7.12%	1666	2.77E-03	17	7.43%	1739	2.89E-03
2	0.41%	97	1.61E-04	10	4.37%	1024	1.70E-03	18	8.23%	1927	3.20E-03
3	0.37%	87	1.45E-04	11	4.65%	1088	1.81E-03	19	5.74%	1342	2.23E-03
4	0.18%	42	6.92E-05	12	5.89%	1379	2.29E-03	20	4.31%	1007	1.67E-03
5	0.46%	107	1.78E-04	13	6.16%	1442	2.40E-03	21	3.25%	761	1.26E-03
6	0.85%	198	3.29E-04	14	6.05%	1415	2.35E-03	22	3.31%	775	1.29E-03
7	3.73%	873	1.45E-03	15	7.06%	1651	2.74E-03	23	2.48%	581	9.65E-04
8	7.76%	1817	3.02E-03	16	7.19%	1681	2.79E-03	24	1.88%	439	7.29E-04
Total										23,400	

2027 Hourly Traffic Volumes Per Direction and TOG Exhaust Emissions - TEXH\_SB\_MAR

Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile
1	1.12%	262	4.34E-04	9	7.12%	1666	2.76E-03	17	7.43%	1739	2.89E-03
2	0.41%	97	1.60E-04	10	4.37%	1024	1.70E-03	18	8.23%	1927	3.20E-03
3	0.37%	87	1.45E-04	11	4.65%	1088	1.81E-03	19	5.74%	1342	2.23E-03
4	0.18%	42	6.92E-05	12	5.89%	1379	2.29E-03	20	4.31%	1007	1.67E-03
5	0.46%	107	1.78E-04	13	6.16%	1442	2.39E-03	21	3.25%	761	1.26E-03
6	0.85%	198	3.29E-04	14	6.05%	1415	2.35E-03	22	3.31%	775	1.29E-03
7	3.73%	873	1.45E-03	15	7.06%	1651	2.74E-03	23	2.48%	581	9.64E-04
8	7.76%	1817	3.01E-03	16	7.19%	1681	2.79E-03	24	1.88%	439	7.28E-04
Total										23,400	

3705 Haven Ave, Menlo Park CA - On-Site Residential  
 Cumulative Traffic - Marsh Road  
 TOG Evaporative Emissions Modeling - Roadway Links, Traffic Volumes, and TOG Evaporative Emissions  
 Year = 2027

Road Link	Description	Direction	No. Lanes	Link Length (m)	Link Length (mi)	Link Width (m)	Link Width (ft)	Release Height (m)	Average Speed (mph)	Average Vehicles per Day	Area (sq m)	Area (sq ft)	Emission (g/s/m2)	Emission (lb/hr/ft2)	Initial Vertical height	(Sigma z) Initial Vertical Dimension
TEVAP_NB_MAR	Marsh Road Northbound	NB	3	728.4	0.45	17.0	56	1.3	45	23,400	12,363	133,074	1.74E-07	1.28E-07	2.6	1.21
TEVAP_SB_MAR	Marsh Road Southbound	SB	3	727.9	0.45	17.0	56	1.3	45	23,400	12,355	132,983	1.74E-07	1.28E-07	2.6	1.21
Total										46,801						

Emission Factors - PM2.5 - Evaporative TOG

Speed Category	1	2	3	4
Travel Speed (mph)	45			
Emissions per Vehicle per Hour (g/hour)	0.78950			
Emissions per Vehicle per Mile (g/VMT)	0.01754			

Emission Factors from CT-EMFAC2017

2027 Hourly Traffic Volumes and TOG Evaporative Emissions - TEVAP\_NB\_MAR

Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s	
1	1.12%	262	5.77E-04	9	7.12%	1666	3.68E-03	17	7.43%	1739	3.84E-03	
2	0.41%	97	2.13E-04	10	4.37%	1024	2.26E-03	18	8.23%	1927	4.25E-03	
3	0.37%	87	1.92E-04	11	4.65%	1088	2.40E-03	19	5.74%	1342	2.96E-03	
4	0.18%	42	9.20E-05	12	5.89%	1379	3.04E-03	20	4.31%	1007	2.22E-03	
5	0.46%	107	2.36E-04	13	6.16%	1442	3.18E-03	21	3.25%	761	1.68E-03	
6	0.85%	198	4.37E-04	14	6.05%	1415	3.12E-03	22	3.31%	775	1.71E-03	
7	3.73%	873	1.93E-03	15	7.06%	1651	3.64E-03	23	2.48%	581	1.28E-03	
8	7.76%	1817	4.01E-03	16	7.19%	1681	3.71E-03	24	1.88%	439	9.68E-04	
Total											23,400	

2027 Hourly Traffic Volumes Per Direction and TOG Evaporative Emissions - TEVAP\_SB\_MAR

Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile	
1	1.12%	262	5.77E-04	9	7.12%	1666	3.67E-03	17	7.43%	1739	3.83E-03	
2	0.41%	97	2.13E-04	10	4.37%	1024	2.26E-03	18	8.23%	1927	4.25E-03	
3	0.37%	87	1.92E-04	11	4.65%	1088	2.40E-03	19	5.74%	1342	2.96E-03	
4	0.18%	42	9.19E-05	12	5.89%	1379	3.04E-03	20	4.31%	1007	2.22E-03	
5	0.46%	107	2.36E-04	13	6.16%	1442	3.18E-03	21	3.25%	761	1.68E-03	
6	0.85%	198	4.37E-04	14	6.05%	1415	3.12E-03	22	3.31%	775	1.71E-03	
7	3.73%	873	1.92E-03	15	7.06%	1651	3.64E-03	23	2.48%	581	1.28E-03	
8	7.76%	1817	4.00E-03	16	7.19%	1681	3.71E-03	24	1.88%	439	9.67E-04	
Total											23,400	

3705 Haven Ave, Menlo Park CA - On-Site Residential  
 Cumulative Traffic - Marsh Road  
 Fugitive Road PM2.5 Modeling - Roadway Links, Traffic Volumes, and Fugitive Road PM2.5 Emissions  
 Year = 2027

Road Link	Description	Direction	No. Lanes	Link Length (m)	Link Length (mi)	Link Width (m)	Link Width (ft)	Release Height (m)	Average Speed (mph)	Average Vehicles per Day	Area (sq m)	Area (sq ft)	Emission (g/s/m2)	Emission (lb/hr/ft2)	Initial Vertical height	(Sigma z) Initial Vertical Dimension
FUG_NB_MAR	Marsh Road Northbound	NB	3	728.4	0.45	17.0	56	1.3	45	23,400	12,363	133,074	2.13E-07	1.57E-07	2.6	1.21
FUG_SB_MAR	Marsh Road Southbound	SB	3	727.9	0.45	17.0	56	1.3	45	23,400	12,355	132,983	2.13E-07	1.57E-07	2.6	1.21
Total										46,801						

Emission Factors - Fugitive PM2.5

Speed Category	1	2	3	4
Travel Speed (mph)	45			
Tire Wear - Emissions per Vehicle (g/VMT)	0.00205			
Brake Wear - Emissions per Vehicle (g/VMT)	0.00390			
Road Dust - Emissions per Vehicle (g/VMT)	0.01553			
Total Fugitive PM2.5 - Emissions per Vehicle (g/VMT)	0.02148			

Emission Factors from CT-EMFAC2017

2027 Hourly Traffic Volumes and Fugitive PM2.5 Emissions - FUG\_NB\_MAR

Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s	
1	1.12%	262	7.06E-04	9	7.12%	1666	4.50E-03	17	7.43%	1739	4.70E-03	
2	0.41%	97	2.61E-04	10	4.37%	1024	2.76E-03	18	8.23%	1927	5.20E-03	
3	0.37%	87	2.35E-04	11	4.65%	1088	2.94E-03	19	5.74%	1342	3.62E-03	
4	0.18%	42	1.13E-04	12	5.89%	1379	3.72E-03	20	4.31%	1007	2.72E-03	
5	0.46%	107	2.89E-04	13	6.16%	1442	3.90E-03	21	3.25%	761	2.06E-03	
6	0.85%	198	5.35E-04	14	6.05%	1415	3.82E-03	22	3.31%	775	2.09E-03	
7	3.73%	873	2.36E-03	15	7.06%	1651	4.46E-03	23	2.48%	581	1.57E-03	
8	7.76%	1817	4.91E-03	16	7.19%	1681	4.54E-03	24	1.88%	439	1.18E-03	
Total											23,400	

2027 Hourly Traffic Volumes Per Direction and Fugitive PM2.5 Emissions - FUG\_SB\_MAR

Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile	
1	1.12%	262	7.06E-04	9	7.12%	1666	4.50E-03	17	7.43%	1739	4.69E-03	
2	0.41%	97	2.61E-04	10	4.37%	1024	2.76E-03	18	8.23%	1927	5.20E-03	
3	0.37%	87	2.35E-04	11	4.65%	1088	2.94E-03	19	5.74%	1342	3.62E-03	
4	0.18%	42	1.13E-04	12	5.89%	1379	3.72E-03	20	4.31%	1007	2.72E-03	
5	0.46%	107	2.89E-04	13	6.16%	1442	3.89E-03	21	3.25%	761	2.05E-03	
6	0.85%	198	5.35E-04	14	6.05%	1415	3.82E-03	22	3.31%	775	2.09E-03	
7	3.73%	873	2.36E-03	15	7.06%	1651	4.46E-03	23	2.48%	581	1.57E-03	
8	7.76%	1817	4.90E-03	16	7.19%	1681	4.54E-03	24	1.88%	439	1.18E-03	
Total											23,400	

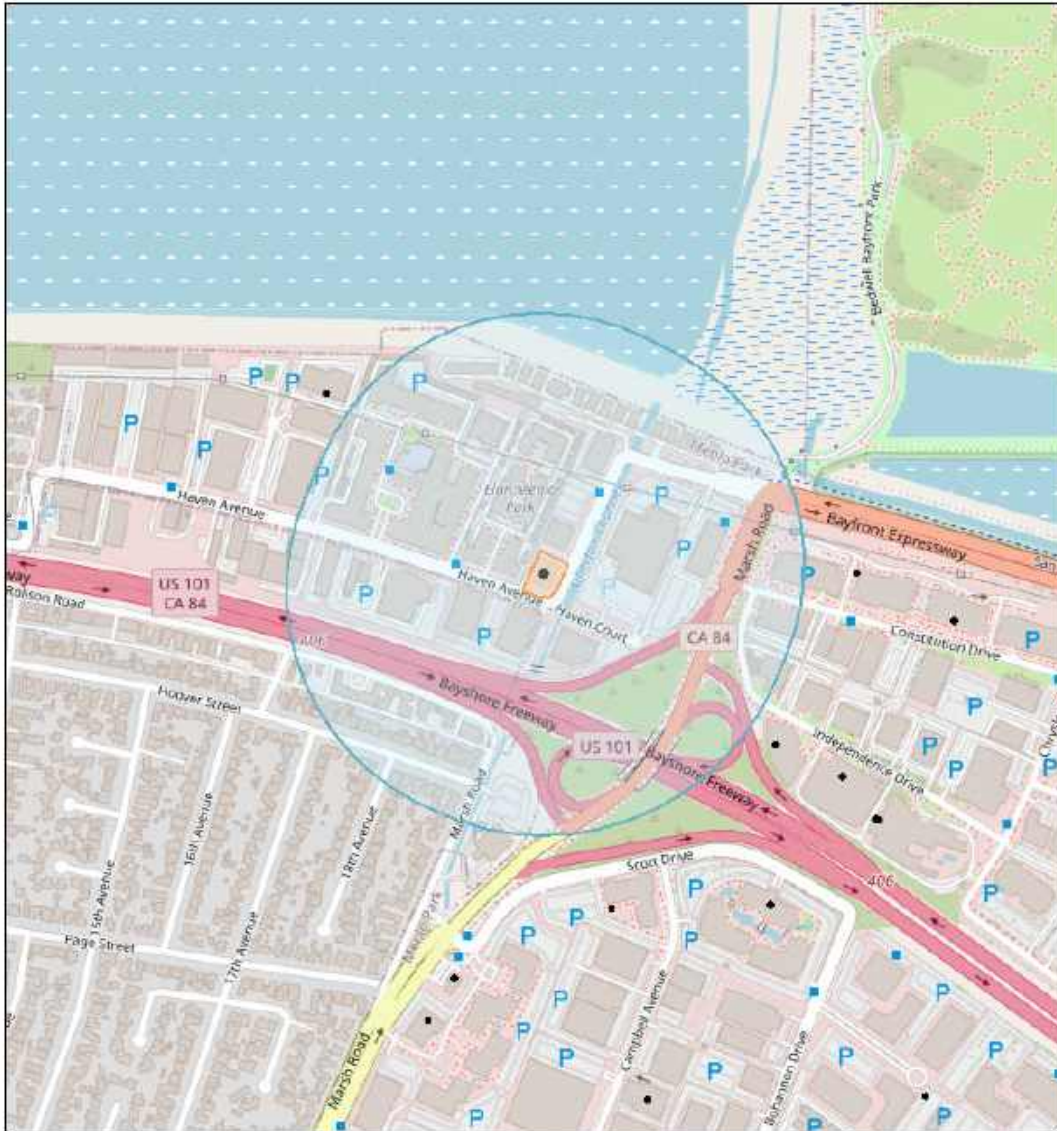


# Screening Report

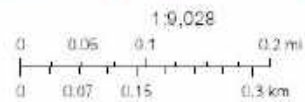
## Area of Interest (AOI) Information

Area : 3,756,346.07 ft<sup>2</sup>

Oct 10 2023 12:46:26 Pacific Daylight Time



• Permitted Stationary Sources



Map data © OpenStreetMap contributors, CC-BY-SA

## Summary

Name	Count	Area(ft <sup>2</sup> )	Length(ft)
Permitted Stationary Sources	0	N/A	N/A

NOTE: A larger buffer than 1000 feet may be warranted depending on proximity to significant sources.





5/30/22

Oliver Davis  
3705 Haven LLC  
3705 Haven Ave.  
Menlo Park, CA 94025  
(310)498-7575  
oliver@marchcapitalfund.com

Re: Tree protection for proposed apartment building at 3705 Haven Avenue, Menlo Park, CA 94025

Dear Oliver,

At your request, we have visited the property referenced above to evaluate the trees present with respect to the proposed project. The report below contains our analysis.

## **Summary**

There are 17 trees present on and adjacent to this property. Three are heritage trees, two are street trees, and the rest are non-protected. Four of the non-protected trees inventoried are stumps. All three heritage trees, which are all on this property, are recommended for removal, as they conflict with project features.

The two street trees are in good condition and should be retained and protected as detailed in the Recommendations, below. With proper protection, both are expected to survive and thrive during and after construction. No impact analysis was performed for the non-protected trees.

## Assignment and Limits of Report

We have been asked to write a report detailing impacts to trees from the proposed apartment building on this property. This report may be used by our client and other project members as needed to inform all stages of the project.

All observations were made from the ground with basic equipment. No root collar excavations or aerial inspections were performed. No project features had been staked at the time of our site visit.

## Tree Regulations

In the City of Menlo Park, native oak trees are protected at 10 inches DBH (diameter at breast height, 4.5 feet above grade), and all other trees are protected at 15 inches DBH. Street trees are protected regardless of size.

According to the Heritage Tree Ordinance Administrative Guidelines, the dollar value of replacement trees is determined as follows:

- One (1) #5 container – \$100
- One (1) #15 container – \$200
- One (1) 24-inch tree box – \$400
- One (1) 36-inch tree box – \$1,200
- One (1) 48-inch tree box – \$5,000
- One (1) 60-inch tree box – \$7,000

We highly recommend that all members of the project team familiarize themselves with the following documents guiding tree protection during construction in Menlo Park, as they are complex, and failure to follow them can result in project delays:

1. Heritage Tree Ordinance Administrative Guidelines - <https://www.menlopark.org/DocumentCenter/View/25577/Heritage-tree-ordinance-administrative-guidelines---draft>
2. Arborist Report Requirements: Large Projects - <https://www.menlopark.org/DocumentCenter/View/25468/Arborist-report-large-proj>

[ect-requirements#:~:text=The%20Arborist%20Report%20shall%20include,proposed%20for%20removal%20of%20heavy](#)

3. Tree Protection Specifications -

<https://www.menlopark.org/DocumentCenter/View/90/Tree-Protection-Specifications>

## Observations

### *Trees*

There are 17 trees on and adjacent to this property (Images 1-17, below). Five are Callery pears (*Pyrus calleryana*), four are stumps, two are coast live oaks (*Quercus agrifolia*), and the remaining six are of various species.

Protected statuses - only trees #8, 14, and 15 are Heritage Trees. Trees #9 and 13 are street trees. The rest are non-protected. Trees #6 and 17 overhang the property from adjacent properties.

Health - Most of the trees present are in reasonably good health, with the exception of the stumps.

Structural issues - eucalyptus #8 has poor structure resulting from utility clearance, and also appears to have been topped in the past beyond what is usually done for utilities. All other trees present have reasonably strong branching architecture.

### OTHER NOTES

#### *Current Site Conditions*

This is a corner property with one existing one-story office-type commercial building. There is a landscaped area wrapping around the building on both street frontages, and a parking lot with two smaller landscaped areas wrapping around the other two sides.

There is a typical wooden fence along the western property line, and no fencing on the other three sides.

## *Project Features*

A seven-story apartment building is proposed, to occupy most of the site. Parking will be on the first two floors. There appears to be landscaping proposed on the north, west, and south sides of the building. External bike parking areas are proposed at the southwest and southeast corners of the building.

No hardscape work is shown on the plans provided to me. Driveways and public sidewalks appear to be shown in the existing locations. A new walkway to the lobby/lounge doors will be needed on the south side toward the middle of the building. Other hardscape may also be needed.

No grading, drainage, utilities, or fencing are shown on the plans provided to me. Grading requirements appear minimal, as the site appears flat.

## *Potential Conflicts (Protected Trees Only)*

Trees #1-7, 10-12, 16, and 17 - these trees are not protected and have not, therefore, been evaluated for potential conflicts.

Trees #3 and 10-12 are stumps.

Trees #8, 14, and 15 - these trees lie within the proposed building footprint. Tree #8 is in the proposed utilities area; tree #14 is in the proposed bike parking area; and tree #15 is in the proposed lobby/lounge.

Trees #9 and 13 - these street trees are small enough that their entire TPZs<sup>1</sup> are contained within the existing park strip, which appears to be proposed for retention.

Note that all tree locations are approximate, as no survey was provided.

## **Testing and Analysis**

Tree DBHs were taken using a diameter tape measure if trunks were accessible. Multistemmed trees were measured below the point where the leaders diverge, if possible. The DBHs of trees with non-accessible trunks were estimated visually. All trees over four inches in DBH were inventoried, as well as street trees of all sizes.

---

<sup>1</sup> Tree protection zones. See Discussion, Tree Map, and Tree Table for more detail.

Vigor ratings are based on tree appearance and experiential knowledge of each species.

Tree location data was collected using a GPS smartphone application and processed in GIS software to create the maps included in this report. Due to the error inherent in GPS data collection, and due also to differences between GPS data and CAD drawings, tree locations shown on the map below are approximate.

We visited the site once, on 4/29/2022. All observations and photographs in this report were taken at that site visit.

The tree protection analysis in this report is based on the seven-page plan set titled "3705 Haven Ave, Menlo Park, CA," dated 4/11/2022, provided to us electronically by the client. No survey was provided.

## **Discussion**

### *Tree Protection Zones (TPZs)*

Tree roots grow where conditions are favorable, and their spatial arrangement is therefore unpredictable. Favorable conditions vary among species, but generally include the presence of moisture, and soft soil texture with low compaction.

Contrary to popular belief, roots of all tree species grow primarily in the top two to three feet of soil in the clay soils typical for this geographic region, with a small number of roots sometimes occurring at greater depths. Some species have taproots when young, but these almost universally disappear with age. At maturity, a tree's root system may extend out from the trunk farther than the tree is tall, and the tree maintains its upright position in much the same manner as a wine glass.

The optimal size of the area around a tree which should be protected from disturbance depends on the tree's size, species, and vigor, as shown in the following table (adapted from *Trees & Construction*, Matheny and Clark, 1998):

<b>Species tolerance</b>	<b>Tree vitality<sup>2</sup></b>	<b>Distance from trunk (feet per inch trunk diameter)</b>
Good	High	0.5
	Moderate	0.75
	Low	1
Moderate	High	0.75
	Moderate	1
	Low	1.25
Poor	High	1
	Moderate	1.25
	Low	1.5

It is important to note that some roots will almost certainly be present outside the TPZ; however, root loss outside the TPZ is unlikely to cause tree decline.

Some of the tree species present here are not evaluated in Trees & Construction. Our own evaluation of them based on our experience with the species is as follows:

<b>Species</b>	<b>Estimated tolerance</b>	<b>Reason for tolerance rating</b>
Crape myrtle	2	Performs well in most landscapes but grows relatively slowly
Zelkova	1	Disturbance tolerance unknown, so we have assigned this tree the lowest value.

### *Critical Root Zones (CRZs)*

Although any root loss inside the TPZ may cause a short-term decline in tree condition, trees can often recover adequately from a small amount of root loss in the TPZ.

Tree stability is impacted at a shorter distance from the tree trunk. For linear cuts on one side of the tree, the minimum distance typically recommended is three times the DBH, measured from the edge of the trunk (*Best Management Practices: Root Management*, Costello, Watson, and Smiley, 2017). This is called the critical root zone (CRZ), as any distance shorter than this increases a tree's likelihood of failure.

---

<sup>2</sup> Matheny & Clark uses tree age, but we feel a tree's vitality more accurately reflects its ability to handle stress.

### *Tree Appraisal Methods*

We use the trunk formula technique with discounting for condition and functional and external limitations, as detailed in the second printing of the 10th Edition of the *Guide for Plant Appraisal* (Council of Tree and Landscape Appraisers, 2019).

For palms, we use the approximate height of clear trunk (estimated visually) multiplied by the per-foot cost given in the regional plant appraisal committee species classification for California.

### **Conclusions**

Trees #1-7, 16, and 17 - these trees are not protected and have not, therefore, been evaluated for construction impacts.

Trees #3 and 10-12 are stumps.

Trees #8, 14, and 15 - these trees are incompatible with the project as proposed.

Trees #9 and 13 - minimal impacts are likely from the project as proposed.

Trees #10-12 are stumps.

Note that all tree locations are approximate, as no survey was provided.

## Recommendations

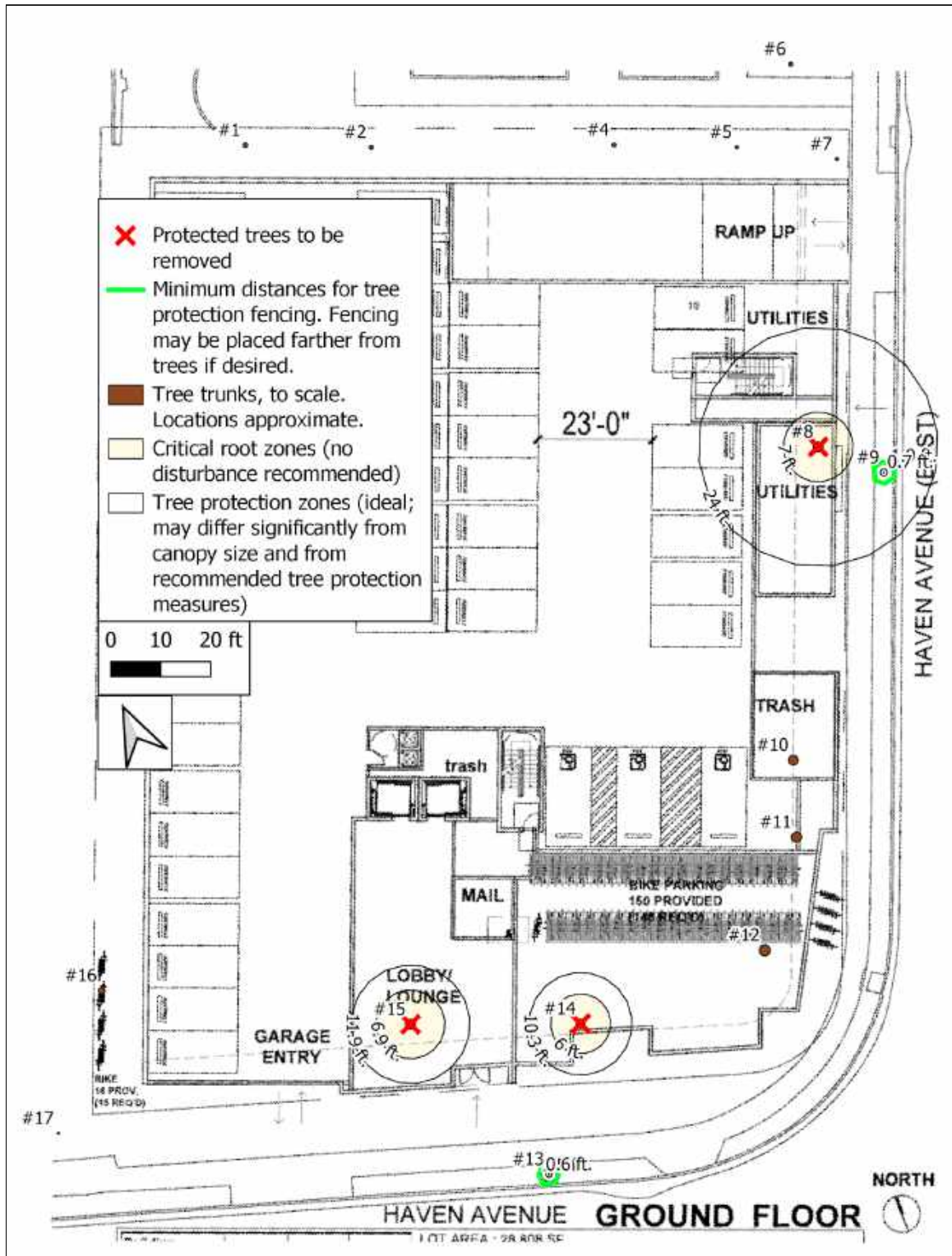
1. Remove trees #8, 14, and 15, upon receipt of a permit from the City of Menlo Park.
  - a. Unless otherwise specified by city staff, non-protected trees #1-5, 7, and 16 may be removed with no restrictions.<sup>3</sup>
2. Install tree protection fencing approximately as shown in the Tree Map, below.
  - a. Minimum distances from trunk centers are given on the Tree Map. A larger area may be protected if desired.
  - b. Where existing barriers which will be retained impede access comparably to tree protection fencing, these barriers are an acceptable substitute for tree protection fencing.
  - a. Please be aware that tree protection fencing may differ from ideal tree protection zones, and from canopy sizes.
  - c. Tree protection fencing shall comprise 6' chain link fabric mounted on 1.5" diameter metal posts driven into the ground.
  - d. Place a 6" layer of wood chips inside tree protection fencing.
  - e. Tree protection fencing shall adhere to the requirements in the document titled "Tree Protection Specifications," available at <https://www.menlopark.org/DocumentCenter/View/90/Tree-Protection-Specifications>
3. After construction is complete, install new trees or pay in-lieu fees to mitigate the removal of trees #8, 14, and 15, as specified by city staff.
  - a. The total appraised value of these trees is \$37,700.00, with individual values given in the Tree Table, below.

---

<sup>3</sup> Note that trees #6 and 17 are on neighboring properties.



# Tree Map



# Supporting Photographs

Image 1: Callery pear #1





*Image 2: Callery pear #2*





*Image 3: stump #3*





*Image 4: Callery pear #4*



*Image 5: Callery pear #5*





*Image 6: Callery pear #6*



*Image 7: Japanese maple #7*





*Image 8: eucalyptus #8*



Image 9: crape myrtle #9





*Image 10: stump #10*



*Image 11: stump #11*





Image 12: stump #12



*Image 13: linden #13*





*Image 14: coast live oak #14*



*Image 15: coast live oak #15*





Image 16: coast redwood #16





Image 17: zelkova #17



Respectfully submitted,



Katherine Naegele

She/Her

Consulting Arborist

Master of Forestry, UC Berkeley

International Society of Arboriculture Certified Arborist #WE-9658A

ISA Tree Risk Assessment Qualification Credentialed

American Society of Consulting Arborists, Member

katherine@aacarbor.com

(408) 201-9607 (direct cell)

(408) 675-1729 (main cell)

[aacarbor.com](http://aacarbor.com)

[Yelp](#)



## Terms of Assignment

The following terms and conditions apply to all oral and written reports and correspondence pertaining to the consultations, inspections, and activities of Aesculus Arboricultural Consulting:

1. All property lines and ownership of property, trees, and landscape plants and fixtures are assumed to be accurate and reliable as presented and described to the consultant, either orally or in writing. The consultant assumes no responsibility for verification of ownership or locations of property lines, or for results of any actions or recommendations based on inaccurate information.
2. It is assumed that any property referred to in any report or in conjunction with any services performed by Aesculus Arboricultural Consulting is in accordance with any applicable codes, ordinances, statutes, or other governmental regulations, and that any titles and ownership to any property are assumed to be good and marketable. The existence of liens or encumbrances has not been determined, and any and all property is appraised and/or assessed as though free and clear, under responsible ownership and competent management.
3. All reports and other correspondence are confidential and are the property of Aesculus Arboricultural Consulting and its named clients and their assigns or agents. Possession of this report or a copy thereof does not imply any right of publication or use for any purpose, without the express permission of the consultant and the client to whom the report was issued. Loss, removal, or alteration of any part of a report invalidates the entire appraisal/evaluation.
4. The scope of any report or other correspondence is limited to the trees and conditions specifically mentioned in those reports and correspondence. Aesculus Arboricultural Consulting assumes no liability for the failure of trees or parts of trees, inspected or otherwise. The consultant assumes no responsibility to report on the condition of any tree or landscape feature not specifically requested by the named client.
5. All inspections are limited to visual examination of accessible parts, without dissection, excavation, probing, boring or other invasive procedures, unless otherwise noted in the report, and reflect the condition of those items and features at the time of inspection. No warranty or guarantee is made, expressed or implied, that problems or deficiencies of the plants or the property will not occur in the future, from any cause. The consultant shall not be responsible for damages caused by any tree defects, and assumes no responsibility for the correction of defects or tree related problems.
6. The consultant shall not be required to provide further documentation, give testimony, be deposed, or to attend court by reason of this appraisal/report unless subsequent contractual arrangements are made, including payment of additional fees for such services as set forth by the consultant or in the fee schedule or contract.
7. Aesculus Arboricultural Consulting makes no warranty, either expressed or implied, as to the suitability of the information contained in any reports or correspondence, either oral or written, for any purpose. It remains the responsibility of the client to determine applicability to his/her particular case.
8. Any report and the values, observations, and recommendations expressed therein represent the professional opinion of the consultant, and the fee for services is in no manner contingent upon the reporting of a specified value nor upon any particular finding.
9. Any photographs, diagrams, charts, sketches, or other graphic material included in any report are intended solely as visual aids, are not necessarily to scale, and should not be construed as engineering reports or surveys unless otherwise noted in the report. Any reproduction of graphic material or the work product of any other persons is intended solely for clarification and ease of reference. Inclusion of said information does not constitute a representation by Aesculus Arboricultural Consulting as to the sufficiency or accuracy of that information.

Tree #	Common Name	Species	DBH (in.)	Vitality (0-3)	Structure (0-3)	Heritage Tree?	Street Tree?	Off-Site Tree?	Suitability for preservation (0-3)	Remove?	Appraised Value	Species Construction Tolerance (1 = poor, 3 = good)	TPZ radius (ideal; ft. from center of trunk)	CRZ radius (ideal; ft. from center of trunk)	Expected Impacts	Notes
1	Callery pear	Pyrus calleryana	11.5	3	2				3		-	-	-	-	-	-
2	Callery pear	Pyrus calleryana	9.1	2	2				2		-	-	-	-	-	-
3	Stump	-	0.0	0	0				-		-	-	-	-	-	-
4	Callery pear	Pyrus calleryana	10.0	3	2				3		-	-	-	-	-	-
5	Callery pear	Pyrus calleryana	7.0	2	2				2		-	-	-	-	-	-
6	Callery pear	Pyrus calleryana	10.0	3	2			X	3		-	-	-	-	-	Neighboring tree
7	Japanese maple	Acer palmatum	6.9	3	2				3		-	-	-	-	-	-
8	Eucalyptus	Eucalyptus sp.	24.0	2	2	X			2		\$12,500.00	2	24.0	7.0	REMOVE - incompatible with building footprint	-
9	Crape myrtle	Lagerstroemia indica	2.5	3	2		X		3		-	2	1.9	0.7	Minimal	-
10	Stump	-	25.0	0	0				-		-	-	-	-	-	-
11	Stump	-	22.9	0	0				-		-	-	-	-	-	-
12	Stump	-	27.0	0	0				-		-	-	-	-	-	-
13	Linden	Tilia sp.	2.0	3	2		X		3		-	2	1.5	0.6	Minimal	-
14	Coast live oak	Quercus agrifolia	20.5	3	2	X			3		\$10,800.00	3	10.3	6.0	REMOVE - incompatible with building footprint	-
15	Coast live oak	Quercus agrifolia	23.7	3	2	X			3		\$14,400.00	3	11.9	6.9	REMOVE - incompatible with building footprint	-
16	Coast redwood	Sequoia sempervirens	14.4	3	3				3		-	-	-	-	-	-
17	Zelkova	Zelkova serrata	5.0	3	3			X	3		-	-	-	-	-	Neighboring tree.





## Biological Resources Assessment Report

**3705 Haven Avenue**

Menlo Park, San Mateo County, California



**Prepared for:**

Ruby Huang, Director  
March Capital Management  
2040 Webster Street  
San Francisco, CA 94115

**Prepared by:**

WRA, Inc.  
2169 G East Francisco Boulevard  
San Rafael, CA 94901

Attn: *Brian Freiermuth*  
[freiermuth@wra-ca.com](mailto:freiermuth@wra-ca.com)

July 2024

WRA #340217



# Contents

1.0	INTRODUCTION.....	4
1.1	Project Description.....	4
1.2	Summary of Results .....	5
2.0	REGULATORY BACKGROUND .....	5
2.1	Federal and State Regulatory Setting .....	5
2.1.1	Special-status Species.....	5
2.1.2	Vegetation and Aquatic Communities .....	7
2.2	Local Plans and Policies.....	9
2.2.1	Menlo Park Tree Ordinance.....	9
3.0	ASSESSMENT METHODOLOGY .....	12
3.1	Vegetation Communities and Other Land Cover.....	12
3.2	Delineation of Aquatic Resources .....	13
3.2.1	Waters of the U.S. and State (Corps/RWQCB Jurisdiction) .....	13
3.3	Special-status Species.....	13
3.3.1	General Assessment.....	13
3.4	Wildlife Corridors and Native Wildlife Nursery Sites .....	14
4.0	ECOLOGICAL SETTING .....	14
4.1	Land Use.....	14
5.0	ASSESSMENT RESULTS .....	15
5.1	Vegetation Communities and Other Land Cover .....	15
5.1.1	Terrestrial Land Cover .....	15
5.1.2	Aquatic Resources .....	15
5.2	Special-status Species.....	15
5.2.1	Special-status Plants.....	15
5.2.2	Special-status Wildlife.....	16
5.3	Wildlife Corridors and Native Wildlife Nursery Sites .....	16
6.0	ANALYTICAL METHODOLOGY AND SIGNIFICANCE THRESHOLD CRITERIA .....	17
7.0	IMPACTS AND MITIGATION EVALUATION.....	18
7.1	Special-status Species.....	18
7.1.1	Special-Status Plants.....	18
7.1.2	Special-Status Wildlife and Nesting Birds and Roosting Bats.....	18
7.2	Sensitive Natural Communities and Land Cover Types.....	19
7.3	Aquatic Resources .....	19





7.4	Wildlife Corridors and Native Wildlife Nursery Sites .....	19
7.5	Local Policies and Ordinances .....	20
	7.5.1 Tree Protection .....	20
7.6	Habitat Conservation Plans .....	20
8.0	REFERENCES .....	20

## List of Tables

Table 1.	Summary of Biological Resources Evaluation.....	10
Table 2.	Vegetation Communities and Other Land Cover Types .....	15

## List of Appendices

### APPENDIX A. FIGURES

Figure 1. Study Area Location

Figure 2. Land Cover within the Study Area

### APPENDIX B. SPECIES OBSERVED IN AND AROUND THE STUDY AREA

### APPENDIX C. REPRESENTATIVE PHOTOGRAPHS OF THE STUDY AREA

## List of Preparers

<b>Leslie Lazarotti</b>	Principal in Charge
<b>Brian Freiermuth</b>	Senior Biologist
<b>Carla Angulo</b>	Biologist/Arborist
Michael Rochelle	GIS Analyst



## List of Acronyms & Abbreviations

<b>BRA</b>	Biological Resources Assessment
<b>CCR</b>	California Code of Regulations
<b>CCC</b>	California Coastal Conservancy
<b>CDFW</b>	California Department of Fish and Wildlife
<b>CDP</b>	Coastal Development Permit
<b>CESA</b>	California Endangered Species Act
<b>CEQA</b>	California Environmental Quality Act
<b>CFGC</b>	California Fish and Game Code
<b>CFP</b>	California Fully Protected Species
<b>CFR</b>	Code of Federal Regulations
<b>CNDDDB</b>	California Natural Diversity Database
<b>CNPS</b>	California Native Plant Society
<b>City</b>	City of Menlo Park
<b>Corps</b>	U.S. Army Corps of Engineers
<b>CWA</b>	Clean Water Act
<b>DBH</b>	Diameter at Breast Height
<b>EFH</b>	Essential Fish Habitat
<b>ESA</b>	Federal Endangered Species Act
<b>ESHA</b>	Environmentally Sensitive Habitat Area
<b>FAC</b>	Facultative Species
<b>FACU</b>	Facultative Upland Species
<b>FACW</b>	Facultative Wetland Species
<b>NCCP</b>	Natural Community Conservation Plan
<b>NMFS</b>	National Marine Fisheries Service
<b>NPPA</b>	California Native Plant Protection Act
<b>NRCS</b>	Natural Resource Conservation Service
<b>NWI</b>	National Wetlands Inventory
<b>NWPL</b>	National Wetland Plant List
<b>OBL</b>	Obligate Wetland Species
<b>OHWM</b>	Ordinary High Water Mark
<b>Rank</b>	California Rare Plant Rank
<b>RHA</b>	Rivers and Harbors Act
<b>RWQCB</b>	Regional Water Quality Control Board
<b>SFEI</b>	San Francisco Estuary Institute
<b>USFWS</b>	U.S. Fish and Wildlife Service
<b>U.S.</b>	United States



## 1.0 INTRODUCTION

The purpose of this Biological Resources Assessment (BRA) is to provide a biological evaluation in compliance with Mitigation Measure BIO-1 from both ConnectMenlo Environmental Impact Report and Housing Element Update Supplemental Environmental Impact Report.

This assessment provides technical biological resources information to support environmental review for the residential development at 3705 Haven Avenue in Menlo Park, San Mateo County, California (Project) and evaluates the potential for the parcel and adjacent areas (Study Area) to support special-status plant and wildlife species, sensitive vegetation communities, and aquatic features and the potential for impacts to these biological resources as a result of Project implementation. A desktop review and a site visit were used for this analysis.

For the purpose of this assessment, the Study Area included the entire 0.66-acre parcel and 0.11-acre of immediately adjacent areas in order to account for the potential impacts to surrounding areas. The Study Area is currently developed and is embedded within Menlo Park's mixed use residential area that is characterized by having a high percentage of unnatural landcover dominated by buildings, streets, and associated infrastructure. Conclusions are based on currently available information used in combination with a site visit and the professional judgement of the biologists completing this study.

### 1.1 Project Description

The proposed Project consists of demolition of an existing single-story commercial building and subsequent construction of a 112-unit housing project located on a fully developed site at 3705 Haven Avenue in Menlo Park (City), San Mateo County, California (APN 055-170-240; Appendix A; Figure 1). The Project will comply with Menlo Park's local tree ordinance. The Project will proceed through the California Environmental Quality Act (CEQA) under a Section 15183 Exemption that tiers from the ConnectMenlo Environmental Impact Report and Housing Element Update Supplemental Environmental Impact Report. The Project will implement safe bird standards described in Mitigation Measure BIO-1 subsections 3(a) to (g) of the ConnectMenlo Mitigation Monitoring and Reporting Program, copied here:

#### **Bird-Friendly Design**

- a. No more than ten percent (10%) of façade surface area shall have non-bird- friendly glazing.
- b. Bird- friendly glazing includes, but is not limited to opaque glass, covering the outside surface of clear glass with patterns, paned glass with fenestration, frit or etching patterns, and external screens over nonreflective glass. Highly reflective glass is not permitted.
- c. Occupancy sensors or other switch control devices shall be installed on non-emergency lights and shall be programmed to shut off during non-work hours and between 10 PM and sunrise.
- d. Placement of buildings shall avoid the potential funneling of flight paths towards a building façade.
- e. Glass skyways or walkways, freestanding (see-through) glass walls and handrails, and transparent building corners shall not be allowed.

- f. Transparent glass shall not be allowed at the rooflines of buildings, including in conjunction with roof decks, patios and green roofs.
- g. Use of rodenticides shall not be allowed.

## 1.2 Summary of Results

Of the approximately 0.77-acre Study Area, only one landcover type was identified: developed/disturbed. The Project will not impact sensitive habitats potentially regulated by the County of San Mateo, United States (U.S.) Army Corps of Engineers (Corps), Regional Water Quality Control Board (RWQCB), and/or California Department of Fish and Wildlife (CDFW).

No special-status plant and wildlife species have potential to occur on the site. However, some common species that receive protections from existing regulations, specifically nesting birds, could use the site. Pre-construction surveys are recommended if the project is to begin during the nesting bird season which is generally between February 15 to September 1. In addition, the site contains trees that are subject to the local municipal tree ordinance. Avoidance and compliance measures consistent with Mitigation Measure BIO-1 are provided herein to mitigate potential impacts to these resources.

## 2.0 REGULATORY BACKGROUND

The following sections explain the regulatory context of the BRA, including applicable laws and regulations that were applied to the field investigations and analysis of potential project impacts. Table 1 shows the correlation between these regulations and each Biological Resources question in the Environmental Checklist Form (Appendix G) of the CEQA guidelines.

### 2.1 Federal and State Regulatory Setting

#### 2.1.1 Special-status Species

##### ENDANGERED AND THREATENED PLANTS, FISH, AND WILDLIFE

Specific species of plants, fish, and wildlife species may be designated as threatened or endangered by the federal Endangered Species Act (ESA), or the California Endangered Species Act (CESA). Specific protections and permitting mechanisms for these species differ under each of these acts, and a species' designation under one law does not automatically provide protection under the other.

The ESA (16 USC 1531 et seq.) is implemented by the USFWS and the National Marine Fisheries Service (NMFS). The USFWS and NMFS maintain lists of endangered and threatened plant and animal species (referred to as "listed species"). "Proposed" or "candidate" species are those that are being considered for listing and are not protected until they are formally listed as threatened or endangered. Under the ESA, authorization must be obtained from the USFWS or NMFS prior to take of any listed species. "Take" under the ESA is defined as "harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect, or to attempt to engage in any such conduct." Take under the ESA includes direct injury or mortality to individuals, disruptions in normal behavioral patterns resulting from factors such as noise and visual disturbance and impacts to habitat for listed species. Actions that may result in take of an ESA-listed species may obtain a permit under ESA Section 10, or via the interagency consultation described in ESA Section 7. Federal-listed plant

species are only protected when removal or destruction occurs on federal land; however, if a federal agency authorizes, funds, or carries out an action, that agency must insure through Section 7 consultation that the action is not likely to jeopardize the continued existence of the species.

The ESA also provides for designation of critical habitat, which are specific geographic areas containing physical or biological features “essential to the conservation of the species.” Protections afforded to designated critical habitat apply only to actions that are funded, permitted, or carried out by federal agencies. Critical habitat designations do not affect activities by private landowners if there is no other federal agency involvement.

The CESA (CFGF 2050 et seq.) prohibits the take of any plant and animal species that the CFGF determines to be an endangered or threatened species in California. CESA regulations include take protection for threatened and endangered plants on private lands, as well as extending this protection to candidate species that are proposed for listing as threatened or endangered under CESA. The definition of a “take” under CESA (“hunt, pursue, catch, capture, or kill, or attempt to hunt, pursue, catch, capture, or kill”) only applies to direct impact to individuals, and does not extend to habitat impacts or harassment. CDFW may issue an Incidental Take Permit under CESA to authorize take if it is incidental to otherwise lawful activity and if specific criteria are met. Take of these species is also authorized if the geographic area is covered by a Natural Community Conservation Plan (NCCP), as long as the NCCP covers that activity. CDFW may also authorize take for voluntary restoration projects through the Restoration Management Permit (RMP).

#### **FULLY PROTECTED SPECIES AND DESIGNATED RARE PLANT SPECIES**

This category includes specific plant and wildlife species that are designated in the CFGF as protected even if not listed under CESA or ESA. Fully Protected Species includes specific lists of birds, mammals, reptiles, amphibians, and fish designated in CFGF. Fully protected species may not be taken or possessed at any time. No licenses or permits may be issued for take of fully protected species, except for necessary scientific research and conservation purposes. The definition of “take” is the same under the California Fish and Game Code and the CESA. By law, CDFW may not issue an Incidental Take Permit for Fully Protected Species. Under the California Native Plant Protection Act (NPPA), take of plant species listed by CDFW as “rare” or “endangered” is prevented, with few exceptions. CDFW may authorize take of species protected by the NPPA through the Incidental Take Permit process, or under a NCCP. CDFW may also authorize take for voluntary restoration projects through the RMP.

#### **SPECIAL PROTECTIONS FOR NESTING BIRDS AND BATS**

The federal Bald and Golden Eagle Protection Act provides relatively broad protections to both of North America’s eagle species (bald eagle [*Haliaeetus leucocephalus*] and golden eagle [*Aquila chrysaetos*]) that in some regards are similar to those provided by the ESA. In addition to regulations for special-status species, most native birds in the U.S., including non-status species, have baseline legal protections under the Migratory Bird Treaty Act of 1918 and CFGF, i.e., sections 3503, 3503.5 and 3513. Under these laws/codes, the intentional harm or collection of adult birds as well as the intentional collection or destruction of active nests, eggs, and young is illegal. For bat species, the Western Bat Working Group (WBWG) designates conservation status for species of bats, and those with a high or medium-high priority are typically given special consideration under CEQA.

## **SPECIES OF SPECIAL CONCERN, MOVEMENT CORRIDORS, AND OTHER SPECIAL-STATUS SPECIES UNDER CEQA**

A Species of Special Concern (SSC) is a species formally designated by the CDFW which meets one or more criteria related to a Federal ESA status (if it is not listed under CESA), including extirpation from California, documented population declines, or small population size within California and risk of declines. In addition, CDFW has developed a special animals list as “a general term that refers to all of the taxa the CNDDDB is interested in tracking, regardless of their legal or protection status.” This list includes lists developed by other organizations, including for example, the Audubon Watch List Species, the Bureau of Land Management Sensitive Species, and USFWS Birds of Conservation Concern. Plant species on the California Native Plant Society (CNPS) Rare Plant Inventory (Inventory; CNPS 2024a) with California Rare Plant Ranks (Rank) of 1 and 2, as well as some with a Rank of 3 or 4, are also considered special-status plant species and must be considered under CEQA. Some Rank 3 and Rank 4 species are typically only afforded protection under CEQA when such species are particularly unique to the locale (e.g., range limit, low abundance/low frequency, limited habitat) or are otherwise considered locally rare. Additionally, any species listed as sensitive within local plans, policies and ordinances are likewise considered sensitive. Movement and migratory corridors for native wildlife (including aquatic corridors) as well as wildlife nursery sites are given special consideration under CEQA.

### **2.1.2 Vegetation and Aquatic Communities**

CEQA requires consideration and evaluation for natural communities defined as sensitive by the CDFW and aquatic features protected by laws and regulations administered by the Corps, State Water Resources Control Board (SWRCB), and RWQCB. The laws and regulations that provide protection for these resources are summarized below.

## **SENSITIVE NATURAL COMMUNITIES**

Sensitive natural communities include habitats that fulfill special functions or have special values. Natural communities considered sensitive are those identified in local or regional plans, policies, regulations, or by the CDFW. CDFW ranks sensitive communities as "threatened" or "very threatened" (CDFW 2024a) and keeps records of their occurrences in its California Natural Diversity Database (CNDDDB; CDFW 2024b). Natural communities are ranked 1 through 5 in the CNDDDB based on NatureServe's (2024) methodology, with those communities ranked globally (G) or statewide (S) as 1 through 3 considered sensitive. Impacts to sensitive natural communities identified in local or regional plans, policies, or regulations or those identified by the CDFW or U.S. Fish and Wildlife Service (USFWS) must be considered and evaluated under CEQA guidelines (California Code of Regulations [CCR] Title 14, Div. 6, Chap. 3, Appendix G). In addition, these sensitive natural communities include oak woodlands that are protected by local ordinances under the Oak Woodlands Protection Act and Section 21083.4 of California Public Resources Code.

## **WATERS OF THE UNITED STATES, INCLUDING WETLANDS**

The Corps regulates “Waters of the United States” under Section 404 of the Clean Water Act (CWA). Waters of the U.S. are defined in the Code of Federal Regulations (CFR) as including the territorial seas, and waters which are currently used, or were used in the past, or may be susceptible to use in interstate or foreign commerce, such as tributaries, lakes and ponds, impoundments of waters of the U.S., and wetlands that are surface hydrologically connected with these navigable features (33 CFR 328.3). Potential wetland areas, according to the three criteria used to delineate wetlands as defined in the *U.S. Army Corps of Engineers Wetlands Delineation*



*Manual* (Corps Manual; Environmental Laboratory 1987), are identified by the presence of (1) hydrophytic vegetation, (2) hydric soils, and (3) wetland hydrology. Unvegetated waters including lakes, rivers, and streams may also be subject to Section 404 jurisdiction and are characterized by an ordinary high water mark (OHWM) identified based on field indicators such as the lack of vegetation, sorting of sediments, and other indicators of flowing or standing water. The placement of fill material into Waters of the U.S. generally requires a permit from the Corps under Section 404 of the CWA.

The Corps also regulates construction in navigable waterways of the U.S. through Section 10 of the Rivers and Harbors Act (RHA) of 1899 (33 U.S. Code [USC] 403). Section 10 of the RHA requires Corps approval and a permit for excavation or fill, or alteration or modification of the course, location, condition, or capacity of, any port, roadstead, haven, harbor, canal, lake, harbor or refuge, or enclosure within the limits of any breakwater, or of the channel of any navigable water of the U.S. Section 10 requirements apply only to navigable waters themselves, and are not applicable to tributaries, adjacent wetlands, and similar aquatic features not capable of supporting interstate commerce.

### **WATERS OF THE STATE, INCLUDING WETLANDS**

The term “Waters of the State” is defined by the Porter-Cologne Act as “any surface water or groundwater, including saline waters, within the boundaries of the state.” The SWRCB and nine RWQCB protect waters within this broad regulatory scope through many different regulatory programs. Waters of the State in the context of a CEQA Biological Resources evaluation include wetlands and other surface waters protected by the *State Wetland Definition and Procedures for Discharges of Dredged or Fill Material to Waters of the State* (SWRCB 2019). The SWRCB and RWQCB issue permits for the discharge of fill material into surface waters through the State Water Quality Certification Program, which fulfills requirements of Section 401 of the CWA and the Porter-Cologne Water Quality Control Act. Projects that require a CWA permit are also required to obtain a Water Quality Certification. If a project does not require a federal permit but does involve discharge of dredge or fill material into surface waters of the State, the SWRCB and RWQCB may issue a permit in the form of Waste Discharge Requirements.

### **SECTIONS 1600-1616 OF CALIFORNIA FISH AND GAME CODE**

Streams and lakes, as habitat for fish and wildlife species, are regulated by CDFW under Sections 1600-1616 of California Fish and Game Code (CFGF). Alterations to or work within or adjacent to streambeds or lakes generally require a 1602 Lake and Streambed Alteration Agreement. The term “stream,” which includes creeks and rivers, is defined in the CCR as “a body of water that flows at least periodically or intermittently through a bed or channel having banks and supports fish or other aquatic life [including] watercourses having a surface or subsurface flow that supports or has supported riparian vegetation” (14 CCR 1.72). The term “stream” can include ephemeral streams, dry washes, watercourses with subsurface flows, canals, aqueducts, irrigation ditches, and other means of water conveyance if they support aquatic life, riparian vegetation, or stream-dependent terrestrial wildlife (CDFG 1994). Riparian vegetation has been defined as “vegetation which occurs in and/or adjacent to a stream and is dependent on, and occurs because of, the stream itself” (CDFG 1994). Removal of riparian vegetation also requires a Section 1602 Lake and Streambed Alteration Agreement from CDFW.

## 2.2 Local Plans and Policies

### 2.2.1 Menlo Park Tree Ordinance

Menlo Park Municipal Code Chapter 13.20 “Street Trees” and Chapter 13.24 “Heritage Trees” outlines expectations for the preservation of heritage trees, which are defined by the following metrics:

- A tree or group of trees of historical significance, special character or community benefit, specifically designated by resolution of the City Council;
- An oak tree, which is native to California and has a trunk with a circumference of 31.4 inches (diameter of 10 inches) or more, measured at 54 inches above natural grade; and
- All trees other than oaks, which have a trunk circumference of 47.1 inches (diameter of 15 inches) or more, measured 54 inches above natural grade, except trees that are less than 12 feet in height (Municipal Code Section 13.24.030 (5)(A-C)).

For residential developments, a tree must be planted for each one that is removed, subject to approval by the City Arborist. Per Section 13.24.030 of the City’s Municipal Code, a City-approved certified arborist is required to prepare a tree protection plan for any work performed within an area 10 times the diameter of the tree, referred to as a tree protection zone. A permit from the Director of Public Works, as well as payment of a fee, is required for any removal of heritage trees.



**Table 1. Summary of Biological Resources Evaluation**

CEQA Assessment Category <sup>1</sup> IV – Biological Resources	Biological Resources Considered	Relevant Laws & Regulations	Responsible Regulatory Agency	Summary of Findings & Report Section <sup>2</sup>
<p><b>Question A.</b></p> <p><b>Special-status Species</b></p>	<p>Special-status Plants</p> <p>Special-status Wildlife</p> <p>Designated Critical Habitat</p>	<p>Federal Endangered Species Act</p> <p>CA Endangered Species Act</p> <p>CA Native Plant Protection Act</p> <p>Migratory Bird Treaty Act</p> <p>Bald &amp; Golden Eagle Protection Act</p>	<p>U.S. Fish &amp; Wildlife Service</p> <p>National Marine Fisheries Service</p> <p>CA Department of Fish &amp; Wildlife</p>	<p>Substantial adverse effects are less than significant. Best Management Practices such as preconstruction surveys are included that reduce potential indirect impacts to a level that is less than significant.</p> <p><b>See Section 7.1 for more information</b></p>
<p><b>Question B.</b></p> <p><b>Sensitive natural communities &amp; riparian habitat</b></p>	<p>Sensitive Natural Communities</p> <p>Streams, Lakes &amp; Riparian Habitat</p>	<p>CA Fish &amp; Game Code</p> <p>Oak Woodland Conservation Act</p> <p>Porter-Cologne Act</p> <p>Clean Water Act</p> <p>California Coastal Act</p>	<p>CA Department of Fish &amp; Wildlife</p> <p>U.S. Army Corps of Engineers</p> <p>U.S. Environmental Protection Agency</p> <p>State Water Resources Control Board</p> <p>Regional Water Quality Control Board</p>	<p>No substantial adverse effects were identified. No Measures to avoid impacts to these features are recommended.</p> <p><b>See Section 7.2 for more information</b></p>
<p><b>Question C.</b></p> <p><b>State and federally protected wetlands</b></p>	<p>Wetlands</p> <p>Unvegetated surface waters</p>	<p>Clean Water Act: Sections 404/401</p> <p>Porter-Cologne Act</p> <p>California Coastal Act</p>	<p>U.S. Army Corps of Engineers</p> <p>U.S. Environmental Protection Agency</p> <p>State Water Resources Control Board</p> <p>Regional Water Quality Control Board</p>	<p>No substantial adverse effects were identified. No measures to avoid impacts to these features are recommended.</p> <p><b>See Section 7.3 for more information</b></p>

<sup>1</sup> CEQA Questions have been summarized here, see Section 6.0 for details.

<sup>2</sup> As given in this report, see Section 5.0 subheadings.

**Table 1. Summary of Biological Resources Evaluation**

CEQA Assessment Category <sup>1</sup> IV – Biological Resources	Biological Resources Considered	Relevant Laws & Regulations	Responsible Regulatory Agency	Summary of Findings & Report Section <sup>2</sup>
<p><b>Question D.</b> <b>Fish &amp; Wildlife corridors</b></p>	<p>Essential Fish Habitat Wildlife Corridors</p>	<p>CA Fish &amp; Game Code Magnuson-Stevens Fishery Conservation &amp; Management Act</p>	<p>CA Department of Fish and Wildlife National Marine Fisheries Service</p>	<p>No substantial adverse effects were identified. <b>See Section 7.4 for more information</b></p>
<p><b>Question E.</b> <b>Local policies</b></p>	<p>Protected Trees Coastal zone resources Other biological protections</p>	<p>Local Tree Ordinance General Plan (e.g. Stream &amp; Wetland Setbacks) Local ordinances</p>	<p>Local and regional agencies CA Coastal Commission San Francisco Bay Conservation and Development Commission</p>	<p>Substantial adverse effects are less than significant. Tree mitigation and protection measures included reduce the indirect impacts to a level that is less than significant. <b>See Section 7.5 for more information</b></p>
<p><b>Question F.</b> <b>Local, state, federal conservation plans</b></p>	<p>Habitat Conservation Plans Natural Community Conservation Plans</p>	<p>Federal Endangered Species Act Natural Community Conservation Planning Act</p>	<p>U.S. Fish and Wildlife Service CA Department of Fish and Wildlife</p>	<p>No substantial adverse effects were identified. <b>See Section 7.6 for more information</b></p>

### 3.0 ASSESSMENT METHODOLOGY

Prior to the site visit, the WRA biologist reviewed literature resources and performed database searches to assess the potential for sensitive biological communities (e.g., wetlands) and special-status species (e.g., endangered plants), including:

- Palo Alto 7.5-minute U.S. Geological Survey (USGS) quadrangle (USGS 2024)
- Contemporary aerial photographs (Google Earth 2024)
- Historical aerial photographs (NETR 2024)
- National Wetlands Inventory (USFWS 2024)
- California Department of Fish and Wildlife (CDFW) California Natural Diversity Database (CNDDDB) (CDFW 2024)
- California Native Plant Society Inventory of Rare Plants (CNPS 2024)
- Consortium of California Herbaria (CCH1, CCH2 2024)
- U.S. Fish and Wildlife Service (USFWS) List of Federal Endangered and Threatened Species (USFWS 2024)
- A Manual of California Vegetation, Online Edition (CNPS 2024)
- Preliminary Descriptions of the Terrestrial Natural Communities (Holland 1986)
- CDFW Publication, *California Bird Species of Special Concern in California* (Shuford and Gardali 2008)
- CDFW and University of California Press publication *California Amphibian and Reptile Species of Special Concern* (Thomson et al. 2016)
- ebird: An online database of bird distribution and abundance [web application; accessed May 22, 2024]

Database searches (i.e., CNDDDB, CNPS) for special-status species focused on the Palo Alto USGS 7.5-minute quadrangle.

Following the remote assessment, a WRA biologist completed a field review to document: (1) land cover types (e.g., terrestrial communities, aquatic resources); (2) existing conditions and to determine if such provided suitable habitat for any special-status plant or wildlife species; (3) if and what type of aquatic natural communities (e.g., wetlands) were present; and (4) if special-status species were present. The Study Area was reviewed for the presence of aquatic resources including wetlands and unvegetated waters of the State and waters of the U.S. Methods for identifying these areas relied on the Corps Wetlands Delineation Manual (Environmental Laboratory 1987), Arid West Regional Supplement (Corps 2008), A Field Guide to the Identification of the Ordinary High Water Mark (OHWM) in the Arid West Region of the Western United States (Lichvar 2008), Corps of Engineers Regulatory Guidance Letter 05-05 (Corps 2005), and related documentation. For any streams observed, the top of bank is identified in the field by indicators such as benching and changes in vegetation.

#### 3.1 Vegetation Communities and Other Land Cover Types

On May 21, 2024, a WRA biologist visited the Study Area to map land cover types, document plant and wildlife species present, and evaluate on-site habitat for the potential to support special-status species. During the site visit, WRA evaluated the species composition and area occupied by

distinct vegetation communities, aquatic communities, and other land cover types within the Study Area. Mapping of these classifications utilized a combination of aerial imagery and ground surveys. In most instances, communities are characterized and mapped based on distinct shifts in plant assemblage (vegetation) and follow the *California Natural Community List* (CDFW 2024a) and *A Manual of California Vegetation, Online Edition* (CNPS 2024b). These resources cannot anticipate every component of every potential vegetation assemblage in California, and so in some cases, it is necessary to identify other appropriate vegetative classifications based on best professional judgment of WRA biologists. When undescribed variants are used, it is noted in the description. Vegetation alliances (natural communities) with a CDFW Rank of 1 through 3 (globally critically imperiled [S1/G1], imperiled [S2/G2], or vulnerable [S3/G3]) (CDFW 2024a), were evaluated as sensitive as part of this evaluation.

## 3.2 Delineation of Aquatic Resources

WRA biologists evaluated the site for aquatic resources potentially subject to Corps, RWQCB, and California Coastal Conservancy (CCC) jurisdictions within the Study Area. Prior to conducting the evaluation, WRA reviewed a range of background materials including the Web Soil Survey (USDA 2024), SoilWeb (CSRL 2024), the National Wetlands Inventory (NWI; USFWS 2024b), the California Aquatic Resource Inventory (SFEI 2024), and the USGS Palo Alto 7.5-minute quadrangle maps. WRA also reviewed current and historic aerial imagery (Google Earth 2024, NETR 2024).

### 3.2.1 Waters of the U.S. and State (Corps/RWQCB Jurisdiction)

During the on-site evaluation, WRA followed the methods outlined in the Corps Wetlands Delineation Manual (Corps Manual; Environmental Laboratory 1987) and the Regional Supplement to the Corps Wetland Delineation Manual: Western Mountains, Valleys, and Coast Region (Version 2.0) (WMVC Supplement; Corps 2010).

WRA followed the above-described methodology to evaluate the Study Area for the presence or absence of indicators of the three wetland parameters described in the Corps Manual (Environmental Laboratory 1987) and WMVC Supplement (Corps 2010). No jurisdictional wetlands were identified since the site contained no aquatic resources, only data on vegetation was collected. The vegetation adjacent to a channel across the street was collected and hydrology was noted, however no soils were collected at sample points within potential wetland communities and adjacent upland areas.

## 3.3 Special-status Species

### 3.3.1 General Assessment

Potential occurrence of special-status species in the Study Area was evaluated by first determining which special-status species occur in the vicinity of the Study Area through a literature and database review as described above. The presence of suitable habitat for special-status species was evaluated during the site visit based on physical and biological conditions of the site as well as the professional expertise of the investigating biologists. The potential for each special-status species to occur in the Study Area was then determined according to the following criteria:

- **No Potential.** Habitat on and adjacent to the site is clearly unsuitable for the species requirements (foraging, breeding, cover, substrate, elevation, hydrology, plant community, site history, disturbance regime).
- **Unlikely.** Few of the habitat components meeting the species requirements are present, and/or the majority of habitat on and adjacent to the site is unsuitable or of very poor quality. The species is not likely to be found on the site.
- **Moderate Potential.** Some of the habitat components meeting the species requirements are present, and/or only some of the habitat on or adjacent to the site is unsuitable. The species has a moderate probability of being found on the site.
- **High Potential.** All of the habitat components meeting the species requirements are present and/or most of the habitat on or adjacent to the site is highly suitable. The species has a high probability of being found on the site.
- **Present.** Species is observed on the site or has been recorded (i.e., CNDDDB, other reports) on the site in the recent past.

The site assessment was intended to identify the presence or absence of suitable habitat for each special-status species with a potential to occur in the Study Area.

### 3.4 Wildlife Corridors and Native Wildlife Nursery Sites

To account for potential impacts to wildlife movement/migratory corridors, biologists reviewed maps from the California Essential Connectivity Project (CalTrans 2010), and habitat connectivity data available through the CDFW Biogeographic Information and Observation System (CDFW 2023b). Additionally, aerial imagery (Google Earth 2024) for the local area was referenced to assess if local core habitat areas were present within, or connected to the Study Area. This assessment was refined based on observations of on-site physical and/or biological conditions, including topographic and vegetative factors that can facilitate wildlife movement, as well as on-site and off-site barriers to connectivity.

The potential presence of native wildlife nursery sites is also evaluated as part of the site visit and discussion of individual wildlife species below. Examples of native wildlife nursery sites include nesting sites for native bird species (particularly colonial nesting sites) and colonial roosting sites for other species (such as for monarch butterfly [*Danaus plexippus*]).

## 4.0 ECOLOGICAL SETTING

The Study Area is located at 3705 Haven Avenue, in Menlo Park, San Mateo County, California. It is located to the southwest of the intersection of Marsh Road/Bayfront Expressway (State Route 84) and Haven Avenue, in the southeast corner/turn of Haven Avenue where it meets Haven Court (Appendix A; Figure 1). A list of all plant and wildlife species observed during the site visit is included as Appendix B. Photographs of the Study Area are provided as Appendix C. Additional details of the local setting are below.

### 4.1 Land Use

The Study Area is entirely developed. The majority of the site is taken up by an existing single-story commercial building and surface parking lot. The remaining area is maintained landscaping. There are some mature trees on the site. The surrounding land use is also characterized by densely developed areas. The Atherton channel, a transitional tidal channel with predominantly freshwater



vegetation, is located about 65 feet to the east of the Project Area, with Haven Avenue being between the two. About 800 feet to the north, the densely developed area gives way to tidal areas and associated habitats and the Bay.

## 5.0 ASSESSMENT RESULTS

### 5.1 Vegetation Communities and Other Land Cover

WRA observed one land cover type within the Study Area: developed/disturbed. Land cover types within the Study Area are shown on Figure 2 in Appendix A and summarized in Table 2, below.

**Table 2. Vegetation Communities and Other Land Cover Types**

COMMUNITY / LAND COVERS	SENSITIVE STATUS	RARITY RANKING	TOTAL ACREAGE
<b>TERRESTRIAL LAND COVER</b>			
Developed/Disturbed	Non-sensitive	None	0.77

#### 5.1.1 Terrestrial Land Cover

##### **DEVELOPED/DISTURBED (NO VEGETATION ALLIANCE). CDFW RANK: NONE**

Developed/disturbed areas in the Study Area include paved roads, parking lots and a large commercial building. Vegetation in developed/disturbed areas is typically absent, except in maintained landscaped areas. These areas support some mature trees of native and ornamental types. This land cover type is not considered sensitive.

#### 5.1.2 Aquatic Resources

No aquatic resources are present in the Study Area.

## 5.2 Special-status Species

### 5.2.1 Special-status Plants

Based upon a review of the resource databases listed in Section 3.0, 60 special-status plant species have been documented within a 5-mile radius of the Study Area. No special-status species were observed during the site visit. All of these species were determined to have no potential to occur within the Study Area for one or more of the following reasons:

- Hydrologic conditions (e.g., tidal, riverine) necessary to support the special-status plant species are not present in the Study Area;
- Edaphic (soil) conditions (e.g., volcanic tuff, serpentine) necessary to support the special-status plant species are not present in the Study Area;
- Topographic conditions (e.g., montane) necessary to support the special-status plant species are not present in the Study Area;



- Unique pH conditions (e.g., alkali scalds, acidic bogs) necessary to support the special-status plant species are not present in the Study Area;
- Associated natural communities (e.g., interior chaparral, tidal marsh) necessary to support the special-status plant species are not present in the Study Area;
- The Study Area is geographically isolated (e.g., below elevation) from the documented range of the special-status plant species;
- Land use history and contemporary management (e.g., grading, paving) has degraded the localized habitat necessary to support the special-status plant species.

### 5.2.2 Special-status Wildlife

Of the 50 special-status wildlife species documented within a 5-mile radius of the Study Area, none were observed, and all are excluded from the Study Area based on a lack of habitat features, such as:

- Ponds, lakes, freshwater or tidal marsh areas,
- Streams and rivers,
- Vertical cliffs, banks, or canyons,
- Dense eucalyptus stands,
- Large trees with peeling bark, cracks or cavities,
- Saltwater estuaries,
- Redwood old growth coniferous forests, or
- Sandy beaches, salt pond levees, and the shores of large alkali lakes.

The absence of such habitat features eliminates components critical to the survival or movement of special-status species found in the vicinity. For instance, California Ridgway's rail is known to occur tidal areas in the vicinity. However, suitable habitat in the Study Area is absent, precluding this species from the Study Area. Given the Study Area's relative proximity to sensitive habitats on the central California coast, many species documented nearby are additionally obligates to open waters and tidal marsh habitat, which are not present on or within 500 feet of the Study Area. There is no suitable maternity roosting or day roosting habitat for bats. No nesting birds were found during the site visit. However, non-special-status migratory and non-migratory birds have potential to nest within the Study Area in the trees and building structures.

### 5.3 Wildlife Corridors and Native Wildlife Nursery Sites

Wildlife movement between suitable habitat areas can occur via open space areas lacking substantial barriers. The terms "landscape linkage" and "wildlife corridor" are often used when referring to these areas. The key to a functioning corridor or linkage is that it connects two larger habitat blocks, also referred to as core habitat areas (Beier and Loe 1992; Soulé and Terbough 1999). It is useful to think of a "landscape linkage" as being valuable in a regional planning context, a broad scale mapping of natural habitat that functions to join two larger habitat blocks. The term "wildlife corridor" is useful in the context of smaller, local area planning, where wildlife movement may be facilitated by specific local biological habitats or passages and/or may be restricted by barriers to movement. Above all, wildlife corridors must link two areas of core habitat and should not direct wildlife to developed areas or areas that are otherwise void of core habitat (Hilty et al. 2019).



The Study Area is not within a designated wildlife corridor depicted in the Essential Connectivity Areas dataset published by CDFW, which provides baseline data on landscape-scale corridor areas (CalTrans 2010, CDFW 2024c). Overall, the site is located within a densely developed area. Therefore, re-development within these areas will not significantly alter the current landscape or affect its ability to facilitate local wildlife movement.

The Study Area lacks any streams or freshwater or marine aquatic features suitable for anadromous fish. No EFH is present in the Study Area. No USFWS-designated Critical Habitat is present in the Study Area.

## 6.0 ANALYTICAL METHODOLOGY AND SIGNIFICANCE THRESHOLD CRITERIA

Pursuant to Appendix G, Section IV of the State CEQA Guidelines, a project would have a significant impact on biological resources if it would:

1. Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special-status species in local or regional plans, policies, or regulations, or by the CDFW or U.S. Fish and Wildlife Service;
2. Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations, or by the CDFW or U.S. Fish and Wildlife Service;
3. Have a substantial adverse effect on state or federally protected wetlands (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means;
4. Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites;
5. Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance; and/or,
6. Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan.

These thresholds were utilized in completing the analysis of potential project impacts for CEQA purposes. For the purposes of this analysis, a “substantial adverse effect” is generally interpreted to mean that a potential impact could directly or indirectly affect the resiliency or presence of a local biological community or species population. Potential impacts to natural processes that support biological communities and special-status species populations that can produce similar effects are also considered potentially significant. Impacts to individuals of a species or small areas of existing biological communities may be considered less than significant if those impacts are speculative, beneficial, de minimis, and/or would not affect the resiliency of a local population.





## 7.0 IMPACTS AND MITIGATION EVALUATION

Using the CEQA analysis methodology outlined in Section 6.0 above, the following section describes potential significant impacts to sensitive resources within the Study Area as well as suggested compliance and avoidance measures which will avoid significant impacts.

### 7.1 Special-status Species

This section analyzes the Project's potential impacts and mitigation for special-status species in reference to the significance threshold outlined in CEQA Appendix G, Part IV (a):

*Does the project have the potential to have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special-status species in local or regional plans, policies, or regulations, or by the CDFW or U.S. Fish and Wildlife Service?*

Potential impacts and mitigation for potentially significant impacts are discussed below.

#### 7.1.1 Special-Status Plants

No potential impacts were identified because no special-status species were observed during the site visit and no habitat with potential to support these species is present. No measures are recommended.

#### 7.1.2 Special-Status Wildlife and Nesting Birds and Roosting Bats

##### NATIVE NESTING BIRDS

To comply with existing standards and the ConnectMenlo Mitigation Monitoring and Reporting Program BIO-1 of the ConnectMenlo EIR and the Housing Element Update SEIR BIO-1, a preconstruction breeding bird survey is recommended, and will be conducted by a qualified biologist, if vegetation and/or ground disturbance will occur between February 1 and September 1. The survey will occur no more than 14 days prior to the start of construction and will need to review areas within 250 feet of the proposed areas of construction disturbance. If occupied nests are observed during the preconstruction survey, the biologist will establish a "no disturbance buffer" surrounding the active nest or burrow and construction within that buffer zone will be prohibited until any young present have fledged. The buffer distance will be established by the biologist based on factors such as the species observed, type of adjacent disturbance, and sensitivity of the nesting bird to disturbance. If more than 7 days lapse between the completion of the nesting bird survey and the start of construction, the survey will be repeated to determine if any new nests have been established. Given the low probability that sensitive species would be present within or adjacent to the area of construction, potential impacts to special status wildlife species are less than significant. Upon completion of the survey, a report detailing its methods and results shall be supplied. With implementation of this survey and observance of recommended avoidance buffers, if applicable, the Project will be in compliance with BIO-1 and existing standards including CFGC and the MBTA.

##### SPECIAL-STATUS SPECIES

Upon review of existing conditions, species distributions, and habitat requirements, there are no special-status plant and no special-status wildlife species that have moderate potential or higher



to occur within the Study Area. No special status species were detected during the site visit, and habitat for all local special status species is absent.

### **ROOSTING BATS**

The onsite building and landscaping trees generally lack the thermal stability necessary to support bat maternity roosts. The condition of the building is relatively well maintained and no cracks or crevices that are likely to support bat roosting were detected. Trees on the site are also lacking suitable crevices, holes or exfoliating bark to support maternity roosts. No additional surveys or measures with respect to special-status species is recommended for work in the Project Area.

## **7.2 Sensitive Natural Communities and Land Cover Types**

This section addresses the question:

*b) Does the Project have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations, or by the CDFW or U.S. Fish and Wildlife Service;*

No sensitive natural communities or land cover types are present therefore no impacts to sensitive natural communities will occur. No measures to avoid impacts to these features are recommended.

## **7.3 Aquatic Resources**

This section analyzes the Project's potential impacts and mitigation for wetlands and other areas presumed or determined to be within the jurisdiction of the Corps or BCDC in reference to the significance threshold outlined in CEQA Appendix G, Part IV (c):

*c) Does the Project have the potential to have a substantial adverse effect on state or federally protected wetlands as defined by Section 404 of the Clean Water Act (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means;*

No sensitive aquatic resources are present therefore no impacts to sensitive natural communities will occur. No measures to avoid impacts to these features are recommended.

## **7.4 Wildlife Corridors and Native Wildlife Nursery Sites**

This section analyzes the Project's potential impacts and mitigation for habitat corridors and linkages in reference to the significance threshold outlined in CEQA Appendix G, Part IV (d):

*d) Does the Project have the potential to interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites;*

As noted in Section 5.3, the Study Area is not within a designated wildlife corridor and does not provide connectivity between core habitat areas in the region. Therefore, no impacts to wildlife corridors or nursery sites will occur. No measures to avoid impacts to these features are recommended.



## 7.5 Local Policies and Ordinances

This section analyzes the Project's potential impacts and mitigation based on conflicts with local policies and ordinances in reference to the significance threshold outlined in CEQA Appendix G, Part IV (e):

*e) Does the Project have the potential to conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance;*

Local plans and policies related to biological resources examined in this analysis are:

### 7.5.1 Tree Protection

Two trees, eucalyptus #8 and coast live oak #15, meet the criteria of heritage trees under Menlo Park Municipal Code Chapter 13.24 and will be removed as part of the Project under heritage tree removal permit HTR#2022-00164. Tree #15 was also a heritage tree, however, that tree is no longer present within the Study Area. Replacement trees shall be from the City's replacement tree list or comparable in equal value to each tree removed, following the *10<sup>th</sup> Guide for Plant Appraisal* (CTLA 2019). Appraisal valuations were a total \$37,700.00 for two coast live oaks and one eucalyptus (Aesculus Consulting 2022), the Project will be compliant with the "Heritage Tree Ordinance Administrative Guidelines" adopted pursuant to Municipal Code 13.24.080 (Menlo Park 2024a; Menlo Park 2024b).

One street tree, *Zelkova serrata*, shall be protected on site using a tree protection fencing at 0.6 feet from the trunk to ensure no stockpiling, grading, trenching, or filling occurs within the tree protection zone. The tree protection fencing shall comprise of 6-foot chain link fabric mounted on 1.5-inch diameter metal posts driven into the ground. A 6-inch layer of wood chips shall be placed within the tree protection fencing. The Project proposes to incorporate each of the protection measures to avoid conflict with the local tree protection ordinance; therefore, impacts will be less than significant. No additional measures are recommended.

## 7.6 Habitat Conservation Plans

This section analyzes the Project's potential impacts and mitigation based on conflicts with any adopted local, regional, and state habitat conservation plans in reference to the significance threshold outlined in CEQA Appendix G, Part IV (f):

*f) Does the Project have the potential to conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan.*

The Study Area is not located within the plan area of any adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved regional or state habitat conservation plan and therefore would not have the potential to impact or conflict with any such plans. No additional measures are recommended.

## 8.0 REFERENCES



Aesculus Arboricultural Consulting. 2022. Tree protection for proposed apartment building at 3705 Haven Ave, Menlo Park, Ca 94025.

Beier, P., and S. Loe. 1992. A checklist for evaluating impacts to wildlife movement corridors. *Wildlife Society Bulletin* 20(4):434–440.

California Department of Fish and Wildlife (CDFW). 2018. Protocols for Surveying and Evaluating Impacts to Rare Native Plant Populations and Natural Communities. State of California, California Natural Resources Agency, Department of Fish and Wildlife, Sacramento, California. March 20.

California Department of Fish and Wildlife (CDFW). 2024a. California Natural Community List. Biogeographic Data Branch. Vegetation Classification and Mapping Program, Sacramento, California. June 1.

California Department of Fish and Wildlife (CDFW). 2024b. California Natural Diversity Database. Biogeographic Data Branch, Vegetation Classification and Mapping Program, Sacramento, California. Available online at: <https://wildlife.ca.gov/Data/CNDDDB/Maps-and-Data>; most recently accessed: May 2023.

California Department of Fish and Wildlife (CDFW). 2024c. Biogeographic Information and Observation System. Biogeographic Data Branch. Sacramento, California. Online at: <https://wildlife.ca.gov/Data/BIOS>; most recently accessed: September 2021.

California Department of Transportation (CalTrans). 2010. California Essential Habitat Connectivity Project: A Strategy for Conserving a Connected California. Prepared for California Department of Transportation, California Department of Fish and Game, and Federal Highways Administration. Available online at: <https://www.wildlife.ca.gov/Conservation/Planning/Connectivity/CEHC>. Most recently accessed: October 2020.

California Native Plant Society (CNPS). 2001. CNPS Botanical Survey Guidelines. California Native Plant Society, Sacramento, CA. June 2.

California Native Plant Society (CNPS). 2024a. Rare Plant Inventory (online edition, v9.5). Sacramento, California. Online at: <http://rareplants.cnps.org/>; most recently accessed: April 2024.

California Native Plant Society (CNPS). 2024b. A Manual of California Vegetation, Online Edition. Available online at: <http://vegetation.cnps.org>. Most recently accessed: May 2024.

California Soil Resource Lab (CSRL). 2024. SoilWeb. Online at: <http://casoilresource.lawr.ucdavis.edu/>; most recently accessed: May 2024.

Consortium of California Herbaria 2 (CCH2). 2024. CCH2 Portal. Online at: <http://cch2.org/portal/index.php>; most recently accessed: May 2024.

Cornell Lab of Ornithology. 2024. eBird: An online database of bird distribution and abundance. Ithaca, NY. Available online at: <http://www.ebird.org>. Most recently accessed: May 2024.

Council of Landscape and Tree Appraisers (CLTA). 2019. 10<sup>th</sup> revision of the Plant Appraisal Guide. International Society of Arboriculture.

Environmental Laboratory. 1987. Corp of Engineers Wetlands Delineation Manual. Department of the Army, Waterways Experiment Station, Technical Report Y-87-1, Vicksburg, Mississippi.

Google Earth. 2024. Aerial Imagery 1953-2023. Most recently accessed: April 2024.

Hilty, J. A., W. Z. Lidicker Jr, and A. M. Merenlender. 2019. Corridor Ecology: Linking Landscapes for Biodiversity Conservation. Second Edition. Island Press.

Jepson Flora Project (eds.). 2024. Jepson eFlora. Online at: <http://ucjeps.berkeley.edu/IJM.html>; most recently accessed: May 2024.

Menlo Park Municipal Code (Menlo Park). 2024a. Chapter 13.24 Heritage Trees. Available at: <https://www.codepublishing.com/CA/MenloPark/html/MenloPark13/MenloPark1324.html>

Menlo Park Municipal Code (Menlo Park). 2024b. Chapter 13.20 Street Trees. Available at: <https://www.codepublishing.com/CA/MenloPark/html/MenloPark13/MenloPark1320.html>

National Marine Fisheries Service (NMFS). 2024. Essential Fish Habitat Mapper. Available online at: <https://www.habitat.noaa.gov/apps/efhmapper/>. Most recently accessed: May 2024.

Nationwide Environmental Title Research (NETR). 2024. Historic Aerials. Available online at: <https://historicaerials.com/viewer>. Most recently accessed: May 2024.

NatureServe. 2024. NatureServe Conservation Status. Available online at: <http://explorer.natureserve.org/ranking.htm>. Most recently accessed: May 2024.

San Francisco Estuary Institute (SFEI). 2024. California Aquatic Resource Inventory (CARI). Available at: <https://www.ecoatlas.org/>. Most recently accessed: April 2024.

Shuford, W. D., and T. Gardali, eds. 2008. California Bird Species of Special Concern: A ranked assessment of species, subspecies, and distinct populations of birds of immediate conservation concern in California. Western Field Ornithologists, Camarillo, California, and California Department of Fish and Game, Sacramento.

Soulé, M. E., and J. Terbough. 1999. Conserving nature at regional and continental scales - a scientific program for North America. *BioScience* 49(10):809–817.

Stebbins, R. C. 2003. A Field Guide to Western Reptiles and Amphibians, Third edition. Houghton Mifflin Company, Boston, MA and New York, NY.

Thomson, R. C., A. N. Wright, and H. B. Shaffer. 2016. California amphibian and reptile species of special concern. Co-published by the California Department of Fish and Wildlife and University of California Press, Oakland, California.

U.S. Army Corps of Engineers (Corps). 2010. Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Western Mountains, Valleys, and Cost Region (Version 2.0). May.

U.S. Army Corps of Engineers. 2022. National Wetland Plant List, version 3.6. Online at: <https://wetland-plants.sec.usace.army.mil/>; most recently accessed: May 2024.

U.S. Department of Agriculture (USDA). 2024. Web Soil Survey. Soil Survey Staff, Natural Resources Conservation Service. Available online at: <https://websoilsurvey.nrcs.usda.gov/app/>; most recently accessed: May 2024.

U.S. Department of Agriculture (USDA). 2024. National List of Hydric Soils. Natural Resources Conservation Service. Available online at: [https://efotg.sc.egov.usda.gov/references/Public/IL/State\\_List\\_NRCS\\_Hydric\\_Soils\\_Report\\_Dynamic\\_Data.html](https://efotg.sc.egov.usda.gov/references/Public/IL/State_List_NRCS_Hydric_Soils_Report_Dynamic_Data.html); most recently accessed: May 2024.

U.S. Fish and Wildlife Service (USFWS). 2024a. Information for Planning and Consultation. Available online at: <https://ecos.fws.gov/ipac/>. Most recently accessed: May 2024.

U.S. Fish and Wildlife Service (USFWS). 2024b. National Wetlands Inventory. Available online at: <http://www.fws.gov/nwi>. Most recently accessed: May 2024.

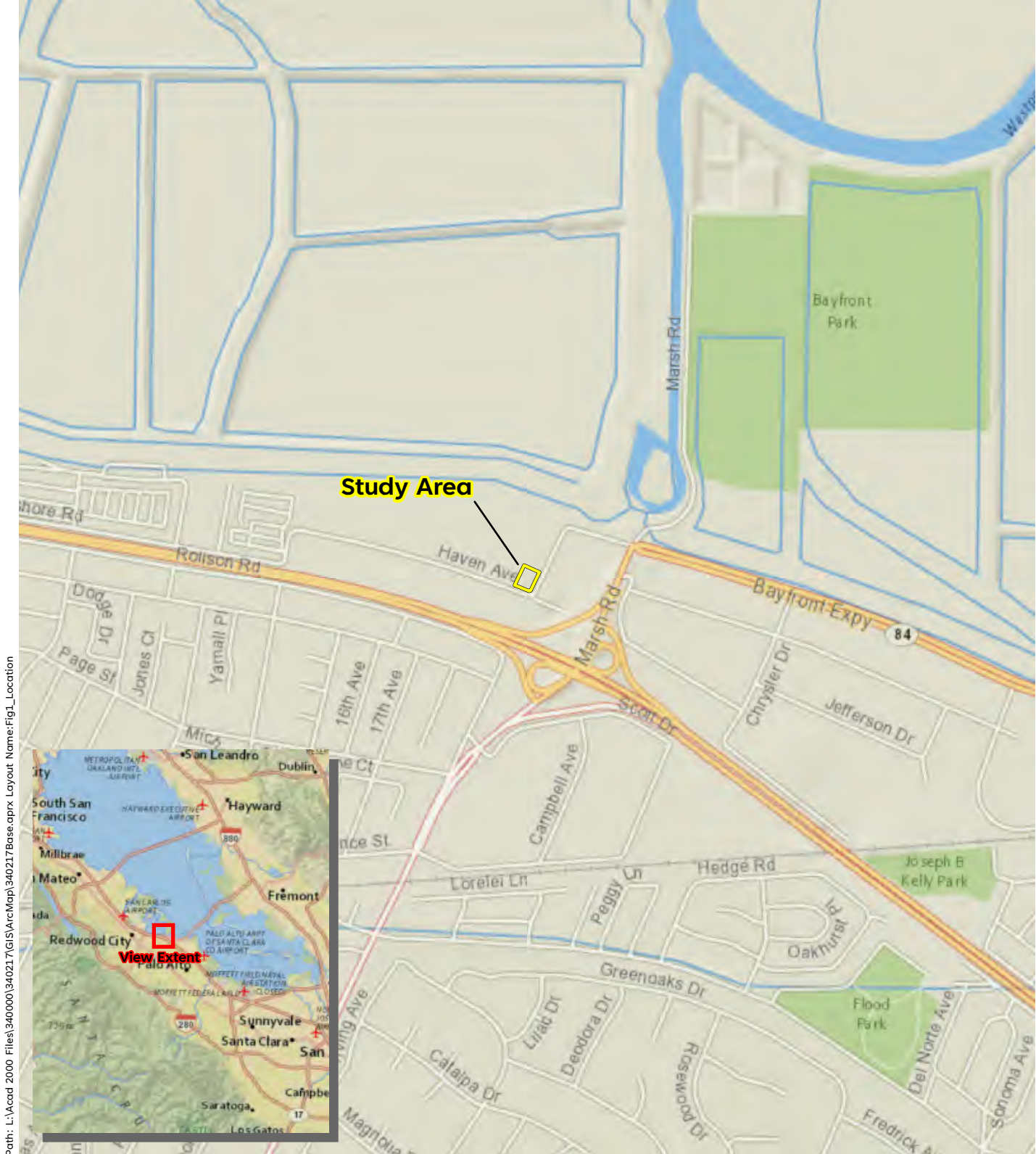
Western Bat Working Group (WBWG). 2017. Western Species Accounts. Available online at: <http://wbwg.org/western-bat-species/>. Most recently accessed: May 2024.

***THIS PAGE INTENTIONALLY LEFT BLANK.***

## APPENDIX A. FIGURES





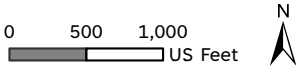


Path: L:\Acad 2000 Files\340000\340217\GIS\ArcMap\340217Base.aprx Layout Name:Fig1\_Location

Sources: National Geographic, WRA | Prepared By: njander, 5/28/2024

**Figure 1. Study Area Regional Location Map**

3705 Haven Avenue,  
Menlo Park,  
San Mateo County, California







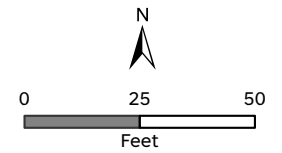
**Figure 2.  
Land Cover**

3705 Haven Avenue,  
Menlo Park,  
San Mateo County, California

 Study Area (0.77 ac.)

**Land Cover Types**

 Developed / Disturbed (0.77 ac.)



Path: L:\Acad 2000 Files\340000\340217\GIS\ArcMap\340217Base.aprx

Sources: San Mateo County Imagery 2022, WRA | Prepared By: njander, 5/29/2024



**APPENDIX B. SPECIES OBSERVED IN THE STUDY AREA**

Appendix B. Species Observed within the Study Area

SCIENTIFIC NAME	COMMON NAME	STATUS
<b>WILDLIFE</b>		
<i>Covus corvus</i>	American raven	None
<i>Mimus polyglottos</i>	Northern mockingbird	None
<b>PLANTS</b>		
<i>Pyrus calleryana</i>	Bradford pear	None
<i>Quercus agrifolia</i>	Coast live oak	Heritage*
<i>Sequoia sempervirens</i>	Coast redwood	Heritage*
<i>Eucalyptus</i>	Red flowering gum	Heritage/Street Tree**
<i>Acer palmatum</i>	Japanese maple	None
<i>Tilia americana</i>	American linden	Street Tree**
<i>Zelkova serrata</i>	Japanese zelkova	None
<i>Festuca arundinacea</i>	dwarf fescue	None
<i>Salvia rosmarinus</i>	rosemary	None
<i>Buxus sp.</i>	boxwood	None

\* City of Menlo Park Heritage Tree Ordinance Chapter 13.24

\*\* City of Menlo Park Street Tree Ordinance Chapter 13.20



**APPENDIX C.**  
**REPRESENTATIVE PHOTOGRAPHS OF THE STUDY AREA**







**Photograph 1.** Coast live oak on the south edge of the parcel.



**Photograph 2.** The coast live oak, #14 in the arborist report is now gone.





**Photograph 3.** Trees planted along the northern edge of the parcel along the existing parking lot,



**Photograph 4.** West side of parcel facing the existing building.

**MEMORANDUM**

DATE	August 5, 2024	PROJECT NUMBER	23323
TO	Pedro Botero Toto March Capital Management	PROJECT	3705 Haven Avenue
OF	2040 Webster Street San Francisco, California, 94115	FROM	Walker Shores, Architectural Historian, and Christina Dikas, Principal, Page & Turnbull
CC	Ruth Todd, Principal, Page & Turnbull	VIA	Email

REGARDING 3705 Haven Avenue, Menlo Park

---

**Part II, Items 10 through 13**

The following section is in response to Part II, items 10 through 13 of the City of Menlo Park Planning Division Request for Evaluation for Potential Historic Significance for the building at 3705 Haven Avenue in Menlo Park, California.

**10. Does the property have any known association with events that have made a significant contribution to the broad patterns of local or regional history, or the cultural heritage of California or the United States?**

3705 Haven Avenue does not appear to be associated with any events that have made a significant contribution to the broad patterns of local or regional history, or the cultural heritage of California or the United States. Built in 1963, the property was one of many post-war office parks constructed in the Bohannon Industrial Tract and around Santa Clara and San Mateo Counties. The existing building was not one of the earliest post-war office parks in the area, nor does it appear to have influenced the development of the area or design of other office parks. RO Associates, an occupant of the subject building from 1968 through at least 1973, was a notable developer and manufacturer of specialty military and industrial grade modular power converters ("RO Associates in new HQ in Menlo Park," The Peninsula Times Tribune, March 5, 1968). They are credited with designing the first commercial 20KHz switching power supply, the 5V 10A Model210, in 1967 ("Ro Associates - Astrodyne Profile," ProcureInc.com).

Although these developments were important in their specific fields of work, they were not impactful to the broad patterns of local, regional, California, or national history or cultural heritage.

Imagining change in historic environments through  
design, research, and technology



Furthermore, RO Associates only occupied the subject building for a few years, and its most notable development in the field of power converters occurred in 1967, before they occupied the subject building. RO Associates was not individually influential in, or especially associated with, the rise of Silicon Valley or with the electronics industry in the 1960s compared to the numerous other major electronics corporations in the region. No other occupants of the subject building were found to have contributed to the broad patterns of local, regional, California, or national history or cultural heritage, nor was it the location of any known significant events.

**11. Does the property have any known association with the lives of persons important to local, California, or national history?**

3705 Haven Avenue does not appear to have any known significant association with the lives of persons important to local, California, or national history. The original owner, David Dewey Bohannon, was a prolific real estate developer. Beginning in the 1920s, Bohannon began a real estate and development empire that would eventually produce 25,965 residential units, 136 subdivisions, and 367 acres of industrial parks and commercial developments ("David Dewey Bohannon . . .," San Mateo County Times, November 16, 1999.). Bohannon was the first president of the National Association of Homebuilders during World War II and was inducted into the California Building Industry Hall of Fame in 1986. Bohannon was especially active in post-war suburban developments, including the Hillsdale Mall in 1956, which was home to the first suburban Macy's. Bohannon's industrial parks include the Bohannon Industrial Tract, where the subject building was constructed for his company in 1963.

Although the building was originally owned by D. D. Bohannon and is a post-war suburban development, his significance is better represented by the extant Hillsdale Mall. The Bohannon Industrial Tract has seen numerous redevelopments, and the subject building is not individually or especially associated with Bohannon's work compared to the numerous other extant large-scale developments that defined his career. No other owners or individual occupants of the subject building were found to have significance that would directly relate to the subject building.

**12. Does the property retain distinctive characteristics of a type, period, region, or construction method, or represent the work of a master or possess high artistic values?**

3705 Haven Avenue does not appear to have distinctive characteristics of a type, period, region, or construction method, or represent the work of a master or possess high artistic values. According to the original building permit (Permit No. A-8645, inspection card on file with the City of Menlo Park), it was constructed in 1963 by contractor Howard J. White for original owner D. D. Bohannon as a warehouse and office building. The building is a minimal example of a post-war suburban office park, and does not demonstrate any particular style. No evidence was uncovered through research to suggest that the builder, Howard J. White, was a designer or builder of merit.

**13. Has the property yielded or does it have the potential to yield information important to the prehistory or history of the local area, California or the nation?**

The property at 3705 Haven Avenue does not appear to have the potential to provide information important to the prehistory or history of the local area, California, or nation. It does not feature construction or material types, or embody engineering practices that would, with additional study, provide important information. Evaluation of this property was limited to age-eligible resources above ground and did not involve survey or evaluation of the subject property for the purposes of archaeological information.

In conclusion, the property at 3705 Haven Avenue does not appear to be eligible for listing in the California Register of Historical Resources or National Register of Historic Places under any significance criteria. The City of Menlo Park maintains no local register of historic resources.

Prepared for **March Capital Fund**

**GEOTECHNICAL INVESTIGATION  
PROPOSED RESIDENTIAL BUILDING  
3705 HAVEN AVENUE  
MOUNTAIN VIEW, CALIFORNIA**

DRAFT

***UNAUTHORIZED USE OR COPYING OF THIS DOCUMENT IS STRICTLY  
PROHIBITED BY ANYONE OTHER THAN THE CLIENT FOR THE SPECIFIC  
PROJECT***

February 10, 2022  
Project No. 22-2153

## TABLE OF CONTENTS

1.0	INTRODUCTION .....	1
2.0	SCOPE OF SERVICES .....	1
3.0	FIELD INVESTIGATION AND LABORATORY TESTING.....	2
3.1	Cone Penetration Tests .....	2
3.2	Test Boring.....	3
3.3	Laboratory Testing.....	4
4.0	SUBSURFACE CONDITIONS .....	5
4.1	Groundwater Conditions.....	5
5.0	SEISMIC CONSIDERATIONS .....	6
5.1	Regional Seismicity and Faulting .....	6
5.2	Geologic Hazards.....	8
5.2.1	Ground Shaking .....	8
5.2.2	Liquefaction and Associated Hazards.....	9
5.2.3	Cyclic Densification.....	11
5.2.4	Ground Surface Fault Rupture.....	11
6.0	DISCUSSION AND CONCLUSIONS .....	11
6.1	Expansive Soil .....	12
6.2	Foundation Support and Settlement.....	12
6.3	Construction Considerations.....	13
6.4	Soil Corrosivity.....	14
7.0	RECOMMENDATIONS.....	14
7.1	Site Preparation and Grading.....	14
7.1.1	Soil Subgrade Stabilization.....	16
7.1.2	Select Fill .....	19
7.1.3	Exterior Flatwork Subgrade Preparation .....	19
7.1.4	Utility Trench Backfill.....	20
7.2	Surface Drainage and Landscaping .....	21
7.2.1	Surface Drainage.....	21
7.2.2	Landscaping.....	21
7.3	Mat Foundation.....	22
7.4	Retaining Walls.....	24
7.5	Pavement Design .....	26
7.5.1	Flexible (Asphalt Concrete) Pavement Design.....	26
7.5.2	Rigid (Portland-Cement Concrete) Pavement .....	27
7.6	Pavers.....	27
7.6.1	Non-Permeable Concrete Pavers .....	28
7.7	Seismic Design.....	28

8.0	GEOTECHNICAL SERVICES DURING CONSTRUCTION .....	29
9.0	LIMITATIONS.....	29

REFERENCES

FIGURES

APPENDIX A – Cone Penetration Test Results and Boring Log

APPENDIX B – Laboratory Test Results

**LIST OF FIGURES**

Figure 1	Site Location Map
Figure 2	Site Plan
Figure 3	Regional Geologic Map
Figure 4	Regional Fault Map
Figure 5	Earthquake Zone of Required Investigation
Figure 6	Utility Trench Plug Detail

**APPENDIX A**

Figures A-1 through A-7	Cone Penetration Test Results
Figure A-8	Log of Test Boring
Figure A-9	Soil Classification Chart

**APPENDIX B**

Figure B-1	Plasticity Chart
Figure B-2	Particle Size Distribution Report
Figures B-3 through B-6	Consolidation Test Results
Figure B-7	Corrosivity Test Results

**GEOTECHNICAL INVESTIGATION  
PROPOSED RESIDENTIAL BUILDING  
3705 HAVEN AVENUE  
Menlo Park, California**

## **1.0 INTRODUCTION**

This report presents the results of the geotechnical investigation performed by Rockridge Geotechnical for the proposed residential building to be constructed at 3705 Haven Avenue in Menlo Park, California. The project site is on the northwestern side of the intersection of Haven Avenue and Haven Court, as shown on the Site Location Map, Figure 1.

The site is a relatively level, rectangular-shaped lot with plan dimensions of approximately 150 by 198 feet. It is bordered by commercial properties to the north and west, and by Haven Avenue to the east and south. The site is currently occupied by a one-story commercial building with adjacent landscaping and asphalt-paved parking.

We understand plans include demolition of the existing improvements and construction of an at-grade, seven-story, podium-style residential building. The proposed building will be constructed with five stories of Type V materials over a two-story concrete podium.

## **2.0 SCOPE OF SERVICES**

Our investigation was performed in accordance with our proposal dated December 13, 2021. Our scope of work consisted of exploring subsurface conditions at the site by performing seven cone penetration tests (CPTs), drilling one test boring, performing laboratory testing on selected soil samples, and performing engineering analyses to develop conclusions and recommendations regarding:

- site seismicity and seismic hazards, including the potential for liquefaction and liquefaction-induced ground failure
- design groundwater table
- the most appropriate foundation type(s) for the proposed building
- design criteria for the recommended foundation type(s)

- estimates of foundation settlement
- slab-on-grade floors
- lateral earth pressures for permanent below-grade walls
- site grading and fill placement, including fill quality and compaction requirements
- 2019 California Building Code (CBC) site class and design spectral response acceleration parameters
- corrosivity of the near-surface soil and the potential effects on buried concrete and metal structures and foundations, and recommendations for corrosion protection
- rigid and flexible pavement design
- permeable and non-permeable pavers
- construction considerations.

### **3.0 FIELD INVESTIGATION AND LABORATORY TESTING**

We explored the subsurface conditions at the site by performing seven CPTs and drilling one test boring. Prior to performing the CPTs and drilling the boring, we filed drilling notification forms with San Mateo County Environmental Health (SMCEH) and contacted Underground Service Alert (USA) to notify them of our work, as required by law. We also retained C. Cruz Subsurface Locators, a private utility locator, to check that the boring and CPT locations were clear of underground utilities. Details of our field exploration are described in this section.

#### **3.1 Cone Penetration Tests**

Seven CPTs, designated as CPT-1 through CPT-7, were performed by Middle Earth Geo Testing, Inc. of Orange, California on January 21, 2022. The CPTs were performed at the approximate locations shown on the Site Plan, Figure 2. The CPTs were advanced to depths of 50 to 100 feet below ground surface (bgs) by hydraulically pushing a 1.7-inch-diameter, cone-tipped probe into the ground. The cone-tipped probe measured tip resistance, and the friction sleeve behind the cone tip measured frictional resistance. Electrical strain gauges within the cone continuously measured soil parameters for the entire depth advanced. A special cone was also used to measure the in-situ soil shear wave velocity in approximately five-foot intervals at CPT-3. Soil data, including tip resistance, frictional resistance, and shear wave velocity, were recorded

by a computer while the test was conducted. Accumulated data were processed by computer to provide engineering information, such as the soil behavior types and approximate strength characteristics of the soil encountered. The CPT logs showing tip resistance and friction ratio, as well as interpreted soil behavior type and shear wave velocity profiles, are presented on Figures A-1 through A-7 in Appendix A.

Upon completion, the CPT holes were backfilled with neat cement grout in accordance with SMCEH requirements, and the pavement surface was patched with quick-set concrete.

### **3.2 Test Boring**

One boring, designated as B-1, was drilled on January 12, 2022, by Pitcher Services, LLC of East Palo Alto, California at the approximate location shown on the Site Plan, Figure 2. Boring B-1 was drilled to a depth of 91 feet bgs using a truck-mounted drill rig equipped with rotary-wash equipment. During drilling, our field engineer logged the soil encountered and obtained samples for visual classification and laboratory testing. The log of Boring B-1 is presented in Appendix A on Figures A-8a through A-8c. The soil encountered in the boring was classified in accordance with the classification chart shown on Figure A-9.

Soil samples were obtained using the following samplers:

- Modified California (MC) split-barrel sampler with a 3.0-inch outside diameter and 2.5-inch inside diameter, lined with 2.43-inch inside diameter brass/stainless steel tubes.
- Standard Penetration Test (SPT) split-barrel sampler with a 2.0-inch outside and 1.5-inch inside diameter, without liners.
- Dames and Moore (DM) thin-walled tubes with a 2.5-inch outside and 2.43-inch inside diameter.

The MC and SPT samplers were driven with a 140-pound, automatic safety hammer falling 30 inches per drop. The samplers were driven up to 18 inches, and the hammer blows required to drive the samplers were recorded every six inches and are presented on the boring log. A “blow count” is defined as the number of hammer blows per six inches of penetration or 50 blows for six inches or less of penetration. The blow counts required to drive the MC and SPT samplers



were converted to approximate SPT N-values using factors of 0.84 and 1.44, respectively, to account for sampler type, approximate hammer energy (previously measured by the drilling subcontractor), and the fact that the SPT sampler was designed to accommodate liners, but liners were not used. The blow counts used for this conversion were the last two 6-inch blow counts, the last one blow count if the sampler was driven more than six inches but less than 12 inches, or the only blow count if the sampler was driven six inches or less. The converted SPT N-values are presented on the boring log.

The DM tubes were used in an attempt to obtain relatively undisturbed samples of medium stiff to stiff, fine-grained soils. The DM tubes were slowly advanced using the weight of the drill rods and hydraulic pressure, as needed. The hydraulic pressure required to obtain each DM sample is listed on the boring log.

Upon completion of drilling, the boreholes were backfilled with cement grout in accordance with SMCEH requirements and the pavement was patched with quick-set concrete. The soil cuttings from the borings were placed in 55-gallon drums and are scheduled to be removed from the site for disposal on February 24, 2022.

### **3.3 Laboratory Testing**

Laboratory tests were performed on selected soil samples from our boring to assess their engineering properties and physical characteristics. Soil samples were tested by B. Hillebrandt Soils Testing, Inc. of Alamo, California to measure moisture content, dry density, plasticity (Atterberg limits), and fines content. Three soil samples were also tested by Inspection Services Inc. of Berkeley, California to measure consolidation properties. Soil corrosivity testing was also performed on near-surface soil samples by Project X Corrosion Engineering of Murrieta, California. The results of the geotechnical laboratory tests are presented on the boring log and attached in Appendix B.

## 4.0 SUBSURFACE CONDITIONS

As presented on the Regional Geologic Map (Figure 3), the site is mapped as being underlain by Holocene-age alluvial deposits (Qha). The results of our boring and CPTs indicate the alluvium primarily consists of stiff to very stiff clay with occasional medium stiff layers up to about one foot thick. The clay is interbedded with layers of medium dense to very dense sand and gravel to the maximum depth explored of about 100 feet bgs. The granular layers encountered at this site vary in thickness from approximately 1 to 16 feet.

The results of an Atterberg limits test performed on a sample of the near-surface clay obtained from the boring indicate it is highly expansive<sup>1</sup>.

### 4.1 Groundwater Conditions

Groundwater was measured in each CPT with a weighted tape measure immediately following removal of the CPT rods. Depth to groundwater was recorded when first encountered while drilling the boring and again after waiting approximately 30 minutes. The measurements indicate the depth to groundwater ranged from about 6 to 11 feet bgs at the time of our field investigation. To further evaluate the depth to groundwater at the site, we reviewed information on the State of California Water Resources Control Board GeoTracker website (<http://geotracker.swrcb.ca.gov>). The nearest site with groundwater data is immediately to the north of the project site, at 3695-3723 and 3750 Haven Avenue. Groundwater was measured in eight monitoring wells from November 1999 to September 2001. The data indicates the groundwater level fluctuated from 3.91 to 7.09 feet bgs during that time. The closest monitoring well to the project site is MW-5B, where the depth to groundwater ranged from 5.71 to 7.09 feet bgs.

The groundwater level at the site is expected to fluctuate several feet seasonally, depending on the amount of rainfall. Based on our review of available historic groundwater information within the site vicinity, we conclude a high groundwater level of five feet bgs should be used for this project.

---

<sup>1</sup> Highly expansive soil undergoes large volume changes with changes in moisture content.

## 5.0 SEISMIC CONSIDERATIONS

Because the project site is in a seismically active region, we evaluated the potential for earthquake-induced geologic hazards, including ground shaking, ground surface rupture, liquefaction,<sup>2</sup> lateral spreading,<sup>3</sup> and cyclic densification<sup>4</sup>. The results of our evaluation regarding seismic considerations for the project site are presented in the following sections.

### 5.1 Regional Seismicity and Faulting

The site is located in the Coast Ranges Geomorphic Province of California that is characterized by northwest-trending valleys and ridges. These topographic features are controlled by folds and faults that resulted from the collision of the Farallon Plate and North American Plate and subsequent strike-slip faulting along the San Andreas Fault system. The San Andreas Fault is more than 600 miles long from Point Arena in the north to the Gulf of California in the south. The Coast Ranges Province is bounded on the east by the Great Valley and on the west by the Pacific Ocean.

The major active faults in the area are the San Andreas, Hayward, and Calaveras faults. These and other faults in the region are shown on Figure 4. Numerous damaging earthquakes have occurred along these faults in recorded time. For these and other active faults within a 50-kilometer radius of the site, the distance from the site and estimated characteristic moment magnitude<sup>5</sup> [Petersen et al. (2014) & Thompson et al. (2016)] are summarized in Table 1. These

---

<sup>2</sup> Liquefaction is a phenomenon where loose, saturated, cohesionless soil experiences temporary reduction in strength during cyclic loading such as that produced by earthquakes.

<sup>3</sup> Lateral spreading is a phenomenon in which surficial soil displaces along a shear zone that has formed within an underlying liquefied layer. Upon reaching mobilization, the surficial blocks are transported downslope or in the direction of a free face by earthquake and gravitational forces.

<sup>4</sup> Cyclic densification is a phenomenon in which non-saturated, cohesionless soil is compacted by earthquake vibrations, causing ground-surface settlement.

<sup>5</sup> Moment magnitude ( $M_w$ ) is an energy-based scale and provides a physically meaningful measure of the size of a faulting event. Moment magnitude is directly related to average slip and fault rupture area.

references are based on the Third Uniform California Earthquake Rupture Forecast (UCERF3), prepared by Field et al. (2013).

**TABLE 1**  
**Regional Faults and Seismicity**

<b>Fault Segment</b>	<b>Approximate Distance from Site (km)</b>	<b>Direction</b>	<b>Characteristic Moment Magnitude</b>
Monte Vista - Shannon	7.7	Southwest	7.14
Total North San Andreas (SAO+SAN+SAP+SAS)	10	Southwest	8.04
North San Andreas (Peninsula, SAP)	10	Southwest	7.38
Total Hayward + Rodgers Creek (RC+HN+HS+HE)	20	East	7.58
Hayward (South, HS)	20	East	7.00
San Gregorio	24	West	7.44
Butano	25	Southwest	6.93
Total Calaveras (CN+CC+CS+CE)	30	East	7.43
Calaveras (North, CN)	30	East	6.86
Calaveras (Central, CC)	32	East	6.85
Hayward (North, HN)	33	North	6.90
Hayward (Extension, HE)	35	East	6.18
Las Positas	35	East	6.50
Zayante-Vergeles (2011 CFM)	36	Southwest	7.48
North San Andres (Santa Cruz Mts. SAS)	38	Southeast	7.15
Mount Diablo Thrust South	40	Northeast	6.5
Mount Diablo Thrust North CFM	40	Northeast	6.72
Mount Diablo Thrust	41	Northeast	6.67
Sargent	44	Southeast	6.71
Zayante-Vergeles	48	Southeast	7.00
Greenville (North)	49	Northeast	6.86
Concord	49	Northeast	6.45

Since 1800, four major earthquakes have been recorded on the North San Andreas Fault. In 1836, an earthquake with an estimated maximum intensity of VII on the Modified Mercalli (MM) scale occurred east of Monterey Bay on the San Andreas Fault (Topozada and Borchardt 1998). The estimated moment magnitude ( $M_w$ ) for this earthquake is about 6.25. In 1838, an

earthquake occurred with an estimated intensity of about VIII-IX (MM), corresponding to an  $M_w$  of about 7.5. The San Francisco Earthquake of 1906 caused the most significant damage in the history of the Bay Area in terms of loss of lives and property damage. This earthquake created a surface rupture along the San Andreas Fault from Shelter Cove to San Juan Bautista approximately 470 kilometers in length. It had a maximum intensity of XI (MM), an  $M_w$  of about 7.9, and was felt 560 kilometers away in Oregon, Nevada, and Los Angeles. The Loma Prieta Earthquake of October 17, 1989 had an  $M_w$  of 6.9 and occurred about 57 kilometers south of the site.

In 1868, an earthquake with an estimated maximum intensity of X on the MM scale occurred on the southern segment (between San Leandro and Fremont) of the Hayward Fault. The estimated  $M_w$  for the earthquake is 7.0. In 1861, an earthquake of unknown magnitude (estimated  $M_w$  of about 6.5) was reported on the Calaveras Fault. The most recent significant earthquake on this fault was the 1984 Morgan Hill Earthquake ( $M_w = 6.2$ ).

As a part of the UCERF3 project, researchers estimated that the probability of at least one  $M_w \geq 6.7$  earthquake occurring in the greater San Francisco Bay Area during a 30-year period (starting in 2014) is 72 percent. The highest probabilities are assigned to sections of the Hayward (South), Calaveras (Central), and the North San Andreas (Santa Cruz Mountains) faults. The respective probabilities are approximately 25, 21, and 17 percent.

## **5.2 Geologic Hazards**

During a major earthquake on a segment of one of the nearby faults, strong to very strong ground shaking is expected to occur at the project site. Strong shaking during an earthquake can result in ground failure such as that associated with soil liquefaction, lateral spreading, and cyclic densification.

### **5.2.1 Ground Shaking**

The seismicity of the site is governed by the activity of the San Andreas and Hayward faults, although ground shaking from future earthquakes on other faults, including the Monte Vista-

Shannon and Calaveras faults, will also be felt at the site. These and other faults in the region are shown in relation to the site on Figure 4. The ground shaking intensity felt at the project site will depend on: 1) the size of the earthquake (magnitude), 2) the distance from the site to the fault source, 3) the focusing of earthquake energy along the fault in the direction of the rupture (directivity), and 4) site-specific soil conditions. We judge that strong to very strong ground shaking could occur at the site during a large earthquake on one of the nearby faults.

### **5.2.2 Liquefaction and Associated Hazards**

When a saturated, cohesionless soil liquefies, it experiences a temporary loss of shear strength created by a transient rise in excess pore pressure generated by strong ground motion. Soil susceptible to liquefaction includes loose to medium dense sand and gravel, low-plasticity silt, and some low-plasticity clay deposits. Flow failure, lateral spreading, differential settlement, loss of bearing strength, ground fissures and sand boils are evidence of excess pore pressure generation and liquefaction.

The subject property is located in an area of Menlo Park designated as a potential liquefaction hazard zone on the map prepared by California Geological Survey (CGS) titled *State of California, Earthquake Zones of Required Investigation, Palo Alto Quadrangle*, dated October 18, 2006 (Figure 6). Special Publication 117 prepared by the CGS (2008) recommends subsurface investigations in mapped liquefaction potential areas be performed using rotary-wash borings and/or CPTs.

We evaluated the liquefaction potential of soil encountered below groundwater at the site using data collected in the CPTs with consideration of subsurface information from the rotary-wash boring and laboratory test results. We assessed the liquefaction susceptibility using the software CLiq 3.7.1.10 (GeoLogismiki, 2022). CLiq uses measured CPT data and assesses liquefaction susceptibility and post-earthquake vertical settlement, given a user-defined earthquake magnitude and peak ground acceleration (PGA). Our liquefaction analyses were performed using the methodology proposed by Boulanger and Idriss (2014). We calculated “free-field”

liquefaction-induced settlements of these layers and then modified the settlements using the methodology proposed by Çetin et al. (2009) to account for the depth of the liquefiable layers.

Our analyses were performed using an assumed high groundwater depth of five feet below existing grades for the “during earthquake” groundwater level. In accordance with the 2019 CBC, we used a peak ground acceleration of 0.70 times gravity (g) in our liquefaction evaluation; this peak ground acceleration is consistent with the Maximum Considered Earthquake Geometric Mean ( $MCE_G$ ) peak ground acceleration adjusted for site effects ( $PG_{AM}$ ). We also used a moment magnitude 8.04 earthquake, which is consistent with the characteristic moment magnitude for the San Andreas Fault, as presented in Table 1.

Most of the soils at the site are sufficiently cohesive and/or dense to resist liquefaction; however, several layers of potentially liquefiable material were encountered in the CPTs below a depth of 13 feet bgs. The layers consist of loose to medium dense sand to silty sand/sandy silt that are discontinuous and vary in thickness from about 6 inches to 5 feet. We estimate total ground surface settlement associated with liquefaction (referred to as post-liquefaction reconsolidation) following a major earthquake on a nearby fault will be up to 1-1/2 inches, with differential settlement of up to 3/4 inch over a horizontal distance of 30 feet.

Ishihara (1985) presented an empirical relationship that provides criteria used to evaluate whether liquefaction-induced ground failure, such as sand boils, would be expected to occur under a given level of shaking for a liquefiable layer of given thickness overlain by a resistant, or protective, surficial layer. We conclude the non-liquefiable soil overlying the potentially liquefiable soil layers is sufficiently thick such that the potential for liquefaction-induced ground failure at the ground surface is low.

Considering the potentially liquefiable layers are not continuous, we conclude the risk of lateral spreading is nil.

### **5.2.3 Cyclic Densification**

Cyclic densification (also referred to as differential compaction) of non-saturated sand (sand above groundwater table) can occur during an earthquake, resulting in settlement of the ground surface and overlying improvements. The soil above the groundwater at the site primarily consists of fine-grained deposits that are sufficiently cohesive or coarse-grained deposits that are sufficiently dense, such that they are not susceptible to cyclic densification. Therefore, we conclude the potential for cyclic densification to impact the proposed development is very low.

### **5.2.4 Ground Surface Fault Rupture**

Historically, ground surface displacements closely follow the trace of geologically young faults. The site is not within an Earthquake Fault Zone, as defined by the Alquist-Priolo Earthquake Fault Zoning Act, and no known active or potentially active faults exist on the site. We therefore conclude the risk of fault offset at the site from a known active fault is very low. In a seismically active area, the remote possibility exists for future faulting in areas where no faults previously existed; however, we conclude the risk of surface faulting and consequent secondary ground failure from previously unknown faults is also very low.

## **6.0 DISCUSSION AND CONCLUSIONS**

Based on the results of our engineering analyses using the subsurface data collected from our field investigation and laboratory testing, we conclude the site may be developed as proposed provided the geotechnical issues discussed below are properly addressed. The primary geotechnical issues to be addressed are: (1) foundation settlement due to compression of the underlying clay soils, (2) potentially liquifiable soil layers underlying the site that can result in liquefaction-induced settlement following a major earthquake, and (3) the presence of highly expansive near-surface soil. These and other geotechnical issues as they pertain to the proposed development are discussed in this section.



## **6.1 Expansive Soil**

An Atterberg limits test performed on a sample of the near-surface clay indicates it is highly expansive. Highly expansive near-surface soil is subject to volume changes during seasonal fluctuations in moisture content. These volume changes can cause movement and cracking of foundations, slabs, and pavements. Therefore, foundations and slabs should be designed and constructed to mitigate the adverse effects of the expansive clay. These effects can be mitigated by moisture-conditioning the expansive soil below slabs, providing non-expansive soil below slabs, and either supporting foundations below the zone of severe moisture change or providing a stiff, shallow foundation that can limit deformation of the superstructure as the underlying soil shrinks and swells.

## **6.2 Foundation Support and Settlement**

The highly expansive near-surface clay is subject to large volume changes during seasonal fluctuations in moisture content. Shrinking and swelling associated with these volume changes can cause cracking of foundations and slabs if not properly addressed during design and construction. The potential adverse effects of the highly expansive soil can be mitigated by moisture conditioning the expansive soil, providing select, non-expansive fill or lime-treated soil below interior and exterior slabs, and either supporting foundations below the zone of severe moisture change or providing a stiff, shallow foundation that can limit deformation of the superstructure as the underlying soil shrinks and swells.

Foundation alternatives for sites underlain by highly expansive clay include deepened spread footings, stiffened shallow foundations such as conventionally reinforced concrete mats or post-tensioned slabs-on-grade (P-T slabs), and deep foundations. We judge that the anticipated total and differential settlements due to a combination of static foundation loads and post-liquefaction reconsolidation will exceed the typical tolerance of a conventional spread footing foundation system. Therefore, we judge conventional spread footings are not appropriate for support of the proposed building. Based on our experience with similar structures and soil conditions, we conclude the most appropriate foundation type for the proposed building would consist of a

conventionally reinforced concrete mat foundation, provided the estimated static and liquefaction-induced settlements are acceptable to the project team. Recommendations for design of a mat foundation are presented in Section 7.3 below.

We estimate total settlement of the proposed building supported on a properly designed mat slab under static loading will be on the order of 1 to 1-1/2 inches and differential settlement will be on the order of 3/4 inch in 30 feet. As discussed in Section 5.2.3, we estimate additional total and differential settlement as a result of post-liquefaction reconsolidation during an MCE event could be up to 1-1/2 and 3/4 inches across a horizontal distance of 30 feet, respectively.

### **6.3 Construction Considerations**

The soil to be excavated generally consists of clay which can be excavated with conventional earth-moving equipment such as loaders and backhoes. If site grading is performed during the rainy season, the near-surface clay will likely be wet and will have to be dried before compaction can be achieved. Heavy rubber-tired equipment, such as scrapers and vibratory rollers, could cause excessive deflection (pumping) of the wet clay and, therefore, should be avoided. If the project schedule or weather conditions do not permit sufficient time for drying of the soil by aeration, the subgrade can be treated with lime prior to compaction or imported granular fill can be used. The appropriate amount of lime should be determined during construction based on a visual examination and, if necessary, laboratory testing of the soil to be treated. It is also important that the moisture content of the subgrade soil is sufficiently high to reduce the expansion potential. If the grading work is performed during the dry season, moisture-conditioning may be required.

Excavations that will be deeper than five feet and will be entered by workers should be sloped or shored in accordance with CAL-OSHA standards (29 CFR Part 1926). The contractor should be responsible for the construction and safety of temporary slopes.

## 6.4 Soil Corrosivity

Corrosivity tests were performed by Project X Corrosion Engineering of Murrieta, California on two soil samples obtained from soil borings at depths of 2-3/4 and 5-1/2 feet bgs. The corrosivity test results are presented in Appendix B of this report.

The resistivity test results (938 and 1,541 ohm-cm) indicate the near-surface soil is “highly to extremely corrosive<sup>6</sup>” to buried metallic structures, which is typical of clayey soils. Accordingly, buried iron, steel, cast iron, ductile iron, galvanized steel and dielectric-coated steel or iron may need to be protected against corrosion depending upon the critical nature of the structure. If it is necessary to have metal in contact with soil, a corrosion engineer should be consulted to provide recommendations for corrosion protection.

The chloride ion concentrations (5.6 and 11.8 mg/kg) indicate the chlorides in the soil do not pose a threat to buried metallic structures and reinforcing steel in concrete structures below ground. The results of the pH tests indicate the near-surface soil has a pH of 8.2 and 8.6, which should not have an adverse effect on buried concrete or steel; however, it may be corrosive to buried copper and aluminum. The results also indicate the sulfate ion concentrations (11.0 and 37.0 mg/kg) are sufficiently low such that sulfates do not to pose a threat to buried concrete.

## 7.0 RECOMMENDATIONS

Our recommendations for site preparation and grading, design of foundations, seismic design, and other geotechnical aspects of the project are presented in this section.

### 7.1 Site Preparation and Grading

Site clearing should include the removal of all existing underground utilities and buried foundations. In general, abandoned underground utilities should be removed to the property line or service connections and properly capped or plugged with concrete. Where existing utility lines

---

<sup>6</sup> Roberge, Pierre R. (2018). Corrosion Basics, an Introduction, Third Edition. NACE International, P. 189.

are outside of the proposed building footprint and will not interfere with the proposed construction, they may be abandoned in-place provided the lines are filled with lean concrete or cement grout to the property line. It may be feasible to abandon small-diameter utility lines below the mat foundation; however, these should be evaluated on a case-by-case basis. Voids resulting from demolition activities should be properly backfilled with compacted fill following the recommendations provided later in this section.

The near-surface clay at the site is highly expansive. To mitigate the detrimental effects of expansive near-surface clay, exterior concrete flatwork should be underlain by at least eight inches of select fill compacted per requirements in Table 2. At a minimum, the upper four inches of the select fill should consist of Class 2 aggregate base (AB). The soil subgrade beneath proposed improvements or areas for new fill should be scarified to a depth of at least 12 inches, moisture-conditioned to at least four percent above optimum moisture content and compacted to between 88 and 92 percent relative compaction<sup>7</sup>.

On-site soil may be used as general fill, provided the material is free of organic matter, contain no rocks or lumps larger than three inches in greatest dimension, and be approved by the Geotechnical Engineer. If material to be used as fill is imported to the site, it should meet the requirements for select fill provided below in Section 7.1.2. A summary of the compaction recommendations for the various types of fill that may be used at the site is presented in Table 2.

---

<sup>7</sup> Relative compaction refers to the in-place dry density of soil expressed as a percentage of the maximum dry density of the same material, as determined by the ASTM D1557-09 laboratory compaction procedure.

**TABLE 2**  
**Summary of Compaction Recommendations**

<b>Location</b>	<b>Recommended Relative Compaction (percent)</b>	<b>Moisture Recommendation</b>
Building pad subgrade – native high-plasticity clay	88 – 92	4+% above optimum
General fill – lime-treated clay and low-plasticity on-site and imported	90+	Above optimum
General fill – native high-plasticity clay	88 – 92	4+% above optimum
Utility trench backfill – native high-plasticity clay	88 – 92	4+% above optimum
Utility trench backfill – low-plasticity	90+	Above optimum
Utility trench - clean sand or gravel	95+	Near optimum
Pavement subgrade – native high-plasticity clay	90+	2+% above optimum
Pavement subgrade – low-plasticity soil or lime-treated clay	95+	Above optimum
Pavement – Class 2 AB	95+	Near optimum
Exterior slabs – native high-plasticity clay	88 – 93	4+% above optimum
Exterior slabs – low-plasticity	90+	Above optimum
Exterior slabs – select fill/Class 2 AB	90+	Above optimum

Where the above recommended compaction requirements conflict with the City of Menlo Park standard details for pavements and sidewalks within the public right-of-way, the City Engineer or inspector should determine which compaction requirements should take precedence.

**7.1.1 Soil Subgrade Stabilization**

In some areas, soft, wet soil may be exposed during grading, causing the subgrade to deflect and rut under the weight of grading equipment. Although, the majority of the soil beneath the site consists of stiff to very stiff clay, if heavy wheeled equipment is used during the rainy season,

these materials may become disturbed and soften. In these areas, some form of subgrade stabilization may be required if disturbance occurs. Several options for stabilizing subgrade are presented below.

### Aeration

Aeration consists of mixing and turning the soil to naturally lower the moisture content to an acceptable level. Aeration typically requires several days to a week of warm, dry weather to effectively dry the material. Material to be dried by aeration should be scarified to a depth of at least 12 inches; the scarified material should be turned at least twice a day to promote uniform drying. Once the moisture content of the aerated soil has been reduced to acceptable levels, the soil should be compacted in accordance with our previous recommendations. Aeration is typically the least costly subgrade stabilization alternative; however, it generally requires the most time to complete and may not be effective if the soft material extends to great depths. Aeration will likely not be effective if the building subgrade extends below or near the groundwater table; however, it depends on the time of year construction is performed.

### Overexcavation

Another method of achieving suitable subgrade in areas where soft, wet soil is exposed is to overexcavate the soft subgrade soil and replace it with drier, granular material. If the soft material extends to great depths, the upper 18 to 24 inches of soft material may be overexcavated and a geotextile tensile fabric (Mirafi 500X or equivalent) placed beneath the granular backfill to help span over the weaker material. The fabric should be pulled tight and placed at the base of the overexcavation, extending at least two feet laterally beyond the limits of the overexcavation in all directions. The fabric should be overlapped by at least two feet at all seams. Granular material such as Class 2 AB should then be placed and compacted over the geotextile tensile fabric.

Where very soft subgrade conditions are encountered, a bi-directional geogrid, such as Tensar TriAx TX-140 or equivalent, may be required in lieu of tensile fabric. Where geogrids are used, the depth of overexcavation will likely be on the order of 12 to 18 inches. The geogrids should

be overlapped by at least two feet and tied with hog rings or nylon ties at a spacing not to exceed 10 feet. The geogrids should be covered with a well-graded granular fill such as Class 2 AB; open-graded rock should not be used. All backfill placed over the geogrid should be compacted in accordance with our previous recommendations.

### Chemical Treatment

Lime and/or cement have been successfully used to dry and stabilize fine-grained soils with varying degrees of success. Lime- and/or cement-treatment will generally decrease soil density, change its plasticity properties, and increase its strength. The degree to which lime will react with soil depends on variables such as type of soil, mineralogy, quantity of lime, and length of time the lime-soil mixture is cured. Cement is generally used when a significant amount of granular material or low-plasticity silt is present in the soil. The quantity of lime and/or cement added generally ranges from 3 to 7 percent by weight and should be determined by laboratory testing. The specialty contractor performing the chemical treatment should select the most appropriate additive and quantity for the soil conditions encountered.

Lime treatment of fine-grained soils generally includes site preparation, application of lime, mixing, compaction, and curing of the lime-treated soil. Field quality control measures should include checking the depth of lime treatment, degree of pulverization, lime spread rate measurement, lime content measurement, moisture content and density measurements, and mixing efficiency.

The lime treatment process should be designed by a contractor specializing in its use and who is experienced in the application of lime in similar soil conditions. Based on our experience with lime treatment, we judge that the specialty contractor should be able to treat the highly expansive on-site material to produce a non-expansive fill for building pad subgrades and, if desired, for exterior flatwork and pavement subgrades. For planning purposes, we recommend assuming the lime treatment will consist of five percent Dolomitic Quicklime by dry weight of soil. The dry weight of soil should be assumed to be 105 pounds per cubic foot (pcf) for calculating lime quantities. The specialty contractor should: 1) perform a lime demand test prior to treatment to

determine the percentage of Quicklime required to achieve a pH of 12.4 or higher in the treated soil, 2) perform an Atterberg limits test to confirm the proposed percentage of Quicklime will reduce the plasticity index of the treated soil to 15 or less, and 3) prepare a lime treatment procedure for our review prior to construction.

### **7.1.2 Select Fill**

Select fill should consist of imported soil that is free of organic matter, contain no rocks or lumps larger than three inches in greatest dimension, have a liquid limit less than 40 and plasticity index less than 15, and be approved by the Geotechnical Engineer. Select fill should be placed in lifts not exceeding eight inches in loose thickness, moisture-conditioned to above optimum moisture content, and compacted to at least 90 percent relative compaction beneath concrete flatwork and sidewalks. Beneath vehicular pavements, the select fill should be compacted to at least 95 percent relative compaction. Samples of proposed select fill material should be submitted to the Geotechnical Engineer at least three business days prior to use at the site.

The grading contractor should provide analytical test results or other suitable environmental documentation indicating the imported fill is free of hazardous materials at least three days before use at the site. If this data is not provided, a minimum of two weeks will be required to perform any necessary analytical testing.

### **7.1.3 Exterior Flatwork Subgrade Preparation**

Exterior flatwork and sidewalks should be at least four inches thick and reinforced with No. 3 bars at 18 inches on center. We recommend at least eight inches of select fill be placed beneath proposed exterior concrete flatwork, including patio slabs and sidewalks; the select fill should extend at least six inches beyond the slab edges where the flatwork is adjacent to landscaping. At a minimum, the upper four inches of the select fill should consist of Class 2 AB. Select fill and AB beneath exterior slabs-on-grade, such as patios and sidewalks, should be moisture-conditioned and compacted in accordance with the requirements provided above in Table 2.



Even with eight inches of select fill, exterior slabs may experience some cracking due to shrinking and swelling of the underlying expansive soil. Thickening the slab edges and adding additional reinforcement will control this cracking to some degree. In addition, where slabs provide access to buildings, it would be prudent to dowel the entrance to the building to permit rotation of the slab as the exterior ground shrinks and swells and to prevent a vertical offset at the entries.

#### **7.1.4 Utility Trench Backfill**

Excavations for utility trenches can be readily made with a backhoe. All trenches should conform to the current CAL-OSHA requirements. To provide uniform support, pipes or conduits should be bedded on a minimum of four inches of sand or fine gravel. After the pipes and conduits are tested, inspected (if required) and approved, they should be covered to a depth of six inches with sand or fine gravel, which should be mechanically tamped. Backfill for utility trenches and other excavations is also considered fill, and should be placed and compacted in accordance with the recommendations previously presented. If imported clean sand or gravel (defined as soil with less than 10 percent fines) is used as backfill, it should be compacted to at least 95 percent relative compaction. Jetting of trench backfill should not be permitted. Special care should be taken when backfilling utility trenches in pavement areas. Poor compaction may cause excessive settlements, resulting in damage to the pavement section.

Foundations for the proposed building should be bottomed below an imaginary line extending up at a 1.5:1 (horizontal to vertical) inclination from the base of utility trenches that run parallel to the edge of the foundation. Alternatively, the portion of the utility trench (excluding bedding) that is below the 1.5:1 line can be backfilled with controlled low-strength material (CLSM) with a 28-day unconfined compressive strength of at least 100 pounds per square inch (psi) or Class 2 AB compacted to at least 95 percent relative compaction.

Where utility trenches enter the building pad, an impermeable plug consisting of CLSM, at least three feet in length, should be installed where the trenches enter the building footprint (see Figure 6). Furthermore, where sand- or gravel-backfilled trenches cross planter areas and pass

below asphalt or concrete pavements, a similar plug should be placed at the edge of the pavement. The purpose of these recommendations is to reduce the potential for water to become trapped in trenches beneath the building or pavements. This trapped water can cause heaving of soils beneath slabs and softening of subgrade soil beneath pavements.

## **7.2 Surface Drainage and Landscaping**

### **7.2.1 Surface Drainage**

Positive surface drainage should be provided around the building to direct surface water away from the foundations. To reduce the potential for water ponding adjacent to the building, we recommend the ground surface within a horizontal distance of five feet from the building slope down away from the building with a surface gradient of at least two percent in unpaved areas and one percent in paved areas. In addition, roof downspouts should be discharged into controlled drainage facilities to keep the water away from the foundations. The use of water-intensive landscaping around the perimeter of the building should be avoided to reduce the amount of water introduced to the expansive clay subgrade.

Care should be taken to minimize the potential for subsurface water to collect beneath flatwork and pavements. Where landscape beds and tree wells are immediately adjacent to pavements and flatwork that are not designed as permeable systems, we recommend vertical cutoff barriers be incorporated into the design to prevent irrigation water from saturating the subgrade and AB. These barriers may consist of either flexible impermeable membranes or deepened concrete curbs.

### **7.2.2 Landscaping**

Storm water treatment systems (infiltration basins, rain gardens, bio-retention systems, vegetated swales, flow-through planters, etc.), if constructed at the site, should be provided with underdrains, as well as impermeable liners. Due to the low permeability and expansion potential of the near-surface soil, these systems should be designed for no exfiltration into the subgrade soil. The drainage layer beneath the “treatment” soil should consist of a minimum 12-inch-thick layer

of Caltrans Class 2 Permeable drainage material and include a minimum 6-inch-diameter perforated drain pipe with perforations facing downward. An impermeable liner consisting of a high-density polyethylene membrane (or equivalent) that is at least 10 mils thick should line the entire bottom and sides of the system.

Prior experience and industry literature indicate that some species of high water-demand<sup>8</sup> trees can induce ground-surface settlement by drawing water from the expansive clay, causing it to shrink. Where these types of trees are planted near buildings, the ground-surface settlement may result in damage to structure. This problem usually occurs 10 or more years after planting, as the trees reach mature height. To reduce the risk of tree-induced, building settlement, we recommend trees of the following genera not be planted within 25 feet of the proposed buildings unless adequate deep irrigation is provided at the tree locations: Eucalyptus, Populus, Quercus, Crataegus, Salix, Sorbus (simple-leafed), Ulmus, Cupressus, Chamaecyparis, and Cupressocyparis. Because this is a limited list and does not include all genera that may induce ground-surface settlement, a tree specialist should be consulted prior to selection of trees to be planted at the site.

### **7.3 Mat Foundation**

Provided the estimated settlements presented in Section 6.2 are acceptable from a structural and architectural standpoint, the proposed building may be supported on a mat foundation. If portions of the mat foundation will be constructed below the design groundwater level, such as the elevator pit foundation, the mat should be underlain by waterproofing and designed to resist hydrostatic uplift pressures.

For mat design, we recommend using a modulus of subgrade reaction of 15 pounds per cubic inch (pci) for dead-plus-live load conditions; this value has been reduced to account for the size of the mat/equivalent footings (therefore, this is not  $k_{v1}$  for 1-foot-square plate) and may be

---

<sup>8</sup> “Water-demand” refers to the ability of the tree to withdraw large amounts of water from the soil subgrade, rather than soil suction exerted by the root system.

increased by 50 percent for total load conditions. Once the structural engineer estimates the distribution of bearing stress on the bottom of the mat, we should review the distribution and revise the modulus of subgrade reaction, if appropriate.

The edges of the mat should be thickened such that the foundation edge is bottomed at least one foot below the adjacent exterior finished grade. Where the mat is constructed near a bioswale or other stormwater treatment area, the edge of the mat should be founded below an imaginary line extending up at an inclination of 1.5:1 (horizontal:vertical) from the base of the bioswale/treatment area. We expect the average bearing stress under the mat to be relatively low; however, concentrated stresses will occur at column locations and at the edges of the mat. The mat should be designed to impose a maximum dead-plus-live bearing pressure of 3,000 pounds per square foot (psf) on the foundation subgrade soil for dead-plus-live load conditions; this pressure may be increased by one-third for total load conditions. The allowable bearing pressures recommended for dead-plus-live and total load conditions include factors of safety of at least 2.0 and 1.5, respectively.

Lateral loads may be resisted by a combination of passive pressure on the vertical faces of the mat and friction between the bottoms of the mat and the supporting soil. To compute passive resistance, we recommend using an allowable uniform pressure of 1,500 psf for transient load conditions and an equivalent fluid weight of 240 pounds per cubic foot (pcf) for sustained load conditions. The upper foot of soil should be ignored unless confined by a slab or pavement. Frictional resistance should be computed using a base friction coefficient of 0.30 where the mat is in contact with the soil. Where a vapor retarder is placed beneath the mat, a base friction coefficient of 0.20 should be used. The passive pressure and frictional resistance values include a factor of safety of at least 1.5 and may be used in combination without further reduction.

To reduce water vapor transmission through the mat foundation, we recommend a vapor retarder be placed between the bottom of the mat and the underlying subgrade soil in areas where water vapor transmission through the mat would be detrimental. The vapor retarder should be at least 15 mils thick and meet the requirements for Class A vapor retarders stated in ASTM E1745. The vapor retarder should be placed in accordance with the requirements of ASTM E1643. These

requirements include overlapping seams by six inches, taping seams, and sealing penetrations in the vapor retarder. Concrete can be placed directly on the vapor retarder provided the water/cement (w/c) ratio of the concrete does not exceed 0.45 and water is not added in the field. If necessary, workability may be increased by adding plasticizers. In addition, the concrete for the mat should be properly cured. Before floor coverings are placed over the mat, the contractor should check that the concrete surface and the moisture emission levels (if emission testing is required) meet the manufacturer's requirements.

Recommendations for preparation of the mat subgrade are presented in Section 7.1. The mat subgrade should consist of properly moisture-conditioned and compacted native clay and/or engineered fill and should be free of standing water, debris, and disturbed materials prior to placing the vapor retarder or waterproofing. If loose soil is encountered at mat subgrade elevation, the soil should be removed and the overexcavation should be backfilled with engineered fill or CLSM with minimum 28-day unconfined compressive strength of 50 pounds per square inch (psi). It is critical the mat subgrade be kept moist and free of shrinkage cracks until the vapor retarder is placed. If the mat subgrade dries during installation of utilities, it should be re-scarified and moisture-conditioned to meet the recommendations in Table 2 prior to placement of the vapor retarder. If the mat will be constructed during the rainy season, we recommend a three-inch-thick unreinforced concrete "rat" slab be placed on the prepared subgrade to prevent it from softening if exposed to rain. We should check the foundation subgrade prior to placement of the vapor retarder.

#### **7.4 Retaining Walls**

Retaining walls should be designed to resist static lateral earth pressures, lateral pressures caused by earthquakes, vehicular surcharge pressures, and surcharges from adjacent foundations, where appropriate. We recommend retaining walls that are restrained from movement at the top and/or sides, such as elevator pit walls, be designed for the more critical of the following criteria:

- At-rest equivalent fluid weight of 73 pcf above the design groundwater table and 97 pcf below.

- Active pressure of 27 pcf plus a seismic increment of 19 pcf (triangular distribution) above the design groundwater level, and 87 pcf plus a seismic increment of 9 pcf (triangular distribution) below the groundwater level.

The recommended lateral earth pressures above are based on a level backfill condition with no additional surcharge loads. Where the below-grade wall is subject to traffic loading within 10 feet of the wall, an additional uniform lateral pressure of 50 psf, applied to the upper 10 feet of the wall, should be used.

To protect against moisture migration, below-grade walls should be waterproofed and water stops should be placed at all construction joints. The design pressures above assume site retaining walls and the portion of below-grade walls above the design groundwater table are fully drained to prevent accumulation of water behind the walls from rainfall, irrigation, broken water lines, etc. One acceptable method for backdraining a retaining wall is to place a prefabricated drainage panel against the back of the wall. The drainage panel should extend down to a perforated PVC collector pipe at the design high groundwater level (or higher if confirmed acceptable by the Structural Engineer). The pipe should be surrounded on all sides by at least four inches of Caltrans Class 2 permeable material or 3/4-inch drain rock wrapped in filter fabric (Mirafi NC or equivalent). The pipe should be connected to a suitable discharge point; a sump and pump system may be required to drain the collector pipes. In lieu of installing a backdrain behind below-grade walls, the walls may be designed using the undrained lateral earth pressure acting over the entire height of the wall.

If backfill is required behind below-grade walls prior to pouring the building slabs, the walls should be braced, or hand compaction equipment used, to prevent unacceptable surcharges on walls (as determined by the Structural Engineer).

## 7.5 Pavement Design

Design recommendations for asphalt and Portland cement concrete pavements are presented in the following sections. Because of the near-surface soil in highly expansive, permeable pavements are not recommended at this site because of the potential for distress of pavements and surrounding improvements due to wetting-induced heave of the soil.

### 7.5.1 Flexible (Asphalt Concrete) Pavement Design

The State of California flexible pavement design method was used to develop the recommended asphalt concrete (AC) pavement sections. On the basis of our experience, we selected an R-value of 5, which is appropriate for highly expansive clay soils. Recommended pavement sections for traffic indices (TIs) ranging from 4.5 to 6.5 are presented in Table 3. The project Civil Engineer for the project should check that the TIs presented in this report are appropriate for the intended use. We can provide additional pavement sections for different TIs upon request.

**TABLE 3**  
**Asphalt Concrete Pavement Sections**

TI	Asphaltic Concrete (inches)	Class 2 AB R = 78 (inches)
4.5	2.5	9.5
5.0	3.0	10.0
5.5	3.0	12.0
6.0	3.5	13.0
6.5	4.0	13.5

The upper 12 inches of the subgrade should be moisture-conditioned and compacted in accordance with requirements presented in Section 7.1 and be non-yielding. The AB should be moisture-conditioned to near optimum and compacted to at least 95 percent relative compaction and be non-yielding.

If pavements are adjacent to irrigated landscaped areas (including infiltration basins), curbs adjacent to those areas should extend through the AB and at least three inches into the underlying soil to reduce the potential for irrigation water to infiltrate into the pavement section. If drip irrigation is used in the landscaping adjacent to the pavement, however, deepening of the curbs is not required.

### **7.5.2 Rigid (Portland-Cement Concrete) Pavement**

Concrete pavement design is based on a maximum single-axle load of 20,000 pounds, a maximum tandem axle load of 32,000 pounds, and light truck traffic (i.e., a few trucks per week). The recommended rigid pavement section for these axle loads is six inches of Portland cement concrete over six inches of Class 2 AB. Where fire truck traffic is expected, the pavement section should consist of 6.5 inches of Portland cement concrete over six inches of Class 2 AB. Where only passenger cars or light trucks will use the pavement, the recommended minimum pavement section is five inches of Portland cement concrete over six inches of Class 2 AB.

The modulus of rupture of the concrete should be at least 500 psi at 28 days. Contraction joints should be constructed at maximum spacing of 12.5 and 15 feet for 5 inch, 6-inch, and 6.5-inch-thick pavement sections, respectively. Where the outer edge of a concrete pavement meets asphalt concrete pavement, the concrete slab should be thickened by 50 percent at a taper not to exceed a slope of 1 in 10. For areas that will receive moderate truck traffic, such as weekly garbage truck traffic, we recommend the slab be reinforced with a minimum of No. 4 bars at 16-inch spacing in both directions. Recommendations for subgrade preparation and AB compaction for concrete pavement are the same as those we have described above for asphalt concrete pavement.

## **7.6 Pavers**

Recommendations for non-permeable and permeable pavers, as well as grass pavers are presented in the following sections. The recommendations below may also be used for cast-in-place permeable concrete pavements.



### 7.6.1 Non-Permeable Concrete Pavers

Non-permeable concrete pavers for pedestrian traffic should be underlain by at least four inches of Class 2 AB compacted to at least 90 percent relative compaction. The soil subgrade beneath the AB should be scarified to a depth of at least eight inches, moisture-conditioned, and compacted in accordance with the recommendations presented in Section 7.1.

Where non-permeable concrete pavers will be subject to vehicular traffic, we recommend they consist of fully dentated, interlocking shapes and be at least 80 millimeters (3.15 inches) thick. The pavers should be placed on a 1- to 2-inch-thick sand leveling course underlain by Class 2 AB. The thickness of the Class 2 AB beneath non-permeable pavers subject to vehicular traffic should be consistent with the sections presented for asphalt pavement in Section 7.5.1 for the applicable TI. The subgrade and AB should be compacted in accordance with the recommendations for AC pavement in Section 7.5.1.

### 7.7 Seismic Design

The results of CPT-3 indicate the shear wave velocity for the upper 100 feet of soil ( $V_{s30}$ ) at the site is about 760 feet per second. As discussed in Section 5.2.2, thin layers of potentially liquefiable soil were encountered beneath the site. The 2019 CBC calls for a Site Class F designation for sites underlain by potentially liquefiable soil; however, we judge that these layers are relatively thin and discontinuous and conclude that the soil at the site will not incur significant non-linear behavior. Therefore, we conclude a Site Class D designation is appropriate for seismic design.

The latitude and longitude of the site are  $37.4837^\circ$  and  $-122.1771^\circ$ , respectively. Hence, in accordance with the 2019 CBC, we recommend the following:

- Site Class D (stiff soil)
- $S_s = 1.5g$ ,  $S_1 = 0.6g$

The 2019 CBC is based on the guidelines contained within ASCE 7-16 which stipulates that where  $S_1$  is greater than 0.2 times gravity (g) for Site Class D, a ground motion hazard analysis is

needed unless the seismic response coefficient ( $C_s$ ) value will be calculated as outlined in Section 11.4.8, Exception 2. Assuming the  $C_s$  value will be calculated as outlined in Section 11.4.8, Exception 2, we recommend the following seismic design parameters:

- $F_a = 1.0$ ,  $F_v = 1.7$
- $S_{MS} = 1.5g$ ,  $S_{M1} = 1.02g$
- $S_{DS} = 1.0g$ ,  $S_{D1} = 0.68g$
- Seismic Design Category D for Risk Factors I, II, and III.

## **8.0 GEOTECHNICAL SERVICES DURING CONSTRUCTION**

Prior to construction, Rockridge Geotechnical should review the project plans and specifications to verify that they conform to the intent of our recommendations. During construction, our field engineer should provide on-site observation and testing during placement and compaction of fill, grading, and installation of foundations. These observations will allow us to compare actual with anticipated soil conditions and to verify that the contractor's work conforms to the geotechnical aspects of the plans and specifications.

## **9.0 LIMITATIONS**

This geotechnical investigation has been conducted in accordance with the standard of care commonly used as state-of-practice in the profession. No other warranties are either expressed or implied. The recommendations made in this report are based on the assumption that the subsurface conditions do not deviate appreciably from those disclosed in the exploratory boring and CPTs. If any variations or undesirable conditions are encountered during construction, we should be notified so that additional recommendations can be made. The foundation recommendations presented in this report are developed exclusively for the proposed development described in this report and are not valid for other locations and construction in the project vicinity.

## REFERENCES

2019 California Building Code (CBC).

Boulanger, R.W and Idriss, I.M. (2014), “CPT and SPT Based Liquefaction Triggering Procedures”, Center for Geotechnical Modeling, Department of Civil and Environmental Engineering, University of California, Davis, Report No. UCD/CGM-14/01, April.

Bray, J. D., Macedo, J. (2017), “Simplified Procedure for Estimating Liquefaction-Induced Building Settlement”, Soil Dynamics and Earthquake Engineering, Volume 102, pp 215-231, November 2017.

Campbell, K.W., Bozorgnia, Y. (2011), “Predictive Equations for the Horizontal Component of Standardized Cumulative Absolute Velocity as Adapted for Use in the Shutdown of U.S. Nuclear Power Plants”, Nuclear Engineering and Design 2011;241:2558-69.

California Division of Mines and Geology (1996). Probabilistic Seismic Hazard Assessment for the State of California, DMG Open-File Report 96-08.

California Geological Survey (2008). Guidelines for Evaluating and Mitigating Seismic Hazards in California, Special Publication 117.

California Geological Survey (2007). Fault-Rupture Hazard Zones in California, Special Publication 42, Interim Revision 2007.

California Geological Survey (2000), State of California, Earthquake Zones of Required Investigation, Mountain View Quadrangle, Official Map, October 18, 2006.

Cao, T., Bryant, W. A., Rowshandel, B., Branum D. and Wills, C. J. (2003). “The Revised 2002 California Probabilistic Seismic Hazard Maps”.

GeoLogismiki, 2016, CLiq, Version 2.0.

Field, E.H., and 2014 Working Group on California Earthquake Probabilities, 2015, UCERF3: A new earthquake forecast for California’s complex fault system: U.S. Geological Survey 2015-3009, 6 p., <http://dx.doi.org/10.3133/fs20153009>.

Jennings, C.W. (1994). Fault Activity Map of California and Adjacent Areas with Locations and Ages of Recent Volcanic Eruptions: California Division of Mines and Geology Geologic Data Map No. 6, scale 1: 750,000.

Zhang G., Robertson. P.K., Brachman R., 2002, Estimating Liquefaction Induced Ground Settlements from the CPT, Canadian Geotechnical Journal, 39: pp 1169-1180

**FIGURES**

DRAFT



Base map: Google Maps, 2017

**3705 HAVEN AVENUE**  
Menlo Park, California

**ROCKRIDGE**  
GEOTECHNICAL

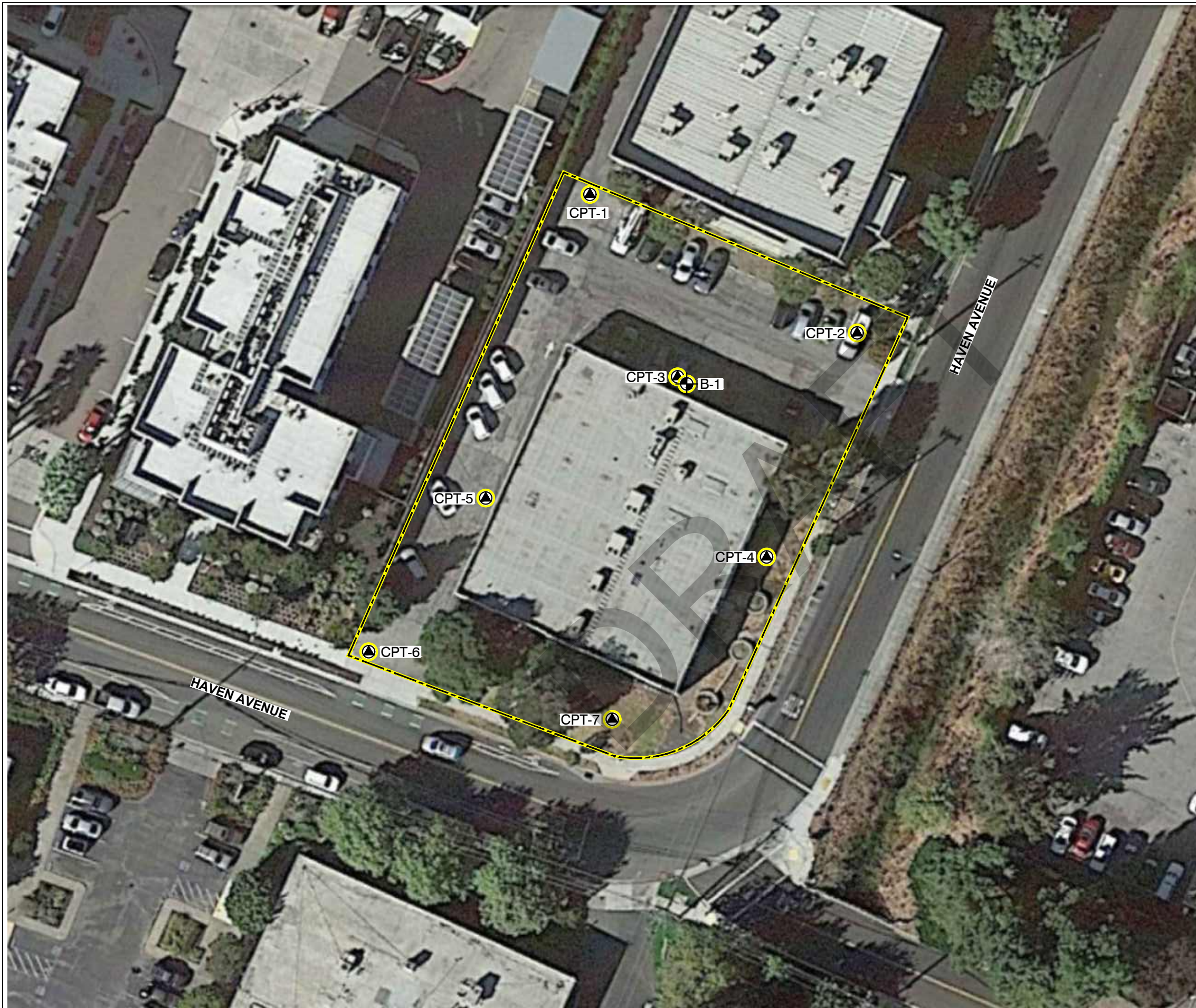
**SITE LOCATION MAP**

Approximate scale




Date 02/08/22 Project No. 22-2153

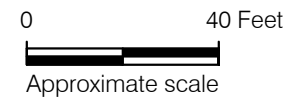
Figure 1





**EXPLANATION**

- CPT-1  Approximate location of cone penetration test by Rockridge Geotechnical, Inc., January 21, 2022
- B-1  Approximate location of boring by Rockridge Geotechnical, Inc., January 12, 2022
-  Project limits



Base map: Google Earth, 2021

**3705 HAVEN AVENUE**  
Menlo Park, California

**SITE PLAN**

Date 02/08/22 | Project No. 22-2153 | Figure 2





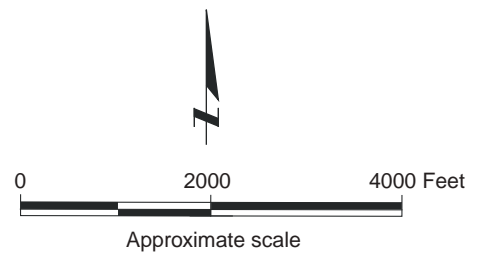


Base map: Google Earth with U.S. Geological Survey (USGS), San Mateo County, 2018.

**EXPLANATION**

- af** Artificial Fill
- Qhym** Mud deposits (late Holocene)
- Qha** Alluvium (Holocene)
- Qpa** Alluvium (Pleistocene)

Geologic contact:  
dashed where approximate and dotted where concealed, queried where uncertain



**3705 HAVEN AVENUE**  
Menlo Park, California

**REGIONAL GEOLOGIC MAP**








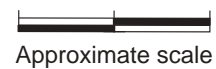
Base Map: U.S. Geological Survey (USGS), National Seismic Hazards Maps - Fault Sources, 2014.

**EXPLANATION**

-  Strike slip
-  Thrust (Reverse)
-  Normal



0 5 10 Miles



Approximate scale

**3705 HAVEN AVENUE**  
Menlo Park, California

**REGIONAL FAULT MAP**



Date 02/08/22

Project No. 22-2153

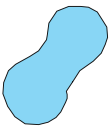
Figure 4





**Liquefaction Zones**

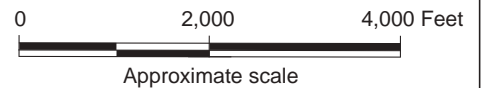
Areas where historical occurrence of liquefaction, or local geological, geotechnical and ground water conditions indicate a potential for permanent ground displacements such that mitigation as defined in Public Resources Code Section 2693(c) would be required.



**Earthquake-Induced Landslide Zones**

Areas where previous occurrence of landslide movement, or local topographic, geological, geotechnical and subsurface water conditions indicate a potential for permanent ground displacements such that mitigation as defined in Public Resources Code Section 2693(c) would be required.

Reference:  
 Earthquake Zones of Required Investigation  
 Palo Alto Quadrangle  
 California Geological Survey  
 Released October 18, 2006



**3705 HAVEN AVENUE**  
 Menlo Park, California

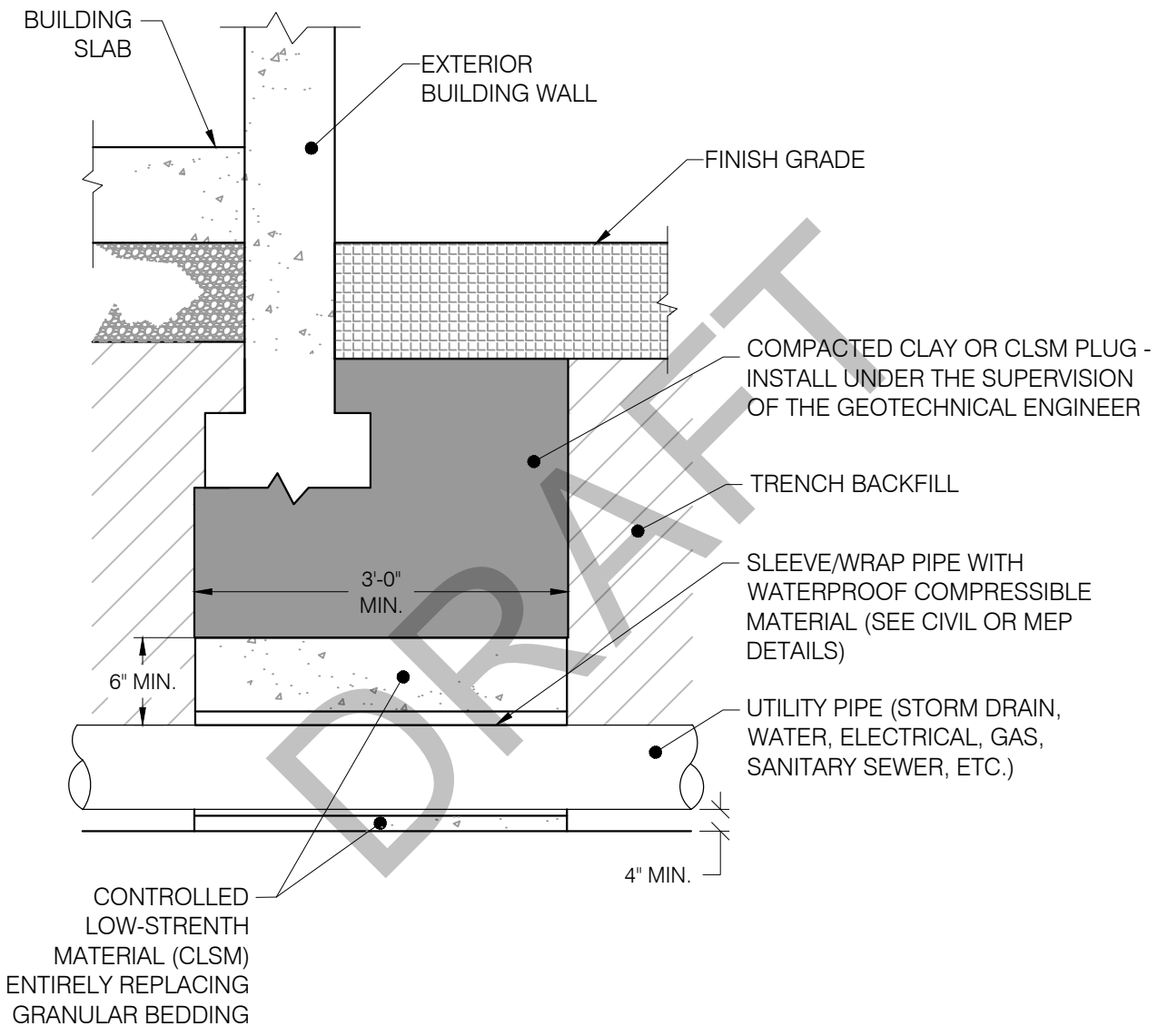
**EARTHQUAKE ZONES OF REQUIRED INVESTIGATION MAP**



Date 02/09/22

Project No. 22-2153

Figure 5



Not to Scale

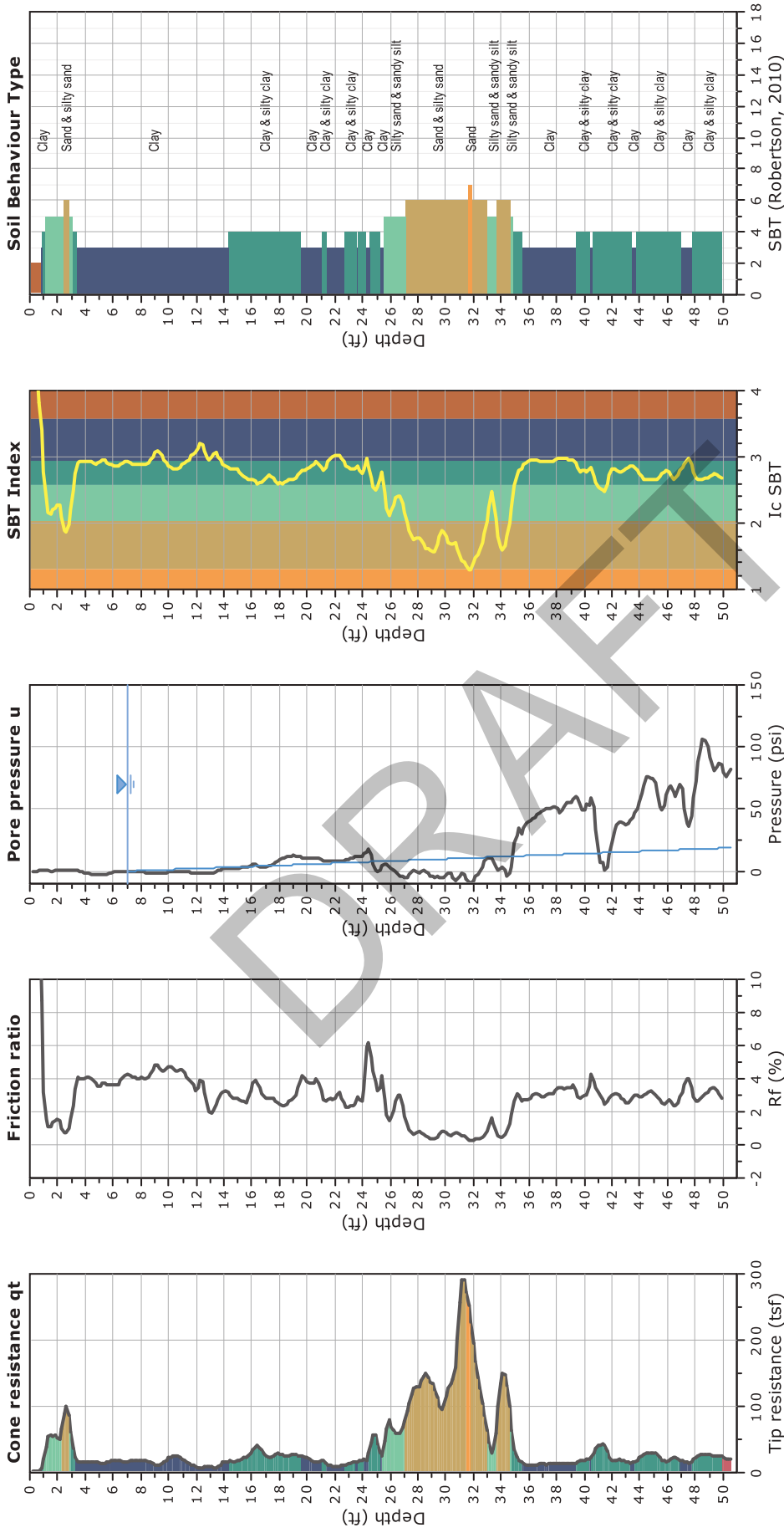
**3705 HAVEN AVENUE**  
Menlo Park, California

**UTILITY TRENCH LOW-PERMEABILITY PLUG AT BUILDING PERIMETER**



**APPENDIX A**  
**Cone Penetration Test Results and Boring Log**

DRAFT

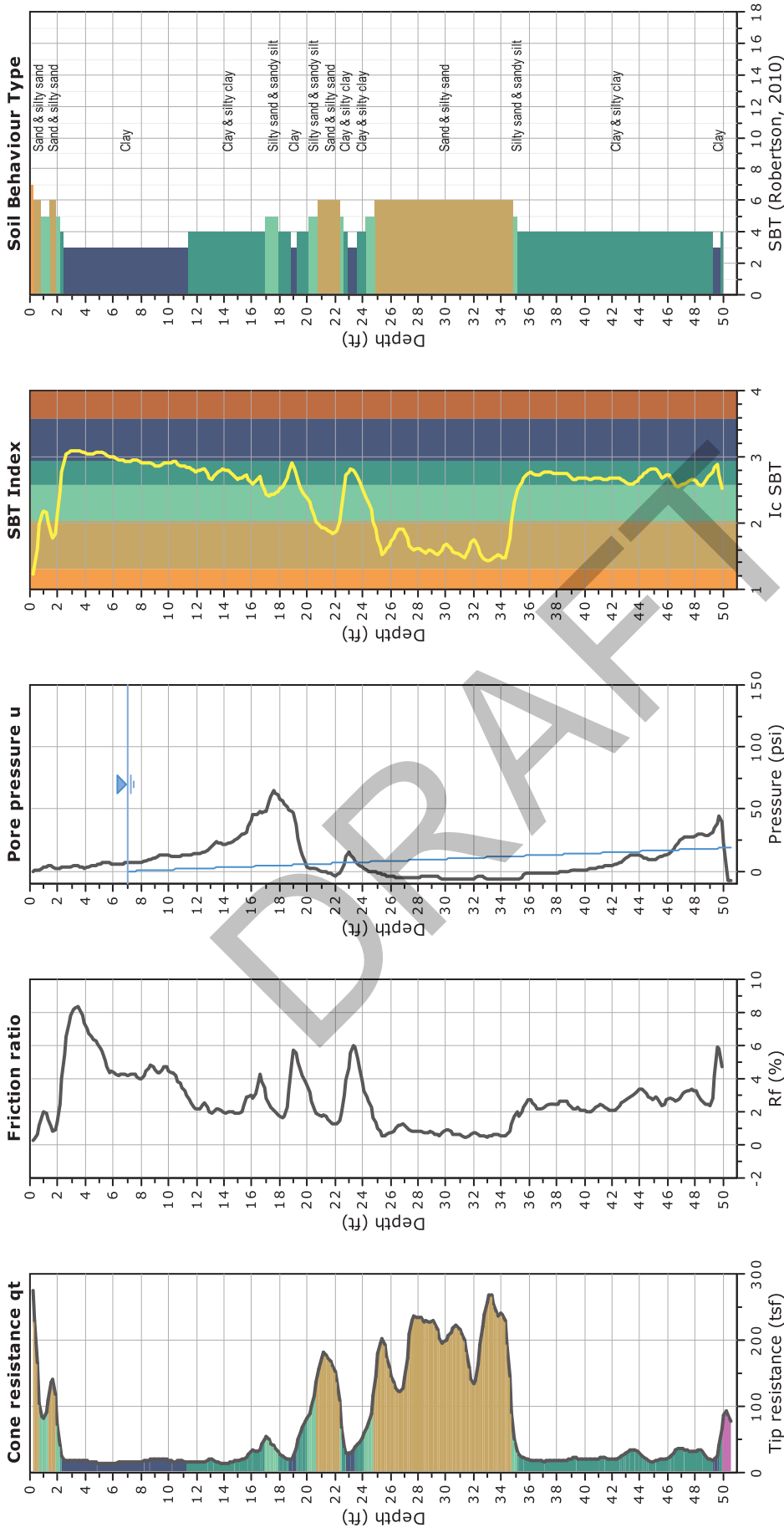


Total depth: 50.5 ft, Date: January 21, 2022  
 Depth to Groundwater: 7 feet (measured with weighted tape)  
 Cone Operator: Middle Earth Geo Testing, Inc.

3705 HAVEN AVENUE  
 Menlo Park, California



# CONE PENETRATION TEST RESULTS CPT-1



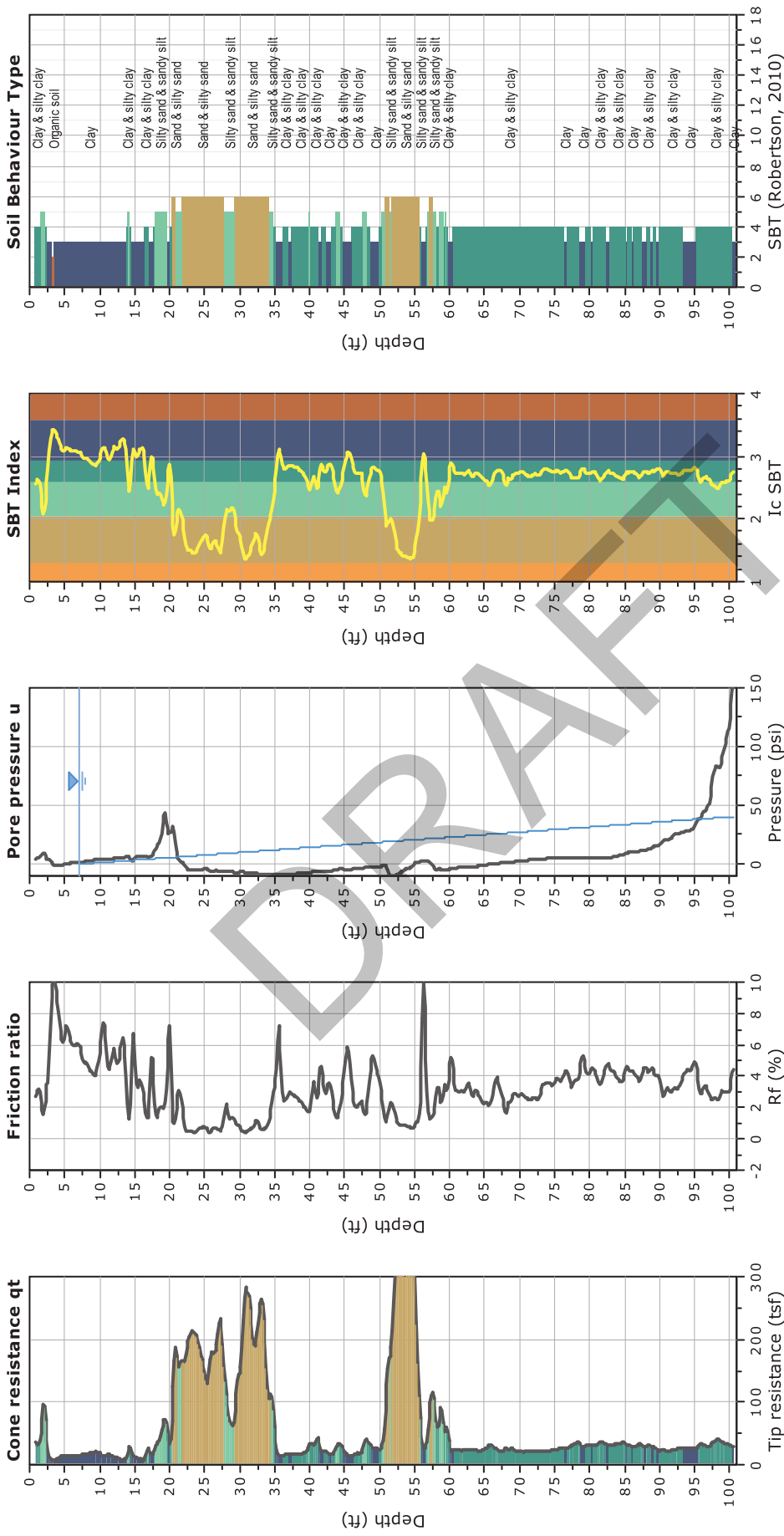
- SBT legend**
- 1. Sensitive fine grained
  - 2. Organic material
  - 3. Clay to silty clay
  - 4. Clayey silt to silty clay
  - 5. Silty sand to sandy silt
  - 6. Clean sand to silty sand
  - 7. Gravelly sand to sand
  - 8. Very stiff sand to clayey sand
  - 9. Very stiff fine grained

Total depth: 50.5 ft, Date: January 21, 2022  
 Depth to Groundwater: 7 feet (measured with weighted tape)  
 Cone Operator: Middle Earth Geo Testing, Inc.

3705 HAVEN AVENUE  
 Menlo Park, California



## CONE PENETRATION TEST RESULTS CPT-2



- SBT legend**
- 1. Sensitive fine grained
  - 2. Organic material
  - 3. Clay to silty clay
  - 4. Clayey silt to silty clay
  - 5. Silty sand to sandy silt
  - 6. Clean sand to silty sand
  - 7. Gravelly sand to sand
  - 8. Very stiff sand to clayey sand
  - 9. Very stiff fine grained

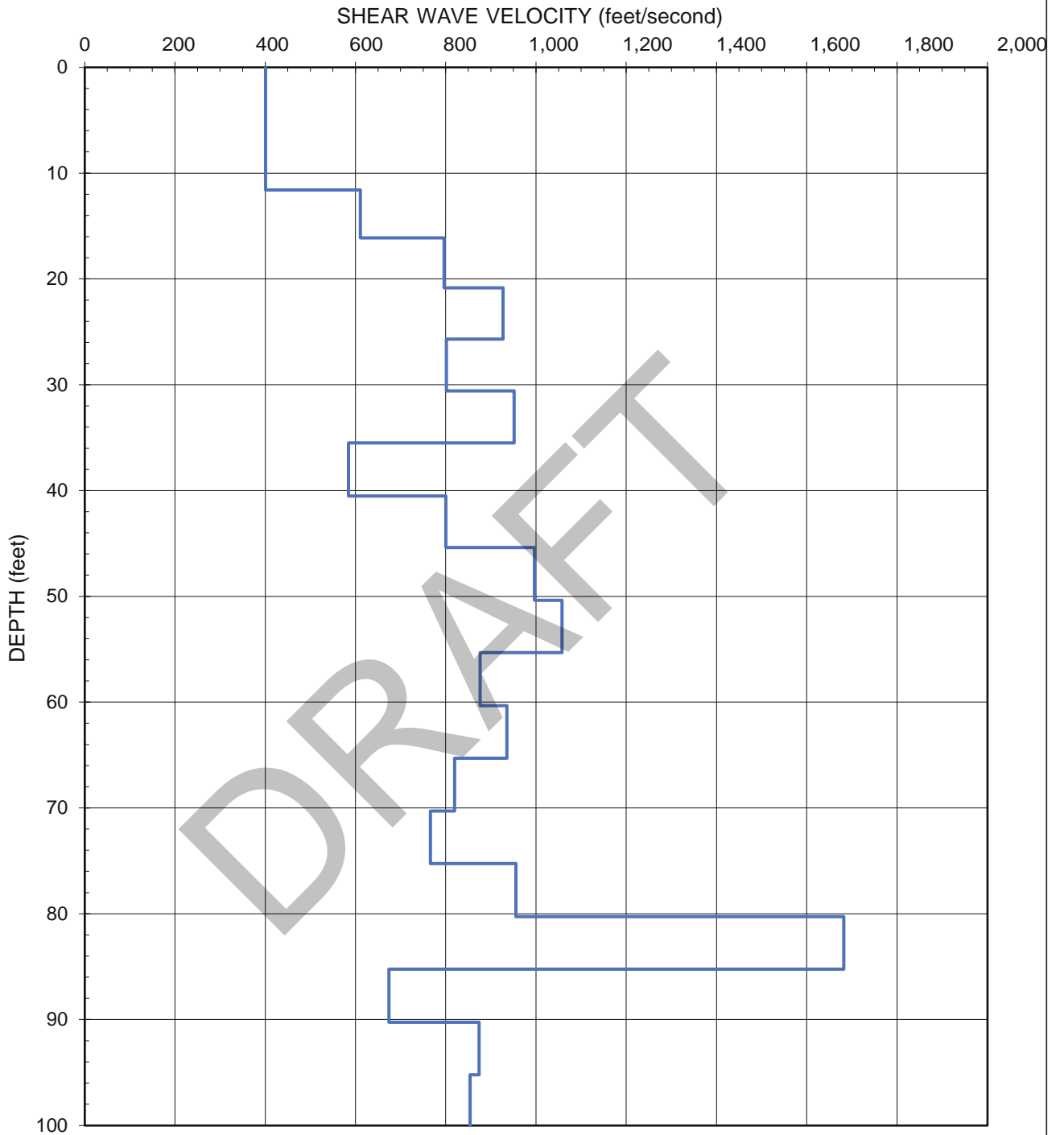
Total depth: 100.6 ft; Date: January 21, 2022  
 Depth to Groundwater: 7 feet (measured with weighted tape)  
 Cone Operator: Middle Earth Geo Testing, Inc.

## CONE PENETRATION TEST RESULTS

### CPT-3

**3705 HAVEN AVENUE**  
 Menlo Park, California

**ROCKRIDGE**  
 GEOTECHNICAL



**3705 HAVEN AVENUE**  
Menlo Park, California

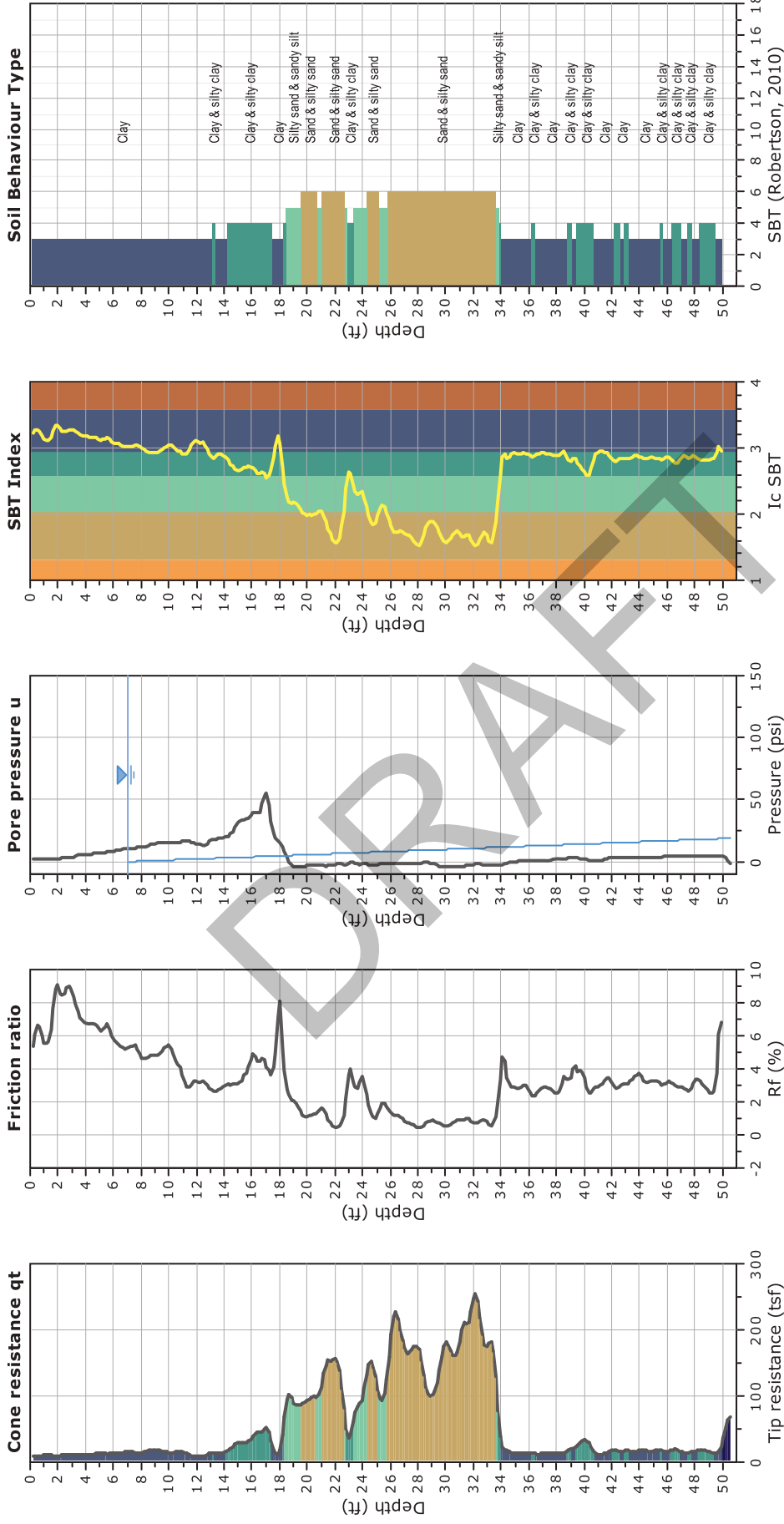
**SHEAR WAVE VELOCITY PROFILE**



Date 02/08/22

Project No. 22-2153

Figure A-3b



Total depth: 50.5 ft, Date: January 21, 2022  
 Depth to Groundwater: 7 feet (measured with weighted tape)  
 Cone Operator: Middle Earth Geo Testing, Inc.

3705 HAVEN AVENUE  
 Menlo Park, California

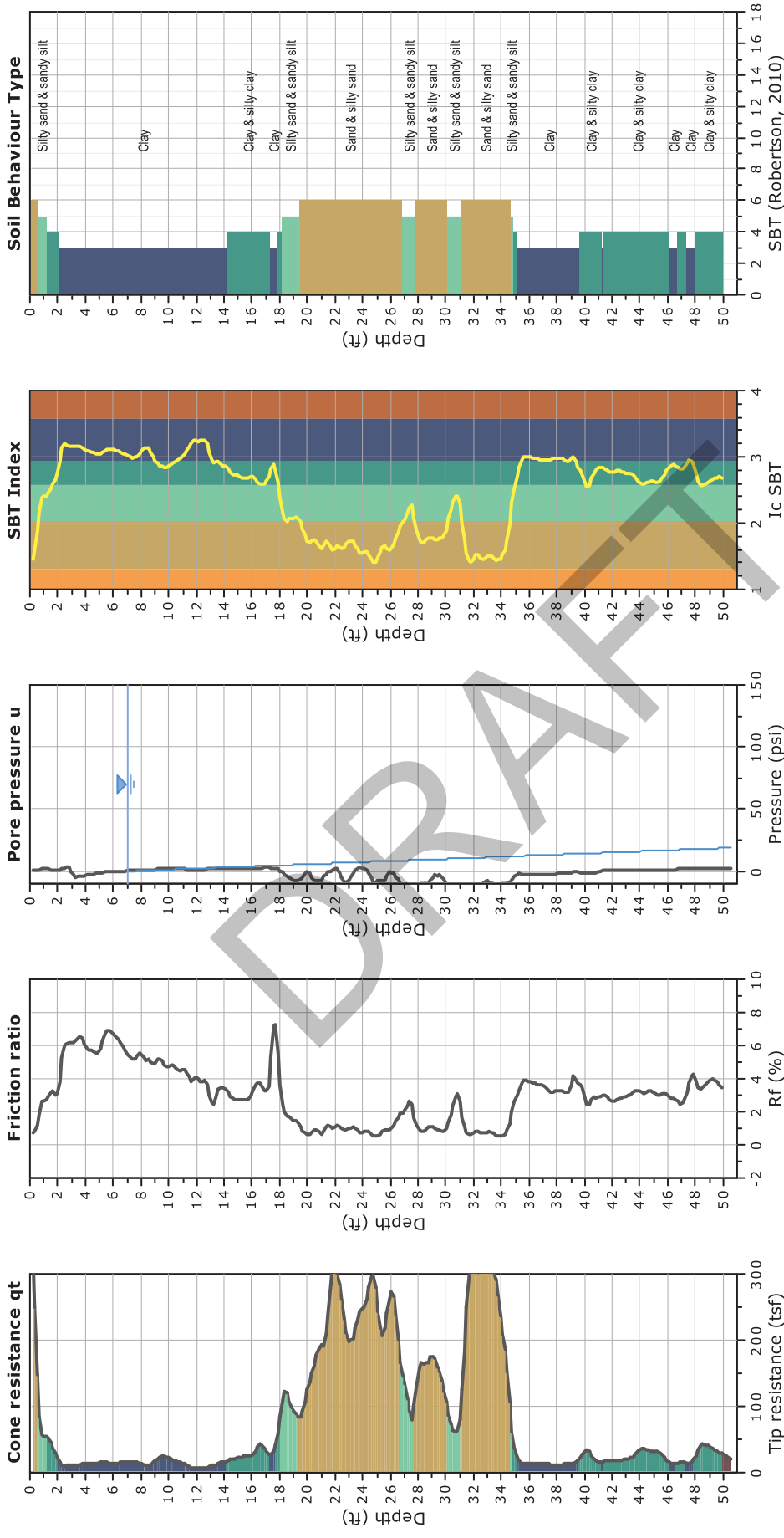


### CONE PENETRATION TEST RESULTS CPT-4

Date 02/08/22 Project No. 22-2153

Figure A-4





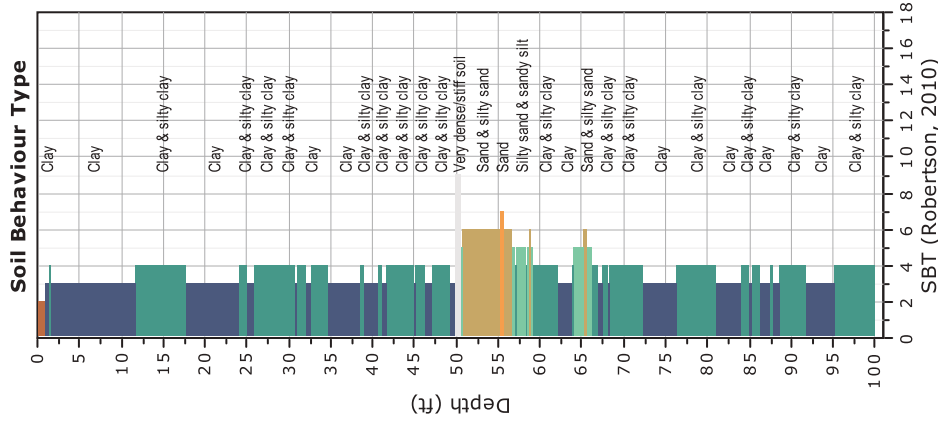
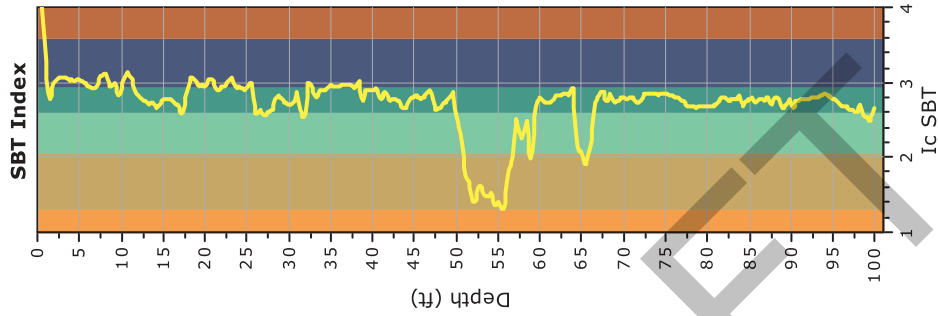
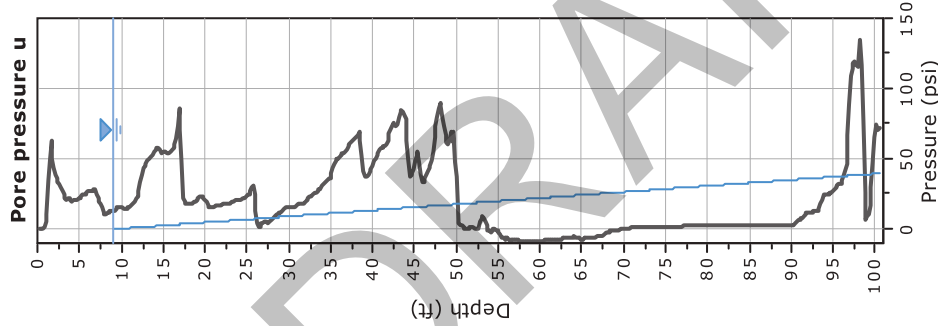
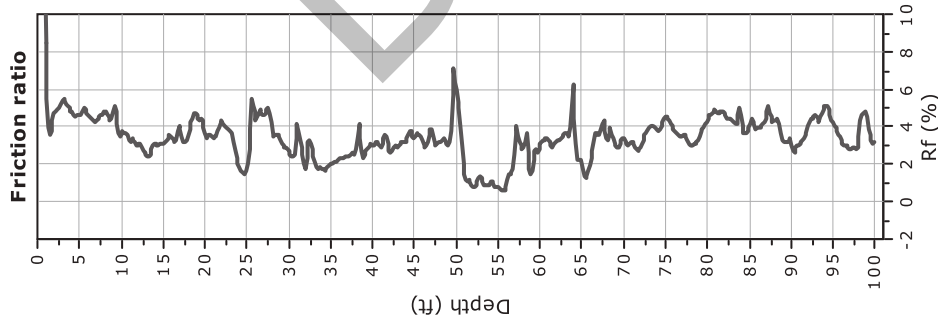
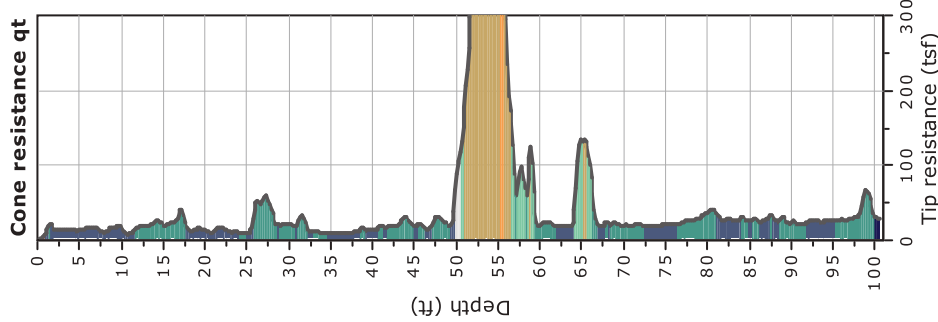
- SBT legend**
- 1. Sensitive fine grained
  - 2. Organic material
  - 3. Clay to silty clay
  - 4. Clayey silt to silty clay
  - 5. Silty sand to sandy silt
  - 6. Clean sand to silty sand
  - 7. Gravelly sand to sand
  - 8. Very stiff sand to clayey sand
  - 9. Very stiff fine grained

Total depth: 50.5 ft, Date: January 21, 2022  
 Depth to Groundwater: 7 feet (measured with weighted tape)  
 Cone Operator: Middle Earth Geo Testing, Inc.

3705 HAVEN AVENUE  
 Menlo Park, California



## CONE PENETRATION TEST RESULTS CPT-5



- SBT legend**
- 1. Sensitive fine grained
  - 2. Organic material
  - 3. Clay to silty clay
  - 4. Clayey silt to silty clay
  - 5. Silty sand to sandy silt
  - 6. Clean sand to silty sand
  - 7. Gravelly sand to sand
  - 8. Very stiff sand to clayey sand
  - 9. Very stiff fine grained

Total depth: 100.6 ft; Date: January 21, 2022  
 Depth to Groundwater: 9 feet (measured with weighted tape)  
 Cone Operator: Middle Earth Geo Testing, Inc.

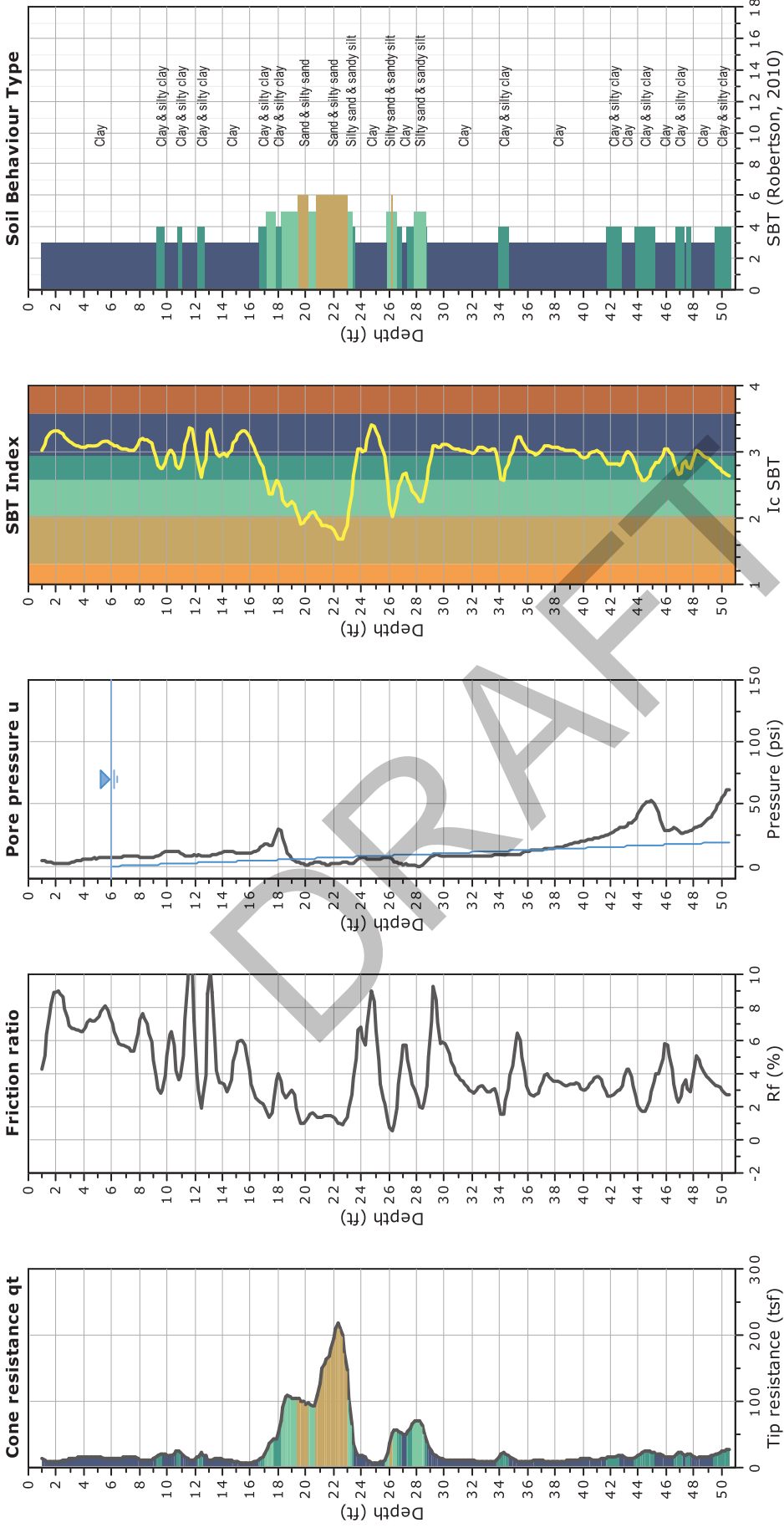
3705 HAVEN AVENUE  
 Menlo Park, California



## CONE PENETRATION TEST RESULTS CPT-6

Date 02/08/22 Project No. 22-2153

Figure A-6



- SBT legend**
- 1. Sensitive fine grained
  - 2. Organic material
  - 3. Clay to silty clay
  - 4. Clayey silt to silty clay
  - 5. Silty sand to sandy silt
  - 6. Clean sand to silty sand
  - 7. Gravelly sand to sand
  - 8. Very stiff sand to clayey sand
  - 9. Very stiff fine grained

Total depth: 50.5 ft, Date: January 21, 2022  
 Depth to Groundwater: 6 feet (measured with weighted tape)  
 Cone Operator: Middle Earth Geo Testing, Inc.

## CONE PENETRATION TEST RESULTS CPT-7

**3705 HAVEN AVENUE**  
Menlo Park, California



PROJECT:

3705 HAVEN AVENUE  
Menlo Park, California

## Log of Boring B-1

PAGE 1 OF 3

Boring location: See Site Plan, Figure 2

Logged by: J. Graham  
Drilled by: Pitcher Services, LLC  
Rig: PD-47

Date started: 01/12/2022

Date finished: 01/12/2022

Drilling method: Rotary Wash

Hammer weight/drop: 140 lbs./30 inches

Hammer type: Automatic Safety Hammer

## LABORATORY TEST DATA

Sampler: Modified California (MC), Standard Penetration Test (SPT), Dames &amp; Moore (D&amp;M)

DEPTH (feet)	SAMPLES				LITHOLOGY	MATERIAL DESCRIPTION	Type of Strength Test	Confining Pressure Lbs/Sq Ft	Shear Strength Lbs/Sq Ft	Fines %	Natural Moisture Content, %	Dry Density Lbs/Cu Ft
	Sampler Type	Sample	Blows/ 6"	SPT N-Value <sup>1</sup>								
1					GC	1.5 inches of asphalt concrete CLAYEY GRAVEL with SAND (GC) red brown, medium dense, moist						
2	MC		8	18								
3			8									
4			14		CH	Soil Corrosivity Test; see Appendix B CLAY with GRAVEL (CH) dark gray, very stiff, moist, trace organics, trace fine to medium sand						
5	MC		6	28								
6			13								22.2	96
7			20									
8	MC		4	24	CL	CLAY (CL) gray, very stiff, moist, trace fine to medium sand						
9			12									
10			17									
11	MC		5	19	CL	SANDY CLAY (CL) yellow-brown, very stiff, moist to wet, fine to medium sand LL = 41, PI = 23; see Appendix B (01/12/2022; 10:45 AM)					22.4	105
12			10									
13			13									
14			7									
15	MC		4	13								
16			7									
17	MC		8	20	SC	stiff, wet, trace gravel LL = 30, PI = 16; see Appendix B CLAYEY SAND (SC) yellow-brown, medium dense, wet, fine to coarse sand LL = 27, PI = 14; see Appendix B Particle Size Distribution; see Appendix B				39	18.5	112
18			1									
19	SPT		4	32								
20			8									
21	DM		14		CL	SANDY CLAY (CL) yellow-brown, hard, wet, fine to medium sand  Consolidation Test; see Appendix B					18.3	108
22			350 psi									
23												
24												
25												
26	SPT		14	46	SC	CLAYEY SAND with GRAVEL (SC) yellow-brown, dense, wet, fine to medium sand						
27			16									
28			16									
29												
30												
31	MC		12	54	SP	SAND with GRAVEL (SP) gray, very dense, wet, coarse sand, subangular gravel, trace fines						
32			24									
			40									


**ROCKRIDGE  
GEOTECHNICAL**
Project No.:  
22-2153

Figure:

A-8a

PROJECT:

**3705 HAVEN AVENUE**  
Menlo Park, California

# Log of Boring B-1

PAGE 2 OF 3

DEPTH (feet)	SAMPLES				LITHOLOGY	MATERIAL DESCRIPTION	LABORATORY TEST DATA							
	Sampler Type	Sample	Blows/6"	SPT N-Value <sup>1</sup>			Type of Strength Test	Confining Pressure Lbs/Sq Ft	Shear Strength Lbs/Sq Ft	Fines %	Natural Moisture Content, %	Dry Density Lbs/Cu Ft		
33						SAND with GRAVEL (SP) (continued)								
34					SP									
35						medium dense								
36	SPT	●	6	19										
37	MC	■	9			SANDY CLAY (CL) yellow-brown, stiff, wet, fine to medium sand								
38			4											
39	DM	■	7			Consolidation Test; see Appendix B					32.0	90		
40			8											
41	MC	■	8			very stiff, increased sand content								
42			8											
43			13											
44														
45														
46														
47														
48														
49														
50														
51	DM	■	3		CL	increased gravel content Consolidation Test; see Appendix B					22.5	102		
52			8											
53			13											
54														
55														
56														
57														
58														
59														
60														
61	MC	■	6	26		gray								
62			15											
63			16											
64														

DRAFT



Project No.: 22-2153

Figure: A-8b

PROJECT:

**3705 HAVEN AVENUE**  
Menlo Park, California

# Log of Boring B-1

PAGE 3 OF 3

DEPTH (feet)	SAMPLES				LITHOLOGY	MATERIAL DESCRIPTION	LABORATORY TEST DATA								
	Sampler Type	Sample	Blows/6"	SPT N-Value <sup>1</sup>			Type of Strength Test	Confining Pressure Lbs/Sq Ft	Shear Strength Lbs/Sq Ft	Fines %	Natural Moisture Content, %	Dry Density Lbs/Cu Ft			
65						SANDY CLAY (CL) (continued)									
66					CL										
67					CL										
68															
69						CLAY with SAND (CL) yellow-brown, very stiff, wet, fine sand									
70	MC	█	6	19											
71			10												
72			13												
73					CL										
74					CL										
75															
76															
77															
78															
79						SANDY CLAY (CL) yellow-brown, wet, fine to medium sand									
80															
81	D&M	█	300												
82			psi												
83															
84					CL										
85					CL										
86															
87															
88															
89						CLAY with SAND (CL) gray, hard, wet, trace gravel, fine to medium sand									
90					CL										
91	MC	█	10	34											
92			18												
93			23												
94															
95															
96															

Boring terminated at a depth of 91 feet below ground surface.  
Boring backfilled with cement grout.  
Groundwater encountered at a depth of 11 feet during drilling.

<sup>1</sup> MC and SPT blow counts for the last two increments were converted to SPT N-Values using factors of 0.84 and 1.44, respectively, to account for sampler type and hammer energy.



Project No.: 22-2153

Figure: A-8c










## UNIFIED SOIL CLASSIFICATION SYSTEM

Major Divisions	Symbols	Typical Names
<b>Coarse-Grained Soils</b> (more than half of soil > no. 200 sieve size)	Gravels (More than half of coarse fraction > no. 4 sieve size)	<b>GW</b> Well-graded gravels or gravel-sand mixtures, little or no fines
		<b>GP</b> Poorly-graded gravels or gravel-sand mixtures, little or no fines
		<b>GM</b> Silty gravels, gravel-sand-silt mixtures
		<b>GC</b> Clayey gravels, gravel-sand-clay mixtures
	Sands (More than half of coarse fraction < no. 4 sieve size)	<b>SW</b> Well-graded sands or gravelly sands, little or no fines
		<b>SP</b> Poorly-graded sands or gravelly sands, little or no fines
		<b>SM</b> Silty sands, sand-silt mixtures
		<b>SC</b> Clayey sands, sand-clay mixtures
<b>Fine-Grained Soils</b> (more than half of soil < no. 200 sieve size)	Silts and Clays LL = < 50	<b>ML</b> Inorganic silts and clayey silts of low plasticity, sandy silts, gravelly silts
		<b>CL</b> Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, lean clays
		<b>OL</b> Organic silts and organic silt-clays of low plasticity
	Silts and Clays LL = > 50	<b>MH</b> Inorganic silts of high plasticity
		<b>CH</b> Inorganic clays of high plasticity, fat clays
		<b>OH</b> Organic silts and clays of high plasticity
<b>Highly Organic Soils</b>	<b>PT</b>	Peat and other highly organic soils


### GRAIN SIZE CHART

Classification	Range of Grain Sizes	
	U.S. Standard Sieve Size	Grain Size in Millimeters
Boulders	Above 12"	Above 305
Cobbles	12" to 3"	305 to 76.2
Gravel coarse fine	3" to No. 4	76.2 to 4.76
	3" to 3/4"	76.2 to 19.1
	3/4" to No. 4	19.1 to 4.76
Sand coarse medium fine	No. 4 to No. 200	4.76 to 0.075
	No. 4 to No. 10	4.76 to 2.00
	No. 10 to No. 40	2.00 to 0.420
	No. 40 to No. 200	0.420 to 0.075
Silt and Clay	Below No. 200	Below 0.075

### SAMPLE DESIGNATIONS/SYMBOLS

	Sample taken with California or Modified California split-barrel sampler. Darkened area indicates soil recovered
	Classification sample taken with Standard Penetration Test sampler
	Undisturbed sample taken with thin-walled tube
	Disturbed sample
	Sampling attempted with no recovery
	Core sample
	Analytical laboratory sample
	Sample taken with Direct Push sampler
	Sonic

 Unstabilized groundwater level

 Stabilized groundwater level

### SAMPLER TYPE

<p><b>C</b> Core barrel</p> <p><b>CA</b> California split-barrel sampler with 2.5-inch outside diameter and a 1.93-inch inside diameter</p> <p><b>D&amp;M</b> Dames &amp; Moore piston sampler using 2.5-inch outside diameter, thin-walled tube</p> <p><b>O</b> Osterberg piston sampler using 3.0-inch outside diameter, thin-walled Shelby tube</p>	<p><b>PT</b> Pitcher tube sampler using 3.0-inch outside diameter, thin-walled Shelby tube</p> <p><b>MC</b> Modified California sampler with a 3.0-inch outside diameter and a 2.43-inch inside diameter</p> <p><b>SPT</b> Standard Penetration Test (SPT) split-barrel sampler with a 2.0-inch outside diameter and a 1.38- or 1.5-inch inside diameter (refer to text)</p> <p><b>ST</b> Shelby Tube (3.0-inch outside diameter, thin-walled tube) advanced with hydraulic pressure</p>
--	--

**3705 HAVEN AVENUE**  
Menlo Park, California



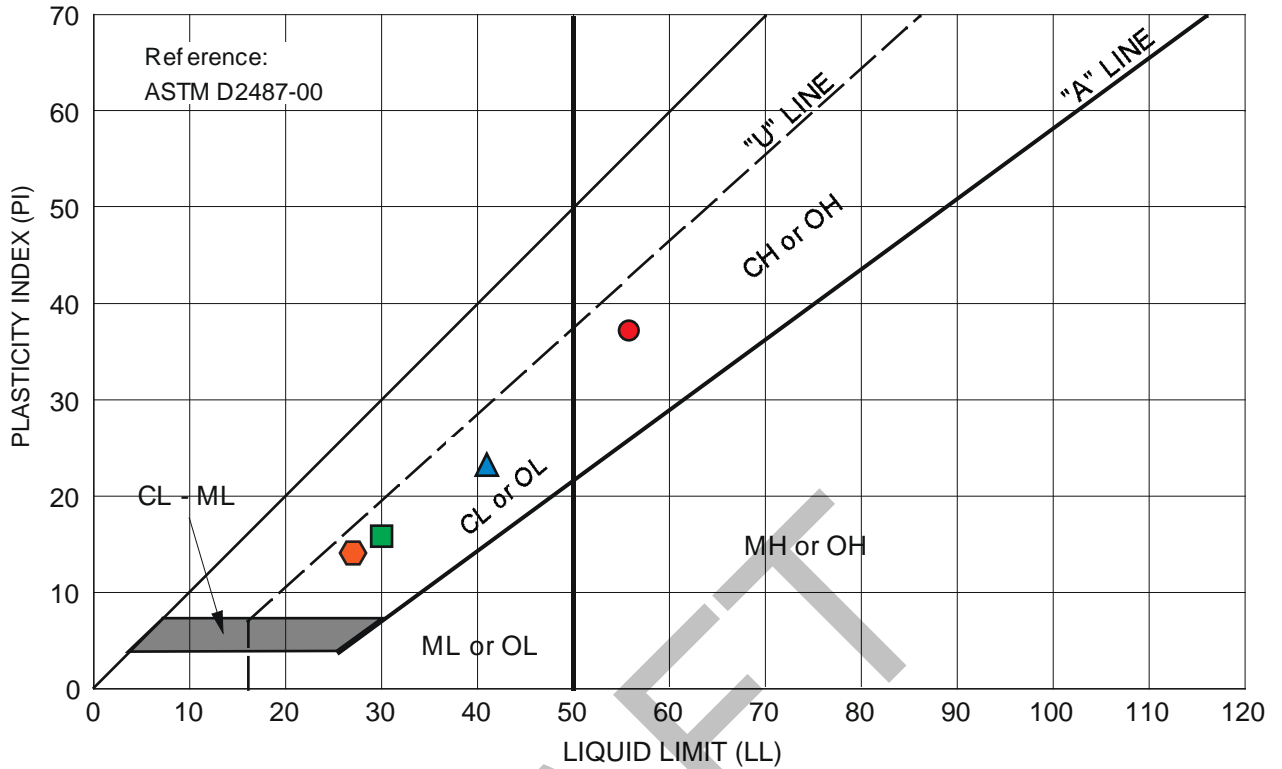
### CLASSIFICATION CHART

Date 02/08/22	Project No. 22-2153	Figure A-9
---------------	---------------------	------------

**APPENDIX B**  
**Laboratory Test Results**

DRAFT



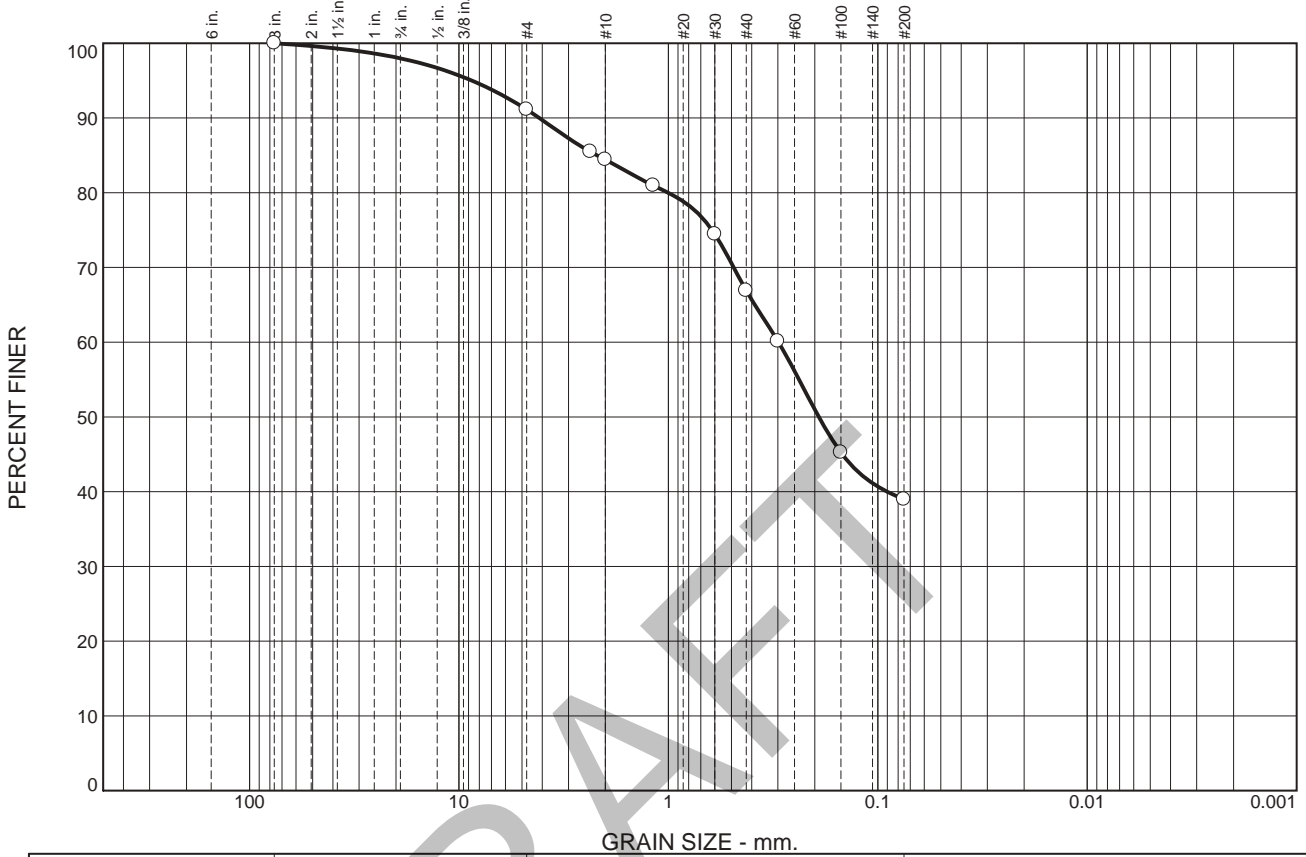


Symbol	Source	Description and Classification	Natural M.C. (%)	Liquid Limit (%)	Plasticity Index (%)	% Passing #200 Sieve
●	B-1 at 5.8 feet	CLAY with GRAVEL (CH), dark gray	22.2	56	37	--
▲	B-1 at 10.0 feet	SANDY CLAY (CL), yellow-brown	22.4	41	23	--
■	B-1 at 15.5 feet	SANDY CLAY (CL), yellow-brown	--	30	16	--
⬡	B-1 at 17.0 feet	CLAYEY SAND (SC), yellow-brown	18.5	27	14	39.0

3705 HAVEN AVENUE  
Menlo Park, California

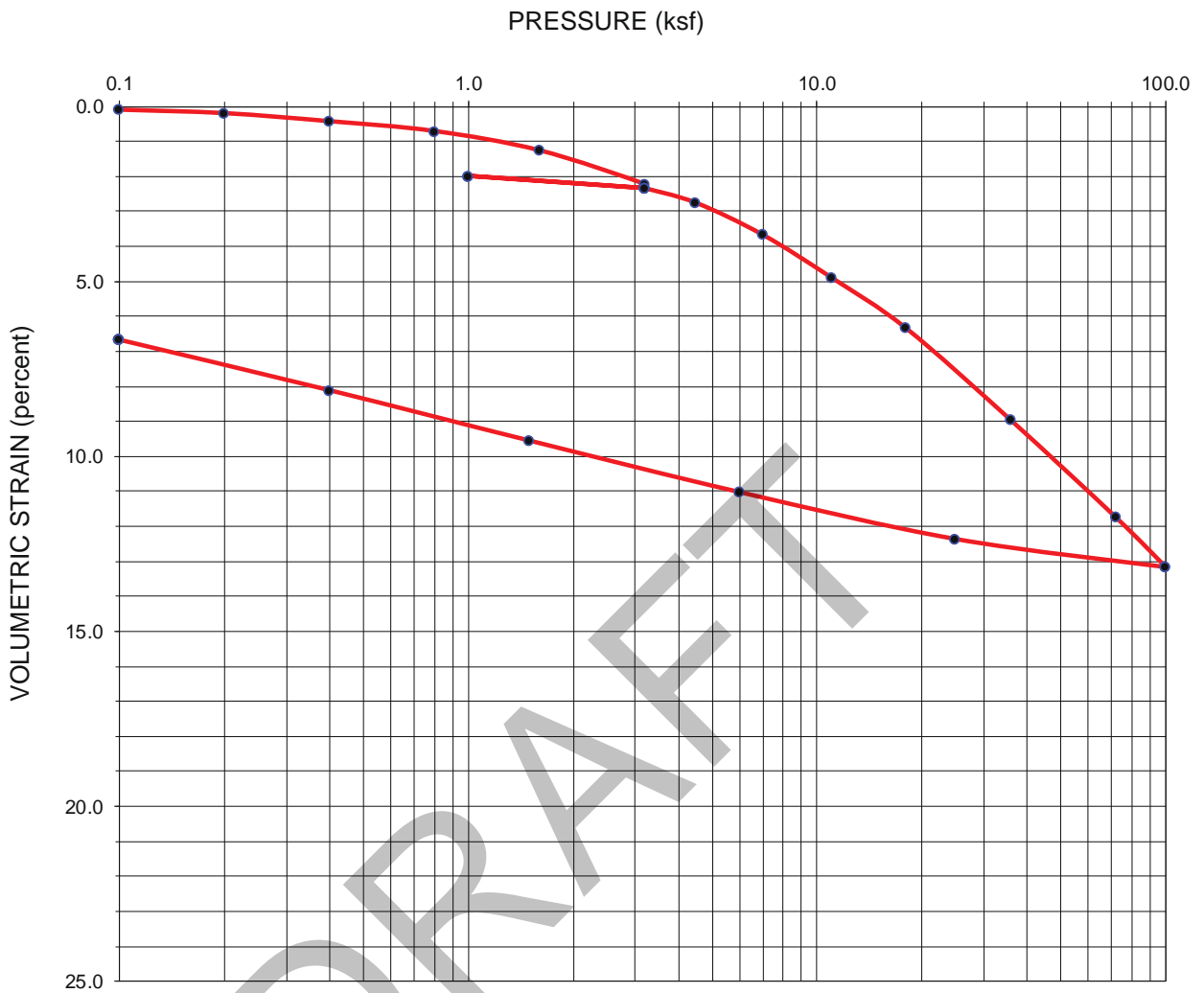
**PLASTICITY CHART**





% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	2.0	6.9	6.7	17.5	27.9	39.0	

SOIL DATA				
SYMBOL	SOURCE	DEPTH (ft.)	Material Description	USCS
○	B-1	17.0'	CLAYEY SAND (SC), yellow-brown	SC



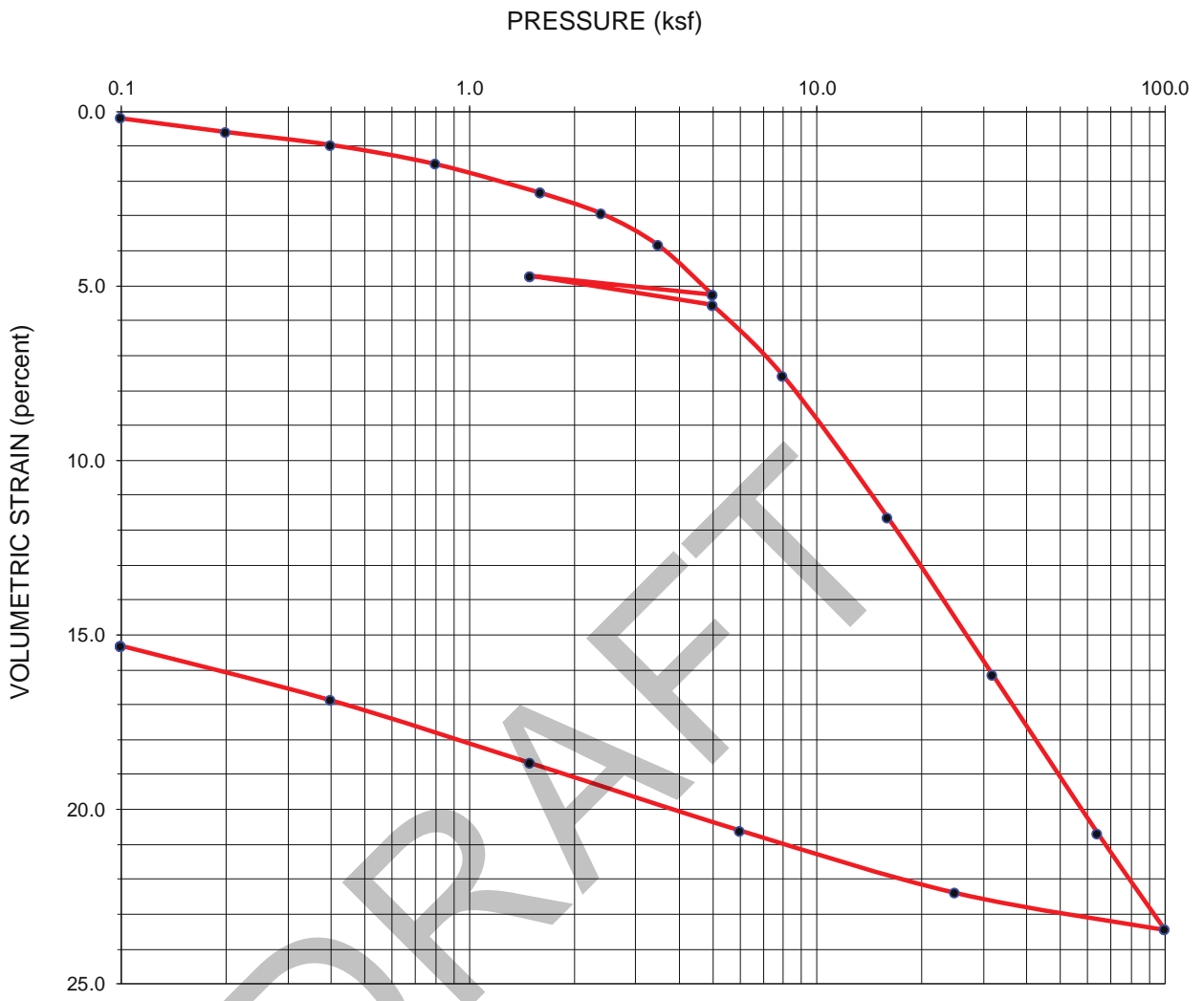
Sampler Type	Dames & Moore (D&M)	Condition	Before test	After test
Diameter (in)	2.42	Water Content	$w_o$	18.3 %
Height (in)	0.933		$w_f$	16.9 %
Overburden Pressure, $P_o$	1,900 psf	Void Ratio	$e_o$	0.559
Preconsol. Pressure, $P_c$	6,800 psf	Saturation	$S_o$	88.6 %
Compression Ratio, $C_{\epsilon c}$	0.095	Dry Density	$\gamma_d$	108 pcf
Recompression Ratio, $C_{\epsilon r}$	0.009	LL	--	PL
		PI	--	$G_s$ 2.70 (assumed)
Description:	SANDY CLAY (CL), yellow-brown		Source B-1 at 20 feet	

3705 HAVEN AVENUE  
Menlo Park, California



### CONSOLIDATION TEST REPORT

Date 01/09/22 | Project No. 22-2153 | Figure B-3



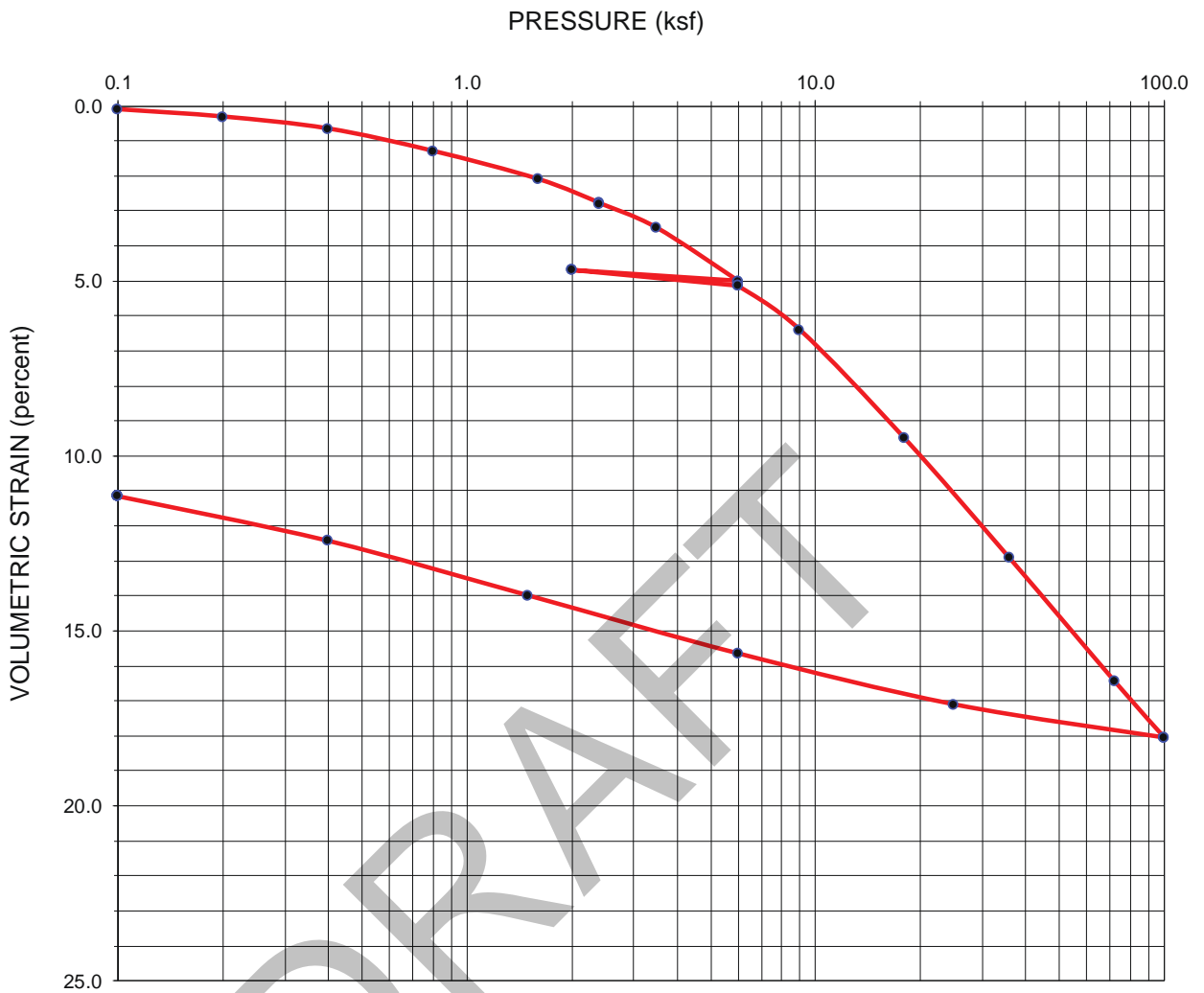
Sampler Type	Dames & Moore (D&M)	Condition	Before test	After test
Diameter (in)	2.42	Water Content	$w_o$ 32.0 %	$w_f$ 22.0 %
Height (in)	0.847	Void Ratio	$e_o$ 0.879	$e_f$ 0.591
Overburden Pressure, $P_o$	3,000 psf	Saturation	$S_o$ 98.4 %	$S_f$ 100.6 %
Preconsol. Pressure, $P_c$	5,000 psf	Dry Density	$\gamma_d$ 90 pcf	$\gamma_d$ 106 pcf
Compression Ratio, $C_{\epsilon c}$	0.157	LL	--	PL
Recompression Ratio, $C_{\epsilon r}$	0.015	PI	--	$G_s$ 2.70 (assumed)
Description:	SANDY CLAY (CL), yellow-brown		Source B-1 at 38 feet	

3705 HAVEN AVENUE  
Menlo Park, California



### CONSOLIDATION TEST REPORT

Date 02/10/22    Project No. 22-2153    Figure B-4



Sampler Type	Dames & Moore (D&M)	Condition	Before test	After test
Diameter (in)	2.42	Water Content	$w_o$ 22.5 %	$w_f$ 17.4 %
Height (in)	0.889	Void Ratio	$e_o$ 0.652	$e_f$ 0.468
Overburden Pressure, $P_o$	3,700 psf	Saturation	$S_o$ 93.3 %	$S_f$ 100.2 %
Preconsol. Pressure, $P_c$	6,000 psf	Dry Density	$\gamma_d$ 102 pcf	$\gamma_d$ 115 pcf
Compression Ratio, $C_{\epsilon c}$	0.114	LL	--	PL
Recompression Ratio, $C_{\epsilon r}$	0.013	PI	--	$G_s$ 2.70 (assumed)
Description:	SANDY CLAY (CL), yellow-brown		Source B-1 at 50 feet	

3705 HAVEN AVENUE  
Menlo Park, California



### CONSOLIDATION TEST REPORT

Date 02/10/22 | Project No. 22-2153 | Figure B-5



**Project X**  
**Corrosion Engineering**

Corrosion Control – Soil, Water, Metallurgy Testing Lab

REPORT S220119C

Bore# / Description	Method	ASTM D4327	Sulfates SO <sub>4</sub> <sup>2-</sup> (mg/kg)	ASTM D4327	Chlorides Cl <sup>-</sup> (mg/kg)	ASTM G187	Resistivity As Rec'd   Minimum (Ohm-cm)   (Ohm-cm)	ASTM D4972	pH	ASTM G200	Redox (mV)	ASTM D4658	Sulfide S <sup>2-</sup> (mg/kg)	ASTM D4327	Nitrate NO <sub>3</sub> <sup>-</sup> (mg/kg)	ASTM D6919	Ammonium NH <sub>4</sub> <sup>+</sup> (mg/kg)	ASTM D6919	Lithium Li <sup>+</sup> (mg/kg)	ASTM D6919	Sodium Na <sup>+</sup> (mg/kg)	ASTM D6919	Potassium K <sup>+</sup> (mg/kg)	ASTM D6919	Magnesium Mg <sup>2+</sup> (mg/kg)	ASTM D6919	Calcium Ca <sup>2+</sup> (mg/kg)	ASTM D4327	Fluoride F <sup>-</sup> (mg/kg)	ASTM D4327	Phosphate PO <sub>4</sub> <sup>3-</sup> (mg/kg)	
B-1: CLAY with GRAVEL (CH), dark gray	(ft)		11.0	0.0011	5.6	0.0006	1,675	1,541	8.6	240	3.75	0.9	12.8	0.06	91.3	26.1	5.9	20.3	4.5	1.9												
B-2: CLAY with GRAVEL (CH), dark gray	(ft)		37.0	0.0037	11.8	0.0012	1,005	938	8.2	226	0.51	3.6	0.9	ND	96.9	50.4	3.1	13.2	6.8	4.7												

Cations and Anions, except Sulfide and Bicarbonate, tested with Ion Chromatography  
 mg/kg = milligrams per kilogram (parts per million) of dry soil weight  
 ND = 0 = Not Detected | NT = Not Tested | Unk = Unknown  
 Chemical Analysis performed on 1:3 Soil-To-Water extract  
 PPM = mg/kg (soil) = mg/L (Liquid)

29990 Technology Dr., Suite 13, Murrieta, CA 92563 Tel: 213-928-7213 Fax: 951-226-1720  
 www.projectxcorrosion.com

**3705 HAVEN AVENUE**  
Menlo Park, California



**SOIL CORROSION TEST RESULTS**

Date 01/09/22 Project No. 22-2153 Figure B-6



3705 Haven Avenue  
Menlo Park, California 94025  
Phase I Environmental Site  
Assessment

February 9, 2023

Prepared for:

3705 Haven LLC

Prepared by:

Stantec Consulting Services Inc.  
735 East Carnegie Drive, Suite 285  
San Bernardino, California 92408

Project No.: 185805894

## Sign-off Sheet and Signatures of Environmental Professionals

This document entitled Phase I Environment Site Assessment was prepared by Stantec Consulting Services Inc. ("Stantec") for the account of 3705 Haven LLC (the "Client"). The conclusions in the Report are Stantec's professional opinion, as of the time of the Report, and concerning the scope described in the Report. The opinions in the document are based on conditions and information existing at the time the scope of work was conducted and do not take into account any subsequent changes. The Report relates solely to the specific project for which Stantec was retained and the stated purpose for which the Report was prepared. The Report is not to be used or relied on for any variation or extension of the project, or for any other project or purpose, and any unauthorized use or reliance is at the recipient's own risk.

Stantec can neither warrant nor guarantee that information received from the "Client" and third parties in the preparation of the Report is correct. While Stantec has exercised a customary level of judgment or due diligence in the use of such information, Stantec assumes no responsibility for the consequences of any error or omission contained therein.

This Report is intended solely for use by the Client in accordance with Stantec's contract with the Client (the Master Services Agreement, or "MSA"). While the Report may be provided to applicable authorities having jurisdiction and others for whom the Client is responsible, Stantec does not warrant the services to any third party. The report may not be relied upon by any other party without the express written consent of Stantec, which may be withheld at Stantec's discretion.

Author: \_\_\_\_\_



**Jennifer Alvarado**  
**Associate Scientist**

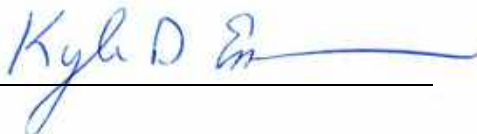
I declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined in § 312.10 of Title 40 of the Code of Federal Regulations, Part 312, (40 CFR 312). I have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the property. I have developed and performed all the appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

Quality Reviewer: \_\_\_\_\_



**Alicia Jansen**  
**Senior Scientist**

Independent Reviewer: \_\_\_\_\_



**Kyle Emerson**  
**Managing Principal Geologist**





## Table of Contents

<b>ABBREVIATIONS .....</b>	<b>III</b>
<b>1.0 EXECUTIVE SUMMARY.....</b>	<b>1.1</b>
<b>2.0 INTRODUCTION.....</b>	<b>2.1</b>
2.1 SUBJECT PROPERTY DESCRIPTION .....	2.2
2.2 SPECIAL TERMS, CONDITIONS, AND ADDITIONAL ASSUMPTIONS .....	2.2
2.3 EXCEPTIONS AND LIMITING CONDITIONS .....	2.3
2.4 PERSONNEL QUALIFICATIONS.....	2.4
<b>3.0 USER-PROVIDED INFORMATION.....</b>	<b>3.1</b>
<b>4.0 RECORDS REVIEW .....</b>	<b>4.1</b>
4.1 PHYSICAL SETTING .....	4.1
4.1.1 Subject Property Topography and Surface Water Flow .....	4.1
4.1.2 Regional and Subject Property Geology.....	4.2
4.1.3 Regional and Subject Property Hydrogeology .....	4.2
4.2 FEDERAL, STATE AND TRIBAL ENVIRONMENTAL RECORDS.....	4.2
4.2.1 Listings for Subject Property .....	4.3
4.2.2 Listings for Adjoining and Nearby Sites with Potential to Impact Subject Property.....	4.4
4.3 LOCAL/REGIONAL ENVIRONMENTAL RECORDS .....	4.6
4.3.1 Local Health Department.....	4.6
4.3.2 Fire Department .....	4.7
4.3.3 Local Building and/or Planning Department Records .....	4.7
4.3.4 Local/Regional Pollution Control Agency Department Records .....	4.7
4.3.5 Local/Regional Water Quality Agency Records .....	4.8
4.4 HISTORICAL RECORDS REVIEW .....	4.8
4.4.1 Land Title Records/Deeds.....	4.8
4.4.2 Aerial Photographs.....	4.9
4.4.3 City Directories.....	4.9
4.4.4 Historical Fire Insurance Maps .....	4.11
Historical fire insurance maps source: The Sanborn® Map Search Report.....	4.11
4.4.5 Historical Topographic Maps .....	4.11
4.4.6 Other Historical Sources .....	4.12
<b>5.0 SITE RECONNAISSANCE.....</b>	<b>5.1</b>
5.1 SITE RECONNAISSANCE METHODOLOGY .....	5.1
5.2 GENERAL DESCRIPTION .....	5.1
5.3 HAZARDOUS SUBSTANCES AND PETROLEUM PRODUCTS.....	5.2
5.4 INTERIOR OBSERVATIONS .....	5.2
5.5 EXTERIOR OBSERVATIONS .....	5.3
5.6 UNDERGROUND STORAGE TANKS/STRUCTURES.....	5.3
5.7 ABOVEGROUND STORAGE TANKS .....	5.4
5.8 ADJOINING PROPERTIES .....	5.4
5.8.1 Current Uses of Adjoining Properties .....	5.4



**3705 HAVEN AVENUE, MENLO PARK, CALIFORNIA 94025  
PHASE I ENVIRONMENTAL SITE ASSESSMENT**

5.8.2	Observed Evidence of Past Uses of Adjoining Properties .....	5.4
5.8.3	Pits, Ponds, or Lagoons on Adjoining Properties.....	5.4
5.9	OBSERVED PHYSICAL SETTING.....	5.5
<b>6.0</b>	<b>INTERVIEWS.....</b>	<b>6.1</b>
6.1	FINDINGS FROM INTERVIEWS WITH SUBJECT PROPERTY OWNER.....	6.1
<b>7.0</b>	<b>EVALUATION.....</b>	<b>7.1</b>
7.1	FINDINGS AND OPINIONS .....	7.1
7.2	DATA GAPS.....	7.1
7.3	CONCLUSIONS .....	7.2
<b>8.0</b>	<b>NON-SCOPE CONSIDERATIONS.....</b>	<b>8.1</b>
8.1	LEAD-BASED PAINT .....	8.1
8.2	ASBESTOS.....	8.1
8.3	RADON .....	8.1
8.4	FLOOD ZONES.....	8.2
<b>9.0</b>	<b>REFERENCES.....</b>	<b>9.3</b>

**LIST OF FIGURES**

FIGURE 1	Subject Property and Vicinity Map
FIGURE 2	Subject Property Map

**LIST OF APPENDICES**

<b>APPENDIX A</b>	<b>PHOTOGRAPHS OF THE PROPERTY AND VICINITY .....</b>	<b>A.1</b>
<b>APPENDIX B</b>	<b>STANTEC RESUMES.....</b>	<b>B.1</b>
<b>APPENDIX C</b>	<b>USER PROVIDED RECORDS.....</b>	<b>C.1</b>
<b>APPENDIX D</b>	<b>ENVIRONMENTAL AGENCY DATABASE SEARCH REPORT.....</b>	<b>D.1</b>
<b>APPENDIX E</b>	<b>HISTORICAL RECORDS .....</b>	<b>E.1</b>
<b>APPENDIX F</b>	<b>AGENCY RECORDS.....</b>	<b>F.1</b>
<b>APPENDIX G</b>	<b>INTERVIEW FORMS .....</b>	<b>G.1</b>



## Abbreviations

AAI	All Appropriate Inquiries
Amsl	Above Mean Sea Level
APN	Assessor's Parcel Number
AST	Aboveground Storage Tank
ASTM	ASTM International
AUL	Activity Use Limitation
BER	Business Environmental Risk
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CFR	Code of Federal Regulation
CREC	Controlled Recognized Environmental Conditions
DTSC	Department of Toxic Substances Control
EP	Environmental Professional
EPA	Environmental Protection Agency
ESA	Environmental Site Assessment
HREC	Historical Recognized Environmental Conditions
LUST	Leaking Underground Storage Tank
NESHAP	National Emissions Standard for Hazardous Air Pollutants
PCBs	Polychlorinated Biphenyls
RCRA	Resource Conservation and Recovery Act
REC	Recognized Environmental Conditions
USDA	United States Department of Agriculture
USGS	United States Geological Survey
UST	Underground Storage Tank
VEC	Vapor Encroachment Condition
VOCs	Volatile Organic Compounds



## 1.0 EXECUTIVE SUMMARY

Stantec Consulting Services Inc. (Stantec) has completed a Phase I Environmental Site Assessment (ESA) report of the property located at 3705 Haven Avenue in Menlo Park, California (the “Subject Property”), on behalf of 3705 Haven LLC (the “Client”). The work was performed according to Stantec’s proposal and terms, and conditions dated January 9, 2023, and accepted by the Client on January 11, 2023. 3705 Haven LLC (the “User”) has been designated as the User of this report. The intended use of this Phase I ESA is for due diligence in support of redevelopment.

The Phase I ESA was conducted in conformance with the requirements of ASTM International (ASTM) Designation E1527-13 and the draft version of E1527-21, and All Appropriate Inquiries (AAI) as defined by the United States Environmental Protection Agency (EPA) in Title 40 of the Code of Federal Regulations, Part 312 (40 CFR 312), except as may have been modified by the scope of work, and terms and conditions, requested by the Client. Any exceptions to, or deletions from, the ASTM or AAI practice are described in Section 2.3.

The Subject Property is approximately 0.66 acres of land and is identified by Assessor’s Parcel Number (APN): 055-170-240, located at 3705 Haven Avenue, Menlo Park, San Mateo County, California. According to records obtained through Environmental Data Resources (EDR), the Subject Property was vacant until the 1960s, when it was developed with its present-day, single-story commercial building. The Subject Property currently operates as several commercial businesses. The surrounding vicinity is largely commercial/industrial. A Subject Property Location Map is provided as Figure 1. A Subject Property Vicinity Map illustrating the main features of the Subject Property and vicinity is provided as Figure 2. Photographs taken during the site reconnaissance visit are provided in Appendix A.

The Subject Property is listed in the State Water Resources Control Board (SWRCB) Geotracker database as a leaking underground storage tank (LUST) cleanup site with an open case status. The Subject Property, as well as 3715 and 3723 Haven Avenue, were formerly operated by the Siltec Corporation from 1970 to 1989. This facility reportedly manufactured polished silicon wafers. Chlorinated solvents were used in the process and were found to have impacted soil and groundwater beneath the Subject Property. By the late 1990s, volatile organic compounds (VOCs) were detected in soil and groundwater. It is reported that the VOC-impacted soil was excavated and removed from the Subject Property, and monitoring wells were installed on-site. In the reports reviewed indicate that between 1999 and 2001, approximately 3,530 tons of VOC impacted soil was excavated and disposed of offsite, clean soil was used to backfill the excavations created by this removal action, and the area was paved to create a parking lot. A risk-management plan (RMP) was prepared in 1999, which contained construction and post-construction protocols for future contractors and owners/lessees of the Subject Property. Groundwater monitoring occurred semi-annually on the Subject Property between 2002 and 2008.

A covenant/environmental restriction was recorded on title, based on requirements from the California Regional Water Quality Control Board (CRWQCB), which prohibited residential development of the Subject Property, and other sensitive uses (e.g., day care facilities), related to the impacts on-site. In 2014, a No Further Action letter was issued based on current commercial site use by the Regional Water



**3705 HAVEN AVENUE, MENLO PARK, CALIFORNIA 94025**  
**PHASE I ENVIRONMENTAL SITE ASSESSMENT**  
Executive Summary

Quality Control Board (RWQCB). In 2019, groundwater samples were taken at the Subject Property to assess decreases in VOC concentrations in groundwater. It is reported that trichloroethene (TCE) was detected above action levels in groundwater. Based on these detections, indoor air samples were subsequently taken, and results indicated that indoor air was not impacted by TCE or other VOCs including cis-1,2-dichloroethylene (cis-1,2-DCE) above RWQCB commercial and residential risk-based screening levels. However, tetrachloroethene (PCE) was detected in indoor air at a level that exceeded residential risk-based screening levels, despite not being detected in groundwater below the Site. PCE impacts to indoor air were reportedly likely attributed to outdoor ambient air accumulating within the building or attributed to other potential on-site sources.

In 2020, additional soil vapor samples were collected at the Site. The chemicals PCE, TCE, benzene, and chloroform were detected in concentrations exceeding residential screening levels. However, it was recommended in a 2020 sampling report, reviewed and approved by CRWQCB, that the Subject Property would be suitable for residential redevelopment with the implementation of a vapor mitigation system. In 2021, the RWQCB issued a deed variance for the Subject Property to allow for residential development, to be effectively managed by the RMP that includes vapor mitigation (vapor barriers) for future construction. The adjacent properties, 3715 (formerly 3717) and 3723 Haven Avenue, also formerly operated by Siltec, remain under the covenant restrictions due to higher contaminant levels still present onsite. The 3715 Haven Avenue building was also determined to be the source of the contaminants present at 3705 Haven Avenue (Subject Property) and the adjacent property located at 3723 Haven Avenue.

We have performed a Phase I ESA in conformance with the scope and limitations of ASTM Practice E1527-21 and E1527-13 of the Subject Property. Any exceptions to, or deletions from, this practice are described in Section 2.3 of this report. This assessment has no evidence of recognized environmental conditions (RECs) in connection with the Subject Property, but identified the following Controlled REC (CREC):

- The open LUST case status for the adjacent properties (for which no requirements are being imposed on the Subject Property), the presence of residual VOC contaminants at the Subject Property from the off-site releases, and the adjoining off-site VOC-impacted sites (with impacts to groundwater) represent a potential vapor encroachment condition (VEC). The variance to the Land Use Covenant allows for the Subject Property to be redeveloped for residential purposes provided that a vapor mitigation system is installed. Therefore, with this control (in the form of the vapor mitigation systems), the environmental impacts described above represent a CREC. It is anticipated that any residual impacts from historical contamination can be properly managed in accordance with the RWQCB-approved RMP, which includes soil management procedures and a health and safety plan. Accordingly, Stantec recommends that redevelopment work at the Subject Property proceed in accordance with the RMP (including in regard to the soil management procedures described therein) and that future residential construction include vapor mitigation systems as required by the Land Use Covenant and Variance.

This assessment has also revealed the following non-ASTM scope environmental issues in connection with the Subject Property.



**3705 HAVEN AVENUE, MENLO PARK, CALIFORNIA 94025**

**PHASE I ENVIRONMENTAL SITE ASSESSMENT**

Executive Summary

- The Subject Property structure appears to have been constructed in the 1960s, and the presence of lead-based paint (LBP) and asbestos-containing materials (ACMs) in building materials is possible. An LBP and ACM survey is recommended prior to any renovation or demolition activities in accordance with applicable local and federal regulations.
- The Subject Property is located within a 1% Special Flood Hazard Area and Liquefaction zone. It is recommended that these be taken into account during Subject Property redevelopment.

The preceding summary is intended for informational purposes only. Reading of the full body of this report is recommended.



## 2.0 INTRODUCTION

The objective of this Phase I ESA was to perform All Appropriate Inquiries (AAI) into the past ownership and uses of the Subject Property consistent with good commercial or customary practice as outlined by ASTM International (ASTM) in “Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process”, Designation E1527-21 and E1527-13. “All Appropriate Inquiries” (AAI) is the process for evaluating a property’s environmental conditions for the purpose of qualifying for landowner liability protections under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), following final rule of Part 312 of Title 40, Code of Federal Regulations (40 CFR Part 312). The purpose of this Phase I ESA was to identify, to the extent feasible, adverse environmental conditions including recognized environmental conditions (“RECs”) of the Subject Property. While the AAI Rule still references the ASTM E1527-13 standard until fully accepted by the United States Environmental Protection Agency (USEPA), this report incorporates procedures as prescribed in ASTM E1527-21, which is the current published ASTM standard for Phase I ESAs.

The ASTM E1527-21 standard indicates that the goal of the Phase I ESA is to identify RECs, including historical recognized environmental conditions (“HRECs”), and controlled recognized environmental conditions (“CRECs”) that may exist at a property. The term “recognized environmental conditions” means the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property:

- 1) the presence of *hazardous substances* or *petroleum products* in, on, or at the *Subject Property* due to a *release* to the *environment*;
- 2) the likely presence of *hazardous substances* or *petroleum products* in, on, or at the *Subject Property* due to a *release* or *likely release* to the *environment*; or
- 3) the presence of *hazardous substances* or *petroleum products* in, on, or at the *Subject Property* under conditions that pose a *material threat* of a future *release* to the *environment*.

ASTM defines a “HREC” as a previous release of hazardous substances or petroleum products affecting the Subject property that has been addressed to the satisfaction of the applicable regulatory authority and meets current unrestricted use criteria established by a regulatory authority, without subjecting the property to any controls (e.g., activity and use limitations or other property use limitations). An HREC is not a REC.

ASTM defines a “CREC” as a REC resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority (e.g., as evidenced by the issuance of a no further action letter or equivalent, or meeting risk-based criteria established by regulatory authority), but with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls (e.g., property use restrictions, activity and use limitations, institutional controls, or engineering controls).

As defined by ASTM, RECs can include hazardous substances or petroleum products present under conditions in compliance with laws if that presence represents a material threat of future release. The release of hazardous substances or petroleum products is, however, not a REC if that presence is a *de*



**3705 HAVEN AVENUE, MENLO PARK, CALIFORNIA 94025**  
**PHASE I ENVIRONMENTAL SITE ASSESSMENT**

Introduction

*minimis* condition. *De minimis* conditions are minor releases that generally do not present a material risk to human health and would not likely be subject to enforcement action if brought to the attention of governmental agencies. ASTM also considers the potential for a business environmental risk (BER), defined as a risk which can have a material environmental or environmentally driven impact on the business associated with the current or planned use of the Subject Property, not necessarily limited to those environmental issues required to be investigated by the ASTM standard. Consideration of BERs may involve addressing one or more ASTM non-scope considerations.

This Phase I ESA was conducted in accordance with the MSA. The scope of work conducted during this Phase I ESA consisted of a visual reconnaissance of the Subject Property, interviews with key individuals, and review of reasonably ascertainable documents. The scope of work did not include an assessment for environmental regulatory compliance of any facility ever operated at the Subject Property (past or present), or sampling and analyzing of environmental media. Stantec was not contracted to perform an independent evaluation of the purchase or lease price of the Subject Property and its relationship to current fair market value. The conclusions presented in this Phase I ESA report are professional opinions based on data described herein. The opinions are subject to the limitations described in Section 2.3.

ASTM E1527-21 notes that the availability of record information varies from source to source. The User or Environmental Professional (EP) is not obligated to identify, obtain, or review every possible source that might exist with respect to a property. Instead, ASTM identifies record information that is reasonably ascertainable from standard sources. "Reasonably ascertainable" means:

1. Information that is publicly available;
2. Information that is obtainable from its source within reasonable time and cost constraints; and
3. Information that is practicably reviewable.

## **2.1 SUBJECT PROPERTY DESCRIPTION**

The Subject Property is approximately 0.66 acres and is identified by Assessor's Parcel Number (APN): 055-170-240, located at 3705 Haven Avenue, Menlo Park, San Mateo County, California. According to records obtained through Environmental Data Resources (EDR), the Subject Property was vacant until the 1960s, when it was developed with its present-day, single-story commercial building. The Subject Property currently operates as several commercial businesses. The vicinity is largely commercial/industrial. A Subject Property Location Map is provided as Figure 1. A Subject Property Vicinity Map illustrating the main features of the Subject Property and vicinity is provided as Figure 2. Photographs taken during the site reconnaissance visit are provided in Appendix A.

## **2.2 SPECIAL TERMS, CONDITIONS, AND ADDITIONAL ASSUMPTIONS**

There were no special terms, conditions, or additional assumptions associated with this Phase I ESA.





## 2.3 EXCEPTIONS AND LIMITING CONDITIONS

This report documents work that was performed in accordance with generally accepted professional standards at the time and location in which the services were provided and given the schedule and budget constraints established by the client. No other representations, warranties, or guarantees are made concerning the accuracy or completeness of the data or conclusions contained within this report, including no assurance that this work has uncovered all potential and actual liabilities and conditions associated with the Subject Property.

This report provides an evaluation of selected environmental conditions associated with the Subject Property that was assessed at the time the work was conducted and is based on information obtained by and/or provided to Stantec at that time. There are no assurances regarding the accuracy and completeness of this information received from others.

Conclusions made within this report consist of Stantec's professional opinion as of the time of the writing of this report and are based solely on the scope of work described in the report, the limited data available, and the results of the work. They are not a certification of the Subject Property's environmental condition.

The client did not provide or contract Stantec to provide recorded title records or search results for environmental liens or activity and use limitations encumbering the property or in connection with the Subject Property. Stantec did not obtain historical records that document the property history in 5-year intervals, and this resulted in data gaps. Although this represents data gaps, these data gaps are not considered to impact the EPs ability to identify RECs and are not significant. Based on the information obtained during the course of this ESA and general knowledge of development at and near the Subject Property, the absence of this information did not affect the ability of the EPs to identify RECs, HRECs, CRECs, or *de minimis* conditions.

This report has been prepared for the exclusive use of the client identified herein, and March Capital Management (which may also rely on it), and any use of or reliance on this report by any third party is prohibited, except as may be consented to in writing by Stantec or as required by law. The provision of any such consent is at Stantec's sole and unfettered discretion and will only be authorized pursuant to the conditions of Stantec's standard form reliance letter. Stantec assumes no responsibility for losses, damages, liabilities, or claims, howsoever arising, from third party use of this report.

Project Specific limiting conditions are provided in Section 2.2.

The locations of any utilities, buildings and structures, and property boundaries illustrated in or described within this report, if any, including pole lines, conduits, water mains, sewers and other surface or sub-surface utilities and structures, are not guaranteed. Before starting site work, the exact location of all such utilities and structures must be confirmed by the client and the party performing the work, and Stantec assumes no liability resulting from damage to such utilities and structures.

The conclusions are based on the conditions encountered at the Subject Property by Stantec at the time the work was conducted.



As the purpose of this report is to identify Subject Property conditions which may pose an environmental risk; the identification of non-environmental risks to structures or people on the Subject Property is beyond the scope of this assessment.

The findings, observations, and conclusions expressed by Stantec in this report are not an opinion concerning the compliance of any past or present owner or operator of the Subject Property which is the subject of this report with any Federal, state, provincial or local law or regulation.

This report presents professional opinions and findings of a scientific and technical nature. It does not and shall not be construed to offer a legal opinion or representations as to the requirements of, nor compliance with, environmental laws, rules, regulations, or policies of Federal, state, provincial or local governmental agencies.

Stantec specifically disclaims any responsibility to update the conclusions in this report if new or different information later becomes available or if the conditions or activities on the property subsequently change. In the event of any conflict between the terms and conditions of this report and the terms and conditions of the MSA, the MSA shall control.

## **2.4 PERSONNEL QUALIFICATIONS**

This Phase I ESA was conducted by, or under the supervision of, an individual that meets the ASTM definition of an EP. The credentials of the EP and other key Stantec personnel involved in conducting this Phase I ESA are provided in Appendix B.



### 3.0 USER-PROVIDED INFORMATION

ASTM E1527-13 and pending ASTM E1527-21 describe responsibilities of the User to complete certain tasks in connection with the performance of “All Appropriate Inquiries” into the Subject Property. The ASTM standard requires that the EP request information from the User on the results of those tasks because that information can assist in the identification of RECs, CRECs, HRECs, or *de minimis* conditions in connection with the Subject Property. Towards that end, Stantec requested that the User provide the following documents and information:

Description of Information	Provided (Yes / No)	Description and/or Key Findings
User Questionnaire and/or Interview	No	At the time of the preparation of this report, no completed user questionnaire was provided. Given the previous reports and documents provided for review the lack of a completed user questionnaire is not considered a significant data gap.
Environmental Liens or Activity and Use Limitations (AUL)	Yes	The following land use covenants (LUCs) were issued for the Subject Property: <ul style="list-style-type: none"> <li>• 1999 Covenant and Environmental Restriction on Property, 3695-3723 Haven Avenue; and</li> <li>• 2021 Variance from Covenant and Environmental Restriction on 3705 Haven Avenue.</li> </ul>
Previous Environmental Permits or Reports Provided by User	Yes	See Section 4.2.1 for more information regarding these document findings.
Purpose of the Phase I ESA	Yes	The intended use of the Phase I is for due diligence in support of redevelopment.

The User provided information is included in Appendix C.



## 4.0 RECORDS REVIEW

The objective of consulting historical sources of information is to develop the history of the Subject Property and surrounding area and evaluate if past uses may have resulted in RECs. Physical setting records are evaluated to determine if the physical setting may have contributed to adverse environmental conditions in connection with the Subject Property. During the review of historical records, Stantec attempted to identify uses of the Subject Property from the present to the first developed use of the Subject Property. Stantec’s research included the reasonably ascertainable and useful records described in this section.

### 4.1 PHYSICAL SETTING

A summary of the physical setting of the Subject Property is provided in the table below with additional details in the following subsections.

<b>Topography:</b>	According to the USGS Palo Alto Topographic Map, the Subject Property is approximately 10 feet above mean sea level (amsl) with a regional topographic gradient to the north northeast (EDR, 2023).
<b>Soil/Bedrock Data:</b>	The United States Department of Agriculture – Natural Resources Conservation Service (USDA-NRCS), Web Soil Survey identifies the soils beneath the Subject Property as: <ul style="list-style-type: none"> <li>• Urban land-Orthents, reclaimed complex, with 0-2 percent slopes consisting of well drained soils within a tidal flat landform, and a typical soil profile consisting of variable soils (0-40 inches), and silty clay (40-60 inches) (USDA 2023).</li> </ul>
<b>Estimated Depth to Groundwater/ Estimated Direction of Gradient:</b>	Site specific groundwater investigations were not conducted during this ESA; however, according to a 2019 Groundwater and Indoor Air Investigation Report prepared by ACC Environmental Consultants for the Subject Property, groundwater was measured approximately 3.6-19 feet below ground surface (bgs) with a flow direction to the north-northeast.
<p><b>NOTE:</b>          Site-specific groundwater flow direction and depth can only be determined by conducting site-specific testing, which Stantec has not conducted.</p>	

#### 4.1.1 Subject Property Topography and Surface Water Flow

The Subject Property is located at approximately 10 feet above mean sea level (ft amsl). Based on topography of the area, storm water from the Property is expected to flow towards the north northeast.



#### **4.1.2 Regional and Subject Property Geology**

The Subject Property is situated within the Santa Clara Valley Groundwater Basin, San Mateo Subbasin (2-009.03). The subbasin is a northwest trough that runs parallel to the Coast Ranges, situated at the southwest end of San Francisco Bay. The subbasin is bound to the north by the Westside basin, to the west by the Santa Cruz Mountains, to the east by San Francisco Bay, and to the south by San Francisquito Creek. Alluvial fan deposits within the subbasin drain through tributaries into the San Francisco Bay. Average annual rainfall within the subbasin is 16-24 inches (DWR, 2003).

According to California Department of Conservation's (DOC) Earthquake Zone Map ([Department of Conservation Map Server \(ca.gov\)](#)), the Subject Property is not located within an Alquist-Priolo (AP) Earthquake Fault Zone boundary. The closest fault zone, San Andreas Fault, is located approximately five miles to the west of the Subject Property. However, the Subject Property is located within a Liquefaction Zone.

#### **4.1.3 Regional and Subject Property Hydrogeology**

Water-bearing deposits of the subbasin are largely comprised of the Plio-Pleistocene Santa Clara Formation and Quaternary alluvial deposits. The Santa Clara Formation underlies the alluvium and is composed on gravel, sand, silt, and clay, with permeability increasing from west to east. The Quaternary alluvium layer is the primary water-bearing formation and is comprised of gravel, sand, silt and clay. Permeable alluvium in the central portion of the valley allows streams to converge and flow east towards the Bay. Streams closest to the Bay have shifted course over time, creating discontinuous layers of gravel, sand and clay, which has allowed for a shallow water table aquifer to overlie confined and semi-confined aquifers in this lower area. Recharge within the basin occurs through infiltration of water into streams that descend into the valley from higher elevations, as well as rainfall percolation directly on the floor of the valley (DWR, 2003).

Site specific groundwater investigations were not conducted during this ESA; however, according to a 2019 Groundwater and Indoor Air Investigation Report prepared by ACC Environmental Consultants for the Subject Property, groundwater was measured approximately 3.6-19 feet below ground surface (bgs) with a flow direction to the north-northeast.

### **4.2 FEDERAL, STATE AND TRIBAL ENVIRONMENTAL RECORDS**

A regulatory agency database search report was obtained from Environment Data Resources (EDR), a third-party environmental database search firm. A complete copy of the database search report, including the date the report was prepared, the date the information was last updated, and the definition of databases searched, is provided in Appendix D.

Stantec evaluated the information listed within the database relative to potential impact to the Subject Property, assessing the potential for impacts based in part on the physical setting. As part of this process, inferences have been made regarding the likely groundwater flow direction at or near the Subject Property. As described in 4.1.3, the inferred shallow groundwater flow direction is likely to be in the north



northeast. Observations about the Subject Property and adjoining properties made during the Subject Property reconnaissance are provided in more detail in Section 5.

#### 4.2.1 Listings for Subject Property

Stantec assessed data presented in the environmental agency database search report to evaluate the potential for conditions on the Property to pose a REC, CREC, or HREC for the Subject Property. The evaluation included an opinion of the potential for contamination by hazardous substances or petroleum products including by vapor migration or encroachment (i.e., potential for a vapor encroachment condition [VEC]).

Listed Facility Name/Address	Database Listing	REC? (YES / NO)
Thysen Management Company/Siltec/BSG Associates 3705 Haven Ave. Menlo Park, CA	CA RGA LUST, CA LUST, CA CPS-SLIC, CA SAN MATEO CO. BI, CA CORTESE, CA HIST CORTESE, CA CERS, FINDS, CA HAZNET, CA HWTS, CA SPILLS 90	Yes

The Subject Property is listed in the State Water Resources Control Board (SWRCB) Geotracker database as a leaking underground storage tank (LUST) cleanup site with an open case status. This listing applied to the Subject Property and 3715 and 3723 Haven Avenue. The former USTs was formerly operated by the Siltec Corporation from 1970 to 1989. This facility reportedly manufactured polished silicon wafers. Chlorinated solvents were used in the process and were found to have impacted soil and groundwater beneath the Subject Property and surrounding properties. By the late 1990s, volatile organic compounds (VOCs) were detected in soil and groundwater in the area of the Subject Property. It is reported that the VOC impacted soil was excavated and removed from the Subject Property, and monitoring wells were installed on-site. In the reports reviewed indicate that between 1999 and 2001, approximately 3,530 tons of VOC impacted soil was excavated and disposed of offsite, clean soil was used to backfilled the excavations created by this removal action, and the area was paved to create a parking lot. No further LUST-related investigation or remediation requirements appear to apply to the Subject Property. A risk-management plan (RMP) was prepared in 1999, which contained construction and post-construction protocols for future contractors and owners/lessees of the Subject Property. Groundwater monitoring occurred semi-annually on the Subject Property between 2002 and 2008.

A covenant/environmental restriction was issued which prevented residential development of the 3715 and 3723 Haven Avenue, and also the Subject Property, in relation to the historical contamination. In 2014, a No Further Action letter was issued based on current commercial site use by the Regional Water Quality Control Board (RWQCB). In 2019, groundwater samples were taken at the Subject Property to assess the decrease in VOC concentrations in groundwater. It is reported that



Listed Facility Name/Address	Database Listing	REC? (YES / NO)
<p>trichloroethene (TCE) was detected above action levels in groundwater. Based on these detections, indoor air samples were subsequently taken, and results indicated that indoor air was not impacted by TCE or other VOCs including cis-1,2-dichloroethylene (cis-1,2-DCE) above RWQCB either commercial or residential risk-based screening levels. However, tetrachloroethene (PCE) was detected in indoor air at a level that exceeded residential risk-based screening levels, despite not being detected in groundwater. PCE impacts to indoor air were reportedly likely attributed to outdoor ambient air accumulating within the building or attributed to other potential on-site sources.</p> <p>In 2020, additional soil vapor samples were collected at the Site. The chemicals PCE, TCE, benzene, and chloroform were detected in concentrations exceeding residential screening levels. However, it was recommended in a 2020 sampling report, submitted for RWQCB review and approval, that the Subject Property would be suitable for residential redevelopment with the implementation of a vapor mitigation system. In 2021, the RWQCB issued a deed variance for the Subject Property to allow for residential development, to be effectively managed by the RMP that includes vapor mitigation (vapor barriers) for future construction. The adjacent properties, 3715 (formerly 3717) and 3723 Haven Avenue, also formerly operated by Siltec, remain under the covenant restrictions due to higher contaminant levels still present onsite. The 3715 Haven Avenue building was also determined to be the source of the contaminants present at 3705 Haven Avenue (Subject Property) and the adjacent property located at 3723 Haven Avenue.</p> <p>The open LUST case status, the presence of residual VOCs affecting the Subject Property, and the continued presence of adjoining off-site VOC contaminant sources represent a potential vapor encroachment condition (VEC). With the requirement to install vapor mitigation systems as a condition to residential redevelopment, the impacts described above represent a CREC in connection with the Subject Property. While the Subject Property has received a variance to the Land Use Covenant, allowing for residential development, redevelopment or maintenance at the Subject Property result in the discovery of previously-unidentified environmental impacts. Accordingly, and in accordance with the RMP, soil management procedures should be implemented during site development activities to specify the protocol for addressing new contamination (if discovered).</p>		

#### 4.2.2 Listings for Adjoining and Nearby Sites with Potential to Impact Subject Property

Stantec assessed data presented in the environmental agency database search report to evaluate the potential for conditions on adjoining and nearby sites to pose a REC, CREC, or HREC for the Subject Property. The evaluation included an opinion of the potential for contamination by hazardous substances or petroleum products to migrate to the Subject Property from an adjoining or nearby site, including by vapor migration or encroachment (i.e., potential for a vapor encroachment condition [VEC]).



**3705 HAVEN AVENUE, MENLO PARK, CALIFORNIA 94025**

**PHASE I ENVIRONMENTAL SITE ASSESSMENT**

Records Review

Listed Facility Name/Address	Database Listing	Distance/Direction from Property	REC? (YES / NO)
Industrial Garden Maintenance 3700 Haven Ave. Menlo Park, CA	CA HIST UST	0.011 mile/60 feet southwest at higher elevation	No
The site is listed as having three USTs containing regular, unleaded, and diesel fuels. No additional details are provided. No violations, spills or releases are reported. This does not represent a REC for the Subject Property.			
Luis Vasquez Mulch Supply 3665 Haven Ave. Menlo Park, CA	CA SWF/LF	0.017 mile/91 feet north northwest at lower elevation	No
The site is listed as a closed chipping and grinding mulch solid waste facility. No violations, spills or releases are reported. This does not represent a REC for the Subject Property.			
Siltec Corporation (Building 5) 3698 Haven Avenue Redwood City, CA	CA HIST UST	0.025 mile/131 feet west southwest at higher elevation	No
The site is listed as having two USTs containing waste, one 420- and one 1,500-gallon. No additional details are provided. No violations, spills or releases are reported. This does not represent a REC for the Subject Property.			
Chemo Centryx/Advanced Polymer Systems Inc/Synthego Corp/Kovio, Inc/Synthego Haven/Envivo, Nanostellar Inc/Ubiquitous Energy/Aldea Pharmaceuticals 3696 Haven Ave. Redwood City, CA	CA SAN MATEO CO. BI, CA CERS HAZ WASTE, CA HAZNET, CA CERS, CA HWTS, RCRA-LQG, RCRA NONGEN/NLR	0.025 mile/131 feet west southwest at higher elevation	No
The site is listed as a hazardous waste generator of oxygenated solvents, and organic liquid/solid wastes since at least 2014. The site received permit-related violations in 2018-2022; all were returned to compliance with the exception of the 2022 violations. Due to lack of reported releases or spills, this site does not represent a REC for the Subject Property.			
Bay Materials LLC/IGH Corporation 3700 Haven Ct. Menlo Park, CA	RRA NONGEN/NLR, CA LUST, CA SAN MATEO CO. BI, CA HIST CORTESE, CA CERS, CA SWEEPS UST, CA HIST UST, CA FID UST, CA HAZNET, CA HWTS	0.044 mile/234 feet south southeast at lower elevation	No
The site is listed as a LUST cleanup site in the SWRCB's Geotracker database with case closure dated 09/16/1994. Gasoline is listed as contaminant in groundwater. Based on the case closure date and status, and elevation from the Subject Property, this does not appear to represent a REC for the Subject Property.			
Correll Properties/Design Co./Barient Inc. 3641 Haven Ave.	CA HIST UST, CA HAZNET, CA HWTS, RCRA NONGEN/NLR,	0.053 mile/282 feet west at higher elevation	No





**3705 HAVEN AVENUE, MENLO PARK, CALIFORNIA 94025**  
**PHASE I ENVIRONMENTAL SITE ASSESSMENT**  
Records Review

Listed Facility Name/Address	Database Listing	Distance/Direction from Property	REC? (YES / NO)
Menlo Park, CA	RCRA-SQG, FINDS, ECHO, CA CERS HAZ WASTE, CA SAN MATEO CO. BI, CA CERS		
The site is listed as a hazardous waste generator since at least 1996 and as having at least two 2,000-gallon USTs containing regular and diesel product. The site received permit-related violations in 2015-2021, all of which were returned to compliance. Due to lack of reported releases or spills, this site does not represent a REC for the Subject Property.			
CT International Sales 3645 Have Ave. Menlo Park, CA	CA LUST, CA CPS-SLIC, CA DEED, CA SAN MATEO CO. BI, CA CERS	0.062 mile/325 feet north northwest at higher elevation	No
The site is listed in the SWRCBs Geotracker database as a LUST cleanup case with closure dated 01/21/2014. Soil and groundwater are listed as impacted by VOCs. The site was remediated; however, due to small amounts of contaminated soil left onsite, a deed use restriction was implemented which prevents residential use of the property. Based on case closure and status and distance from the Subject Property, this does not appear to represent a REC for the Subject Property.			

The remaining listings in the database search report, including listings of Orphan Sites, provided in Appendix D, do not constitute a potential REC for the Subject Property.

### 4.3 LOCAL/REGIONAL ENVIRONMENTAL RECORDS

Stantec checked the following sources to obtain information pertaining to Subject Property use and/or indications of RECs in connection with the Subject Property:

#### 4.3.1 Local Health Department

Agency Name, Contact Information, Date	Finding
San Mateo County Environmental Health Via online: <a href="https://smchealth.org">Online Form - Environmental Records Request (smchealth.org)</a> January 18, 2023	A written request subject to the Freedom of Information Act (FOIA) was submitted to the San Mateo County Environmental Health Department to review their files regarding the Subject Property. The information requested included file information regarding permits, hazardous materials, waste, complaints, violations, underground or aboveground storage tanks, remedial action, and case closure documentation, or any records that indicate environmental concern at the Subject Property.  As of the writing of this report, a complete response has not been received from the agency.



#### 4.3.2 Fire Department

Agency Name, Contact Information, Date	Finding
Custodian of Records Menlo Park Fire Protection District Via online: <a href="https://www.menlofire.org/public-records-act-request-form">Menlo Park Fire District - Public Records Act Request Form (menlofire.org)</a>  January 18, 2023	A written request subject to the FOIA was submitted to the Menlo Park Fire Protection District to review their files regarding the Subject Property. The information requested included file information regarding permits, hazardous materials, waste, complaints, violations, underground or aboveground storage tanks, remedial action, and case closure documentation, or any records that indicate environmental concern at the Subject Property.  As of the writing of this report, a complete response has not been received from the agency.

#### 4.3.3 Local Building and/or Planning Department Records

Agency Name, Contact Information, Date	Findings
Custodian of Records City of Menlo Park Via online: <a href="https://www.cityofmenlo.org/public-records-center">Public Records Center   City of Menlo Park (mycusthelp.com)</a>  January 18, 2023	A written request subject to the FOIA was submitted to the City of Menlo Park to review their files regarding the Subject Property. The information requested included file information regarding permits, hazardous materials, waste, complaints, violations, underground or aboveground storage tanks, remedial action, and case closure documentation, or any records that indicate environmental concern at the Subject Property.  As of the writing of this report, a complete response has not been received from the agency.

#### 4.3.4 Local/Regional Pollution Control Agency Department Records

Agency Name, Contact Information, Date	Findings
Custodian of Records Department of Toxic Substances Control (DTSC) Via email: <a href="mailto:Berkeleyfileroom@dtsc.ca.gov">Berkeleyfileroom@dtsc.ca.gov</a>  January 18, 2023	A written request subject to the FOIA was submitted to Berkeley Regional Office of the DTSC to review their files regarding the Subject Property. The information requested included file information regarding permits, hazardous materials, waste, complaints, violations, underground or aboveground storage tanks, remedial action, and case closure documentation, or any records that indicate environmental concern at the Subject Property.  On January 19, 2023, the agency responded that they have no records for the Subject Property.



Agency Name, Contact Information, Date	Findings
Bay Area Air Quality Management District (BAAQMD) Via online: <a href="http://baaqmd.gov">Request Public Records (baaqmd.gov)</a> January 18, 2023	A written request subject to the Freedom of Information Act (FOIA) was submitted to the BAAQMD to review their files regarding the Subject Property. The information requested included file information regarding permits, hazardous materials, waste, complaints, violations, underground or aboveground storage tanks, remedial action, and case closure documentation, or any records that indicate environmental concerns at the Subject Property.  On January 20, 2023, the agency responded with no records for the Subject Property.

#### 4.3.5 Local/Regional Water Quality Agency Records

Agency Name, Contact Information, Date	Findings
Custodian of Records San Francisco Bay Regional Water Quality Control Board (SFBRWQCB) Via email: <a href="mailto:info2@waterboards.ca.gov">info2@waterboards.ca.gov</a>  January 18, 2023	A written request subject to the FOIA was submitted to the SFBRWQCB to review their files regarding the Subject Property. The information requested included file information regarding permits, hazardous materials, waste, complaints, violations, underground or aboveground storage tanks, remedial action, and case closure documentation, or any records that indicate environmental concerns at the Subject Property.  As of the writing of this report, a complete response has not been received from the agency. Records available for the Subject Property on the SWRCB's online database Geotracker are described in Section 4.2.1. Based on its review of information from other sources, however, Stantec believes any lack of information from SFRWQCB here is unlikely to affect the conclusions or recommendations of this report.

### 4.4 HISTORICAL RECORDS REVIEW

#### 4.4.1 Land Title Records/Deeds

The following land use covenants (LUCs) were issued for the Subject Property:

- 1999 Covenant and Environmental Restriction on Property, 3695-3723 Haven Avenue
- 2021 Variance from Covenant and Environmental Restriction on 3705 Haven Avenue.

No other land title records, deeds, environmental liens, and activity and use limitation documentation were provided by the User, and public records were not searched by Stantec.



#### 4.4.2 Aerial Photographs

Stantec reviewed historical aerial photographs provided by EDR. The general type of activity on a property and land use changes can often be discerned from the type and layout of structures visible in the photographs. However, specific elements of a facility's operation usually cannot be discerned from aerial photographs alone. The following table summarizes Stantec's observations of the reviewed historical aerial photographs.

Year	Scale	Observations of Subject Property and Adjoining/Nearby Properties
1943 1948 1950	1" = 500'	The Subject Property and adjoining properties appear graded and vacant. A road is depicted adjacent to the east of the Subject Property. A marsh area is shown ¼ mile to the north. Several structures and roads are shown in the vicinity to the south. By 1948, dense residential development is shown in the vicinity to the south.
1958	1" = 500'	The Subject Property appears vacant and bound to the east and south by roads. Several structures and what appears to be a salvage yard are depicted adjoining to the west. Across the road to the south commercial development, a highway, and residential development are shown. North and east adjoining properties appear undeveloped.
1963	1" = 500'	The Subject Property appears to contain two small structures on the southern edge. Adjoining properties to the south, west and northwest are depicted with commercial structures, parked vehicles, and a salvage yard. The east adjoining property appears vacant. A salvage yard is shown in the vicinity to the east. Residential development, highways, and commercial buildings are observed in the southern vicinity.
1968	1" = 500'	The Subject Property appears developed with a commercial structure and parking lot. Adjoining properties to the west, north and south appear densely commercially/industrially developed. Adjoining properties to the west appear vacant/mowed and developed with commercial/industrial structures.
1974 1982 1991 1998 2005 2009 2012 2020	1" = 500'	The Subject Property appears similar to the 1968 photograph. Commercial/industrial development and salvage yards are depicted on the adjoining properties. By 1998, a large industrial structure and parking lot are shown adjoining to the east. By 2016, The adjoining properties to the west and northwest appear redeveloped with several buildings and parking lots.

Name of aerial photograph source: EDR, Appendix E.

#### 4.4.3 City Directories

Stantec retained a third party to research available city directories for the Subject Property and adjoining and nearby properties, in approximately five-year intervals. The Subject Property is listed in the City



**3705 HAVEN AVENUE, MENLO PARK, CALIFORNIA 94025**  
**PHASE I ENVIRONMENTAL SITE ASSESSMENT**  
Records Review

Directory between 2017 and 1969. The table below summarizes City Directory listings for the Subject Property. Adjoining and nearby properties generally include commercial/industrial listings.

<b>Subject Property</b>	<b>Year</b>	<b>Listed Occupants</b>
Subject Property – 3705 Haven Avenue	2017	Alex Abela Properties Cal Pac Advisors Haven Property Mgmt Kanler Philanthropedia
	2014	Brandon Hymes Cal Pac Advisors Foxfam LLC Haven Property Mgmt Hi Five Sports Jeff Schreiner Townii Inc
	2010	Blue Ridge Masonry Inc Foxfam LLC Human Service Management Corp Menlo Partners Staffing Inc Strategic Financial Telecom Medical & Finance Assoc.
	2005	Blue Ridge Masonry Fatima Funding Solutions Friendly Isle Home Care HMC Medimension Inc MS Brokerage Inc Reddy Software
	1995	BSG Assoc. Inc
	1992	BSG Assoc. Inc
	1986	Siltec Corp Siltec Packaging Div.
	1978	RO Associates Inc Electronic Power Supplies
	1973	RO Associates Inc Electronic Power Supplies
	1969	Heuttig & Schromm Inc Landscape Gardeners Industrial Garden Maintenance

Name of city directories and source: EDR, Appendix E

No RECs were noted during the review of the City Directories.



#### 4.4.4 Historical Fire Insurance Maps

Fire insurance maps were developed for use by insurance companies to depict facilities, properties, and their uses for many locations throughout the United States. These maps provide information on the history of prior land use and are useful in assessing whether there may be potential environmental contamination on or near the Subject Property. These maps, which have been periodically updated since the late 19th century, often provide valuable insight into historical Subject Property and adjoining and nearby property uses.

Stantec contracted with a third party to search for copies of historical fire insurance maps covering the Subject Property and adjoining and nearby properties. The Sanborn® Map Search Report indicating “No Coverage” is presented in Appendix E.

Historical fire insurance maps source: The Sanborn® Map Search Report

#### 4.4.5 Historical Topographic Maps

Stantec reviewed historical USGS 7.5-minute Topographic Maps of the Palo Alto and Redwood Point, California Quadrangles (scale 1:24,000), the historical USGS 15-minute Topographic Maps of the Palo Alto and Hayward, California Quadrangles (scales 1:50,000 and 1:62,500), and the historical USGS 30-minute Topographic Maps of the Santa Cruz, California Quadrangles (scale 1:125,000) to help identify past Subject Property and adjoining and nearby property usage and areas of potential environmental concern. Copies of the historical maps are provided in Appendix E.

The following table summarizes the maps reviewed and our observations.

Year	Scale	Observations of Subject Property and Adjoining/Nearby Properties
1897 1899 1902	1:62,500 1:62,500 1:125,000	The Subject Property, adjoining properties and vicinity appear to be vacant. Several structures and roads are shown ½ mile to the south. A slough is shown adjacent to the north.
1943 1947 1948	1:62,500 1:50,000 1:50,000	The Subject Property and adjoining properties appear vacant. A slough is depicted ¼ mile to the north. Several roads, structures, and a railroad are depicted ¼ mile to the south. By 1948, a road and several structures are depicted adjoining to the west. A sewage disposal site is shown one mile to the north.
1959	1:24,000 1:24,000	The Subject Property is depicted as vacant and bound to the east and south by roads. A structure is depicted adjoining to the west. Commercial/industrial structures are depicted adjacent to the south and east. Dense urban development is shown to the south across a multi-lane highway.
1968 1973	1:24,000	The Subject Property appears developed with one structure. Adjoining properties are depicted with structures. The vicinity appears similar to the 1959 map.



Year	Scale	Observations of Subject Property and Adjoining/Nearby Properties
1994 1999	1:24,000	The Subject Property and vicinity are shaded gray, indicating dense development.
2012 2015 2018	1:24,000 1:24,000 1:24,000	Structures are not depicted on the map.

Name of maps and source: EDR, Appendix E

No RECs were noted during the review of the topographic maps.

#### 4.4.6 Other Historical Sources

The California Department of Conservation Geologic Energy Management Division (CalGEM, formerly, the Division of Oil, Gas, and Geothermal Resources [DOGGR]) website (<https://www.conservation.ca.gov/calgem/Pages/WellFinder.aspx>) was searched to identify the potential existence of oil and gas production wells within the vicinity of the Subject Property. No wells were observed within approximately 15 miles of the Subject Property.



## 5.0 SITE RECONNAISSANCE

A visit to the Subject Property and its vicinity was conducted by Mr. Eric Booker on January 17, 2023. Access to the Subject Property was provided by Mr. Howard Gruber, Property Manager. Stantec was accompanied by Mr. Gruber during the Subject Property visit. Figure 2 provides information about the Subject Property and adjoining sites and the location of potential areas of environmental concern. Detailed Subject Property features are provided on Figure 2. Photographs collected during the site reconnaissance are included in Appendix A.

### 5.1 SITE RECONNAISSANCE METHODOLOGY

The site reconnaissance focused on observation of current conditions and observable indications of past uses and conditions of the Subject Property that may indicate the presence of RECs. The reconnaissance of the Property was conducted on foot and Stantec utilized the following methodology to observe the Property:

- Traverse the outer Subject Property boundary
- Traverse transects across the Subject Property
- Traverse the periphery of all structures on the Subject Property
- Visually observe accessible interior areas expected to be used by occupants or the public maintenance and repair areas, utility areas, and a representative sample of occupied spaces

Weather conditions during the visit to the Subject Property were clear and sunny. There were no weather-related Subject Property access restrictions encountered during the reconnaissance visit.

### 5.2 GENERAL DESCRIPTION

<b>Subject Property and Area Description:</b>	The Subject Property, addressed 3705 Haven Avenue in the City of Menlo Park, CA, is located at approximately 375 feet north of Highway 101, approximately 774 feet south of San Francisco Bay and approximately 650 feet west of Marsh Road and consists of one commercial building containing several offices, paved parking areas and landscaped areas. The Subject Property was accessed via entrances to the paved parking lot on the northeast and southwest. The area consists primarily of residential and commercial development.
<b>Subject Property Operations:</b>	Commercial businesses.
<b>Structures, Roads, Other Improvements:</b>	The Subject Property consists of an approximately 10,000 square foot single-story building, asphalt paved parking areas to the north and to the west, and landscaped areas to the east and to the south.





<b>Subject Property Size (acres):</b>	Approximately 0.66 acres.
<b>Estimated % of Subject Property Covered by Buildings and/or Pavement:</b>	80%
<b>Observed Current Subject Property Use/Operations:</b>	Office space
<b>Observed Evidence of Past Subject Property Use(s):</b>	None observed during site reconnaissance.
<b>Sewage Disposal Method (and age):</b>	Municipal
<b>Potable Water Source:</b>	Municipal
<b>Electric and Natural Gas Utilities:</b>	PG&E

### 5.3 HAZARDOUS SUBSTANCES AND PETROLEUM PRODUCTS

The following table summarizes Stantec's observations during the Subject Property reconnaissance.

<b>Observations</b>	<b>Description/Location</b>
<b>Hazardous Substances and Petroleum Products as Defined by CERCLA 42 U.S.C. § 9601(14) with identified uses:</b>	None observed.
<b>Drums/Totes/Intermediate Bulk Containers (≥ 5 gallons):</b>	None observed.
<b>Strong, Pungent, or Noxious Odors:</b>	None observed.
<b>Pools of Liquid:</b>	None observed.
<b>Unidentified Substance Containers:</b>	None observed.
<b>Polychlorinated biphenyl (PCB)-Containing Equipment:</b>	None observed.
<b>Other Observed Evidence of Hazardous Substances or Petroleum Products:</b>	None observed.

### 5.4 INTERIOR OBSERVATIONS

Stantec made the following observations during the site reconnaissance of the building interiors at the Subject Property and/or identified the following information during the interview or records review portions of the assessment:



Observations	Description
<b>Heating/Cooling Method:</b>	Roof Mounted HVAC units observed.
<b>Surface Stains or Corrosion:</b>	Minor staining on the carpet of the utility closet and minor rust colored staining was observed in the restrooms.
<b>Floor Drains and Sumps:</b>	Floor drains were observed in the shower areas of two restrooms.
None observed.	None observed.

## 5.5 EXTERIOR OBSERVATIONS

Stantec made the following observations during the site reconnaissance of exterior areas of the Subject Property and/or identified the following information during the interview or records review portions of the assessment:

Observations	Description
<b>On-site Pits, Ponds, or Lagoons:</b>	None observed.
<b>Stained Soil or Pavement:</b>	None observed.
<b>Stressed Vegetation:</b>	None observed.
<b>Waste Streams and Waste Collection Areas:</b>	None observed.
<b>Solid Waste Disposal:</b>	No areas indicative of solid waste disposal were observed.
<b>Potential Areas of Fill Placement:</b>	No mounds, piles, or depressions suggesting the placement of fill material were observed on the Subject Property.
<b>Wastewater:</b>	No exterior wastewater discharge was observed.
<b>Stormwater:</b>	Although the topography of the Subject Property is generally flat, stormwater generated on the Subject Property would likely flow to the east and to the south towards Haven Avenue and into a storm drain to the south.
<b>Wells:</b>	No wells were observed.
<b>Septic Systems:</b>	No visible evidence of the existence of a septic system was observed.
<b>Other Exterior Observations:</b>	None observed.

## 5.6 UNDERGROUND STORAGE TANKS/STRUCTURES

<b>Existing USTs:</b>	No visible evidence (fill pipes, vent pipes, dispensers, surface patches), which would indicate the presence of USTs, was discovered during the site reconnaissance.
<b>Former USTs:</b>	No visible evidence (fill pipes, vent pipes, dispensers, surface patches), reports, or other evidence of the former presence of USTs was discovered during this Phase I ESA.



<b>Other Underground Structures:</b>	None observed.
--------------------------------------	----------------

## 5.7 ABOVEGROUND STORAGE TANKS

<b>Existing ASTs:</b>	No visible evidence (fill pipes, vent pipes, dispensers, surface stains), which would indicate the presence of ASTs, was discovered during the site reconnaissance.
<b>Former ASTs:</b>	No visible evidence (fill pipes, vent pipes, dispensers, surface stains), reports, or other evidence of the former presence of ASTs was discovered during this Phase I ESA.

## 5.8 ADJOINING PROPERTIES

### 5.8.1 Current Uses of Adjoining Properties

As viewed from the Subject Property and/or from public rights-of-way, Stantec made the following observations about use and activities on adjoining sites:

<b>NORTH</b>	Commercial development.
<b>EAST</b>	Residential development.
<b>SOUTH</b>	Commercial development.
<b>WEST</b>	Commercial development across Haven Avenue and drainage canal.

Refer to Figure 2.

### 5.8.2 Observed Evidence of Past Uses of Adjoining Properties

Observations of adjoining sites providing indications of past use and activities, if any, are described below.

<b>NORTH</b>	None observed
<b>EAST</b>	None observed
<b>SOUTH</b>	None observed
<b>WEST</b>	None observed

### 5.8.3 Pits, Ponds, or Lagoons on Adjoining Properties

As viewed from the Subject Property and/or from public rights-of-way, Stantec made the following observations about the presence of pits, ponds, and lagoons on adjoining sites:

<b>NORTH</b>	None observed
<b>EAST</b>	A drainage canal with flowing water was observed to the east of the Subject Property.



<b>SOUTH</b>	None observed
<b>WEST</b>	None observed

## 5.9 OBSERVED PHYSICAL SETTING

<b>Topography of the Subject Property and Surrounding Area:</b>	Observed topography of the vicinity appeared to be generally flat terrain. However, water in the drainage canal to the east of the Subject Property appeared to flow north towards San Francisco Bay.
---	---



## 6.0 INTERVIEWS

Stantec conducted interviews with the following individuals:

<b>Name, Contact Information, and Date of Interview</b>	<b>Relationship to Subject Property</b>	<b>Key findings:</b>
Mr. Howard Gruber	Key Site Manager	Mr. Gruber stated that the Subject Property was used as office space and provided access to all areas of the Subject Property. He was not aware of any current or past environmental hazards related to the Subject Property.

Copies of interview documentation are provided in Appendix G.

### 6.1 FINDINGS FROM INTERVIEWS WITH SUBJECT PROPERTY OWNER

An interview with the Subject Property Owner was not conducted during the site visit. However, an interview with the Property Manager was conducted. No significant findings were obtained from this interview.



## 7.0 EVALUATION

This section provides a summary overview of or Findings, Opinions, and Conclusions.

### 7.1 FINDINGS AND OPINIONS

Information gathered from interviews, reviews of existing data, and an inspection was evaluated to determine if RECs are present in connection with the Subject Property. Based on this information, Stantec made the following findings and developed the following opinions.

- Due to the Subject Property's open release case status, contaminants remaining onsite, and adjoining off-site contaminant sources still present, and the existence of the Land Use Covenant, Stantec recommends that future construction at the Property include vapor mitigation systems. It is anticipated that the residual impacts from contamination can be properly managed pursuant to the RMP documentation, including as it pertains to soil management and worker protection issues.
- The Subject Property structure appears to have been constructed 1960s, and the presence of LBP and ACMs in building materials is possible. An LBP and ACM survey is recommended prior to any renovation or demolition activities in accordance with applicable local and federal regulations.
- The Subject Property is located within a 1% Special Flood Hazard Area and Liquefaction zone. It is recommended that these be taken into account during Subject Property redevelopment.

### 7.2 DATA GAPS

The federal AAI final rule [40 CFR 312.10(a)] and ASTM E1527-21 identify a "data gap" as the lack or inability to obtain information required by the standards and practices of the rule despite good faith efforts by the EP or the User.

Any data gaps resulting from the Phase I ESA described in this report are listed and discussed below.

Gap	Discussion
<b>Deletions or Exceptions from Scope of Work Referenced in Section 1.4:</b>	None.
<b>Weather-Related Restrictions to Site Reconnaissance:</b>	None.
<b>Facility Access Restrictions to Site Reconnaissance:</b>	None.
<b>Other Site Reconnaissance Restrictions:</b>	None.



Gap	Discussion
<b>Data Gaps from Environmental Records Review:</b>	To date, some requested agency records have not been received; however, this is not anticipated to affect the EP's ability to identify RECs for the Subject Property.
<b>Data Gaps from Historical Records Review:</b>	None.
<b>Data Gaps from Interviews:</b>	None.
<b>Other Data Gaps:</b>	At the time of the preparation of this report no completed user questionnaire was provided. Given the previous reports and documents provided for review the lack of a completed user questionnaire is not considered a significant data gap.

### 7.3 CONCLUSIONS

We have performed a Phase I ESA in conformance with the scope and limitations of ASTM Practice E1527-21 and E1527-13 of the Subject Property. Any exceptions to, or deletions from, this practice are described in Section 2.3 of this report. This assessment has no evidence of recognized environmental conditions (RECs) in connection with the Subject Property, but identified the following Controlled REC (CREC):

- The open LUST case status for the adjacent properties (for which no requirements are being imposed on the Subject Property), the presence of residual VOC contaminants at the Subject Property from the off-site releases, and the adjoining off-site VOC-impacted sites (with impacts to groundwater) represent a potential vapor encroachment condition (VEC). The variance to the Land Use Covenant allows for the Subject Property to be redeveloped for residential purposes provided that a vapor mitigation system is installed. Therefore, with this control (in the form of the vapor mitigation systems), the environmental impacts described above represent a CREC. It is anticipated that any residual impacts from historical contamination can be properly managed in accordance with the RWQCB-approved RMP, which includes soil management procedures and a health and safety plan. Accordingly, Stantec recommends that redevelopment work at the Subject Property proceed in accordance with the RMP (including in regard to the soil management procedures described therein) and that future residential construction include vapor mitigation systems as required by the Land Use Covenant and Variance.

This assessment has also revealed the following non-ASTM scope environmental issues in connection with the Subject Property.

- The Subject Property structure appears to have been constructed in the 1960s, and the presence of lead-based paint (LBP) and asbestos-containing materials (ACMs) in building materials is possible. An LBP and ACM survey is recommended prior to any renovation or demolition activities in accordance with applicable local and federal regulations.
- The Subject Property is located within a 1% Special Flood Hazard Area and Liquefaction zone. It is recommended that these be taken into account during Subject Property redevelopment.



## 8.0 NON-SCOPE CONSIDERATIONS

The following ASTM E1527-13 non-scope services were performed as part of this Phase I ESA:

### 8.1 LEAD-BASED PAINT

Concern for LBP is primarily related to residential structures. The EPA's Final Rule on Disclosure of Lead-Based Paint in Housing (40 CFR Part 745) defines LBP as paint or other surface coatings that contain lead equal to or in excess of 1.0 milligram per square centimeter or 0.5 percent by weight.

The risk of lead toxicity in LBP varies based upon the condition of the paint and the year of its application. The U.S. Department of Housing and Urban Development (HUD) has identified the following risk factors:

- The age of the dwelling as follows:
  - Maximum risk is from paint applied before 1950.
  - There is severe risk from paint applied before 1960.
  - There is moderate risk from deteriorated paint applied before 1970.
  - There is slight risk from the paint that is intact but applied before 1977.
- The condition of the painted surfaces.
- The presence of children and certain types of households in the building.
- Previously reported cases of lead poisoning in the building or area.

Construction Date	Residential (Yes/No)	Observed Condition of Painted Surfaces
1960s	No	An LBP survey is recommended prior to renovation.

### 8.2 ASBESTOS

Asbestos can be found in many applications, including sprayed-on or blanket-type insulation, pipe wraps, mastics, floor and ceiling tiles, wallboard, mortar, roofing materials, and a variety of other materials commonly used in construction. The greatest asbestos-related human health risks are associated with friable asbestos, which is ACM that can be reduced to powder by hand pressure. Friable asbestos can become airborne and inhaled, which has been associated with specific types of respiratory disease. The manufacturing and use of asbestos in most building products was curtailed during the late 1970s.

The Subject Property structures were constructed in the 1960s; an ACM survey is recommended prior to renovation activities.

### 8.3 RADON

Radon is a colorless, tasteless radioactive gas with an EPA-specified action level of 4.0 PicoCuries per liter of air (pCi/L) for residential properties. Radon gas has a very short half-life of 3.8 days. The health





**3705 HAVEN AVENUE, MENLO PARK, CALIFORNIA 94025**  
**PHASE I ENVIRONMENTAL SITE ASSESSMENT**  
 Non-Scope Considerations

risk potential of radon is primarily associated with its rate of accumulation within confined areas near or in the ground, such as basements, where vapors can readily transfer to indoor air from the ground through foundation cracks or other pathways. Large, adequately ventilated rooms generally present limited risk for radon exposure. The radon concentrations in buildings and homes depend on many factors, including soil types, temperature, barometric pressure, and building construction (EPA, 1993).

Stantec reviewed regional data published by the EPA on average indoor radon concentrations in the vicinity of the Property (<http://www.epa.gov/radon/zonemap.html>).

<b>EPA Radon Zones (w/Average Measured Indoor Radon concentrations)</b>		
Zone 1 – High (>4.0 pCi/L)	Zone 2 – Moderate (2 to 4 pCi/L)	Zone 3 – Low (<2 pCi/L)
	X	
<b>Normally occupied sub grade areas present? (i.e., basement apartments, offices, stores, etc.)</b>		
No subgrade areas currently present at the Property.		

The Subject Property is located in Zone 2 and is considered to have a moderate potential for radon. To determine Subject Property-specific radon levels, a radon survey would have to be conducted. However, because the Subject Property does not have any occupied subgrade areas and is planned for redevelopment, radon appears unlikely to represent an environmental concern and Stantec recommends no further investigation regarding this issue.

## 8.4 FLOOD ZONES

According to the Physical Setting summary portion of the EDR report, the Subject Property is located within a 1% Special Flood Hazard Area.



## 9.0 REFERENCES

ASTM International, 2022, Standard Guide for Vapor Encroachment Screening on Subject Property Involved in Real Estate Transactions, Designation E 2600-22.

ASTM International, 2013, Standard Practice for Environmental Site Assessments: Phase 1 Environmental Site Assessment Process, Designation: E 1527-13.

ASTM International, 2021, Standard Practice for Environmental Site Assessments: Phase 1 Environmental Site Assessment Process, Designation: E 1527-21.

California Department of Water Resources (DWR), 2003. California's Groundwater Bulletin 118: Santa Clara Valley Groundwater Basin, San Mateo Subbasin.

Environmental Data Resources (EDR), 2023, Aerial Photographs, City Directories, Sanborn® Map Report, Topographic Maps, EDR Radius Map Report with GeoCheck®, 3705 Haven Avenue, Menlo Park, CA 94025. Inquiry Number 7227915.2s. January 18.

United States Environmental Protection Agency (EPA), 2005. *All Appropriate Inquiries Final Rule*.

### Websites:

<http://Geotracker.swrcb.ca.gov/>

<https://www.envirostor.dtsc.ca.gov/public/>

<https://websoilsurvey.sc.egov.usda.gov/App/HomePage.htm>

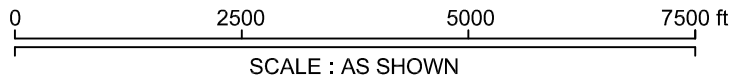
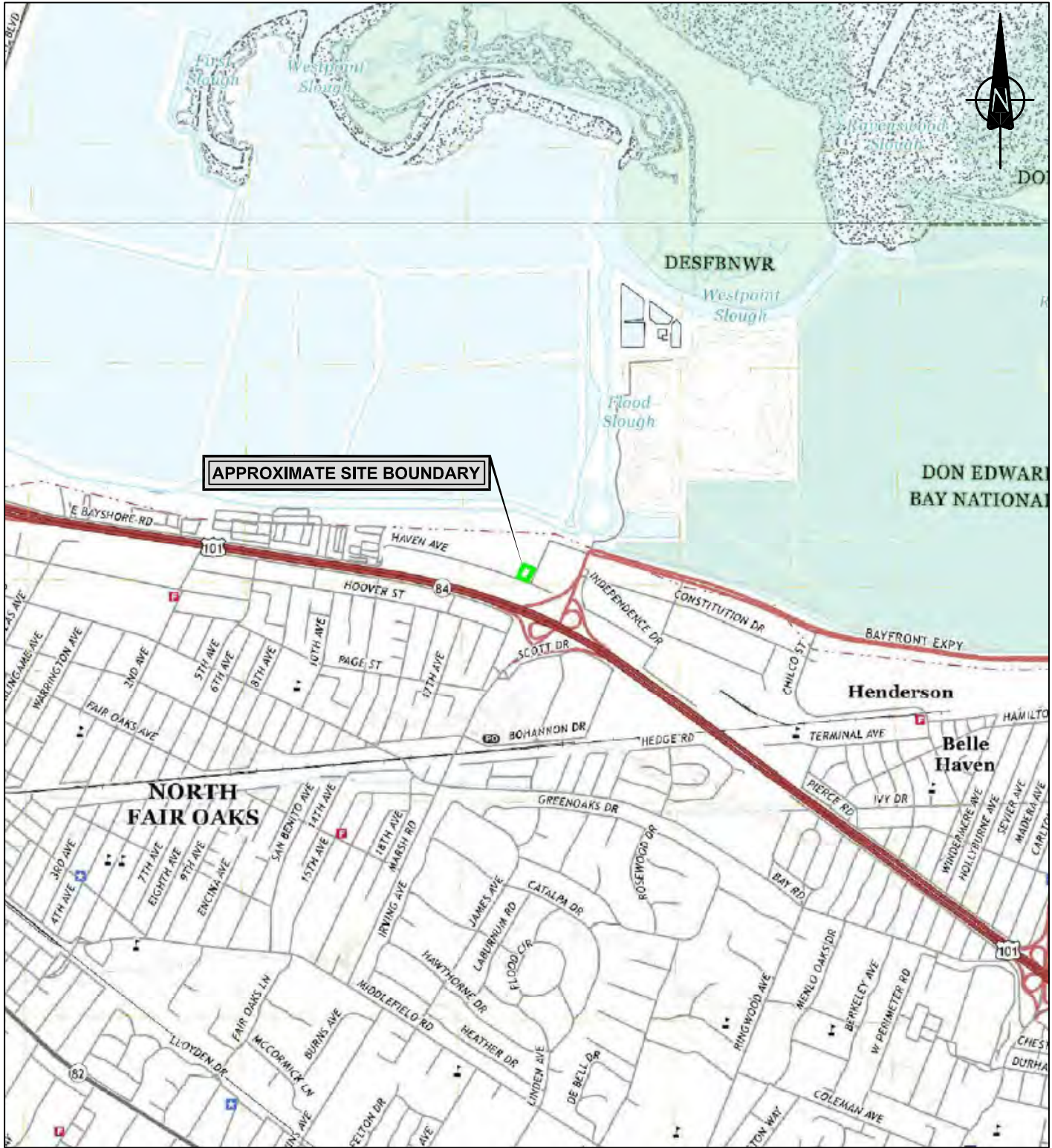
<https://www.conservation.ca.gov/calgem/Pages/WellFinder.aspx>

[Department of Conservation Map Server \(ca.gov\)](#)



# FIGURES





NOTE: THIS DRAWING ILLUSTRATES SUPPORTING INFORMATION SPECIFIC TO A STANTEC SERVICES INC. REPORT AND MUST NOT BE USED FOR OTHER PURPOSES.

## SUBJECT PROPERTY LOCATION MAP

PHASE I ENVIRONMENTAL SITE ASSESSMENT  
3705 HAVEN AVENUE, MENLO PARK, CA 94024

Project No.:	185805894
Scale:	AS SHOWN
Date:	23/01/27
Dwn. By:	CD CS SC2023010026
App'd By:	KE

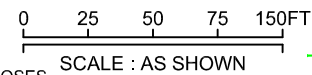
Fig. No.:

1



Client: MARCH CAPITAL MANAGEMENT





**LEGEND**  
- - - SUBJECT PROPERTY

NOTE: THIS DRAWING ILLUSTRATES SUPPORTING INFORMATION SPECIFIC TO A STANTEC CONSULTING LTD. REPORT AND MUST NOT BE USED FOR OTHER PURPOSES.

**SUBJECT PROPERTY DETAILS**  
 PHASE I ENVIRONMENTAL SITE ASSESSMENT  
 3705 HAVEN AVENUE, MENLO PARK, CA 94024

**Client:** MARCH CAPITAL MANAGEMENT

<b>Project No.:</b> 185805894
<b>Scale:</b> AS SHOWN
<b>Date:</b> 23/01/27
<b>Dwn. By:</b> CD CS SC2023010027
<b>App'd By:</b> KE

**Fig. No.:**

2



# APPENDICES



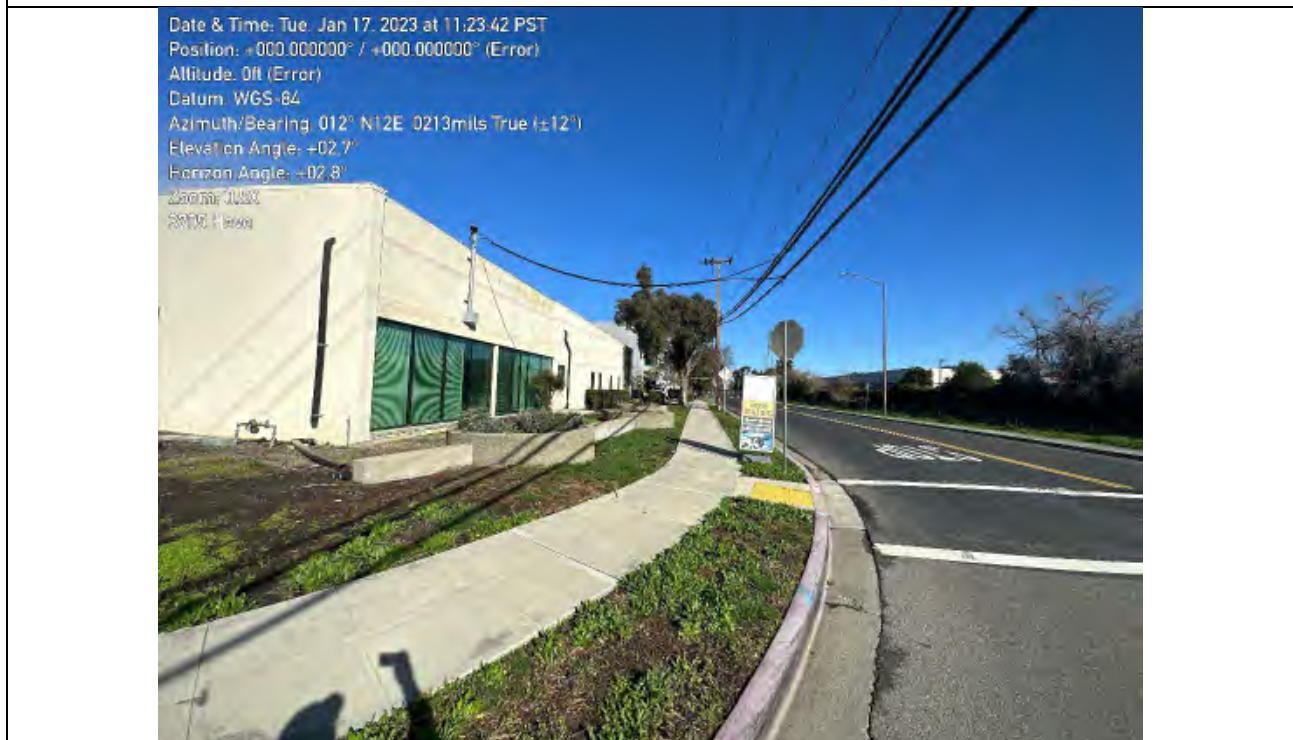
## **Appendix A Photographs of the Subject Property and Vicinity**







**Photo #1** View of the Property from the northeastern corner looking southwest.



**Photo #2** View looking north of the eastern boundary of the Property along Haven Avenue.

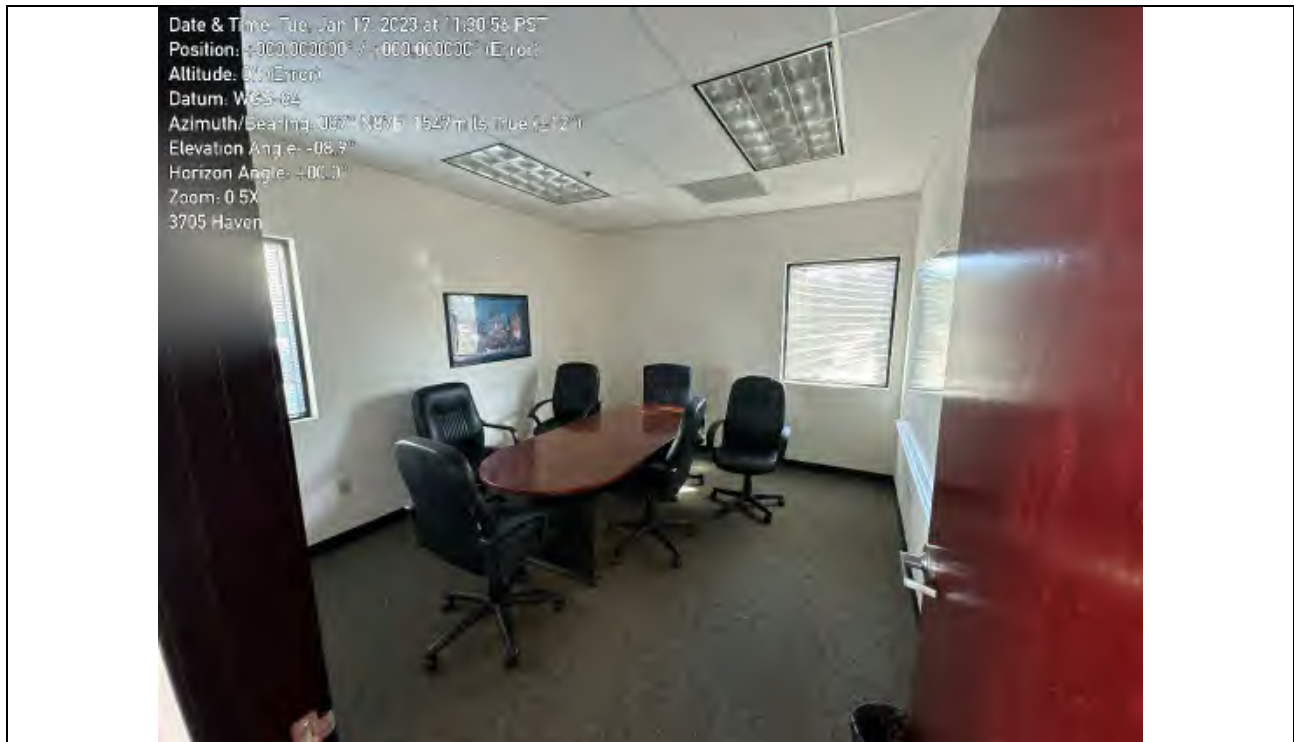




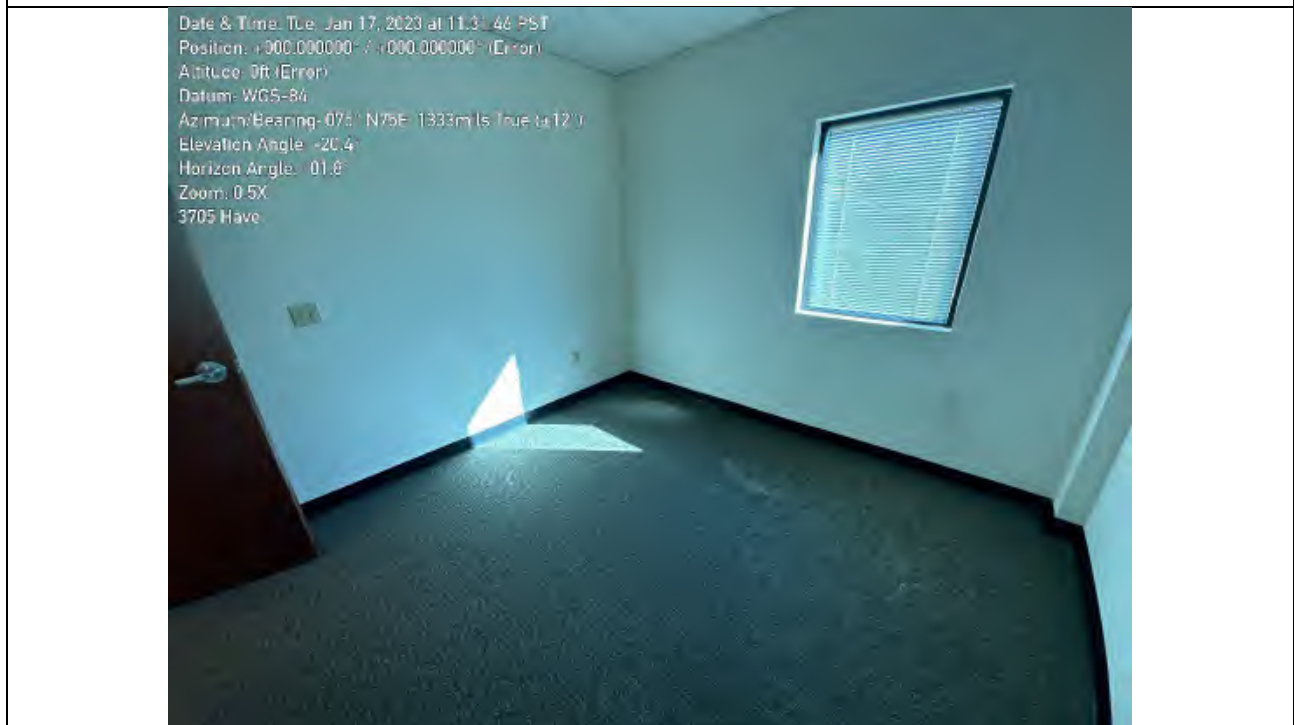
**Photo #3** View looking west of the southern boundary of the Property along Haven Avenue.



**Photo #4** View looking north along the western boundary of the Property.

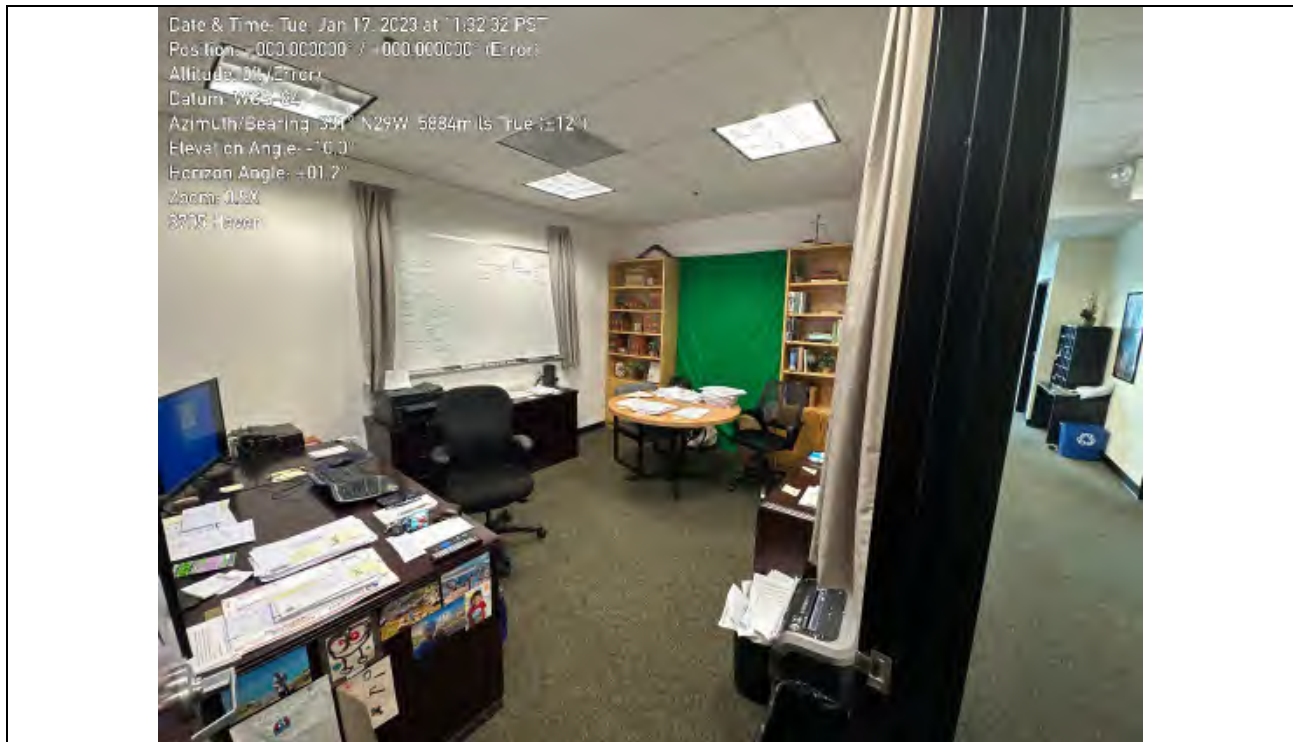


**Photo #5** View of a typical conference room within the building on the Property.



**Photo #6** View of a typical unoccupied office.





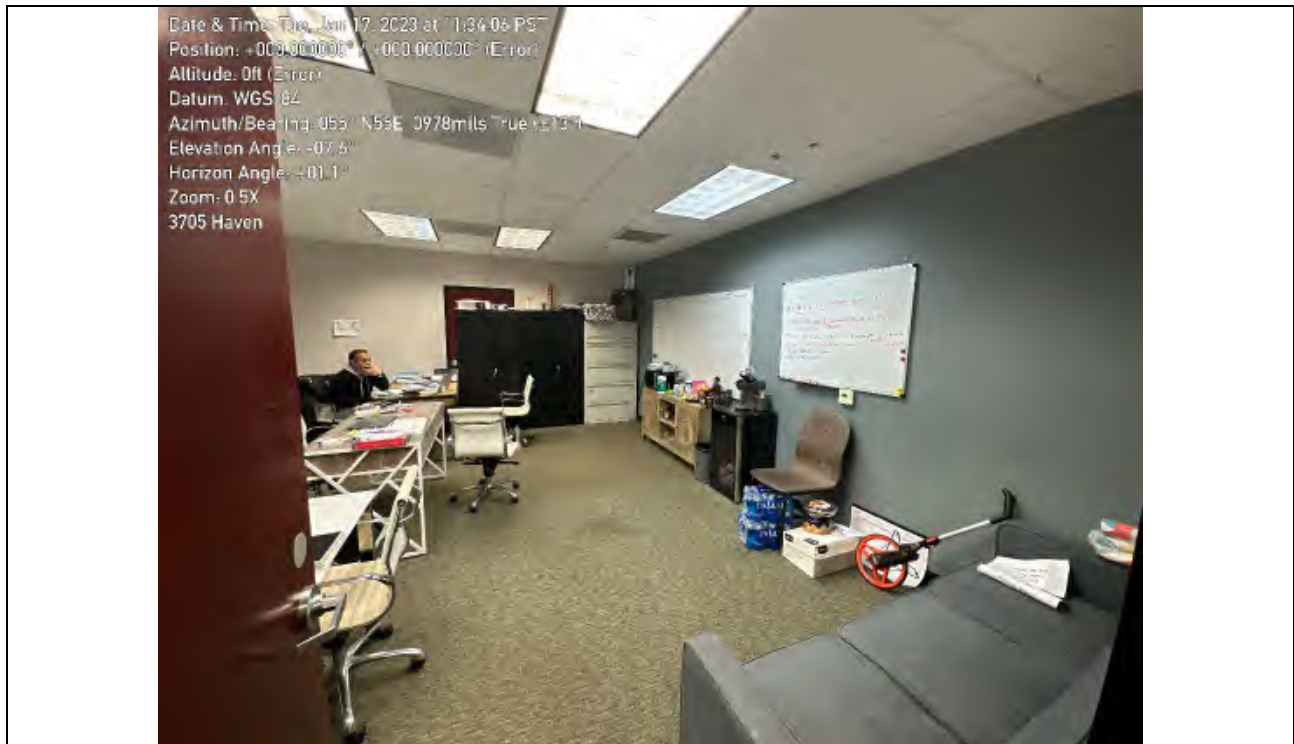
Date & Time: Tue, Jan 17, 2023 at 11:32:32 PST  
Position: +000.000000° N +000.000000° W (Error)  
Altitude: 0ft (Error)  
Datum: WGS-84  
Azimuth/Bearing: 334° N29W 5884mils True ±12.1  
Elevation Angle: -10.0°  
Horizon Angle: +01.2°  
Zoom: 0.5X  
3705 Haven

**Photo #7** View of a typical large office on the Property.

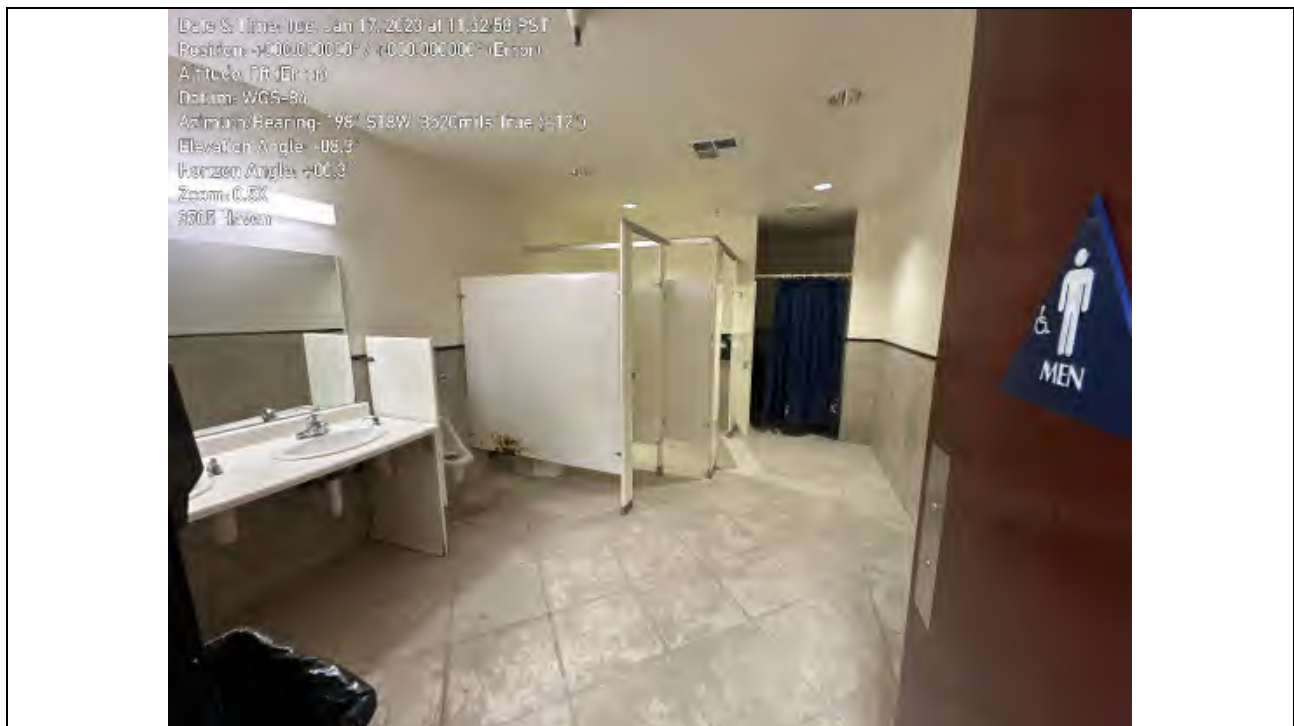


Date & Time: Tue, Jan 17, 2023 at 11:37:15 PST  
Position: +000.000000° N +000.000000° W (Error)  
Altitude: 0ft (Error)  
Datum: WGS-84  
Azimuth/Bearing: 166° S74E 7350mils True 0±13.1  
Elevation Angle: -12.5°  
Horizon Angle: +00.5°  
Zoom: 0.5X  
3705 Haven

**Photo #8** View of a typical unoccupied office with windows.



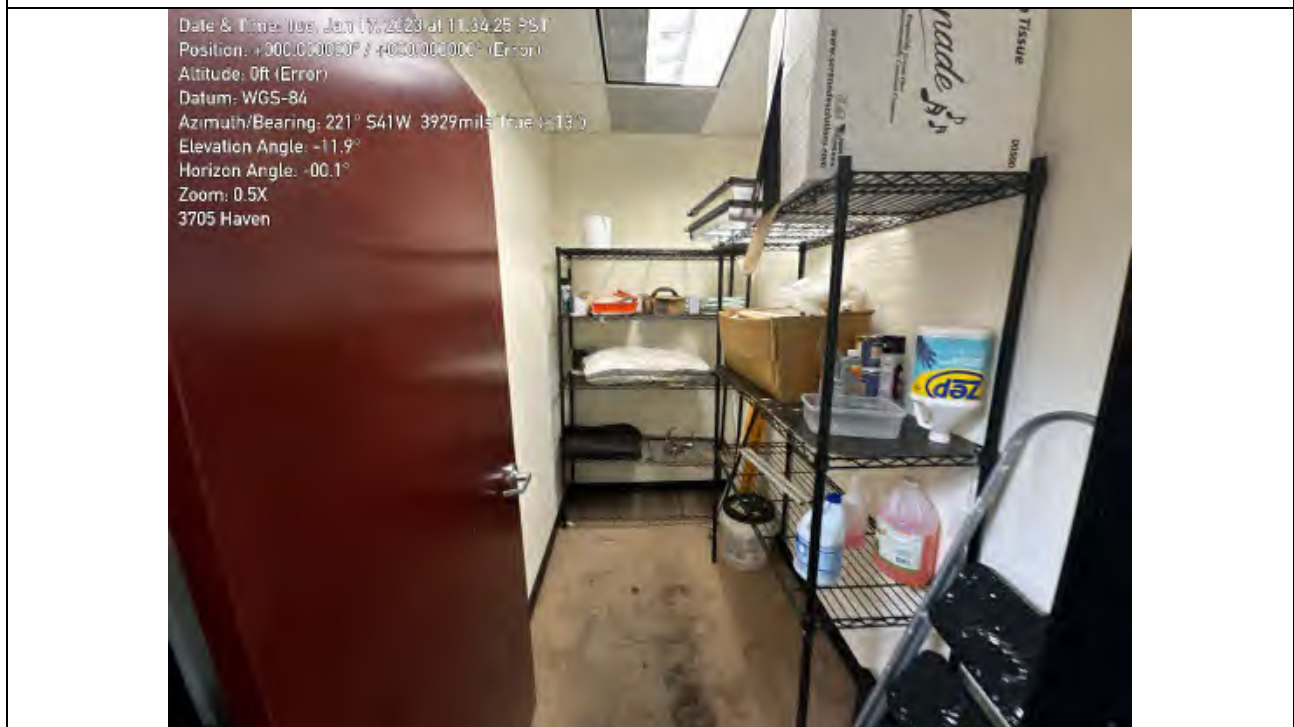
**Photo #9** View of typical operations on the Property.



**Photo #10** View of typical bathroom on the Property.



**Photo #11** View of shower with floor drain in men's bathroom.



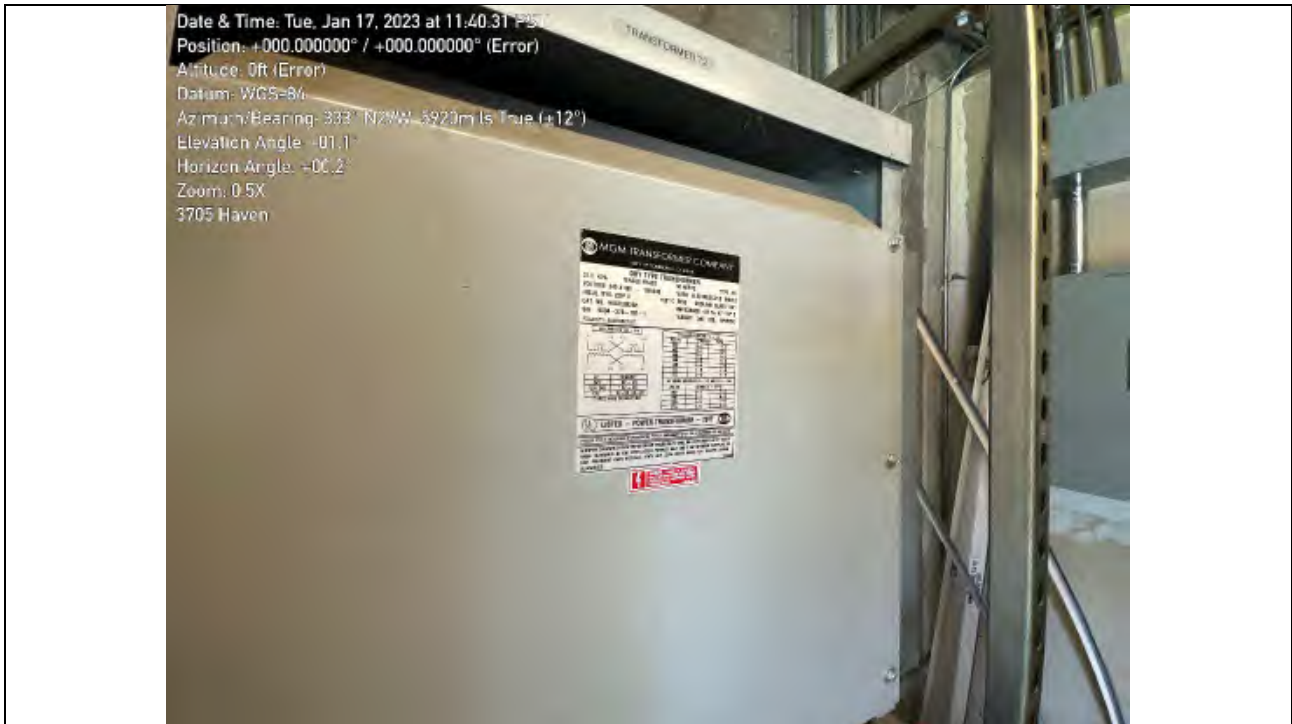
**Photo #12** View of utility closet with carpet staining and cleaning supplies.





Date & Time: Tue, Jan 17, 2023 at 11:40:13 PST  
Position: +000.000000° / -000.000000° (Error)  
Altitude: 0ft (Error)  
Datum: WGS-84  
Azimuth/Bearing: 841° N41E 0729mils True (+12°)  
Elevation Angle: +03.7°  
Horizon Angle: +00.0°  
Zoom: 0.5X  
3705 Haven

**Photo #13** View of electrical room with dry transformer on the south side of the building.



Date & Time: Tue, Jan 17, 2023 at 11:40:31 PST  
Position: +000.000000° / +000.000000° (Error)  
Altitude: 0ft (Error)  
Datum: WGS-84  
Azimuth/Bearing: 333° N27W 5923mils True (+12°)  
Elevation Angle: +01.1°  
Horizon Angle: +00.2°  
Zoom: 0.5X  
3705 Haven

**Photo #14** Close up of dry transformer in electrical room.



**Photo #15** View of kitchen.



**Photo #16** View of commercial development on the adjacent site to the north of the Property.





**Photo #17** View of residential development on the adjacent site to the west of the Property.



**Photo #18** View of commercial development on the adjacent site to the south of the Property across Haven Avenue.





Date & Time: Tue, Jan 17, 2023 at 11:24:38 PST  
Position: +000.000000° N -0000.000000° W (Error)  
Altitude: 00 (Error)  
Datum: WGS-84  
Azimuth/Bearing: 188° 50'56" S50W 5500mils True (21.2°)  
Elevation Angle: +05.1°  
Horizon Angle: +02.7°  
Zoom: 0.5X  
3705 Haven

**Photo #19** View of drainage canal on the adjacent site to the east of the Property across Haven Avenue.



Date & Time: Tue, Jan 17, 2023 at 12:02:11 PST  
Position: +0000.00000° N +0000.000000° W (Error)  
Altitude: 00 (Error)  
Datum: WGS-84  
Azimuth/Bearing: 233° 55'56" S53W 4194mils True (2.19°)  
Elevation Angle: +01.8°  
Horizon Angle: +00.2°  
Zoom: 0.5X  
3705 Haven

**Photo #20** View of FedEx Facility on the nearby site to the east across Haven Avenue and drainage canal. Standing water seen in the photo is due to recent heavy storms.

## Appendix B STANTEC RESUMES



# Alicia Jansen CAC, LRCIA

Senior Scientist  
21 years of experience

Alicia is a Senior Scientist with over twenty years of experience in Phase I and II Environmental Assessments, with strong emphasis in water quality and environmental research. Alicia has managed the preparation of environmental documents, training programs, and environmental compliance during large scale environmental monitoring projects. Alicia's environmental consulting experience includes performing asbestos and lead-based paint surveys, oversight of contractors during asbestos abatement, hazardous materials surveys, and Phase I Environmental Site Assessments (ESAs) in accordance with the practices identified in the American Society for Testing and Materials (ASTM) Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process, ASTM Designation E 1527-21 and the Standard Practice for Environmental Site Assessments for Forestland or Rural Property, ASTM Designation E 2247-16.

## EDUCATION

BA, Environmental Studies, San Jose State University, San Jose, California, 2004

## CERTIFICATIONS & TRAINING

Residential Measurement Provider, 108212, National Radon Proficiency Program, Anaheim, California, 2015

## REGISTRATIONS

Certified Asbestos Consultant #CAC #15-5379, State of California Division of Occupational Safety and Health

Lead Inspector/Risk Assessor #LRC-00005363, California Department of Public Health

## MEMBERSHIPS

Member, Groundwater Resources Association of California

## PROJECT EXPERIENCE

### HEALTH, SAFETY & INDUSTRIAL HYGIENE

Cochise County, Asbestos, Lead-Based Paint, and Hazardous Materials Survey | Arizona | Field Lead and Certified Asbestos Consultant

Alicia conducted with site inspections for asbestos, lead-based paint, and hazardous materials at multiple vacant structures including schools, multi-tenant apartment

buildings, and commercial structures. The scope of work involved sample collection for asbestos and lead-based paint in addition to the quantification of universal wastes (PCBs, mercury containing equipment, refrigerants, etc.) that would require special handling and disposal. She assisted with the preparation of reports summarizing findings. Role: Field Lead | Dates involved: 2020-2022

Confidential Health Care Company, Asbestos, Lead-Based Paint, and Hazardous Materials Survey | Northern California | Staff

Alicia assisted with site inspections for asbestos, lead-based paint, and hazardous materials at multiple occupied hospitals and office spaces. The scope of work involved sample collection for asbestos and lead-based paint in addition to the quantification of universal wastes (PCBs, mercury containing equipment, refrigerants, etc.) that would require special handling and disposal. She assisted with the preparation of reports summarizing findings. Role: Field Lead | Dates involved: 2013-2020

State of California General Services, Asbestos, Lead-Based Paint, and Hazardous Materials Survey | Northern California | 2009 | Technical Support

Alicia assisted with site inspections for asbestos, lead-based paint, and hazardous materials at multiple communication towers in remote areas. The scope of work involved sample collection for asbestos and lead-based paint in addition to the quantification of universal wastes (PCBs, mercury containing equipment, refrigerants, etc.) that would require special handling and disposal. She assisted with the preparation of reports summarizing findings. Role: Technical Support | Cost: Unknown | Dates involved: 10/2009-10/2009

Indoor Air Quality Assessments\* | San Jose, California | 2002-2005 | Staff

Alicia performed site inspections, interviews, and collected air samples to be analyzed for various air pollutants and molds including formaldehyde, penicillium, aspergillus, cladosporium, and stachybotry. She prepared reports summarizing findings and made recommendations.

Veteran's Administration of Puget Sound, Asbestos and Lead-Based Paint Survey | Seattle, Washington | 2009 | Project Scientist

Alicia served as the Project Scientist responsible for hazardous building material assessments, specifically asbestos and lead-based paint. These services were required as part of the pre-design tasks for this project. Over 300 samples were collected over the span of four days culminating in a final hazardous building materials report to be incorporated into the facility design as well as demolition activities once the construction phase of the

\* denotes projects completed with other firms

project commences.

**Interim Remedial Action, Indoor Air Sampling, and Sub-Slab Soil Gas Sampling | Sunnyvale, California | 2004–2014 | Task Manager and Field Support**

Alicia conducted an indoor air sampling survey using air sampling pumps, dosimeter badges, and flame ionization detector (FID) during a sump excavation. She performs semi-annual sub-slab soil vapor sampling and indoor air quality surveys using summa canisters. She assists with the preparation and submittal of reports summarizing the findings and provides recommendations to the local regulatory agency. Role: Indoor Air Sampling Survey | Cost: Unknown | Dates involved: 09/2004-09/2014

**Lead Dust Assessment and Abatement Oversight | Fremont, California | 2009 | Technical Support**

Alicia assisted with the evaluation of lead dust in an industrial facility. A total of 307 dust wipe samples were collected in order to evaluate the potential presence of lead dust throughout the two-story, 500,000 square foot manufacturing building. Role: Technical Support | Cost: Unknown | Dates involved: 01/2009-03/2009

**Former Tesoro Coke Facility, Asbestos, Lead-Based Paint Survey | Pittsburg, California | Technical Support**

Alicia assisted with an asbestos and lead paint survey of 20 structures at the facility ultimately scheduled for demolition. More than 200 samples were collected over the span of two days. She prepared a report for demolition while also providing the information needed for worker safety during demolition activities at the facility. Role: Technical Support | Cost: Unknown | Dates involved: 04/2009-04/2009

**State of California General Services, Asbestos and Lead-Based Paint Survey | Southern California | 2014-2019 | Certified Asbestos Consultant**

Alicia conducted with site inspections for asbestos and lead-based paint at multiple bridges, maintenance stations, and roadways throughout Southern California. The scope of work involved sample collection for asbestos and lead-based paint that would require special handling and disposal. She assisted with the review and approval of reports summarizing findings. Role: Certified Asbestos Consultant | Cost: Unknown | Dates involved: 9/2014-10/2019

**Confidential Client, Asbestos and Lead-Based Paint Survey | Multiple Sites, California | Task Manager and Certified Asbestos Consultant**

Alicia conducts pre-demolition asbestos and lead paint surveys of structures ultimately scheduled for demolition. She prepared a report for demolition while also providing the information needed for worker safety during demolition activities at the facility. Role: Task Manager and Certified Asbestos Consultant | Dates involved: 2006 - present

## **PERMITTING, COMPLIANCE, AUDITING**

**Tesoro Refinery, Initial Study\* | Benicia, California | 2005 | Staff**

Alicia assisted with the background research and preparation of applicant-prepared initial study for the

upgrade of a refinery.

**Transmission Line Upgrade\* | San Mateo to San Francisco, California | 2005 | Environmental Research and Compliance Staff**

Alicia supported the environmental compliance program for the construction of a 27-mile 230 kV underground and overhead transmission line. She assisted with the preparation and submittal of variance requests, extra work space requests, and daily and weekly reports for submittal to the California Public Utilities Commission. She also conducted research and assisted with training and report preparation.

## **REMEDIAL INVESTIGATIONS & ASSESSMENTS**

**California Department of Transportation Portfolio | Multiple Sites, Northern California and Southern California, California | 2008-2019 | Task Lead Manager**

Alicia prepared quarterly groundwater monitoring reports, subsurface investigation reports, sensitive receptor surveys, and preferential pathway studies for various California Department of Transportation locations throughout Northern California. She assisted with the utility locating, work plan preparation, field coordination, archived data onto the State Water Resource Control Board's (RWQCB) Geotracker electronic filing system. Alicia currently conducts site inspections for asbestos, lead-based paint, and hazardous materials for bridges, salt barns, and maintenance buildings associated with California Department of Transportation locations throughout Southern California. The scope of work involves sample collection for asbestos and lead-based paint that would require special handling and disposal. She assists with the preparation of reports summarizing findings. Role: Task Lead Manager | Cost: Unknown | Dates involved: 06/2008-02/2019

**Soil Gas Sampling and Human Health Risk Assessment | San Jose, California | 2014 | Project Lead**

Alicia performed a soil vapor survey in conformance with the DTSC Advisory Active Soil Gas Investigations, using soil vapor sampling devices and a mobile laboratory for onsite chemical analysis. She also assisted with the report preparation summarizing the findings and providing recommendations for further assessment. Role: Task Lead Manager | Cost: Unknown | Dates involved: 2014

**Confidential Clients, Phase I Environmental Site Assessments | Multiple Sites, California, Arizona, New Mexico, Texas, Virginia | Task Manager**

Alicia performs Phase I Environmental Site Assessments for multiple confidential clients in accordance with the practices identified in the American Society for Testing and Materials (ASTM) Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process, ASTM Designation E 1527-13; ASTM E 1527-21; and Standard Practice for Environmental Site Assessments for Forestland or Rural Property, ASTM Designation E 2247-16 to achieve compliance with requirements of the "All Appropriate Inquiries" rule required to obtain protection from liability under the federal Comprehensive Environmental Response, Cleanup and Liability Act (CERCLA). Previous sites include large industrial warehouses, multi-tenant

\* denotes projects completed with other firms

commercial buildings, large lots of vacant land, and residential properties. She reviews topographic maps, Sanborn Fire Insurance Maps, and files at local regulatory agencies. She interviews present and former property owners and performed site and adjacent property reconnaissance. She prepares reports summarizing the findings and provides recommendations for further assessment if applicable. Role: Task Lead Manager | Cost: \$3,000-8,000 per report. | Dates involved: 2006-present

**Goodyear Portfolio | California and Hawaii | 2005–2020 | Project Lead**

Alicia performed Phase I Environmental Site Assessments (ESA) and Phase II Site Assessments for various Goodyear Tire & Rubber Company locations throughout California and Hawaii. She assisted with the installation of monitoring wells and exploratory borings; underground storage tank removals; site restoration; product removal with passive recovery system; archived data onto the State Water Resource Control Board's Geotracker electronic filing system; and assisted with the preparation of quarterly groundwater monitoring reports, sensitive receptor surveys, site conceptual models, and subsurface investigation reports. Approximately 250 Sites

- Cost: \$8,000 per site.



## Jenny Alvarado

Project Biologist  
9 years of experience

A wildlife biologist who specializes in the avian and botanical fields, Jenny performs threatened and endangered species surveys, protocol nesting bird surveys, biological resource assessments, habitat characterization surveys, and restoration monitoring across Southern California. Jenny has prepared permit applications for CDFG Streambed Alteration Agreements (CDFG Section 1600), Regional Water Quality Control Board Water Quality Certifications (Clean Water Act Section 401), and U.S. Army Corps of Engineers Permits (Clean Water Act Section 404). Jenny is also experienced with California Environmental Quality Act and National Environmental Policy Act compliance. Although her background is mainly avian biology, she has experience identifying mammals, reptiles, and aquatic species. She performs compliance monitoring for a wide array of clients, including Southern California Gas Company, Plains All American Pipeline, and Caltrans. She assists in preparing Initial Studies, Mitigated Negative Declarations, Environmental Assessments, and Environmental Impact Reports for a variety of land uses. Additionally, she has experience assisting with asbestos and lead building surveys in California and Hawaii.

### EDUCATION

Ecology, Zoology, Ornithology, Santa Barbara City College, Santa Barbara, California, 2011  
BA, Physical Anthropology, University of California, Santa Barbara, Santa Barbara, California, 2008  
AA, Liberal Arts, Ventura College, Ventura, California, 2005

### CERTIFICATIONS & TRAINING

Asbestos Building Inspector Initial, Natec International, Inc., Thousand Oaks, California, 2016  
Asbestos 40-Hr Contractor/Supervisor, Natec International, Inc., Thousand Oaks, California, 2016  
CPR and First Aid Certification, American Red Cross, Port Hueneme, California, 2015  
California Plant Family Identification Workshop, California Native Plant Society, Ojai, California, 2015  
40-Hr HAZWOPER, OSHA, Temecula, California, 2015  
Desert Tortoise Field Techniques Workshop, Desert Tortoise Council, Ridgecrest, California, 2014

Metrolink Contractor Safety Railroad Training, Metrolink, Pico Rivera, California, 2014

10-Hr Industrial Safety Training, OSHA, Ventura, California, 2014

### REGISTRATIONS

Certified Erosion, Sediment and Storm Water Inspector #1586, Certified Inspector of Sediment and Erosion Control

Certified Erosion, Sediment and Storm Water Inspector #1586, CISEC, Inc., 6/30/2018

### PROJECT EXPERIENCE

#### WILDLIFE BIOLOGY

Los Angeles County Beaches and Harbors Beach Berm Construction\* | Los Angeles County, California | Snowy Plover Monitor

Jenny conducted snowy plover monitoring on five Los Angeles County beaches during berm construction and deconstruction. Daily monitoring reports were submitted to the County.

United Water District, Least Tern Surveys\* | United Water Conservation District | Saticoy, California | Biologist

Jenny conducted weekly least tern surveys over two nesting seasons at the United Water facility. She drafted the final results report for the District.

McGrath State Beach Tidewater Goby and Water Quality Monitoring\* | California Department of Fish and Wildlife | Ventura, California | Biologist

Jenny conducted daily tidewater goby sein netting surveys and relocation for an emergency construction project in the Santa Clara River estuary. She also performed daily water quality sampling and invasive species removal.

Ormond Beach Snowy Plover and Least Tern Surveys\* | California Department of Fish and Wildlife | Ventura, California | Biologist

Jenny conducted protocol nesting bird surveys for the snowy plover and least tern within protected enclosures. Nesting behaviors, nest location, and young were tracked, documented and monitored throughout the nesting season.

California State University Channel Islands, Least Bell's Vireo Surveys\* | California State University Channel Islands | Camarillo, California | Biologist

Jenny conducted least Bell's vireo surveys on the CSUCI campus for one nesting season, and assisted in preparation of final reporting.

**Special-Status Species Surveys\* | Recurrent Energy | Kern County, California | Biologist**

Jenny conducted desert tortoise, burrowing owl and kit fox surveys for several solar projects across Kern County.

**Stantec Architecture, FedEx Construction Site Burrowing Owl Survey | Bloomington, California | Biologist**

Jenny performed a pre-construction special status species survey as well as burrowing owl presence/absence surveys in support of a proposed expansion project at a FedEx Ground facility. While conducting the survey, Jenny observed one burrowing owl within the proposed project area and helped coordinate additional protocol surveys in accordance with the project's mitigation requirements.

**Luis Oasis Senior Center, Biological Constraints Analysis | Orcutt, California | Biologist**

Jenny performed a field reconnaissance survey to document existing site conditions, the potential for sensitive biological resources, and took an inventory of protected native trees. Jenny also drafted the Biological Constraints Analysis Report for the project.

**Town Building and Development, ISBA | Ventura County, California | Biologist**

Jenny performed a field reconnaissance survey and prepared an ISBA to document existing habitat conditions and the potential for sensitive biological resources in accordance with County of Ventura ISBA requirements.

**Algonquin Power, SKIC 10 Solar Project San Joaquin Kit Fox, Burrowing Owl, Nesting Bird and Wildlife Clearance Surveys | Bakersfield, California | Biologist**

Jenny performed San Joaquin kit fox, burrowing owl, nesting bird, and wildlife clearance surveys prior to project construction.

**Comstock Homes, Burrowing Owl Surveys | Camarillo, California | Biologist**

Jenny prepared a proposal and conducted burrowing owl presence/absence surveys for a residential development project in Camarillo. She also concurrently performed a nesting bird survey of the project area and prepared a report of the results.

**ENVIRONMENTAL MONITORING**

**Pipeline Safety Enhancement Plan\* | Southern California Gas Company | Ventura and Los Angeles Counties, California | Lead Environmental Monitor**

Jenny conducted environmental monitoring for several gas pipeline replacement projects. She monitored biological resources, storm water and air quality, hazardous waste control, and cultural and archaeological resources, as well as performing water and polychlorinated biphenyl sampling. She also conducted pre-construction surveys, prepared project reports, and compliance monitoring documents.

**Caltrans Bridge Replacement Project\* | Santa Barbara, California | Biologist**

Jenny conducted the biological monitoring for two bridge replacements that required monitoring stream diversion installation and removal. She performed aquatic species surveys, nesting bird surveys, and water diversion as well as general construction compliance monitoring.

**Biological Monitoring, Line 63 Pipeline Replacement Project | Plains All American Pipeline Company | Castaic, California | Biologist**

Jenny conducted biological and restoration monitoring of a petroleum pipeline replacement within the Angeles National Forest. She conducted sensitive species clearance surveys prior to daily construction activities and monitored habitat restoration and Best Management Practices (BMP) installation.

**Plains All American Pipeline Drilling Project | Posey Canyon, Angeles National Forest, California | Biologist**

Jenny provided biological resource monitoring, and nesting bird and wildlife surveys for a drilling project in the Angeles National Forest.

**Riparian Habitat Assessment, Line 63 Replacement Project | Plains All American Pipeline Company (PAALP) | Santa Clara River, Los Angeles County, California | Biologist**

Jenny was approved by CDFW as a qualified biological monitor and conducted environmental compliance monitoring for installation of a pipeline through the Santa Clara River via Horizontal Directional Drilling (HDD). During monitoring of construction activities Jenny also surveyed for potential frac- out during HDD operations.

**Carpinteria Sanitary District, Carpinteria Creek Aquatic Species Surveys and Horizontal Direction Drilling (HDD) Monitoring | Carpinteria, California | Biologist**

Jenny conducted pre-construction aquatic surveys within Carpinteria Creek for red-legged frog, southwestern pond turtle, tidewater goby, and two-striped garter snake. She also provided biological construction monitoring during HDD construction activities within the creek. Jenny detected a frac-out and was able to prevent any frac-out material from entering Carpinteria Creek by promptly alerting project personnel.

**Phillips 66 Pipeline Biological Monitoring Project | Phillip 66 Pipeline LLC | Arroyo Grande, California | Biologist**

Jenny conducted environmental compliance monitoring for a 5.6 mile pipeline project that crossed the Arroyo Grande Creek and an additional tributary. The project entailed dewatering a 70- foot section of creek and replacing a portion of pipeline underneath. Jenny also conducted SWPPP inspections for the entire project.

## **STREAM/RIVER RESTORATION**

California State University Channel Islands, Restoration Monitoring\* | Camarillo, California | Biologist

Jenny conducted quarterly and annual qualitative and quantitative monitoring for a creek restoration site on CSUCI campus. She also prepared quarterly status memos and annual restoration monitoring reports in accordance with agency requirements.

Restoration Monitoring\* | City of Santa Barbara | Santa Barbara, California | Biologist

Jenny performed quarterly and annual qualitative and quantitative monitoring for two bridge projects over Mission Creek. She prepared annual restoration monitoring reports in accordance with agency requirements.

## **BOTANICAL SURVEYS**

California State University Channel Islands, Vegetation Mapping\* | California State University Channel Islands | Camarillo, California | Biologist

Jenny conducted vegetation habitat mapping on CSUCI campus and prepared survey results reports.

Oak Tree Inventory and Vegetation Mapping\* | Confidential | Castaic, California | Biologist

Jenny conducted oak tree inventories for several hundred trees and prepared vegetation habitat maps for three adjacent parcels.

High Speed Rail Special-Status Floral Surveys\* | Tehachapi, California | Biologist

Jenny conducted focused, rare plant surveys for a portion of a high-speed rail project through Tehachapi.

## **NATURAL RESOURCE DAMAGE ASSESSMENT AND OIL SPILL RESPONSE**

Habitat Restoration Monitoring, Refugio Oil Spill | Plains All American Pipeline Company | Goleta, California | Biologist

Jenny conducted restoration monitoring and assisted with habitat assessments at multiple sites along the California coast following spill cleanup response efforts.

## **ASBESTOS, LEAD BASED PAINT, AND HAZARDOUS MATERIAL (MERCURY, PCB) ASSESSMENTS**

Asbestos and Lead Surveys | Hawaii | Environmental Scientist

Jenny assisted with asbestos and lead surveys for several multi-story buildings for a confidential client. The surveys included exterior and interior sampling, mapping, and reporting. Additionally, inventories of hazardous materials were taken, including potential mercury and PCB-containing materials.

Asbestos and Lead Surveys | Westlake and Thousand Oaks, California | Environmental Scientist

Jenny assisted with asbestos and lead surveys for several shopping centers for a confidential client. The surveys included exterior and interior sampling, mapping, and reporting. Additionally, inventories of hazardous materials were taken, including potential mercury and PCB-containing materials.

## **PUBLICATIONS**

A VanDwerwarker, J Alvarado, P Webb. *Analysis and Interpretation of Intrasite Variability in Paleoethnobotanical Remains: A Consideration and Application of Methods at the Ravensford Site, North Carolina. In: Method and Theory in Paleoethnobotany.*, 2014.



---

Kyle has more than 28 years of professional experience—17 of those years with Stantec—providing geotechnical and environmental consulting. During the course of his experience, he has been involved with a wide variety of geological and engineering projects. He has been in direct charge of quality control/quality assurance (QA/QC) work for Stantec and previous firms for geological, engineering geological, and environmental services primarily in California. Additionally, Kyle has been a primary contact for Stantec with many different clients (including multi-party actions) and regulatory bodies involving contracting, workplan approvals, site assessments and closures, permitting, remedial action, and litigation support. With regard to litigation services, Kyle has extensive experience providing expert witness testimony, second-party review, and litigation support and analysis.

Kyle's extensive experience includes assessment and remediation of property-specific and regional issues involving soil and groundwater contaminated with petroleum hydrocarbons, chlorinated solvents, heavy metals, pesticides, and PCBs.

He currently serves as the managing principal geologist in Stantec's Redlands, California office.

## **EDUCATION**

Engineering Geology/Hydrogeology, California State University, Los Angeles, California, 1984

AS, General Science, Crafton Hills College, Yucaipa, California, 1975

BS, Geological Sciences, California State University, Long Beach, California, 1982

## **REGISTRATIONS**

Certified Engineering Geologist #1271, State of California Issued 1985, Expires 2011

Professional Geologist #4066, State of California Issued 1985, Expires 2011

## **PROJECT EXPERIENCE**

### **Bioremediation**

#### **Excavation and Treatment of Petroleum-Contaminated Soil**

Kyle designed the excavation and treatment of 45,000 cubic yards of petroleum-contaminated soil. Soil treatment included utilizing vapor extraction, combined with bioremediation.

*\* denotes projects completed with other firms*

## Kyle D. Emerson PG, CEG

Managing Principal Geologist

---

### **Chemicals & Polymers**

#### **Two Former Chemical Plants, Environmental Site Assessments and Remediation, Vernon, California**

Mr. Emerson was part of the team for conducting Phase I and Phase II Environmental Site Assessments (ESA) and developing remedial action plans for two former chemical plant sites with 80-year industrial histories. Phase I ESAs used historical files, maps, aerial photographs, available documents, and data from public agencies and historical directories for identifying recognized environmental concerns. Extensive Phase II ESA survey activities aided in identifying below-grade structures such as vaults/USTs, as well as assessing the extent of influence and nature of the contamination. These investigations confirmed the presence of heavy metals, petroleum hydrocarbons, volatile organic compounds, polychlorinated biphenyls, radioactive materials, semi-volatile organic compounds, and polycyclic aromatic compounds in the soils for these sites. Specific areas of concern included former settling ponds, a bone yard, maintenance areas, transformer and substations, wastewater treatment facilities, and above-ground storage tank farms. A conceptual model was developed for use in a health risk assessment and developed risk-based corrective actions to address potential health and environmental concerns. He assisted with the development and implementation of a remedial action plan, combined administrative controls, engineering controls, and active remediation; this resulted in the cost-effective return of one site to active use, and is reducing health risks to occupants and the public at the second site.

#### **CONFIDENTIAL: Aerospace Adhesives and Coatings Plant, Glendale, California**

Mr. Emerson was part of the team that conducted feasibility studies to evaluate remedial alternatives for remediation of chlorinated VOCs, 1,4 dioxane, and hexavalent chromium (CrVI) in soil, soil vapor, and groundwater. Feasibility studies included groundwater pump testing, benchscale column testing to evaluate in situ alternatives for reducing CrVI to the less mobile CrIII valence state, soil vapor extraction, capping, and excavation. Field pilot studies were performed to evaluate the efficiency of various CrVI reductants including the use of ferrous sulfate, calcium polysulfide, emulsified oil, and fructose. Extensive multi-depth soil vapor testing was conducted to evaluate the distribution of VOCs in the subsurface and to support vapor intrusion risk assessment. Feasibility studies were completed in 2008. Remedial actions are expected to be completed in 2011.

### **Condition Assessments**

#### **Assessment and Mitigation of Manufacturing Facility**

Kyle managed the assessment and mitigation of an ammunition manufacturing facility covering 1,100 acres in a complex geologic environment. The contaminants involved red and white phosphorous, TNT, chlorinated solvents, solid wastes, and live ordinance.

#### **Soil Contamination Assessment Supervision and Management**

Kyle managed and supervised soil contamination assessment and in-situ remediation of heavy metals involving chromium, cadmium, nickel and zinc by chemical fixation to depths in excess of 40 feet below ground surface beneath existing structures within several manufacturing facilities.

\* denotes projects completed with other firms

## Kyle D. Emerson PG, CEG

Managing Principal Geologist

---

### **Litigation Support and Expert Testimony**

Kyle provided litigation support and expert testimony on more than 20 separate projects involving service stations, chlorinated solvent cases, heavy metal, and semi-volatile releases.

### **Corporate / Office**

#### **Commercial Developer - Environmental Remediation of Former Dry Cleaners, El Centro, California**

Mr. Emerson was responsible for assessments and remediation at this former dry cleaners which released the dry cleaning chemical tetrachloroethene (PCE) to the ground and underlying groundwater. The work included initial site assessment, agency interaction and negotiations with the California Regional Water Quality Control Board (CRWQCB), and Colorado Basin Region human health risk assessment (HHRA), design and implementation of remedial investigations, feasibility studies, remedial action plans, and implementation of remediation in mitigating chlorinated solvent contamination in vadose and saturated zones at concentrations indicative of DNAPL. The results of the completed remediation, as well as continued confirmation sampling and monitoring, allowed the CRWQCB to issue site closure in 2008. The site has since been redeveloped into a new commercial development.

### **Environmental Assessments**

#### **Siting Studies**

Kyle performed initial siting studies for potential Class I, II, and III landfills. The project included detailed geologic mapping, hydrogeological studies, and permeability studies of caps and liners.

### **Environmental Site Remediation**

#### **Assessment and Remedial Design, California (Project Supervisor)**

Kyle supervised the assessment and remedial design of a system to eliminate salt brine contamination in shallow perched water horizons in the Yucaipa, San Bernardino, and Riverside areas of southern California.

#### **Design and Installation of Recovery Systems\***

Kyle designed and installed numerous free-product recovery systems that successfully recovered product. One of the sites contained product up to 11-feet thick covering more than three city blocks. The dissolved phase had affected a multi-aquifer system and a public drinking water system.

#### **Geophysical Characterizations\***

Kyle performed and supervised numerous geophysical characterizations to determine the extent of old landfills. He provided classification studies, landfill gas monitoring, removal verification during grading, methane collection and mitigation plans, permitting, and closure plans.

#### **Domestic Landfill Development\***

Kyle designed and supervised the dynamic consolidation of a domestic landfill for development. He used this process to minimize expected settlement to overlying structures. Kyle designed commercial developments on closed landfills that involved complex methane collection and monitoring systems and building settlement controls.

\* denotes projects completed with other firms

## Kyle D. Emerson PG, CEG

Managing Principal Geologist

---

### **Clay Borrow Site Studies**

Kyle performed more than 10 separate clay borrow site studies for determining sources of material to cap landfills; ranged from a 20-acre dry lakebed to a 450-acre parcel in complex folded marine sediments.

### **Assessment, Clean Up, and Regulatory Support Management, Santa, Monica (Project Manager)**

Kyle managed the assessment, clean up, and complex regulatory support of a PRP site in an MTBE case (Charnock subbasin). His work involved more than 20 environmental professionals working full time for two years to complete the assessment and clean up mandated by the regulatory agencies.

### **Hazardous Waste**

#### **San Gabriel Valley Superfund Site, Remediation & Closure of Multiple Source Areas, Industry, California**

Mr. Emerson performed feasibility studies to evaluate appropriate and relevant remedial alternatives to mitigate constituents of concern in five AOCs contaminated with chlorinated hydrocarbons, heavy metals, petroleum fuel, and cutting oils. Ultimately, a combination of remedial alternatives was implemented that included large-diameter auger excavation to 45 feet to minimize impacts on facility operations, vapor extraction, vapor intrusion risk assessment, deed restriction, and monitored natural attenuation. At the completion of remedial actions, confirmation soil, soil vapor, and groundwater sampling were conducted and followed with risk assessment to demonstrate that remedial objectives had been achieved. No further action was recently granted by the US EPA and Los Angeles Regional Water Quality Control Board.

### **Mixed-Use**

#### **Port of San Diego Rohr Facility, Chula Vista, California**

Mr. Emerson assisted in a detailed subsurface assessment of the Rohr facility. The intent of the assessment was to evaluate the 40-acre former aircraft part manufacturing facility for acquisition by the Port of San Diego for redevelopment into a business park and entertainment complex. The assessment identified the presence of soil, soil vapor, and groundwater impacts by petroleum hydrocarbons, VOCs, heavy metals, PCBs, and semi-volatile organic compounds. He utilized many sampling techniques to assess the limits and concentrations of contaminants in the subsurface. Ultimately, the team was able to develop a cost estimate for potential remedial action cost associated to corrective action to allow redevelopment.

#### **Master Planned Commercial/Residential Redevelopment Project, Whittier, California (Project Manager)**

Kyle oversaw the assessment of 26 contiguous properties that are part of a 21-acre master planned commercial/residential redevelopment project. The properties included industrial facilities, platting lines, fuel USTs, and metal processing plants, among others. The estimated cleanup costs are approximately \$2 million.

\* denotes projects completed with other firms

## Kyle D. Emerson PG, CEG

Managing Principal Geologist

---

### **Multi-Unit / Family Residential**

#### **Residential Development Assessment, Ventura, California (Project Director)**

Kyle directed an assessment of a 40-acre former agricultural property proposed for residential development. Pesticides were identified above hazardous waste levels and preliminary remediation goals established by the U.S. Environmental Protection Agency. Through corrective grading methods and onsite placement of the pesticide impacted soils, all material were re-used on site without offsite disposal. The overall cost savings for the client was more than \$1 million. Total cost was less than \$250,000 for all necessary activities.

### **Oil & Gas**

#### **Oil Field Site Assessments\***

Kyle performed site assessments at oil field leases involving refineries, bulk storage areas, piping systems and wellhead, and drilling mud pit contamination.

#### **Environmental Protection Agency Superfund Action, Culver City, California (Project Manager)**

Kyle served as the project manager representing a major oil company in the assessment, remedial action, and litigation support in a multi-party contamination case affecting a City water supply. The assessment involved more than 250 continuous core borings up to 100 feet, as well as extensive remedial actions. The total cost for all related activities was \$22 million. The case is settled and the closure of the site is pending.

### **Project Management**

#### **Liability and Property Management Consulting Services**

Kyle is providing liability and property management consulting services to more than 10 medium to large property development firms in the US. His work involves property transaction assessments, contract review, acquisition guideline development, liability management evaluation, insurance acquisition, and strategic planning.

### **Residential Development**

#### **Environmental Development Management and Review (Project Manager)**

Kyle manages and reviews environmental development issues for a large residential developer specializing in development of contaminated industrial properties by providing innovative solutions in developing contaminated properties for residential use through risk assessment, engineering, and administrative and property development controls.

### **Site Management and Remediation**

#### **Design and Implementation of Biodegradation Programs\*, California**

Kyle designed and implemented one of the first in-situ biodegradation programs in California; it involved 50,000 cubic yards of diesel-contaminated soils, and groundwater to depths of 70 feet below ground surface.

\* denotes projects completed with other firms

## Kyle D. Emerson PG, CEG

Managing Principal Geologist

---

### **Soil and Groundwater Remediation Systems Soil and Groundwater Contamination Assessments and Mitigation\*, California (Project Manager)**

Kyle managed numerous chlorinated solvent soil and groundwater contamination assessments and mitigation programs in southern California. The projects involved releases that impacted soil and groundwater to depth of groundwater more than 700 feet in multi-aquifer systems. One case involved with plume dimensions more than 1 mile from the source affecting residential properties.

### **Soil and Groundwater Assessment and Remediation Programs\***

Implemented hundreds of soil and groundwater assessment and remediation programs at various service station facilities in Southern and Northern California, and Nevada. Work involved assessment, remedial design, installation, maintenance and monitoring. Closure has been received on a majority of these sites.

### **Assessment and Remediation Management\***

Kyle managed the assessment and remediation of soil and groundwater manufacturing at dry cleaning facilities contaminated with chlorinated solvents.

### **Warehouse / Light Industrial**

#### **Glendale Redevelopment Project, Glendale, California (Project Manager)**

Kyle managed the assessment and remedial actions during the redevelopment of an industrial property. The project involved the demolition of a historic manufacturing facility and a commercial dry cleaner. Each of these facilities were associated with releases of solvents and petroleum hydrocarbons. Remedial actions involved excavation by pattern drilling and off site disposal along with removal of former USTs. The total cost of remediation and assessment was \$450,000.00.

#### **Compton Redevelopment Project, Compton, California (Project Manager)**

Kyle is serving as project manager for the assessment and remedial actions for a large redevelopment project. The project involves the redevelopment of a historic manufacturing facility and a former dry cleaner. Each of these facilities were associated with releases of solvents and petroleum hydrocarbons. The industrial facility was also associated with significant volumes of buried waste that required removal and disposal. These wastes also included the chemical referenced above, as well as PCBs and heavy metals. Remediation has included excavation, vapor extraction, and chemical fixation. The total cost of this project has been \$2.8 million to date.

\* denotes projects completed with other firms

**Kyle D. Emerson** PG, CEG

Managing Principal Geologist

---

## **PUBLICATIONS**

In-Situ Bioremediation of an Underground Diesel Fuel Spill: A Case Study. Environmental Management, 1989.

## Appendix C USER PROVIDED RECORDS





**Recording Requested By:**

Integris/Millennium Joint Venture LLC,  
A California Limited Liability Company

**When Recorded, Mail To:**

Loretta K. Barsamian, Executive Officer  
California Regional Water Quality Control Board  
San Francisco Bay Region  
1515 Clay Street, Suite 1400  
Oakland, California 94612



**COVENANT AND ENVIRONMENTAL RESTRICTION  
ON PROPERTY**

**3695-3723 Haven Avenue  
Menlo Park, California**

This Covenant and Environmental Restriction on Property (this "Covenant") is made as of the 9th day of Aug., 1999 by Integris/Millennium Joint Venture LLC ("Covenantor") who is the Owner of record of that certain property situated at 3695-3723 Haven Avenue, in the City of Menlo Park, County of San Mateo, State of California, which is more particularly described in Exhibit A attached hereto and incorporated herein by this reference (such portion hereinafter referred to as the "Burdened Property"), for the benefit of the California Regional Water Quality Control Board for the San Francisco Bay Region (the "Board"), with reference to the following facts:

A. **The Burdened Property and groundwater underlying the property contain hazardous materials.**

B. **Contamination of the Burdened Property.** It is believed that certain industrial operations caused soil and groundwater at the Burdened Property to be contaminated with halogenated volatile organic compounds, including trichloroethene and vinyl chloride, which constitute hazardous materials as that term is defined in Health & Safety Code section 25260. To mitigate potential exposure to such chemicals, soil excavation, in-situ chemical oxidation, if feasible, and institutional controls, including this Covenant, are to be implemented.

C. **Exposure Pathways.** The contaminants addressed in this Covenant are present in soil and groundwater on the Burdened Property. Without the mitigation measures described above, exposure to these contaminants could take place via direct contact, resulting in dermal exposure, inhalation, or ingestion by humans. The risk of public exposure to the contaminants has been and will be substantially lessened by the remediation and controls described herein.

D. **Adjacent Land Uses and Population Potentially Affected.** The Burdened Property is currently vacant but has been used for industrial and commercial uses, and is adjacent to industrial and commercial land uses.

E. Full and voluntary disclosure to the Board of the presence of hazardous materials on the Burdened Property has been made and extensive sampling of the Burdened Property has been conducted.

F. Covenantor desires and intends that in order to benefit the Board, and to protect the present and future public health and safety, the Burdened Property shall be used in such a manner as to avoid potential harm to persons or property that may result from hazardous materials that may have been deposited on portions of the Burdened Property.

## ARTICLE I

### GENERAL PROVISIONS

1.1 Provisions to Run with the Land. This Covenant sets forth protective provisions, covenants, conditions and restrictions (collectively referred to as "Restrictions") upon and subject to which the Burdened Property and every portion thereof shall be improved, held, used, occupied, leased, sold, hypothecated, encumbered, and/or conveyed. The restrictions set forth in Article III are reasonably necessary to protect present and future human health and safety or the environment as a result of the presence on the land of hazardous materials. Each and all of the Restrictions shall run with the land, and pass with each and every portion of the Burdened Property, and shall apply to, insure to the benefit of, and bind the respective successors in interest thereof, for the benefit of the Board and all Owners and Occupants. Each and all of the Restrictions are imposed upon the entire Burdened Property unless expressly stated in the Risk Management Plan, see below, as applicable to a specific portion of the Burdened Property. Each and all of the Restrictions run with the land pursuant to section 1471 of the Civil Code. Each and all of the Restrictions are enforceable by the Board.

1.2 Concurrence of Owners and Lessees Presumed. All purchasers, lessees, or possessors of any portion of the Burdened Property shall be deemed by their purchase, leasing, or possession of such Burdened Property, to be in accord with the foregoing and to agree for and among themselves, their heirs, successors, and assignees, and the agents, employees, and lessees of such owners, heirs, successors, and assignees, that the Restrictions as herein established must be adhered to for the benefit of the Board and the Owners and Occupants of the Burdened Property and that the interest of the Owners and Occupants of the Burdened Property shall be subject to the Restrictions contained herein.

1.3 Apportionment of Burden Among Multiple Owners. Where ownership of the Burdened Property is held by multiple persons, holding by several titles, the burdens imposed by this Covenant shall be apportioned between them proportionate to the value of the property held by each owner, if such value can be ascertained, and if not, then according to their respective interests in point of quantity. (Cal. Civ. Code § 1467.)

1.4 Incorporation into Deeds and Leases. Covenantor desires and covenants that the Restrictions set out herein shall be incorporated in and attached to each and all deeds and leases of any portion of the Burdened Property. Recordation of this Covenant shall be deemed binding on all successors, assigns, and lessees, regardless of whether a copy of this Covenant and Agreement has been attached to or incorporated into any given deed or lease.

1998-135815  
08/09/1999 03:24P  
DR Page: 2 of 163

1.5 Purpose. It is the purpose of this instrument to convey to the Board real property rights, which will run with the land, to facilitate the remediation of past environmental contamination and to protect human health and the environment by reducing the risk of exposure to residual hazardous materials.

## ARTICLE II

### DEFINITIONS

2.1 Board. "Board" shall mean the California Regional Water Quality Control Board for the San Francisco Bay Region and shall include its successor agencies, if any.

2.2 Improvements. "Improvements" shall mean all buildings, roads, driveways, regradings, and paved parking areas, constructed or placed upon any portion of the Burdened Property.

2.3 Occupants. "Occupants" shall mean Owners and those persons entitled by ownership, leasehold, or other legal relationship to the exclusive right to occupy any portion of the Burdened Property.

2.4 Owner or Owners. "Owner" or "Owners" shall mean the Covenantor and/or its successors in interest, who hold title to all or any portion of the Burdened Property.

2.5 Risk Management Plan. "Risk Management Plan" (also referred to herein as "RMP") shall mean that certain Plan concerning the Burdened Property, prepared by Erier & Kalinowski, Inc. and dated March 12, 1999, and any and all subsequent addenda thereto, on file with the California Regional Water Quality Control Board, San Francisco Bay Region; the San Mateo County Division of Environmental Health and the City of Menlo Park Building Department. Covenantor shall cause the RMP to be filed with the aforementioned three agencies. Owner, at the time of any addenda to the RMP, shall cause the addenda to be filed with the aforementioned three agencies. The RMP is attached hereto and incorporated herein by this reference as Exhibit B.

## ARTICLE III

### DEVELOPMENT, USE AND CONVEYANCE OF THE BURDENED PROPERTY

3.1 Restrictions on Development and Use. Covenantor promises to restrict the use of the Burdened Property as follows:

- a. Development of the Burdened Property shall be restricted to industrial, commercial or office space;
- b. No residence for human habitation shall be permitted on the Burdened Property;
- c. No hospitals shall be permitted on the Burdened Property;



d. No schools for persons under 21 years of age shall be permitted on the Burdened Property;

e. No day care centers for children or day care centers for Senior Citizens shall be permitted on the Burdened Property;

f. No Owners or Occupants of the Burdened Property or any portion thereof shall conduct any excavation work on the Burdened Property, except in strict compliance with the RMP or unless expressly permitted in writing by the Board. Any contaminated soils brought to the surface by grading, excavation, trenching, or backfilling shall be managed by Covenantor or his agent in accordance with all applicable provisions of local, state and federal law;

g. All uses and development of the Burdened Property shall be consistent with the Risk Management Plan or any applicable Board Order, each of which is hereby incorporated by reference including future amendments thereto. All uses and development shall preserve the integrity of any cap, any remedial measures taken or remedial equipment installed, and any groundwater monitoring system installed on the Burdened Property pursuant to the requirements of the Board, unless otherwise expressly permitted in writing by the Board;

h. No Owners or Occupants of the Property or any portion thereof shall drill, bore, otherwise construct, or use a well for the purpose of extracting water for any use, including but not limited to, domestic, potable, or industrial uses, unless expressly permitted in writing by the Board;

i. The Owner shall notify the Board of each of the following: (1) The type, cause, location and date of any disturbance to any cap, any remedial measures taken or remedial equipment installed, and of the groundwater monitoring system installed on the Burdened Property pursuant to the requirements of the Board, which could affect the ability of such cap or remedial measures, remedial equipment, or monitoring system to perform their respective functions and (2) the type and date of repair of such disturbance. Notification to the Board shall be made by registered mail within ten (10) working days of both the discovery of such disturbance and the completion of repairs;

j. The Covenantor agrees that the Board, and/or any persons acting pursuant to Board orders, shall have reasonable access to the Burdened Property for the purposes of inspection, surveillance, maintenance, or monitoring, as provided for in Division 7 of the Water Code;

k. No Owner or Occupant of the Burdened Property shall act in any manner that will aggravate or contribute to the existing environmental conditions of the Burdened Property. All use and development of the Burdened Property shall preserve the integrity of any capped areas;

3.2 Enforcement. Failure of an Owner or Occupant to comply with any of the restrictions, as set forth in paragraph 3.1, shall be grounds for the Board, by reason of this Covenant, to have the authority to require that the Owner modify or remove any Improvements constructed in violation of that paragraph. Violation of the Covenant shall be grounds for the Board to file civil actions against the Owner as provided by law.



3.3 Notice in Agreements. After the date of Recordation hereof, all Owners and Occupants shall execute a written instrument which shall accompany all purchase agreements or leases relating to the property. Any such instrument shall contain the following statement:

This statement is not a declaration that a hazard exists. The land described herein contains hazardous materials in soils and in the groundwater under the property, and is subject to a deed restriction dated as of July \_\_\_\_\_, 1999, and recorded on July \_\_\_\_\_, 1999, in the Official Records of San Mateo County, California, as Document No. \_\_\_\_\_, which Covenant and Restriction imposes certain covenants, conditions, and restrictions on usage of the property described herein.

#### ARTICLE IV

#### VARIANCE AND TERMINATION

4.1 Variance Any Owner or, with the Owner's consent, any Occupant of the Burdened Property or any portion thereof may apply to the Board for a written variance from the provisions of this Covenant.

4.2 Termination Any Owner or, with the Owner's consent, any Occupant of the Burdened Property or a portion thereof may apply to the Board for a termination of the Restrictions as they apply to all or any portion of the Burdened Property.

4.3 Term Unless terminated in accordance with paragraph 4.2 above, by law or otherwise, this Covenant shall continue in effect in perpetuity.

#### ARTICLE V

#### MISCELLANEOUS

5.1 No Dedication Intended. Nothing set forth herein shall be construed to be a gift or dedication, or offer of a gift or dedication of the Burdened Property or any portion thereof to the general public.

5.2 Notices. Whenever any person gives or serves any notice, demand, or other communication with respect to this Covenant, each such notice, demand, or other communication shall be in writing and shall be deemed effective (1) when delivered, if personally delivered to the person being served or official of a government agency being served, or (2) three (3) business days after deposit in the mail if mailed by United States mail, postage paid certified, return receipt requested:

*If To:* "Covenantor"

Integris/Millennium Joint Venture LLC  
Attention: Mr Loren Baxter  
16 Pulido Court



Danville, California 94526  
and

BCMW LLC  
Attention: Mr. Blair Walker  
597 Daffodil Drive  
Benicia, California 94510

If To: "Board"

Regional Water Quality Control Board  
San Francisco Bay Region  
Attention: Executive Officer  
1515 Clay Street, Suite 1400  
Oakland, California 94512

5.3 Partial Invalidity. If any portion of the Restrictions or terms set forth herein is determined to be invalid for any reason, the remaining portion shall remain in full force and effect as if such portion had not been included.

5.4 Article Headings. Headings at the beginning of each numbered article of this Covenant are solely for the convenience of the parties and are not a part of the Covenant.

5.5 Recordation. This instrument shall be executed by the Covenantor and by the Executive Officer of the Board. This instrument shall be recorded by the Covenantor in the County of San Mateo within ten (10) days of the date of execution.

5.6 References. All references to Code sections include successor provisions

5.7 Construction. Any general rule of construction to the contrary notwithstanding, this instrument shall be liberally construed in favor of the Covenant to effect the purpose of this instrument and the policy and purpose of the Water Code. If any provision of this instrument is found to be ambiguous, an interpretation consistent with the purpose of this instrument that would render the provision invalid shall be favored over any interpretation that would render it invalid.

5.8 Effective Date. This Covenant, its terms and conditions, and the burdens imposed and the benefits derived therefrom, shall become effective upon Recordation of this Covenant.

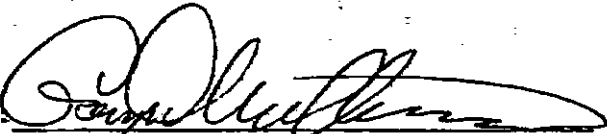
IN WITNESS WHEREOF, the parties execute this Covenant as of the date set forth above.

Covenantor:

INTEGRIS/MILLENIUM JOINT VENTURE LLC,  
A California Limited Liability Company

15888-130810  
08/09/1988 03 24P  
DR Page 6 of 153



BY:   
GARY WILLIAMS, MEMBER

DATE: 8/9/99

BY:   
GARY WILLIAMS, MEMBER

DATE: 7/6/99

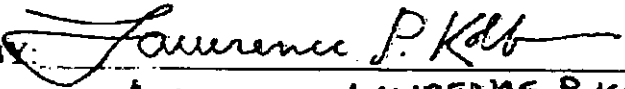
BCMW, LLC, A California Limited Liability Company

BY:   
BLAIR WALKER, MEMBER, BCMW, LLC

DATE: 7/2/99

Agency:

STATE OF CALIFORNIA  
REGIONAL WATER QUALITY CONTROL  
BOARD  
SAN FRANCISCO BAY REGION

BY:   
Acting LAWRENCE P KOLB  
TITLE: Executive Officer

DATE: 7/6/99

1999-135815  
08/09/1999 03:24P  
DR Page: 7 of 163



STATE OF CALIFORNIA

COUNTY OF ALAMEDA

)  
) SS.  
)

On July 6, 1999

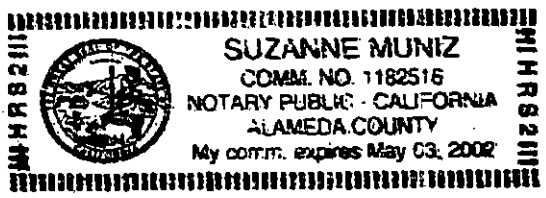
before me, Suzanne Muniz

a Notary Public in and for said County and State, personally appeared LAWRENCE P. KOIB

personally known to me (or proved to me on the basis of satisfactory evidence) to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

Suzanne Muniz  
Signature of Notary



STATE OF \_\_\_\_\_

COUNTY OF \_\_\_\_\_

)  
) SS.  
)

On \_\_\_\_\_

before me, \_\_\_\_\_

a Notary Public in and for said County and State, personally appeared: \_\_\_\_\_

personally known to me (or proved to me on the basis of satisfactory evidence) to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

\_\_\_\_\_  
Signature of Notary

1999-135818  
08/09/1999 03:24P  
DR Page: 8 of 183





**CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT**

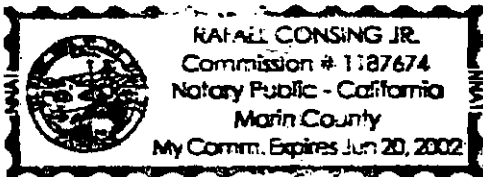
State of California }  
 County of Marin } ss.

On JULY 2, 1999, before me, RAFAEL CONSING JR  
Date Name and Title of Officer (e.g., "Jane Doe, Notary Public")

personally appeared BLAIR WALKER  
Names of Signer(s)

personally known to me  
 proved to me on the basis of satisfactory evidence

to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.



WITNESS my hand and official seal.

Rafael Consing Jr  
Signature of Notary Public

Place Notary Seal Above

**OPTIONAL**

*Though the information below is not required by law, it may prove valuable to persons relying on the document and could prevent fraudulent removal and reattachment of this form to another document.*

**Description of Attached Document**

Title or Type of Document: COVENANT, EASEMENT - RESTRICTION ON PROPERTY

Document Date: 7/2/99 Number of Pages: \_\_\_\_\_

Signer(s) Other Than Named Above: \_\_\_\_\_

**Capacity(ies) Claimed by Signer**

- Signer's Name: \_\_\_\_\_
- Individual
  - Corporate Officer — Title(s): \_\_\_\_\_
  - Partner — Limited  General
  - Attorney in Fact
  - Trustee
  - Guardian or Conservator
  - Other: \_\_\_\_\_



Signer is Representing: \_\_\_\_\_

1999-135813  
 08/09/1999 03:26P  
 DR Page 10 of 153



EXHIBIT 'A'  
LEGAL DESCRIPTION

EXHIBIT 'A'

CITY OF MENLO PARK

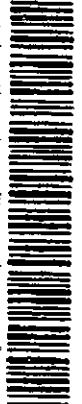
PARCELS 1 AND 2, AS SHOWN ON THAT CERTAIN MAP ENTITLED "PARCEL MAP BEING A RESUBDIVISION OF RECORD OF SURVEY RECORDED IN VOLUME 5, PAGE 89 OF LICENSED LAND SURVEYORS MAPS, BEING A PORTION OF LOT 4 SWEENEY RANCH", WHICH MAP WAS RECORDED DECEMBER 15, 1972, IN BOOK 18 OF PARCEL MAPS, AT PAGE 38, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT A CONCRETE MONUMENT MARKING THE NORTHWESTERLY CORNER OF LOT 4 AS SAID LOT IS SHOWN ON THE MAP ENTITLED, "SWEENEY RANCH SUBDIVISION", FILED IN THE OFFICE OF THE RECORDER OF THE COUNTY OF SAN MATEO ON JUNE 24, 1898, IN BOOK "C" OF MAPS, AT PAGE 36; THENCE FROM SAID POINT OF BEGINNING, SOUTH 98° 56' 15" EAST, A DISTANCE OF 2049.31 FEET; NORTH 89° 41' 15" EAST, A DISTANCE OF 1944.05 FEET; AND SOUTH 73° 03' 30" EAST, A DISTANCE OF 871.52 FEET TO THE TRUE POINT OF BEGINNING; THENCE FROM SAID TRUE POINT OF BEGINNING AND ALONG THE NORTHWESTERLY LINE OF THE LANDS CONVEYED TO HOWARD J. WHITE, III, ET AL, BY DEED RECORDED DECEMBER 17, 1968, IN BOOK 5573, AT PAGE 309, OFFICIAL RECORDS, AND ALONG THE NORTHWESTERLY LINE OF THE LANDS CONVEYED TO HOWARD J. WHITE, III, ET AL, BY DEED RECORDED FEBRUARY 17, 1969, IN BOOK 5599, AT PAGE 525, OFFICIAL RECORDS, AND THE NORTHWESTERLY LINE OF THE LANDS CONVEYED TO HUETTIG & SCHROMM INC., A CALIFORNIA CORPORATION, ET AL, BY DEED RECORDED OCTOBER 20, 1967, IN BOOK 5380, AT PAGE 521, OFFICIAL RECORDS, SOUTH 24° 13' WEST, 719.33 FEET TO THE NORTHEASTERLY LINE OF THE LANDS CONVEYED TO THE CITY OF MENLO PARK BY DEED RECORDED JUNE 28, 1963, IN BOOK 4491, AT PAGE 63, OFFICIAL RECORDS; THENCE ALONG THE LANDS SO CONVEYED TO THE CITY, EASTERLY ALONG THE ARC OF A CURVE TO THE RIGHT HAVING A RADIUS OF 10,508.50 FEET, A CENTRAL ANGLE OF 0° 42' 54", AN ARC DISTANCE OF 131.14 FEET; THENCE EASTERLY AND NORTHERLY ALONG THE ARC OF A CURVE TO THE LEFT, SAID CURVE HAVING A RADIUS OF 20 FEET, THROUGH A CENTRAL ANGLE OF 86° 36' 05", AN ARC DISTANCE OF 30.23 FEET TO THE WESTERLY LINE OF THE LANDS CONVEYED TO THE CITY OF MENLO PARK BY DEED RECORDED JUNE 26, 1963, IN BOOK 4491, AT PAGE 65, OFFICIAL RECORDS; THENCE ALONG SAID WESTERLY LINE, NORTH 24° 13' EAST, 709.88 FEET TO THE NORTHERLY LINE OF THE AFORESAID LANDS CONVEYED TO HOWARD J. WHITE, III, ET AL, BY DEED RECORDED DECEMBER 17, 1968, IN BOOK 5573, AT PAGE 309, OFFICIAL RECORDS; THENCE NORTH 73° 03' 30" WEST ALONG SAID NORTHERLY LINE, 150.89 FEET TO THE TRUE POINT OF BEGINNING.

ASSESSOR'S PARCEL NOS. 055-170-240  
055-170-250

JOINT PLANT NOS. 055-017-170-24.00A  
055-017-170-25.00A

1988-135815  
08/08/1988 03:24P  
OF Page: 11 of 189



1998-135A1B  
08/09/1998 03:28P  
DR Page 12 of 163



**EXHIBIT "B"**

**APPENDIX C**

**RISK MANAGEMENT PLAN**

**3695 - 3723 HAVEN AVENUE  
MENLO PARK, CALIFORNIA**

*Prepared by:*

**Erler & Kalinowski, Inc.  
1730 South Amphlett Blvd., Suite 320  
San Mateo, CA 94402**

**1999-135815**  
08/06/1999 03:24P  
DR Page 13 of 153



## RISK MANAGEMENT PLAN

3695 - 3723 Haven Avenue  
Menlo Park, California

### TABLE OF CONTENTS

<b>1. INTRODUCTION</b> .....	<b>1</b>
<b>1.1 Representations</b> .....	<b>1</b>
<b>1.2 Owner Responsibilities</b> .....	<b>2</b>
<b>2. SITE BACKGROUND</b> .....	<b>3</b>
<b>2.1 Site Setting</b> .....	<b>3</b>
<b>2.2 Site History</b> .....	<b>3</b>
<b>2.3 Summary of Site Investigations and Remedial Actions</b> .....	<b>4</b>
2.3.1 Documents Summary.....	4
2.3.2 Subsurface Geology .....	5
2.3.3 Hydrology .....	6
2.3.4 Chemicals of Concern Detected in Soil and Groundwater .....	6
2.3.5 Soil Remedial Actions .....	7
2.3.6 Groundwater Remedial Actions.....	7
<b>2.4 Remaining Environmental Conditions</b> .....	<b>8</b>
2.4.1 Residual Concentrations of Halogenated VOCs in Soil .....	8
2.4.2 Residual Concentrations of Halogenated VOCs in Groundwater.....	8
2.4.3 Possible Presence of Chlorinated VOCs Under Concrete Slabs.....	8
<b>3. SUMMARY OF HUMAN HEALTH RISK ASSESSMENT</b> .....	<b>10</b>
<b>3.1 Risk Calculations</b> .....	<b>10</b>
<b>3.2 Estimated Baseline Risks</b> .....	<b>11</b>
<b>3.3 Calculation of Risk-Based Action Levels for Soil and Groundwater</b> .....	<b>12</b>
<b>4. RISK MANAGEMENT DURING CONSTRUCTION</b> .....	<b>13</b>
<b>4.1 Site-Specific Health And Safety Worker Planning Requirements</b> .....	<b>13</b>
<b>4.2 Site-Specific Health And Safety Plans</b> .....	<b>14</b>

1999-135810  
08/09/1999 03:24P  
DR Page 14 of 163



**RISK MANAGEMENT PLAN**

3695 - 3723 Haven Avenue  
Menlo Park, California

**TABLE OF CONTENTS**

<b>4.3 Construction Impact Mitigation Measures .....</b>	<b>14</b>
<b>4.3.1 Soil Management Plan .....</b>	<b>15</b>
<i>4.3.1.1 Soil Screening Methodology During Construction.....</i>	<i>15</i>
<i>4.3.1.2 Management of Soil with Indications of VOC Contamination .....</i>	<i>15</i>
<b>4.3.2 Groundwater Management Plan.....</b>	<b>16</b>
<b>4.3.3 Use Of Construction Methods that Minimize the Potential for Creating         Vertical Conduits .....</b>	<b>16</b>
<b>4.3.4 Protection of Vapor Barrier.....</b>	<b>16</b>
<b>4.3.5 Protection of Monitoring Wells.....</b>	<b>17</b>
<b>5. DESIGN CONSIDERATIONS FOR NEW CONSTRUCTION.....</b>	<b>18</b>
<b>6. NON-CONSTRUCTION RISK MANAGEMENT .....</b>	<b>19</b>
<b>6.1 Property Manager and Tenant Notification.....</b>	<b>19</b>
<b>6.2 Maintaining Commercial/Industrial Land Use .....</b>	<b>19</b>
<b>6.3 Monitoring of Existing Buildings.....</b>	<b>19</b>
<b>6.4 Use of Site Groundwater.....</b>	<b>20</b>
<b>6.5 Establishing Protocols for Future Subsurface Activities .....</b>	<b>20</b>
<b>7. REFERENCES .....</b>	<b>21</b>

1999-135815  
08/08/99 03:24P  
DR Page 15 of 153



## **RISK MANAGEMENT PLAN**

3695 - 3723 Haven Avenue  
Menlo Park, California

### **TABLE OF CONTENTS**

#### **LIST OF TABLES**

- 1 Analytical Results for Volatile Organic Compounds in Soil
- 2 Analytical Results for Volatile Organic Compounds in Groundwater
- 3 Risk-Based Action Levels for Soil
- 4 Risk-Based Action Levels for Groundwater

#### **LIST OF FIGURES**

1. Site Location
2. Oblique View to East of Site and Vicinity, During October 1998
3. Estimated Extent of Soil Excavation
4. Residual TCE Concentrations (ug/kg) Detected in Soils Between 1 and 4 Foot Depths
5. Residual Vinyl Chloride Concentrations (ug/kg) Detected in Soils Between 1 and 4 Foot Depths
6. Concentrations of TCE (ug/L) Detected in Groundwater Samples Collected from the A-Zone
7. Concentrations of Vinyl Chloride (ug/L) Detected in Groundwater Samples Collected from the A-Zone
8. Concentrations of Carbon Tetrachloride (ug/L) Detected in Groundwater Samples Collected from the A-Zone
9. A-Zone Groundwater Exceeding Risk-Based Action Levels
10. Location of Proposed and Existing Groundwater Monitoring Wells

#### **LIST OF ATTACHMENTS**

- A. Human Health Risk Assessment (Appendix A from Feasibility Study/Remedial Action Plan, dated 12 March 1999)

1 5 5 5 5 5 1 5  
08/09/1998 03:24P  
DR Page: 16 of 163



## **1. INTRODUCTION**

This Risk Management Plan is intended to address residual concentrations of chemicals of concern in environmental media at the 3695-3673 Haven Avenue property located in Menlo Park, California (the "Site"; Figure 1). The term Site, as used in this Risk Management Plan, refers to the entire property at the address 3695 -3723 Haven Avenue, Menlo Park, California and any parcels or subdivided parcels that may result from sale of portions of the current property to other owners. Mitsubishi Silicon America ("MSA"), the present owner, has made the property available for sale in whole or in part. Because current zoning of the Site is industrial, the Risk Management Plan contemplates redevelopment of the Site for a variety of industrial/commercial purposes.

The Risk Management Plan provides a decision framework to manage residual chemicals [(i.e., halogenated volatile organic compounds ("VOCs"))] in soil and groundwater at the Site in a manner that is: (1) satisfactory to the RWQCB, as lead agency, and other involved regulatory agencies with oversight authority, as required, (2) protective of human health and the environment, and (3) consistent with planned land uses. This Risk Management Plan contains the following:

- description of the Site background, including a brief history of Site usage, discussion of environmental investigations and remedial actions performed at the Site, and a summary of identified remaining environmental conditions;
- summary of the risk assessment that was conducted to evaluate potential human health impacts at the Site;
- short-term risk management plan to be implemented during construction at the Site, which includes worker health and safety planning requirements and construction impact mitigation measures; and,
- non-construction risk management plan for mitigation of potential long-term risks to human health and the environment, which includes a provision to ensure long-term compliance with this Risk Management Plan.

### **1.1 Representations**

This Risk Management Plan is based on a current understanding of environmental conditions at the Site as well as current environmental policies, laws, and regulations. If environmental conditions are found to differ from those described herein or in the environmental reports referenced in Section 2.3.1, or if environmental policies, laws, and regulations change, then the Risk Management Plan may have to be modified to accommodate those differing conditions. No representation is made by any present or future owner or developer of the Site or their consultants, agents, and contractors as to the

1999-135815  
08/05/1999 09:24P  
OR Page 17 of 183





applicability of this Risk Management Plan with respect to future environmental policies, laws, and regulations.

## **1.2 Owner Responsibilities**

All owners, developers, and any other entities with responsibility for Site activities shall have a continuing obligation to:

- determine the adequacy of this Risk Management Plan in light of the conditions actually encountered and the intended land use;
- comply with policies, laws, and regulations applicable at the time; and,
- establish a notification procedure and protocols for future sub-surface activity to ensure long-term compliance with the Risk Management Plan.

1999-125510  
08/08/1999 03:24P  
DR Page: 18 of 153



## 2. SITE BACKGROUND

This section describes the Site background, including the previous Site uses and the geology and hydrology at the Site.

### 2.1 Site Setting

The Site is located in an industrial section of east Menlo Park, adjacent to San Francisco Bay (Figures 1 and 2). Directly to the east of the Site is a channelized creek that runs to the Bay via Flood and Westpoint Sloughs. A public storage facility, salt evaporators, and Bayfront Park (the former Menlo Park landfill) are located north of the Site. West of the Site is a yard that contains used equipment and materials, and to the south, across Haven Avenue, are two-story buildings that are occupied by light industrial and commercial tenants. Figure 2 is an aerial photograph taken during early October 1998 of the Site and vicinity, prior to demolition of "Building 2".

### 2.2 Site History

The Site, as defined in Chapter 1, refers to the entire property at the address 3695 -3723 Haven Avenue, Menlo Park, California. Currently, the MSA Property is occupied by two vacant buildings ("Building 1" and "Building 3" in Figure 2) and covered by asphalt or concrete pavement with narrow planted areas along Haven Avenue.

Based on a review of historical aerial photographs performed by EKI, the MSA Property was formerly bare land with a few scattered buildings and cars prior to its development in 1969. In the 1969 aerial photograph, the MSA Property was developed with three buildings, two of which are standing as of this writing.

Based on a review of file information from the San Mateo County Department of Health Services and files provided by MSA, uses of the MSA Property have included:

- the fabrication and manufacturing of magnetic materials and electronic devices;
- manufacturing and fabrication of electronic components;
- manufacturing of polished silicon wafers;
- distribution of electronic equipment;
- warehousing and installation of automobile wheels and automotive accessories; and,
- a musical recording studio.

One of the prior tenants of the MSA Property was Siltec Corporation, a corporate predecessor to MSA. From 1970 through 1989, Siltec Corporation used the MSA



Property as manufacturing facility for polished silicon wafers, and as office space. Other more recent tenants of the MSA Property have included KOB Auto Inc., Nor Cal Tire and Wheel, Multiplex Studios, Huettig & Schromm Landscape Contractors, and BSG Associates, Inc.

During October 1998, the middle of the three buildings originally built at the Site during 1969 was demolished. The purpose of demolishing this building (Building 2) was to allow excavation of Site soils with elevated concentrations of halogenated VOCs.

### 2.3 Summary of Site Investigations and Remedial Actions

This section summarizes:

- the reports submitted to the RWQCB regarding investigative work, risk assessments, treatability studies, and work plans describing future work to be performed at the Site;
- the subsurface geology at the Site;
- the local hydrology;
- the chemicals detected in both soil and groundwater at the Site; and
- the remedial actions performed or planned for the Site.

#### 2.3.1 Documents Summary

The following documents describe the results of previous investigations and remedial, treatability, and risk assessments performed at the Site:

- *Feasibility Study and Remedial Action Plan, 3695 - 3723 Haven Avenue, Menlo Park, California, Erler & Kalinowski, Inc., 10 March 1999 (EKI 1999a)*
- *In Situ Chemical Oxidation Bench-Scale Treatability Test Results, 3695-3723 Haven Avenue, Menlo Park, California, Erler & Kalinowski, Inc., 8 January 1999 (EKI 1999b)*
- *Revised Risk Calculations and Cleanup Goals for Source Area Soil Excavation, 3695-3723 Haven Avenue, Menlo Park, California, Erler & Kalinowski, Inc., 12 February 1999 (EKI 1999c)*
- *Results of Sampling and Analysis, 3645 and 3665 Haven Avenue, Menlo Park, California, Erler & Kalinowski, Inc., 30 June 1998 (EKI 1998a)*
- *Results of Sampling and Analysis, Vicinity of 3695-3723 Haven Avenue, Menlo Park, California, Erler & Kalinowski, Inc., 28 October 1998 (EKI 1998b)*



Directly underlying the A-zone are sediments that are generally coarser grained, consisting of sand and gravel. For the purposes of this report, these sediments that occur between approximately 15 and 38 feet bgs are referred to as the "B-zone".

### 2.3.3 Hydrology

During the on-Site and off-Site investigations, selected groundwater samples from borings and monitoring wells were measured for density, total dissolved solids, and chloride. The purpose of collecting such data for groundwater was to allow generalized mapping of the various water bodies that are present along the bay margin: fresh water, salt water associated with the Bay, and brines associated with the evaporation ponds. The available data indicate that brines have apparently leaked from salt evaporation ponds and have intruded primarily into the B-zone. Landward incursion of brines is pronounced beneath the Site as well as at the adjacent Fedex Facility to the east. It appears that the presence of brines in the subsurface has served as a barrier, limiting off-Site migration of chemicals of concern (see Section 2.3.4).

During drilling at the Site, groundwater has been encountered in the subsurface at depths of approximately 8 to 11 feet bgs in fine-grained sediments of the A-zone (EKI 1997a). During October 1998, the piezometric surface for the A-zone occurred at elevations of approximately 0.8 to 1.2 feet relative to the National Geodetic Vertical Datum 1929 (EKI 1999a). The groundwater gradient was to the southeast with a magnitude of approximately 0.003 ft/ft (EKI 1999a). During October 1998, the piezometric surface for the B-zone, corrected for variable density, occurred at elevations of 1.3 to 1.9 feet, relative to the National Geodetic Vertical Datum 1929. The groundwater gradient for the B-zone was generally to the north with a magnitude of approximately 0.003 ft/ft (EKI 1997a). These data indicate that there is a relative upward groundwater gradient at the Site. It should be noted that the local groundwater gradient is strongly affected by density variations. Thus, changes in operation of the nearby salt evaporation ponds could result in changed groundwater gradients.

### 2.3.4 Chemicals of Concern Detected in Soil and Groundwater

The primary chemicals of concern ("COCs") at the Site, based on prevalence in soil and groundwater at the Site and the results from the risk assessment, are halogenated VOCs. The VOCs that contribute most to the estimated risks at the Site are trichloroethene ("TCE") and vinyl chloride ("VC"). Tables 1 and 2 list all the VOCs that have been detected in soil or groundwater samples collected from the Site. The VOCs that have been detected in more than ten groundwater samples collected at the Site include, in order of decreasing frequency of detection:

- TCE;
- cis-1,2-dichloroethene ("cis-1,2-DCE");
- chloroform;
- 1,1,2-trichloro-1,2,2-trifluoro ethane ("CFC-113");
- carbon tetrachloride; and
- VC.



TCE and CFC-113 are believed to have been used historically at the Site. Further, the cis-1,2-DCE and VC found at the Site are presumed to be daughter products of naturally occurring reductive dechlorination of TCE in the soil and groundwater.

TCE is present in groundwater samples collected from the Site in the vicinity of former Building 2 at concentrations that suggest the presence of separate-phase dense non-aqueous phase liquid ("DNAPL"). The presence of separate-phase DNAPL can result in the long-term persistence of VOCs in groundwater. Furthermore, DNAPL liquids can, in some instances, migrate to deeper depths if remedial activities or other subgrade activities penetrate confining media or alter the hydrologic conditions.

Carbon tetrachloride has been detected at significantly higher concentrations in groundwater samples collected from the adjacent property to the west. The source of carbon tetrachloride is unknown but appears to be up-gradient of the Site. The chloroform found in groundwater samples collected on-Site may be a product of the naturally occurring degradation of the carbon tetrachloride.

### 2.3.5 Soil Remedial Actions

As discussed in the FS/RAP, source area soil near the northwestern corner of the former Building 2 will be excavated to a depth of approximately 6 feet during 1999. The extent of planned excavation is shown on Figure 3 (EKI 1998c). The remedial excavation will remove soil known to contain concentrations of COCs above the risk-based action levels listed in Table 3. Results of the remedial excavation will be documented in the Remedial Action Completion Report anticipated to be submitted to the RWQCB as described in Section 2.5.1.

After source area soil is excavated, clean backfill will be placed in the excavation. A high-density polyethylene ("HDPE") liner will be installed as a vapor barrier in the backfill at approximately 4 feet bgs. The vapor barrier will reduce the potential for the clean backfill to be contaminated by VOC vapors emanating from the underlying groundwater. The vapor barrier will also reduce the potential for migration of VOC vapors from groundwater into any buildings that may be constructed in that location in the future, thereby further reducing the potential future risks at the Site.

As discussed below, future owners of the property will be required to protect the integrity of the vapor barrier by not penetrating through the barrier during construction or maintenance activity at the Site unless (a) damage to the barrier can be effectively repaired, or (b) the underlying groundwater no longer contains VOCs above risk-based action levels.

### 2.3.6 Groundwater Remedial Actions

As discussed in the FS/RAP, a pilot test is planned to evaluate the efficacy of ICO by injecting potassium permanganate ("Oxidant") into saturated zone soils and groundwater

1998-135819  
08/08/1998 03:24P  
OR Page: 23 of 163



near the northwestern corner of the former Building 2 (EKI 1998d). The oxidant is intended to oxidize halogenated VOCs in soil and groundwater to less toxic daughter products. If the pilot test is successful, full-scale ICO treatment will be performed as described in the FS/RAP.

## 2.4 Remaining Environmental Conditions

This Section describes the available information regarding the residual concentrations of VOCs in soil, groundwater, and soil gas beneath concrete slabs. For the purposes of this document, it is assumed that soil excavation activities, including removal of the concrete slab and installation of a vapor barrier, as proposed in EKI (1998c) will have been executed.

### 2.4.1 Residual Concentrations of Halogenated VOCs in Soil

Figure 3 shows the locations of soil borings drilled in and around the source area at the northwestern corner of the former Building 2 as well as the proposed extent of the remedial soil excavation. Table 1 summarizes the data for soil samples collected from the area outside the remedial excavation area and represents the available data regarding residual concentrations of VOCs in Site soils post-excitation. The concentrations of TCE and VC in post-excitation Site soils are shown on Figures 4 and 5, respectively.

For the purposes of this Risk Management Plan, it has been assumed that there may exist on the Site areas of contamination undetected by previous investigations. Therefore, risk management for all future activities involving disturbance of soil at the Site will be performed under the assumption that VOCs may be present in soil, as discussed further in Chapter 4.

### 2.4.2 Residual Concentrations of Halogenated VOCs in Groundwater

Figures 6, 7, and 8 show the extents of TCE, VC, and carbon tetrachloride, respectively, in groundwater at the Site. Table 2 summarizes data for groundwater samples collected from the Site.

Elevated concentrations of VOCs have been detected in groundwater in the vicinity of the northern portion of former Building 2. The area of groundwater containing VOCs in excess of the risk-based action levels for groundwater is shown on Figure 9. For the purposes of this Risk Management Plan, this area is defined as the Groundwater Risk Area.

### 2.4.3 Possible Presence of Chlorinated VOCs Under Concrete Slabs

The VOCs detected in soil gas during the remedial investigation include trichloroethene, cis-1,2-dichloroethene, CFC-113, chloroform, and benzene (EKI 1997a). Trichloroethene, cis-1,2-dichloroethene, and CFC-113 are the three chemicals detected at highest concentrations (EKI 1997a). Elevated concentrations of these chemicals were

detected in soil gas from the vicinity of the northwestern corner of the former Building 2, both inside and outside of the former building.

It should be noted that some of the soil gas samples from locations within the former building were collected within the gravel base beneath the building slab. It is possible that the concentrations of chemicals detected in these samples reflect some relatively increased lateral migration because of the permeable gravel base. It is possible that, in the future, without proper engineering controls, VOCs could migrate from groundwater into permeable subgrade material beneath new structures. Chapter 5 discusses the use of engineering controls to prevent this type of VOC migration.

1999-135815  
03/09/1999 03:29P  
DR Page: 26 of 153



### 3. SUMMARY OF HUMAN HEALTH RISK ASSESSMENT

A human health risk assessment was undertaken to:

- Evaluate potential impacts to human health by chemicals of concern ("COCs") present in soil and groundwater at the Site; and
- Develop risk-based action levels for soil and groundwater at the Site.

The risk assessment is included in Attachment A.

Note that baseline risks at the Site were calculated previously for development of risk-based action levels for soil excavation using data collected prior to April 1998 (EKI 1998c; EKI 1999b). However, some additional groundwater data were collected for the Site after April 1998. Therefore, the data set used herein and in Appendix A to calculate the baseline risk at the Site has been updated to include the soil and groundwater data for the Site available as of February 1999. Also, the proposed risk-based action levels have now been developed to consider VOCs in both soil and groundwater, and one of the physical assumptions (soil saturated porosity) for the Site has been modified.

The risk assessment was conducted assuming hypothetical exposure scenarios for future occupants of the Site. Occupants were subdivided into several receptor populations based on their expected locations and activities. Each group was assumed to be subjected to different concentrations of chemicals for different amounts of time. All assumptions used in the risk assessment are quantified in the text and tables included in Attachment A.

Baseline risks were calculated for the following three hypothetical receptor populations at the Haven Avenue Site:

- Future commercial/industrial building occupants, who will work indoors on-Site over a long period of time ("Indoor Workers");
- Workers involved in the construction of new buildings or subsurface utilities on-Site, who will occupy the Site for much more limited periods ("Construction Workers"); and,
- Future maintenance personnel such as groundskeepers, who will labor primarily outdoors over a long period of time ("Maintenance Workers").

#### 3.1 Risk Calculations

As discussed in the risk assessment (Attachment A), summation of Hazard Indices over all pathways and chemicals gives the non-carcinogenic effects Hazard Index for each hypothetical receptor population. A total Hazard Index less than or equal to one indicates





that the population will not be exposed to the chemical beyond a dosage considered safe for non-carcinogenic adverse health effects.

Summation of the estimated incremental carcinogenic risk from all carcinogenic chemicals over all pathways valid for a particular receptor population gives an estimated overall incremental excess carcinogenic risk ("Cancer Risk") for the hypothetical receptor population (Appendix A). The National Oil and Hazardous Substances Pollution Contingency Plan (40 CFR §300) mandates an acceptable range of Cancer Risk between  $10^{-4}$  (1 in 10,000) and  $10^{-5}$  (1 in 1,000,000). California law requires notification of on-Site workers if the Cancer Risk is estimated to exceed  $10^{-5}$  (1 in 100,000) (California Code of Regulations ("CCR") Title 22, Section 12703). The targeted maximum Cancer Risk of  $10^{-5}$ , used in the risk assessment for the Site, satisfies both sets of regulations.

### 3.2 Estimated Baseline Risks

The estimated baseline risks for the three hypothetical future populations at the Site are summarized below based on the results of the risk assessment in Attachment A. Several references are made below to tables in Attachment A (e.g., "Table A-19").

Estimated baseline Hazard Indices and Cancer Risk for Indoor Workers are listed in Table A-19. Non-carcinogenic hazard for this population is calculated to have a Hazard Index equal to 0.08, less than the maximum target value of 1. The estimated Cancer Risk is  $1.9 \times 10^{-5}$ , above the maximum target level of  $10^{-5}$ . The most significant chemical/pathway combination for Indoor Workers, in terms of the estimated Cancer Risk, is inhalation of TCE and VC evaporating from groundwater.

Estimated baseline Hazard Indices and Cancer Risks for Maintenance Workers through all pathways are listed in Table A-20. Non-carcinogenic hazard for this population is calculated to be 0.03, less than the maximum target level of 1. The estimated Cancer Risk is  $4.5 \times 10^{-6}$ , below the maximum target level of  $1.0 \times 10^{-5}$ . The most significant chemical/pathway combination for the Maintenance Worker receptor population is inhalation of VC evaporating from soil.

Estimated baseline risk and Hazard Indices and Cancer Risk for all Construction Worker exposure pathways are listed in Table A-21. The estimated Cancer Risk is  $1.0 \times 10^{-7}$ , less than the target level of  $10^{-5}$ . Non-carcinogenic hazard for this population is calculated to be 0.01, less than the target level of 1. The most significant chemical/pathway combination, both in terms of Cancer Risk and non-carcinogenic health hazard for the Construction Worker receptor population is inhalation of VC evaporating from soil.



### **3.3 Calculation of Risk-Based Action Levels for Soil and Groundwater**

Using the baseline risks calculated for the hypothetical receptor populations at the Site, risk-based action levels for soil and groundwater have been calculated, as discussed below. Risk-based action levels have been calculated considering potential exposures to the future hypothetical receptor populations, i.e., Maintenance Workers, Construction Workers, and Indoor Workers.

Risk-based action levels (cleanup goals) for soil and groundwater were calculated to apportion post-remediation risk such that Cancer Risk to the Indoor Worker, Construction Worker, and Maintenance Worker populations are each at or below  $10^{-5}$ , and Hazard Indices are at or below 1.0. The method used for apportioning risk was to allocate most of the risk to the more hazardous chemicals and those more commonly found at the Site. This approach minimizes the volume of material to be remediated, while keeping future hypothetical populations' exposure to hazardous chemicals below the target maximum risk levels.

Tables 3 and 4 (and Tables A-22 and A-23 in Attachment A) list the calculated risk-based action levels for soil and groundwater, respectively. For soil, the risk-based action levels for TCE and VC are 3.2 mg/kg and 0.075 mg/kg, respectively. For groundwater, the risk-based action levels for TCE and VC are 8,000 ug/L and 500 ug/L, respectively, and carbon tetrachloride and chloroform have action levels of 2,600 ug/L and 2,000 ug/L, respectively.

Tables A-24, A-25, and A-26 show the estimated Hazard Indices and Cancer Risks for the receptor populations, i.e., Indoor Workers, Maintenance Workers and Construction Workers, assuming VOCs are present in soil and groundwater at the risk-based action level concentrations. For each population, the estimated total Hazard Index is less than 1 and the estimated cumulative Cancer Risk is less than or equal to  $10^{-5}$ . Therefore, the risk-based action levels result in an acceptable level of risk for the future potentially exposed populations.

Future collection and analysis of soil or groundwater samples from the Site could potentially indicate the presence of chemical concentrations different from the current dataset. In this case, risk-based action levels for the Site may be recalculated to reflect the improved understanding of the distribution and concentrations of chemicals in Site soil or groundwater.



#### 4. RISK MANAGEMENT DURING CONSTRUCTION

Risk management during construction activities at the Site involves precautions that will be taken by the property owner to mitigate risks to human health and the environment from possible exposure to chemicals of concern during various activities that involve disturbing soil at the Site. As discussed in Section 2.4.1, it is assumed for the purposes of this Risk Management Plan that residual VOCs may be present in soils located anywhere on-Site. Therefore, construction-related risk management procedures should be evaluated and implemented by the property owner, its contractors, agents, and consultants any time work will be performed that involves disturbing soil at the Site.

When establishing the procedures and precautions to be implemented, the evaluation should include, but not necessarily be limited to, the following:

- Establishing a notification procedure and protocols for future sub-surface activity to ensure long-term compliance with this Risk Management Plan;
- Establishment of health and safety training, worker protection procedures, and worker notification procedures for workers who may be exposed to VOC-containing soil or groundwater during any subsurface works;
- Use of construction methods that ensure that conduits to deeper groundwater zones are not created; and,
- Establishment of soil and groundwater management procedures to:
  - (1) appropriately manage soil and groundwater encountered during construction;
  - (2) characterize soil and groundwater that have indicators of VOC contamination;
  - (3) manage potential VOC vapors that could emanate from excavated soils or groundwater;
  - (4) properly store and dispose of soil and groundwater; and
  - (5) control or prevent storm water from contacting stored soils.

##### 4.1 Site-Specific Health And Safety Worker Planning Requirements

Considering that VOCs may remain in soil, groundwater, and soil gas at the Site following completion of the remedial actions, preparation and implementation of health and safety plans ("HSPs") will be required for activities at the Site during which workers may encounter VOCs in soil, groundwater, or soil gas during subgrade work. Separate HSPs may be prepared for different types of work, i.e., depending on the nature of the work and the estimated potential for exposure to VOCs based on the available data. It will be the responsibility of the property owner to evaluate work activities at the Site and identify those activities that require preparation of a HSP, subject to the constraints described below.



It will be assumed for the preparation of HSPs that VOCs may be present in soil throughout the Site. Therefore, subgrade work activities requiring a HSP include, but are not limited to, (a) excavation and grading during demolition or construction activity, (b) subgrade utility installation or repair, (c) entrance into subgrade confined spaces, such as utility vaults or manholes, and (d) landscaping work that disturbs native soil, including but not limited to activities such as tree and shrub planting, sprinkler installation, and soil relocation.

A HSP is not required by this RMP for activities where no more than the upper 12 inches of soil will be disturbed if the work is in an area where clean fill soil has been imported during 1999 or later (e.g., new topsoil in landscaped areas, backfill installed in the source area soil excavation). For those activities, however, a HSP should still be prepared if required by applicable laws or regulations or if determined appropriate by the responsible party.

A HSP is not required by this RMP for workers who will perform activities at the Site without disturbing soil (e.g., carpenters, painters, carpet installers). When constructed, buildings and cover materials such as roads and walk-ways will prevent exposure to VOC-containing soil. It remains the responsibility of the property owner to determine if a health and safety plan is required for compliance with other federal, state, and local requirements.

#### **4.2 Site-Specific Health And Safety Plans**

Each HSP prepared pursuant to the requirements of this RMP will be required to address potential worker exposures to VOCs that could result from the work if VOCs are encountered in soil, groundwater, or soil gas during the work. To the extent required by applicable law, each HSP will be prepared in accordance with Federal and California Occupational Safety and Health Administration ("OSHA") standards for hazardous waste operations (29 CFR 1910.120 and 8 CCR 5192), or applicable regulations promulgated in the future. The HSP should also include but not be limited to a description of health and safety training requirements for the affected workers, a description of the level of personal protective equipment to be used, if any, air quality monitoring plans if necessary, and any other applicable precautions to reduce potential exposure to VOCs to acceptable levels.

#### **4.3 Construction Impact Mitigation Measures**

This section outlines measures that should be considered to mitigate potential impacts to human health and the environment during construction at the Site. The need to implement any active measures should be identified in a Construction Impact Mitigation Plan to be prepared by the property owner or its agent. Identified mitigation measures should be implemented during construction. At a minimum, measures to be considered for implementation should include:

- Management of soil;

1999-135816  
08/06/1999 03:24P  
DR Page: 30 of 153



- Management of groundwater (e.g., during excavation dewatering);
- Preventing creation of migration pathways for contamination to deeper aquifer zones;
- Protection of the vapor barrier installed by MSA in the source area soil excavation backfill (see Section 2.3.5); and
- Protection of groundwater monitoring wells at the Site.

#### 4.3.1 Soil Management Plan

The Construction Impact Mitigation Plan should include a section that establishes procedures for safely managing excavated soil. The soil management plan should consider, at a minimum, the following:

- Methods for the safe excavation and on-Site storage of removed soil;
- Methods for screening excavated soil for the presence of VOCs, as discussed in Section 4.3.1.1;
- Methods for preventing exposure to VOC vapors that may emanate from excavated soil;
- Methods for controlling storm water runoff such that contact with excavated soils is eliminated; and
- Procedures for characterizing and properly disposing excavated soil.

##### 4.3.1.1 Soil Screening Methodology During Construction

During future excavation of soil, an appropriate field instrument should be used during the excavation to help determine if VOCs are present in the soil. VOC screening measurements should be taken periodically as soil is excavated at the Site. A soil screening plan also should be developed as part of the Site-specific health and safety plan generally described in Section 4.2. The soil screening plan should describe procedures for screening soil for the presence of VOCs and action levels for terminating work activities or upgrading worker personal protective equipment. Elevated VOC screening readings may be an indication of VOC contamination in soil.

##### 4.3.1.2 Management of Soil with Indications of VOC Contamination

Contingency protocols should be included in the Construction Impact Management Plan for management of soils should VOC screening indicate the presence of VOC contamination. These contingency protocols should include methods for safely stockpiling soil until the actual concentrations of VOCs in soil are identified and, based



on regulations governing management of excavated soil, an appropriate management method is determined. Excavated soil should be stored in a manner so as to limit access to and contact by unauthorized personnel and to minimize contact with storm water.

#### 4.3.2 Groundwater Management Plan

If construction at the Site is performed such that groundwater will be removed, a groundwater management plan should be included in the Construction Impact Mitigation Plan. The groundwater management plan should, at a minimum, consider implementing methods in accordance with applicable regulations to perform the following:

- safely remove and store groundwater during construction;
- limit exposure to VOC vapors that may emanate from groundwater; and
- characterize and properly dispose of stored groundwater.

#### 4.3.3 Use Of Construction Methods that Minimize the Potential for Creating Vertical Conduits

As discussed in Section 2.6.2, residual concentrations of VOCs currently exist in shallow groundwater at concentrations that suggest the presence of separate-phase DNAPL. The top of this shallow groundwater zone is typically encountered at a depth of approximately 6 to 8 feet bgs (EKI 1997a). DNAPLs can, in some instances, migrate to deeper depths if conduits are created in confining media or hydrologic conditions are altered.

If in the future chemical concentrations in groundwater suggest the presence of DNAPL, construction activities should be conducted such that the potential for DNAPL migration is limited. For example, penetrations through the bottom of the B-zone at the Site into deeper aquifers could potentially provide a conduit for the migration of groundwater containing elevated concentrations of VOCs to deeper aquifers that are currently not impacted. A specific example of a penetration to a deeper aquifer is the installation of pilings for the foundation of new construction.

Penetrations to below the B-zone will not be allowed in areas where VOCs are present in groundwater above California Maximum Contaminant Levels ("MCLs") for drinking water, unless (a) sufficient precautions are taken to prevent migration of impacted groundwater to deeper groundwater zones, and (b) RWQCB concurs that the design is adequate to prevent impacts to deeper groundwater.

#### 4.3.4 Protection of Vapor Barrier

A vapor barrier will be installed at approximately 4 feet bgs in the backfill for the source area soil excavation. The barrier is designed to prevent possible migration of VOC vapors from underlying groundwater into the clean backfill. The barrier would also reduce the rate at which VOCs from groundwater could migrate into any overlying

1999-135815  
08/08/1999 03:24P  
DR Page 32 of 163



structures. Owners of the property are required to protect the integrity of the vapor barrier by not penetrating through the barrier during construction or maintenance activity at the Site unless (a) damage to the barrier can be effectively repaired, or (b) the underlying groundwater no longer contains VOCs above risk-based action levels.

#### 4.3.5 Protection of Monitoring Wells

It is anticipated that selected existing groundwater monitoring wells at the Site will be required for future groundwater monitoring. Existing monitoring wells at the Site include monitoring wells MW-1, MW-2, MW-3, MW-4, MW-5B, MW-6B, and MW-7B. Of these, monitoring wells MW-2, MW-5B, MW-6B, and MW-7B are planned for a future groundwater monitoring program. In addition two additional on-Site wells, MW-8 and MW-9 are planned for installation and monitoring. Existing and proposed on-Site monitoring wells are shown on Figure 10.

As long as groundwater monitoring is required by the RWQCB or other regulatory agency, construction procedures should be implemented to prevent accidental damage to the required groundwater monitoring wells. With the approval of the RWQCB, groundwater monitoring wells may be abandoned and replaced with new groundwater monitoring wells at a different locations.



## **5. DESIGN CONSIDERATIONS FOR NEW CONSTRUCTION**

Based on the results of the human health risk assessment (Chapter 3), the highest identified risk to indoor workers at the Site is exposure to VOCs migrating into enclosed spaces. No buildings currently exist over the Groundwater Risk Area, discussed in Section 2.4.2. Unless it is demonstrated that VOC concentrations in groundwater are less than risk-based action levels, any new buildings should be designed so that migration of VOCs into new buildings is limited. Materials and methods (e.g., liners, sub-slab aeration, low permeability concrete, crack sealants) are available to restrict vapor intrusion through building floors. At the time of building design, a professional engineer experienced in this type of work should be consulted to design appropriate barriers to prevent the potential migration of VOCs into new buildings.

1999-135815  
08/09/1998 03:28P  
DR Page 34 of 183





## 6. NON-CONSTRUCTION RISK MANAGEMENT

This risk management plan also addresses precautions that should be implemented to mitigate long-term risks to human health and the environment related to exposure to COCs during periods of normal, non-construction activity. Any construction that will disturb the soil, building foundations, or pavement should be completed in a manner that is consistent with Chapters 4 and 5 and applicable environmental policies, laws, and regulations.

Components of the risk management plan for non-construction activities are as follows:

- Ensuring that future land uses are consistent with the commercial/industrial uses assumed under this Risk Management Plan;
- Monitoring groundwater at the perimeter of the Groundwater Risk Area to monitor for possible future expansion of the Groundwater Risk Area, unless VOC concentrations in groundwater samples collected in all on-Site wells are less than risk-based action levels;
- Prohibiting the use of groundwater at the Site, unless VOC concentrations in groundwater are less than MCLs;
- Establishing a notification procedure and protocols for future sub-surface activity to ensure long-term compliance with this Risk Management Plan; and
- Inspecting the Site as necessary to verify that risk management controls are being implemented and that they are effective in limiting potential exposure to VOCs at the Site.

### 6.1 Property Manager and Tenant Notification

The property owner shall provide notification of the known environmental conditions at the Site and of the requirements of this RMP to (a) the property manager, and (b) tenants and other entities leasing or otherwise exercising control over space at the Site.

### 6.2 Maintaining Commercial/Industrial Land Use

The Site is restricted to commercial/industrial use, except that uses for day-care or primary education are explicitly not allowed. If other uses are proposed, the owner may make a proposal to the RWQCB or other appropriate agency, supported by analysis, that the provisions of this RMP should be changed.

### 6.3 Monitoring of Existing Buildings

As discussed in Section 2.4.2, groundwater with VOC concentrations above the risk-based action levels has not been detected outside the Groundwater Risk Area shown on Figure 7. However, over time, it is possible that the groundwater flow regime at the Site



## 7. REFERENCES

California Code of Regulations ("CCR"), Title 8, Section 5155, Revised 1 September 1995.

CCR, Title 8, Section 5192, Revised 16 June 1995.

CCR, Title 22, Sections 12000 to 14000, Revised 24 May 1996.

Code of Federal Regulations, Title 29, Section 1910.120.

EKI, 1999a. *Remedial Action Plan and Feasibility Study, 3695-3723 Haven Avenue, Menlo Park, California*, Erler & Kalinowski, Inc., 10 March 1999

EKI, 1999b. *In Situ Chemical Oxidation Bench-Scale Treatability Test Results, 3695-3723 Haven Avenue, Menlo Park, California*, Erler & Kalinowski, Inc., 8 January 1999

EKI, 1999c. *Revised Risk Calculations and Cleanup Goals for Source Area Soil Excavation, 3695-3723 Haven Avenue, Menlo Park, California*, 12 February 1999

EKI, 1998a. *Results of Sampling and Analysis, 3645 and 3665 Haven Avenue, Menlo Park, California*, Erler & Kalinowski, Inc., 30 June 1998

EKI, 1998b. *Results of Sampling and Analysis, Vicinity of 3695-3723 Haven Avenue, Menlo Park, California*, Erler & Kalinowski, Inc., 28 October 1998

EKI, 1998c. *Work Plan for Source Area Soil Excavation, 3695-3723 Haven Avenue, Menlo Park, California*, Erler & Kalinowski, Inc., 29 September 1998

EKI, 1998d. *Work Plan for In Situ Chemical Oxidation Pilot Study, 3695 - 3723 Haven Avenue, Menlo Park, California*, letter from Erler & Kalinowski, Inc. to RWQCB, 24 November 1998.

EKI, 1997a. *Remedial Investigation Report, 3695-3723 Haven Avenue and Vicinity, Menlo Park, California*, Erler & Kalinowski, Inc., 21 April 1997

EKI, 1997b. *Results of Additional Investigations and Testing, 3695-3723 Haven Avenue, Menlo Park, California*, Erler & Kalinowski, Inc., 30 December 1997.

ESI, 1994a. *Phase I Environmental Assessment for Property Located at 3705-3723 Haven Avenue, Menlo Park, California*, EnviroScience, Inc., 8 April 1994.

ESI, 1994b. *Preliminary Subsurface Assessment, 3705-3723 Haven Avenue, Menlo Park, California*, EnviroScience, Inc., 17 October 1994.

1898-135815  
08/08/1999 03:24P  
DR Page: 37 of 153



**Geomatrix, 1995. *Groundwater Investigation Report, 3705-3723 Haven Avenue, Menlo Park, California, Geomatrix Consultants, August 1995.***

**1999-135815**  
08/09/1998 03:24P  
DR Page: 38 of 163



Table 1  
Analytical Results for Volatile Organic Compounds in Soil  
3695-3723 Haven Avenue Property  
Menlo Park, California

Sample	Sample Depth Range (ft bgs) <sup>(a)</sup>	Sample Collection Date	Concentration in Soil (mg/kg)													
			Carbon Tetrachloride	Chloroform	1,2-Dichlorobenzene	1,1-Dichloroethane	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Tetrachloroethene	Trichloroethene	1,1,2-Trichloro-1,2,2-Trifluoroethane	Vinyl Chloride				
B101	2.0-2.5	4-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.05	<0.05
B102	2.0-2.5	4-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.05	<0.05
C-1	1.0-1.5	28-May-97	<0.025	<0.025	<0.025	<0.025	0.65	<0.025	<0.025	0.85	<0.025	<0.025	0.11	<0.025	<0.05	<0.05
C-1	5.5-6.0	19-Jun-97	<0.05	<0.05	<0.05	<0.05	1.5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05
C-2	1.0-1.5	28-May-97	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.14	<0.025	<0.05	<0.05
C-2	3.5-4.0	19-Jun-97	<0.025	<0.025	<0.025	<0.025	<0.025	0.067	<0.025	<0.025	<0.025	<0.025	0.52	<0.025	<0.05	<0.05
C-3	1.0-1.5	28-May-97	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.05	<0.05
C-4	1.0-1.5	28-May-97	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.05	<0.05
C-5	1.0-1.5	28-May-97	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.05	<0.05
C-6	1.0-1.5	28-May-97	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.05	<0.05
C-7	1.0-1.5	28-May-97	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.05	<0.05
EC-1	14-14.5	10-Oct-96	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01
EC-2	12.5-13	7-Oct-96	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01
EC-3	12.5-13	10-Oct-96	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01
EC-4	12.5-13	7-Oct-96	<0.005	<0.005	<0.005	<0.005	0.035	<0.005	<0.005	0.035	<0.005	<0.005	0.061	<0.005	<0.01	<0.01
EC-5	12-12.5	11-Oct-96	<0.005	<0.005	<0.005	<0.005	0.014	<0.005	<0.005	0.014	<0.005	<0.005	0.052	<0.005	<0.01	<0.01
EC-6	12-12.5	11-Oct-96	0.021	<0.02	0.021	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.04	<0.04
EC-7	15-15.5	9-Oct-96	<0.01	0.011	<0.01	<0.01	0.17	<0.01	<0.01	0.17	<0.01	<0.01	0.25	<0.01	<0.01	<0.01
EC-8	14.5-15	9-Oct-96	<0.1	<0.1	<0.1	<0.1	0.29	<0.1	<0.1	0.29	<0.1	<0.1	0.45	<0.1	<0.1	<0.1
EC-9	15-15.5	8-Oct-96	<0.005	0.016	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.024	<0.005	<0.01	<0.01
EC-10	14.5-15	8-Oct-96	<0.005	0.0056	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01
EC-12	3.5-4.0	19-Jun-97	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.073	<0.025	<0.05	<0.05
EC-12	5.5-6.0	19-Jun-97	<0.025	<0.025	<0.025	<0.025	0.027	<0.025	<0.025	0.027	<0.025	<0.025	0.048	<0.025	<0.05	<0.05
EC-13	1.5-2.0	19-Jun-97	<0.025	<0.025	<0.025	<0.025	0.08	<0.025	<0.025	0.08	<0.025	<0.025	0.073	<0.025	<0.05	<0.05



Table 1  
 Analytical Results for Volatile Organic Compounds in Soil  
 3695-3723 Haven Avenue Property  
 Menlo Park, California

Sample	Sample Depth Range (ft bgs) <sup>(a)</sup>	Sample Collection Date	Concentration in Soil (mg/kg)											
			Carbon Tetrachloride	Chloroform	1,2-Dichlorobenzene	1,1-Dichloroethane	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Tetrachloroethene	Trichloroethene	1,1,2-Trichloro-1,2,2-Trifluoroethane	Vinyl Chloride		
EC-13	5.5-6.0	19-Jun-97	<0.025	<0.025	<0.025	<0.025	0.13	<0.025	<0.025	<0.025	0.1	<0.025	<0.025	<0.05
EC-14	2.0-2.5	19-Jun-97	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	1.1	<0.05	<0.05	<0.1
EC-14	5.5-6.0	19-Jun-97	<0.025	<0.025	<0.025	<0.025	0.097	<0.025	<0.025	<0.025	0.18	<0.025	<0.05	<0.05
EC-15-A	3.5-4.0	19-Jun-97	<0.025	<0.025	<0.025	<0.025	0.35	<0.025	<0.025	<0.025	0.49	<0.025	<0.05	<0.05
EC-15-A	5.5-6.0	19-Jun-97	<0.025	<0.025	<0.025	<0.025	0.91	<0.025	<0.025	<0.025	0.086	<0.025	<0.05	<0.05
EC-16	2.0-2.5	19-Jun-97	<0.025	<0.025	<0.025	<0.025	0.039	<0.025	<0.025	<0.025	0.056	<0.025	<0.05	<0.05
EC-16	5.5-6.0	19-Jun-97	<0.025	<0.025	<0.025	<0.025	0.048	<0.025	<0.025	<0.025	<0.025	<0.025	<0.05	<0.05
EC-17	2.0-2.5	19-Jun-97	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.05
EC-17	5.5-6.0	19-Jun-97	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.05
EC-18	5.5-6.0	19-Jun-97	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.05
EC-19	2.0-2.5	19-Jun-97	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.05
EC-19	5.5-6.0	19-Jun-97	<0.05	<0.05	<0.05	<0.05	0.38	<0.05	<0.05	<0.05	0.19	<0.05	<0.05	<0.05
EC-20	2.0-2.5	19-Jun-97	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.19	<0.05	<0.05	<0.05
EC-20	5.5-6.0	19-Jun-97	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.05
EC-21	2.5-3.0	10-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.05
EC-21	5.0-5.5	10-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.027	<0.025	<0.05	<0.05
EC-22	3.0-3.5	10-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.039	<0.025	<0.05	<0.05
EC-22	5.0-5.5	10-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.05
EC-23	3.0-3.5	10-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.05
EC-23	5.0-5.5	10-Sep-97	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EC-24	3.5-4.0	10-Sep-97	<0.025	<0.025	<0.025	<0.025	0.51	<0.025	<0.025	<0.025	0.03	<0.025	<0.05	<0.05
EC-24	5.0-5.5	10-Sep-97	<2	<2	<2	<2	0.06	<2	<2	<2	0.03	<2	<2	<2
EC-25	3.5-4.0	10-Sep-97	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25
EC-25	5.0-5.5	10-Sep-97	<0.5	<0.5	1.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5

Trichloroethene	1,1,2-Trichloro-1,2,2-Trifluoroethane	Vinyl Chloride
0.089	<0.05	<0.05
0.23	<0.05	<0.05
<0.025	<0.05	<0.05
0.061	<0.05	<0.05
<hr/>		
<hr/>		
<hr/>		
<hr/>		
<hr/>		
<hr/>		
<hr/>		
<hr/>		
<hr/>		
0.07	0.07	0.19
0.1	<0.05	<0.05
0.07	0.083	<0.05
0.29	<0.05	<0.05

**Erlor & Kalinowski, Inc.**  
 10 March 1999



Table 1  
 Analytical Results for Volatile Organic Compounds in Soil  
 3695-3723 Haven Avenue Property  
 Menlo Park, California

Sample	Sample Depth Range (ft bgs) (a)	Sample Collection Date	Concentration in Soil (mg/kg)					
			Carbon Tetrachloride	Chloroform	1,2-Dichlorobenzene	1,1-Dichloroethane	cis-1,2-Dichloroethane	trans-1,2-Dichloroethane
EC-26	3.5-4.0	11-Sep-97	<0.25	<0.25	<0.25	<0.25	0.27	<0.25
EC-26	5.0-5.5	11-Sep-97	<0.25	<0.25	<0.25	<0.25	15.4	<0.25
EC-27	3.0-3.5	11-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
EC-27	5.0-5.5	11-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
EC-28	1.0-1.5	11-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
EC-28	5.0-5.5	11-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
EC-29	2.5-3.0	11-Sep-97	<0.2	<0.2	<0.2	<0.2	0.25	<0.2
EC-29	5.0-5.5	11-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
EC-30	1.5-2.0	11-Sep-97	<0.1	<0.1	<0.1	<0.1	0.15	<0.1
EC-30	5.0-5.5	11-Sep-97	<0.1	<0.1	<0.1	<0.1	0.15	<0.1
EC-31	3.0-3.5	10-Sep-97	<0.1	<0.1	<0.1	<0.1	0.15	<0.1
EC-31	5.0-5.5	10-Sep-97	<0.25	<0.25	<0.25	<0.25	1.6	<0.25
EC-32	2.5-3.0	10-Sep-97	<0.05	<0.05	<0.05	<0.05	0.22	<0.05
EC-32	5.0-5.5	10-Sep-97	<0.1	<0.1	<0.1	<0.1	0.2	<0.1
EC-33	2.5-3.0	10-Sep-97	<0.05	<0.05	<0.05	<0.05	1.1	<0.05
EC-33	5.0-5.5	10-Sep-97	<0.1	<0.1	<0.1	<0.1	2.5	<0.1
EC-34	3.0-3.5	10-Sep-97	<0.05	<0.05	<0.05	<0.05	0.7	<0.05
EC-34	5.0-5.5	10-Sep-97	<0.2	<0.2	<0.2	<0.2	4.9	<0.2
EC-35	2.5-3.0	10-Sep-97	<0.025	<0.025	<0.025	<0.025	0.031	<0.025
EC-35	5.0-5.5	10-Sep-97	<0.05	<0.05	<0.05	<0.05	1.2	<0.05
EC-36	2.0-2.5	10-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
EC-36	5.0-5.5	10-Sep-97	<0.025	<0.025	<0.025	<0.025	0.21	<0.025
EC-37	2.0-2.5	10-Sep-97	<0.025	<0.025	<0.025	<0.025	0.28	<0.025



Table 1.  
Analytical Results for Volatile Organic Compounds in Soil  
3695-3723 Haven Avenue Property  
Menlo Park, California

Sample	Sample Depth Range (ft bgs) <sup>(a)</sup>	Sample Collection Date	Concentration in Soil (mg/kg)										
			Carbon Tetrachloride	Chloroform	1,2-Dichlorobenzene	1,1-Dichloroethane	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Tetrachloroethene	Trichloroethene	1,1,2-Trichloro-1,2,2-Trifluoroethane	Vinyl Chloride	
EC-37	5.0-5.5	10-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	0.39	<0.025	<0.025	0.39	0.7	0.08
EC-38	3.0-3.5	10-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.05	<0.05
EC-38	5.0-5.5	10-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	0.17	<0.025	<0.025	<0.025	0.079	<0.05
EC-39	2.5-3.0	10-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.05	<0.05
EC-39	5.0-5.5	10-Sep-97	<0.05	<0.05	<0.05	<0.05	<0.05	0.85	<0.05	<0.05	0.18	1.5	<0.1
EC-40	5.0-5.5	11-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	0.16	<0.025	<0.025	0.4	0.93	<0.05
EC-41	2.0-2.5	11-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.05	<0.05
EC-41	5.0-5.5	11-Sep-97	<0.05	<0.05	<0.05	<0.05	<0.05	0.28	<0.05	<0.05	0.68	0.87	<0.1
EC-42	2.5-3.0	11-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	0.051	<0.025	<0.025	0.038	0.084	<0.05
EC-42	5.0-5.5	11-Sep-97	<0.1	<0.1	<0.1	<0.1	<0.1	0.16	<0.1	<0.1	0.17	0.91	<0.2
EC-43	3.0-3.5	11-Sep-97	<0.05	<0.05	<0.05	<0.05	<0.05	0.15	<0.05	<0.05	0.15	0.1	<0.1
EC-43	5.0-5.5	11-Sep-97	<0.1	<0.1	<0.1	<0.1	<0.1	0.25	<0.1	<0.1	0.2	0.2	<0.1
EC-44	3.5-4.0	11-Sep-97	<0.05	<0.05	<0.05	<0.05	<0.05	0.3	<0.05	<0.05	0.3	0.1	<0.1
EC-44	5.0-5.5	11-Sep-97	<0.1	<0.1	<0.1	<0.1	<0.1	0.15	<0.1	<0.1	0.1	0.4	0.56
EC-45	2.5-3.0	11-Sep-97	<0.2	<0.2	<0.2	<0.2	<0.2	0.52	<0.2	<0.2	0.7	0.4	<0.1
EC-45	5.0-5.5	11-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	0.57	<0.025	<0.025	0.084	<0.05	<0.05
EC-46	2.5-3.0	11-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.047	<0.05	<0.05
EC-46	5.0-5.5	11-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.05	<0.05
EC-47	2.5-3.0	12-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	0.13	<0.025	<0.025	0.15	<0.05	<0.05
EC-47	5.0-5.5	12-Sep-97	<0.2	<0.2	<0.2	<0.2	<0.2	2.9	<0.2	<0.2	0.44	<0.4	<0.4
EC-48	2.0-2.5	15-Sep-97	<0.1	<0.1	<0.1	<0.1	<0.1	1.1	<0.1	<0.1	0.28	<0.2	<0.2
EC-48	5.0-5.5	15-Sep-97	<0.1	<0.1	<0.1	<0.1	<0.1	10	<0.1	<0.1	1.8	<2	<2
EC-49	1.5-2.0	12-Sep-97	<0.1	<0.1	<0.1	<0.1	<0.1	1.6	<0.1	<0.1	0.68	0.43	<0.2
EC-49	5.0-5.5	12-Sep-97	<0.5	<0.5	<0.5	<0.5	<0.5	13	<0.5	<0.5	5.2	1.2	<1





1999-135815  
08/08/1998 03:24P  
DR Page 43 of 183

Table 1  
Analytical Results for Volatile Organic Compounds in Soil  
3695-3723 Haven Avenue Property  
Menlo Park, California

Sample	Sample Depth Range (ft bgs) <sup>(a)</sup>	Sample Collection Date	Concentration in Soil (mg/kg)													
			Carbon Tetrachloride	Chloroform	1,2-Dichlorobenzene	1,1-Dichloroethane	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Tetrachloroethene	Trichloroethene	1,1,2-Trichloro-1,2,2-Trifluoroethane	Vinyl Chloride				
EC-50	1.5-2.0	12-Sep-97	<0.25	<0.25	<0.25	<0.25	2.3	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.5
EC-50	5.0-5.5	12-Sep-97	<0.25	<0.25	<0.25	<0.25	3.3	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.5
EC-51	2.0-2.5	12-Sep-97	<0.05	<0.05	<0.05	<0.05	0.68	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1
EC-51	5.0-5.5	12-Sep-97	<0.1	<0.1	<0.1	<0.1	1.0	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2
EC-52	2.0-2.5	12-Sep-97	<0.025	<0.025	<0.025	<0.025	0.061	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.05
EC-52	5.0-5.5	12-Sep-97	<0.2	<0.2	<0.2	<0.2	1.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.4
EC-53	2.0-2.5	12-Sep-97	<0.2	<0.2	<0.2	<0.2	0.18	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.4
EC-53	5.0-5.5	12-Sep-97	<0.1	<0.1	<0.1	<0.1	2.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2
EC-54	2.0-2.5	12-Sep-97	<0.025	<0.025	<0.025	<0.025	0.12	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.05
EC-54	5.0-5.5	12-Sep-97	<0.5	<0.5	<0.5	<0.5	2.7	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
EC-55	2.0-2.5	12-Sep-97	<0.025	<0.025	<0.025	<0.025	0.079	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.05
EC-55	5.0-5.5	12-Sep-97	<0.025	<0.025	<0.025	<0.025	0.06	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.05
EC-56	2.0-2.5	12-Sep-97	<0.025	<0.025	<0.025	<0.025	0.087	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.05
EC-56	5.0-5.5	12-Sep-97	<0.05	<0.05	<0.05	<0.05	0.66	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1
EC-57	2.0-2.5	12-Sep-97	<0.025	<0.025	<0.025	<0.025	0.032	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.19
EC-57	5.0-5.5	12-Sep-97	<0.2	<0.2	<0.2	<0.2	2.3	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.4
EC-58	2.0-2.5	12-Sep-97	<0.025	<0.025	<0.025	<0.025	0.049	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.05
EC-58	5.0-5.5	12-Sep-97	<0.25	<0.25	<0.25	<0.25	6.4	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.5
EC-59	2.0-2.5	12-Sep-97	<0.025	<0.025	<0.025	<0.025	0.053	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.05
EC-59	5.0-5.5	12-Sep-97	<0.1	<0.1	<0.1	<0.1	2.8	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2
EC-60	2.5-3.0	12-Sep-97	<0.025	<0.025	<0.025	<0.025	0.073	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.05
EC-60	5.0-5.5	12-Sep-97	<0.05	<0.05	<0.05	<0.05	0.78	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1
EC-61	2.5-3.0	12-Sep-97	<0.025	<0.025	<0.025	<0.025	0.046	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.05
EC-61	5.0-5.5	12-Sep-97	<0.025	<0.025	<0.025	<0.025	0.41	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.072



1998-12-01  
08/09/1998 03:24p  
OR Page 44 of 163

Table 1

Analytical Results for Volatile Organic Compounds in Soil

3695-3723 Haven Avenue Property  
Menlo Park, California

Sample	Sample Depth Range (ft bgs) <sup>(a)</sup>	Sample Collection Date	Concentration in Soil (mg/kg)												
			Carbon Tetrachloride	Chloroform	1,2-Dichlorobenzene	1,1-Dichloroethane	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Tetrachloroethene	Trichloroethene	1,1,2-Trichloro-1,2,2-Trifluoroethane	Vinyl Chloride			
EC-62	2.5-3.0	12-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.27	<0.05	<0.05
EC-62	5.0-5.5	12-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.05	<0.05
EC-63	2.5-3.0	11-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.078	<0.05	<0.05
EC-63	5.0-5.5	11-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.21	<0.05	<0.05
EC-64	2.5-3.0	12-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	0.15	<0.025	<0.025	<0.025	<0.025	0.21	0.12	<0.05
EC-64	5.0-5.5	12-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.05	<0.05
EC-65	2.5-3.0	12-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	0.25	<0.025	<0.025	<0.025	<0.025	0.33	0.24	<0.05
EC-65	5.0-5.5	12-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.05	<0.05
EC-66	2.5-3.0	12-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.05	<0.05
EC-66	5.0-5.5	12-Sep-97	<0.05	<0.05	<0.05	<0.05	0.34	<0.05	<0.05	<0.05	<0.05	<0.05	0.42	0.22	<0.1
EC-67	2.0-2.5	12-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.11	<0.05
EC-67	5.0-5.5	12-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	0.19	<0.025	<0.025	<0.025	<0.025	0.088	0.081	<0.05
EC-68	2.5-3.0	12-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.05	<0.05
EC-68	5.0-5.5	12-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	0.29	<0.025	<0.025	<0.025	<0.025	0.23	0.17	<0.05
EC-69	2.0-2.5	12-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.05	<0.05
EC-69	5.0-5.5	12-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	0.072	<0.025	<0.025	<0.025	<0.025	0.098	0.17	<0.05
EC-70	2.0-2.5	10-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.05	<0.05
EC-70	5.0-5.5	10-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	0.053	<0.025	<0.025	<0.025	<0.025	0.22	<0.05	<0.05
EC-71	1.5-2.0	11-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.05	<0.05
EC-71	5.0-5.5	11-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	0.049	<0.025	<0.025	<0.025	<0.025	0.19	<0.05	<0.05
EC-72	2.0-2.5	11-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.049	<0.05	<0.05
EC-72	5.0-5.5	11-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.063	<0.05	<0.05
EC-73	2.0-2.5	15-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.05	<0.05
EC-73	6.0-6.5	15-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.05	<0.05



Table 1  
Analytical Results for Volatile Organic Compounds in Soil  
3695-3723 Haven Avenue Property  
Menlo Park, California

Sample	Sample Depth Range (ft bgs) <sup>(a)</sup>	Sample Collection Date	Concentration in Soil (mg/kg)														
			Carbon Tetrachloride	Chloroform	1,2-Dichlorobenzene	1,1-Dichloroethane	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Tetrachloroethene	Trichloroethene	1,1,2-Trichloro-1,2,2-Trifluoroethane	Vinyl Chloride					
EC-73	14.0-14.5	15-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.05	<0.05	<0.05	<0.05	<0.05
EC-74	2.0-2.5	15-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.05	<0.05	<0.05	<0.05
EC-74	5.0-5.5	15-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.05	<0.05	<0.05	<0.05
EC-74	11.5-12.0	15-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.05	<0.05	<0.05	<0.05
EC-75	2.5-3.0	10-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.05	<0.05	<0.05	<0.05
EC-75	5.0-5.5	10-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	0.13	<0.025	<0.025	<0.025	<0.025	0.37	<0.05	<0.05	<0.05	<0.05
EC-76	2.0-2.5	10-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.05	<0.05	<0.05	<0.05
EC-76	5.0-5.5	10-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	0.065	<0.025	<0.025	<0.025	<0.025	0.25	<0.05	<0.05	<0.05	<0.05
MW-7B	4.0-4.5	23-Oct-96	<2	<2	<2	<2	<2	51	<2	<2	<2	<2	11	<2	<2	<2	<2
S2-3	3.0-3.5	4-Sep-97	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TR-1	2.0	10-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.41	<0.05	<0.05	<0.05	<0.05

Notes:

- (a) Sample depth range in feet below ground surface (ft bgs).
- (b) A hyphen (-) indicates that the sample was not analyzed for the chemical.
- (c) Shaded rows indicate samples collected from soil to be removed as part of the remedial soil excavation.







**Table 2**  
**Analytical Results for Volatile Organic Compounds in Groundwater**  
3695-3723 Haven Avenue Property  
Menlo Park, California

Sample Location	Screened Interval Depth (ft bgs) <sup>(A)</sup>	Sample Collection Date	EPA Analysis Method	Concentration in Groundwater (ug/L)																
				Acetone	Benzene	Carbon Tetrachloride	Chloroform	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Methylene Chloride	Tetrachloroethene	Toluene	1,1,1-Trichloroethane	Trichloroethene	1,1,2-Trichloro-1,2,2-Trifluoroethane (B)	Trichlorofluoromethane (C)	Vinyl Chloride
EC10-37	35-37	9-Oct-96	8010	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0
EC10-45	42-45	8-Oct-96	8010	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0
EC11-18	15-18	14-Oct-96	8010	-	<0.5	110	<0.5	280	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	19
EC11-35	30-35	14-Oct-96	8010	-	<0.5	<0.5	<0.5	7.8	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	2.6
EC11-45	39-45	14-Oct-96	8010	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0
EC-77	5-15	23-Apr-98	8010	-	<0.5	<0.5	<0.5	11000	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1000
EC-79	21-25	23-Apr-98	8010	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<500
EC-81	10	8-Sep-98	8010	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<500
EC-81	20	8-Sep-98	8010	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<500
MW-1	5.5-15.5	4-Oct-94	8240	460	250	310	<0.5	350	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5000
MW-1	5.5-15.5	8-Aug-96	8010	-	380	310	<0.5	260	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10
MW-1	5.5-15.5	17-Sep-97	8010	-	460	250	<12	220	<12	<12	<12	<12	<12	<12	<12	<12	<12	<12	<12	<25
MW-1	5.5-15.5	17-Apr-98	8010	-	150	100	<0.5	98	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10
MW-2	5.5-15.5	4-Oct-94	8240	-	<0.5	<0.5	<0.5	23000	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10
MW-2	5.5-15.5	8-Aug-96	8010	-	<0.5	<0.5	<0.5	11000	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10
MW-2	5.5-15.5	18-Sep-97	8010	-	<0.5	<0.5	<0.5	8400	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1000
MW-2	5.5-15.5	17-Apr-98	8010	-	<0.5	<0.5	<0.5	5000	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5000
MW-2	5.5-15.5	8-Sep-98	8010	-	<1250	<1250	<1250	7100	<1250	<1250	<1250	<1250	<1250	<1250	<1250	<1250	<1250	<1250	<1250	<2500
MW-3	5.5-15.5	4-Oct-94	8240	-	<0.5	90	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10
MW-3	5.5-15.5	8-Aug-96	8010	-	<0.5	6.9	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10
MW-3	5.5-15.5	17-Sep-97	8010	-	100	110	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10
MW-3	5.5-15.5	17-Apr-98	8010	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0
MW-4	6-16	8-Aug-96	8010	-	77	140	<10	14	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<20
MW-41)(g)	6-16	8-Aug-96	8010	-	82	140	<10	15	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<20
MW-4	6-16	1-Nov-96	8010	-	75	100	<12	15	<12	<12	<12	<12	<12	<12	<12	<12	<12	<12	<12	<25

Table 2  
Analytical Results for Volatile Organic Compounds in Groundwater  
3695-3723 Haven Avenue Property  
Menlo Park, California

Sample Location	Screened Interval Depth (ft bgs) <sup>(a)</sup>	Sample Collection Date	EPA Analysis Method	Concentration in Groundwater (ug/L)																	
				Acetone	Benzene	Carbon Tetrachloride	Chloroform	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethane	cis-1,2-Dichloroethane	trans-1,2-Dichloroethane	Methylene Chloride	Tetrachloroethene	Toluene	1,1,1-Trichloroethane	Trichloroethene	1,1,2-Trichloro-1,2,2-Trifluoroethane <sup>(b)</sup>	Trichlorofluoromethane <sup>(c)</sup>	Vinyl Chloride	
MW-4	6-16	18-Sep-97	8010	-	-	82	110	<10	<10	<10	<10	14	<10	<10	<300	<10	<10	430	200	<10	<20
MW-4	6-16	17-Apr-98	8010	-	-	39	90	<12	<12	<12	<12	16	<12	<12	<125	<12	<12	590	-	<12	<25
MW-5B	24-34	1-Nov-96	8010	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	0.73	3.1	-	<0.5	<1.0
MW-5B	24-34	18-Sep-97	8010	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	0.9	<0.5	<0.5	<0.5	<5.0	<0.5	2	8.7	5.9	<0.5	<1.0
MW-5B	24-34	17-Apr-98	8010	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	2.6	<0.5	<0.5	<0.5	<5.0	<0.5	6.5	16	-	<0.5	<1.0
MW-5D (g)	24-34	17-Apr-98	8010	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	2.3	<0.5	<0.5	<0.5	<5.0	<0.5	5.4	17	-	<0.5	<1.0
MW-6H	21-31	1-Nov-96	8010	-	-	<100	<100	<100	<100	<100	250	<100	<100	<100	<1000	<100	<100	4500	-	<100	<200
MW-6B	21-31	17-Sep-97	8010	-	-	<50	60	<50	<50	<50	180	<50	<50	<50	<50	<50	<50	2600	7200	<50	<100
MW-6J	21-31	17-Apr-98	8010	-	-	<25	<25	<25	<25	<25	35	<25	<25	<25	<250	<25	<25	1280	-	<25	<50
MW-6B	21-31	8-Sep-98	8010	-	-	<100	<100	<100	<100	<100	120	<100	<100	<1000	<1000	<100	<100	3500	-	<100	<200
MW-7J	18-28	1-Nov-96	8010	-	-	1000	<1000	<1000	<1000	<1000	<1000	<1000	<1000	<1000	<10000	<1000	<1000	37000	-	<1000	<2000
MW-7B (g)	18-28	1-Nov-96	8010	-	-	1000	<1000	<1000	<1000	<1000	<1000	<1000	<1000	<1000	<10000	<1000	<1000	3800	-	<1000	<2000
MW-7J	18-28	18-Sep-97	8010	-	-	<2500	<2500	<2500	<2500	<2500	<2500	<2500	<2500	<2500	<25000	<2500	<2500	31000	<5000	<2500	<5000
MW-7B (g)	18-28	18-Sep-97	8010	-	-	<2500	<2500	<2500	<2500	<2500	<2500	<2500	<2500	<2500	<25000	<2500	<2500	30000	<5000	<2500	<5000
MW-7B	18-28	17-Apr-98	8010	-	-	<2500	<2500	<2500	<2500	<2500	<2500	<2500	<2500	<2500	<25000	<2500	<2500	52000	<5000	<2500	<5000
MW-7B	18-28	8-Sep-98	8010	-	-	<2500	<2500	<2500	<2500	<2500	<2500	<2500	<2500	<2500	<25000	<2500	<2500	49000	<5000	<2500	<2500

Notes

- (a) Depth of groundwater interval sampled in feet below ground surface ("ft bgs").
- (b) 1,1,2-Trichloro-1,2,2-Trifluoroethane = Freon 113
- (c) Trichlorofluoromethane = Freon 11
- (d) Less than symbol (" $<$ ") denotes that analyte was not present above the laboratory detection limit indicated.
- (e) A hyphen (-) indicates that no analysis was performed for the chemical.
- (f) Sample collected by Geomatrix, 1995; value unknown.
- (g) Duplicate sample.
- (h) Laboratory indicates this result is an estimated value.

**Table 3**  
**Risk-Based Action Levels for Soil**  
 3695-3723 Haven Avenue Property  
 Menlo Park, California

Chemical	Risk-Based Action Level for Soil (mg/kg)
Acetone	1000
Benzene	0.50
Carbon Tetrachloride	0.50
Chloroform	0.50
1,2-Dichlorobenzene	50
1,1-Dichloroethane	5.0
1,2-Dichloroethane	0.50
1,1-Dichloroethene	5.0
cis-1,2-Dichloroethene	500
trans-1,2-Dichloroethene	50
Methylene Chloride	0.50
Tetrachloroethene	0.50
Toluene	5.0
1,1,1-Trichloroethane	5.0
Trichloroethene	3.2 (b)
1,1,2-Trichloro-1,2,2-Trifluoroethane	1000
Vinyl Chloride	0.075 (b)

Note:

- (a) Risk-based action level concentrations rounded to two significant digits.
- (b) These volatile organic compounds have been detected in Site soil at concentrations greater than the risk-based action level.

1999-138819  
 08/09/1999 03:24P  
 DR Page: 51 of 163





**Table 4**  
**Risk-Based Action Levels for Groundwater**  
**3695-3723 Haven Avenue Property**  
**Menlo Park, California**

Chemical	Risk-Based Action Level for Groundwater (ug/L)
Acetone	500
Benzene	1,000
Carbon Tetrachloride	2,600
Chloroform	2,000
1,2-Dichlorobenzene	500
1,1-Dichloroethane	510
1,2-Dichloroethane	500
1,1-Dichloroethene	520
cis-1,2-Dichloroethene	50,000
trans-1,2-Dichloroethene	510
Methylene Chloride	560
Tetrachloroethene	510
Toluene	510
1,1,1-Trichloroethane	510
Trichloroethene	8,000 (b)
1,1,2-Trichloro-1,2,2-Trifluoroethane	29,000
Vinyl Chloride	500 (b)

**Notes**

- (a) Risk-based action level concentrations rounded to two significant digits.
- (b) These volatile organic compounds have been detected in Site groundwater at concentrations greater than the risk-based action level.

1998-135810  
08/08/1999 03:24P  
OR Page 62 of 163



FRANCISCO

BAY

SAN FRANCISCO BAY  
NATIONAL  
WILDLIFE  
REFUGE

SLUGH

SALT

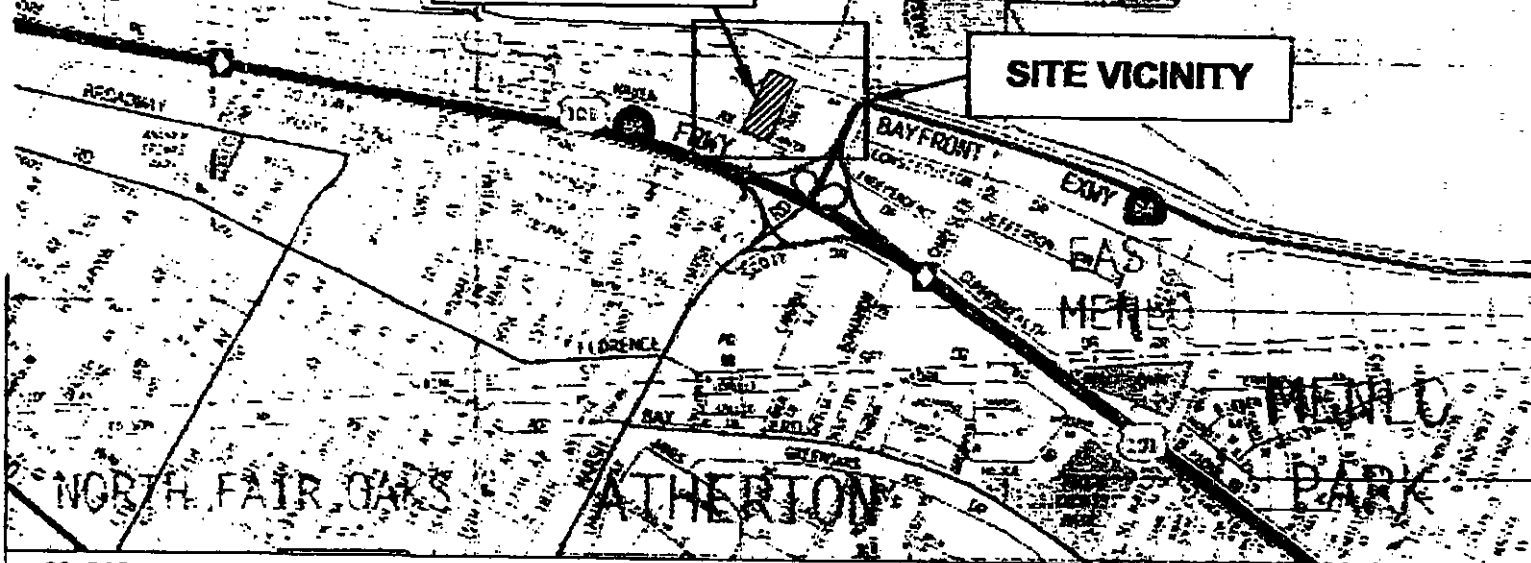
EVAPORATORS

EVAPORATORS

**SITE LOCATION**

3645-3723 HAVEN AVENUE  
MENLO PARK, CA

**SITE VICINITY**



SOURCE: SANTA CLARA / SAN MATEO COUNTIES THOMAS GUIDE, 1997.



0 2400 4800



(Approximate Scale in Feet)

**Erler &  
Kalinowski, Inc.**

Site Location

3645-3723 Haven Avenue  
Menlo Park, CA

March 1999

EKI 960007.07

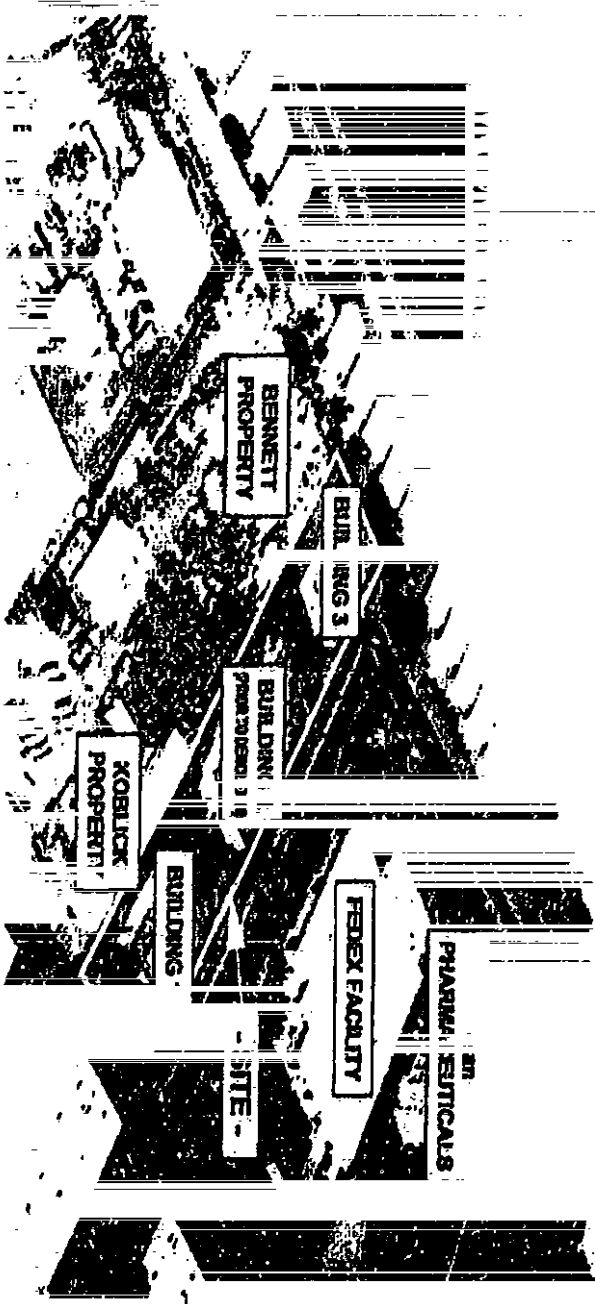
Figure 1

08/08/1999 03:24P  
Page 63 of 183



**FORMER MENTLO  
PARK LANDFILL**





BENNETT  
PROPERTY

BUILDING 3

BUILDING  
FROM DEMOLITION

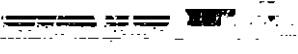
KOBLICK  
PROPERTY

BUILDINGS

FEDEX FACILITY

PHARMACEUTICALS

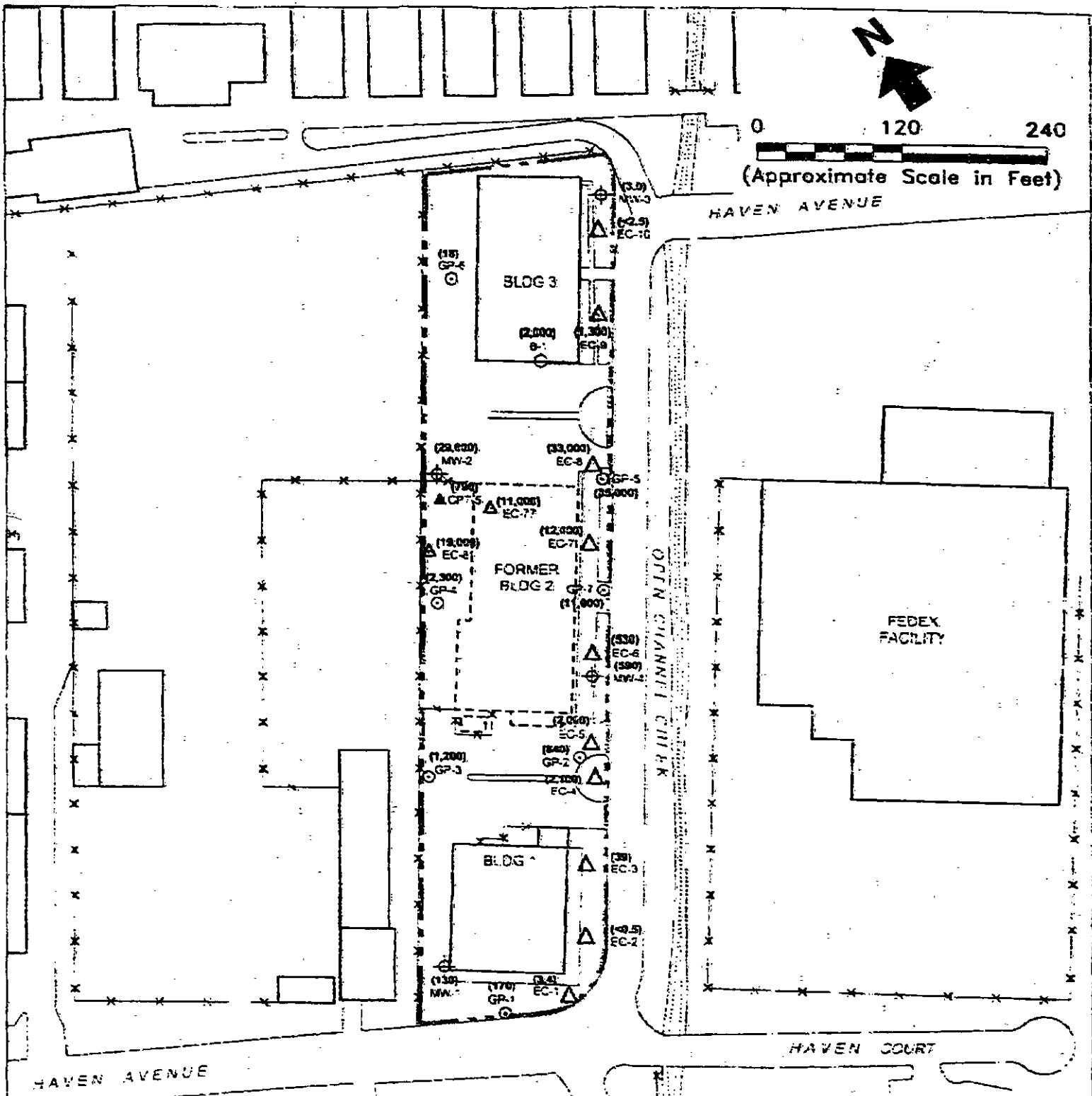
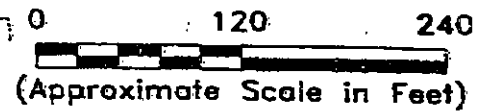
SITE











**LEGEND**

- ⊕ Groundwater Monitoring Well Screened in The A-Zone (ES, 1994, EKI, August 1996)
- Grab Groundwater Sample (ES, 1994)
- ⊙ Geoprobe Sample From 10-15 feet bgs (Geomatrix, 1995)
- ▲ CPT/PIPP Sample (July and August 1996)
- △ Grab Groundwater Sample (October 1996)

- △ Grab Groundwater Sample (April and September 1998)
- (170) TCE Concentration (ug/L) Detected in Groundwater Sample

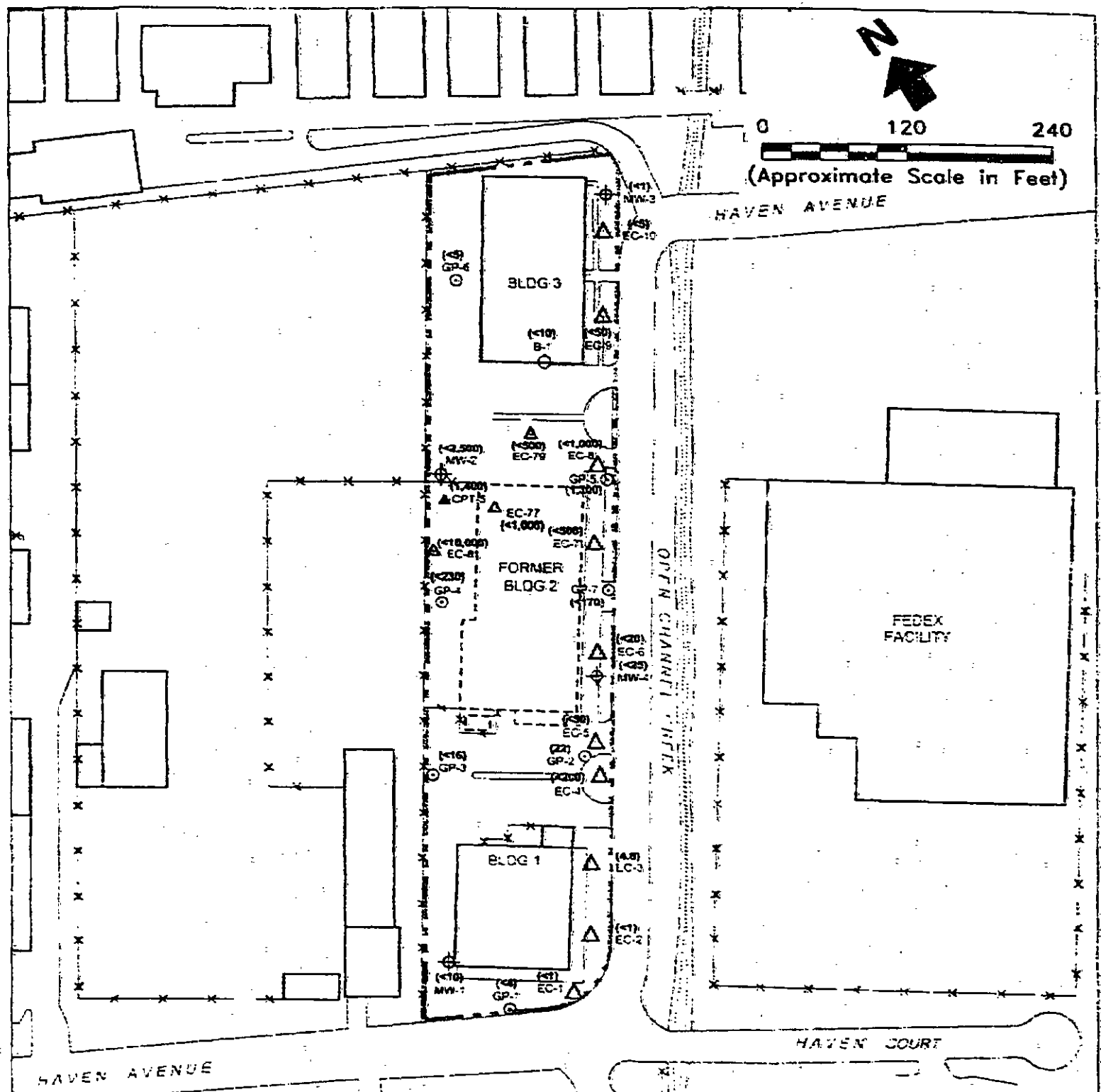
**Notes:**

1. All locations are approximate.
2. The A-Zone extends from 0 to approximately 15 feet bgs.
3. The B-Zone extends from approximately 15-38 feet bgs.
4. bgs = below ground surface.
5. CPT/PIPP = Cone Penetrometer Test/Push In PVC Piezometer.
6. TCE = Trichloroethene

**Erler & Kalinowski, Inc.**

Concentrations of TCE (ug/L)  
 Detected in Groundwater Samples  
 Collected From the A-Zone  
 3645-3723 Haven Avenue and Vicinity  
 Menlo Park, CA  
 March 1999  
 EKI 960007.07  
 Figure 6





**LEGEND**

- ⊕ Groundwater Monitoring Well Screened in The A-Zone (ESI, 1994; E-KI, August 1996)
- Grab Groundwater Sample (ESI, 1994)
- ⊙ Geoprobe Sample From 10-15 feet bgs (Geomatrix, 1995)
- ▲ CPT/PIPP Sample (July and August 1996)
- △ Grab Groundwater Sample (October 1996)

- △ Grab Groundwater Sample (April and September 1996)
- (170) Vinyl Chloride Concentration (ug/L) Detected in Groundwater Sample

- Notes:**
1. All locations are approximate.
  2. The A-Zone extends from 0 to approximately 15 feet bgs.
  3. The B-Zone extends from approximately 15-38 feet bgs.
  4. bgs = below ground surface.
  5. CPT/PIPP = Cone Penetrometer Test/Push in PVC Piezometer.

**Erler & Kalinowski, Inc.**

Concentrations of Vinyl Chloride (ug/L) Detected in Groundwater Samples Collected From the A-Zone  
3645-3723 Haven Avenue and Vicinity  
Menlo Park, CA  
March 1999  
EKI 960007.07  
Figure 7

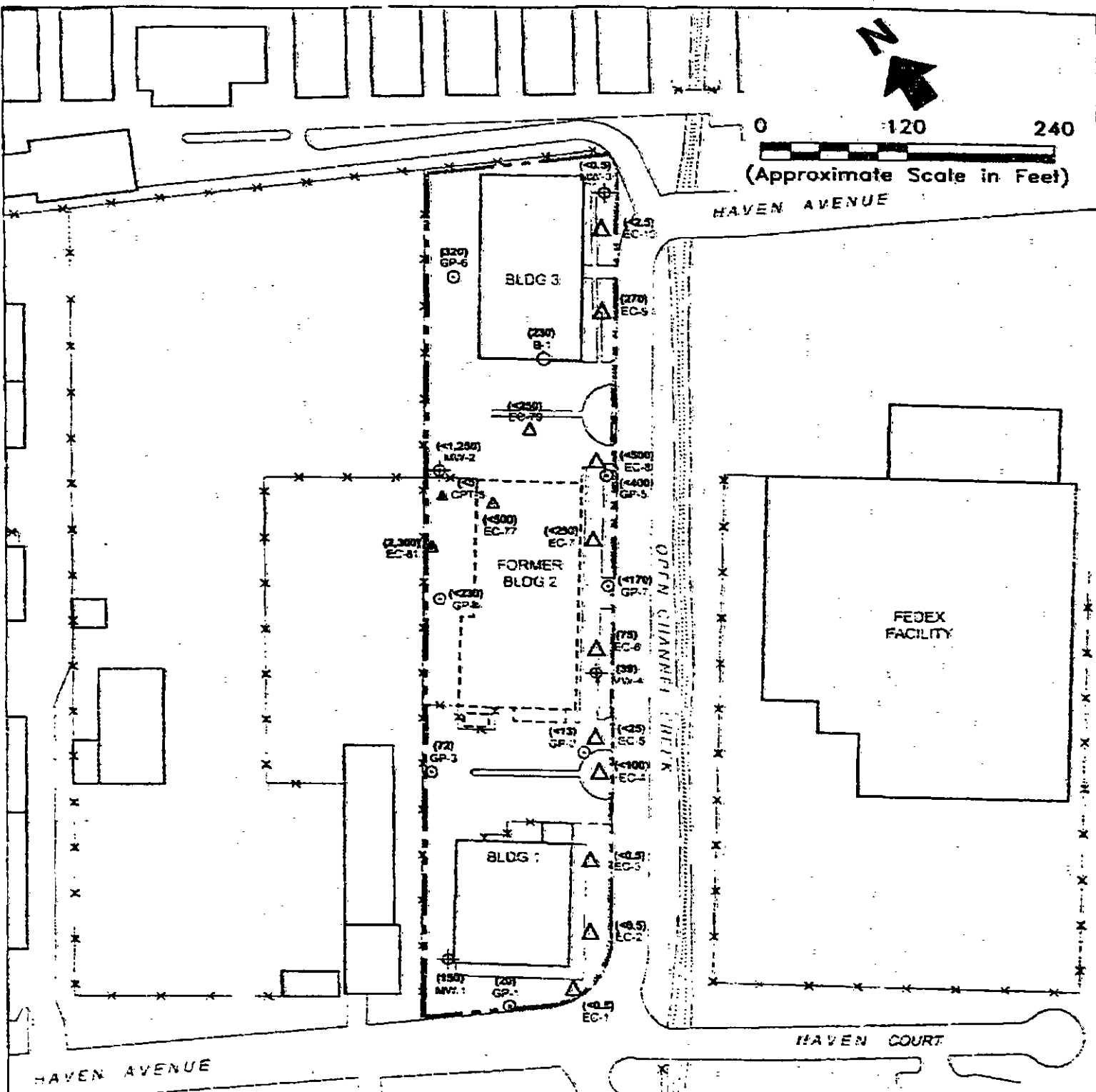


0 120 240  
 (Approximate Scale in Feet)

HAVEN AVENUE

YVINE LANE

HAVEN COURT



**LEGEND**

- ⊕ Groundwater Monitoring Well Screened in The A-Zone (ESI, 1994; EKI, August 1996)
- Grab Groundwater Sample (ESI, 1994)
- ⊙ Geoprobe Sample From 10-15 feet bgs (Geomatrix, 1995)
- ▲ CPT/PIPP Sample (July and August 1996)
- △ Grab Groundwater Sample (October 1996)

- △ Grab Groundwater Sample (April and September 1998)
- (170) Carbon Tetrachloride Concentration (ug/L) Detected in Groundwater Sample

**Notes:**

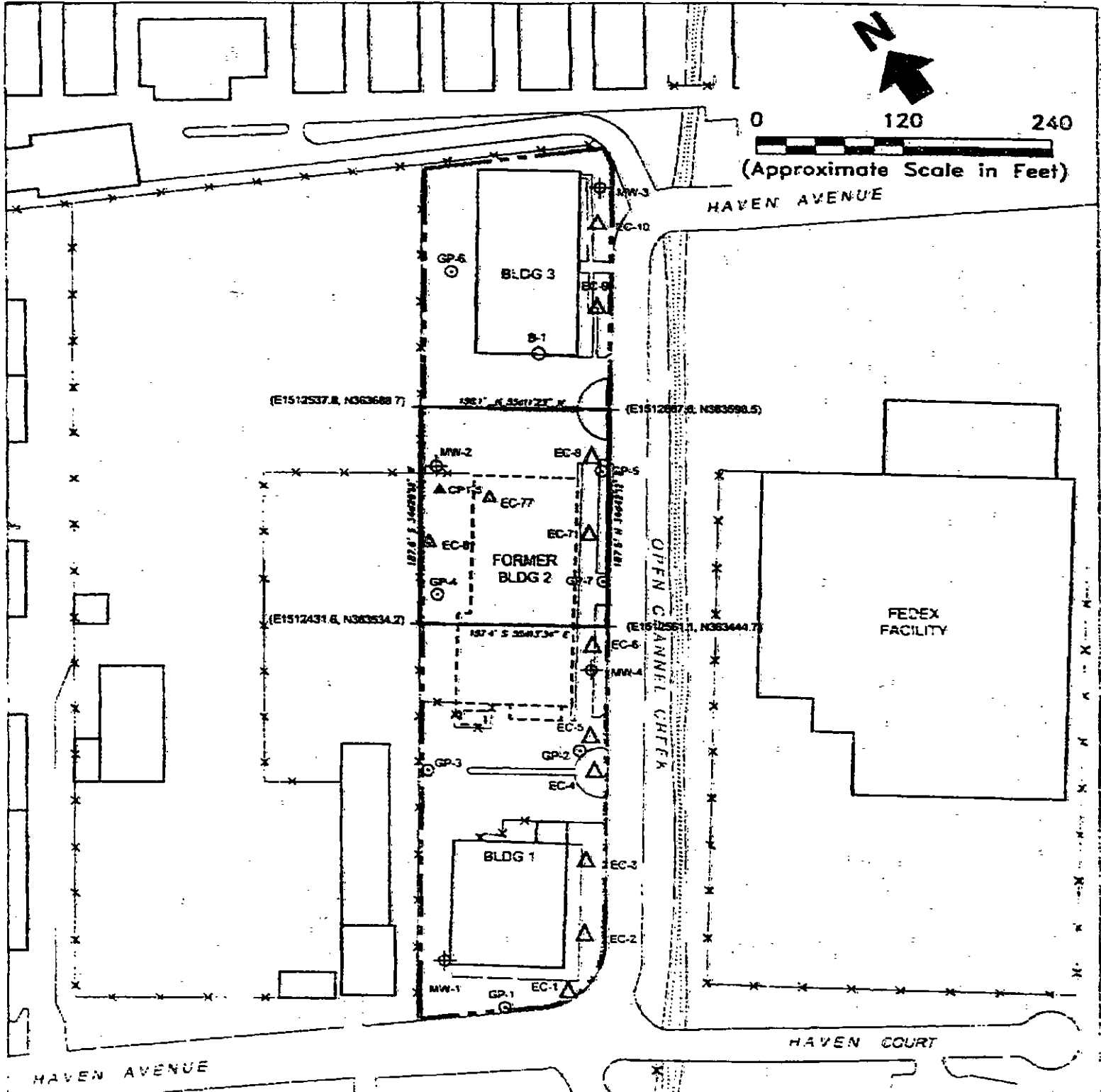
1. All locations are approximate
2. The A-Zone extends from 0 to approximately 15 feet bgs
3. The B-Zone extends from approximately 15-38 feet bgs.
4. bgs = below ground surface
5. CPT/PIPP = Cone Penetrometer Test/Push in PVC Piezometer
6. TCE = Trichloroethene

**Erler & Kalinowski, Inc.**

Concentrations of Carbon Tetrachloride (ug/L) Detected in Groundwater Samples Collected From the A-Zone  
 3645-3723 Haven Avenue and Vicinity  
 Menlo Park, CA  
 March 1999  
 EKI S60007.07  
 Figure 8

1999-138815  
 08/08/1999 03:24P  
 DR Page: 80 of 163





**LEGEND**

- ⊕ Groundwater Monitoring Well Screened in The A-Zone (ESI, 1994; EKI, August 1996)
- Grab Groundwater Sample (ESI, 1994)
- ⊙ Geoprobe Sample From 10-15 feet bgs (Geomatrix, 1995)
- ▲ CPT/PIPP Sample (July and August 1996)
- △ Grab Groundwater Sample (October 1996)
- △ Grab Groundwater Sample (April and September 1998)
- Lateral Extent of A-Zone Groundwater Exceeding Risk-Based Action Levels
- N363-28.6 Northing Coordinate
- E151257.1 Easting Coordinate

- Notes:
1. All locations are approximate.
  2. The A-Zone extends from 0 to approximately 15 feet bgs.
  3. The B-Zone extends from approximately 15-38 feet bgs.
  4. bgs = below ground surface.
  5. CPT/PIPP = Cone Penetrometer Test/Push in PVC Piezometer.

**Erler & Kalinowski, Inc.**

**A-Zone Groundwater Exceeding Risk-Based Action Levels**

3645-3723 Haven Avenue and Vicinity  
 Menlo Park, CA  
 March 1999  
 EKI 960007.07  
 Figure 9

**ATTACHMENT A**

**(Appendix A of Feasibility Study/ Remedial Action Plan,  
dated 12 March 1999)**

**HUMAN HEALTH RISK ASSESSMENT**

**3695 - 3723 HAVEN AVENUE  
MENLO PARK, CALIFORNIA**

*Prepared by:*

**Erler & Kalinowski, Inc.  
1730 South Amphlett Blvd., Suite 320  
San Mateo, CA 94402**

**12 March 1999  
EKI 960007.07**

**1999-135815  
03/09/1999 03:24P  
DR Page: 63 of 163**



APPENDIX A

HUMAN HEALTH RISK ASSESSMENT

3695-3723 Haven Avenue Property  
Menlo Park, California  
(EKI 960007.07)

TABLE OF CONTENTS

EXECUTIVE SUMMARY .....	ES-1
1. INTRODUCTION.....	1
2. ASSESSMENT OF BASELINE HUMAN HEALTH RISKS .....	3
2.1 Identification of Potentially Exposed Receptor Populations and Relevant Exposure Pathways.....	3
2.2 Chemicals of Concern in Soil and Groundwater .....	6
2.3 Toxicity Criteria .....	7
2.3.1 Non-Carcinogenic Toxicity Criteria .....	7
2.3.2 Carcinogenic Toxicity Criteria.....	8
2.4 Calculation of Exposure Point Concentrations and Chronic Daily Intakes.....	8
2.4.1 Ingestion and Dermal Contact Exposure Pathways .....	8
2.4.2 Inhalation Exposure Pathways .....	9
2.5 Baseline Risk Characterization.....	13
2.5.1 Future Indoor Workers.....	15
2.5.2 Future Maintenance Workers.....	15
2.5.3 Construction Workers .....	15
3. CALCULATION OF RISK-BASED ACTION LEVELS FOR SOIL AND GROUNDWATER .....	16
4. CONSERVATIVE ASSUMPTIONS IN THE RISK ASSESSMENT.....	17
5. REFERENCES.....	20

1999-130610  
08/07/1999 03:24P  
OR Page: 05 of 103



## **LIST OF TABLES**

- A-I Summary of Baseline Risks to Hypothetical Future Site Populations**
- A-II Risk-Based Action Levels for VOCs in Soil**
- A-III Risk-Based Action Levels for VOCs in Groundwater**
  
- A-1. Summary of Chemical Analytical Data for Soil Samples**
- A-2. Summary of Chemical Analytical Data for Groundwater Samples**
- A-3. Representative Concentrations of Chemicals in Soil and Groundwater**
- A-4. Oral and Inhalation Non-Carcinogenic Toxicity Information for Chemicals of Concern**
- A-5. Oral and Inhalation Carcinogenic Toxicity Information for Chemicals**
- A-6. Human Exposure Assumptions**
- A-7. Site Physical Parameter Assumptions**
- A-8. Chemical Parameters of Compounds Present in Site Soil or Groundwater**
- A-9. Characterization of Baseline Human Health Risks due to Inhalation of COCs Volatilized from Subsurface Soil for Future Indoor Workers**
- A-10. Characterization of Baseline Human Health Risks due to Inhalation of COCs Volatilized from Groundwater for Future Indoor Workers**
- A-11. Characterization of Baseline Human Health Risks due to Ingestion of COCs in Soil for Future Maintenance Workers**
- A-12. Characterization of Baseline Human Health Risks due to Dermal Contact with COCs in Soil for Future Maintenance Workers**
- A-13. Characterization of Baseline Human Health Risks due to Inhalation of COCs Volatilized from Subsurface Soil for Future Maintenance Workers**
- A-14. Characterization of Baseline Human Health Risks due to Inhalation of COCs Volatilized from Groundwater for Future Maintenance Workers**
- A-15. Characterization of Baseline Human Health Risks due to Ingestion of COCs in Soil for Construction Workers**
- A-16. Characterization of Baseline Human Health Risks due to Dermal Contact with COCs in Soil for Construction Workers**
- A-17. Characterization of Baseline Human Health Risks due to Inhalation of COCs Volatilized from Subsurface Soil for Construction Workers**
- A-18. Characterization of Baseline Human Health Risks due to Inhalation of COCs Volatilized from Groundwater for Construction Workers**



**LIST OF TABLES (CONTINUED)**

- A-19. Summary of Baseline Human Health Risks from All Exposure Pathways for Future Indoor Workers
- A-20. Summary of Baseline Human Health Risks from All Exposure Pathways for Future Maintenance Workers
- A-21. Summary of Baseline Human Health Risks from All Exposure Pathways for Construction Workers
- A-22. Risk-Based Action Levels for Soil
- A-23. Risk-Based Action Levels for Groundwater
- A-24. Summary of Estimated Human Health Risks from All Exposure Pathways at Action Levels for Future Indoor Workers
- A-25. Summary of Estimated Human Health Risks from All Exposure Pathways at Action Levels for Future Maintenance Workers
- A-26. Summary of Estimated Human Health Risks from All Exposure Pathways at Action Levels for Future Construction Workers

1999-135515  
08/08/1999 03:24P  
OF Page : 67 of 153



## EXECUTIVE SUMMARY

This human health risk assessment was performed to:

- Evaluate potential impacts to human health by chemicals of concern ("COCs") present in soil and groundwater at the commercial/industrial property located at 3695-3723 Haven Avenue, Menlo Park, California (the "Site"); and,
- Develop risk-based action levels for soil and groundwater at the Site.

An analysis of risk was conducted assuming hypothetical exposure scenarios for potential future occupants of the Site. Occupants were subdivided into three hypothetical receptor populations based on their expected locations and activities. Each hypothetical population is described herein with a unique set of environmental and physiological assumptions, and was thus assumed to be exposed to different concentrations of chemicals for different amounts of time. All assumptions used in the risk assessment are quantified in the attached tables.

Baseline risks were calculated for the following three hypothetical receptor populations at the Site:

- Future commercial/industrial building occupants, who will work indoors on-Site over a long period of time ("Indoor Workers");
- Future maintenance personnel such as groundskeepers, who will labor primarily outdoors over a long period of time ("Maintenance Workers").
- Workers involved in the construction of new buildings or subsurface utilities on-Site, who will occupy the Site for much more limited periods ("Construction Workers"); and

A summary table of calculated baseline risks to each of the hypothetical future populations is shown below (Table A-1). These values represent the estimated total (a) Hazard Index for non-carcinogenic adverse health affects, and (b) incremental excess carcinogenic risk ("Cancer Risk"), to the hypothetical populations due to current Site conditions. In general, potential exposure pathways considered in the calculation of these baseline risks include exposure through incidental ingestion of soil, dermal contact with soil, inhalation of vapors from soil, and inhalation of vapors from groundwater.

One of the assumptions regarding the future Indoor Worker receptor population is that, unlike future Maintenance and Construction Workers, its members never work directly with soil. Thus, incidental ingestion and dermal contact with contaminated soil are not considered exposure pathways for this population. Inhalation of volatile organic





compounds evaporating from soil and groundwater were considered as complete pathways for all hypothetical populations.

HYPOTHETICAL POPULATION	BASELINE HAZARD INDEX	BASELINE CANCER RISK
Future Indoor Workers	0.08	$1.9 \times 10^{-5}$
Future Maintenance Workers	0.03	$4.5 \times 10^{-6}$
Construction Workers	0.01	$1.0 \times 10^{-7}$

Table A-I. Summary of Baseline Risks to Hypothetical Future Site Populations.

A more complete summary of estimated Hazard Index and Cancer Risk for the above populations may be found in Tables A-19, A-20, and A-21. Risk calculations are further documented in Tables A-9 through A-18.

### Risk Calculations

Table A-19 is a summary of estimated baseline risks for Indoor Workers. The most significant chemical/pathway combination for Indoor Workers, in terms of Cancer Risk, is inhalation of TCE evaporating from groundwater. The non-carcinogenic Hazard Index for this population is dominated by inhalation of vinyl chloride, trichloroethene ("TCE"), and *cis*-1,2-dichloroethene ("*cis*-1,2-DCE") from groundwater.

Baseline estimated Hazard Indices and Cancer Risk for Maintenance Workers through all pathways are listed in Table A-20. The most significant chemical/pathway combination for the Maintenance Worker receptor population is inhalation of vinyl chloride volatilizing from soil.

Baseline estimated Hazard Indices and Cancer Risk for all Construction Worker exposure pathways are listed in Table A-21. The most significant chemical/pathway combination, both in terms of Cancer Risk and the non-carcinogenic Hazard Index for the Construction Worker receptor population is inhalation of vinyl chloride volatilizing from soil.

### Calculation of Risk-Based Action Levels

Using the baseline risks calculated for the hypothetical receptor populations at the Site, risk-based action levels for soil and groundwater have been calculated, as discussed below.

1888-138810  
 08/09/1989 03 24P  
 DR Page 58 of 182



Risk-based action levels for soil and groundwater were calculated to apportion post-remediation risk such that overall Cancer Risk to the Indoor Worker, Maintenance Worker, and Construction Worker are each at or below  $1.0 \times 10^{-5}$ , and overall Hazard Index is at or below 1.0.

Table A-II is a listing of the risk-based action levels for those chemicals found in Site soil at concentrations exceeding the risk-based action levels. These include vinyl chloride and TCE. A more complete listing of risk-based action levels in soil for all chemicals of concern is provided in Table A-22.

VOLATILE ORGANIC COMPOUND	RISK-BASED ACTION LEVEL IN SOIL (ug/kg)
vinyl chloride	75
trichloroethene	3,200

Table A-II. Risk-Based Action Levels for VOCs in Soil

Table A-III is a summary of risk-based action levels for chemicals with maximum concentrations found in Site groundwater exceeding the risk-based action levels, i.e. TCE and vinyl chloride. Table A-23 is a more detailed enumeration of the calculated groundwater risk-based action levels.

VOLATILE ORGANIC COMPOUND	RISK-BASED ACTION LEVEL IN GROUNDWATER (ug/L)
vinyl chloride	500
trichloroethene	8,000

Table A-III. Risk-Based Action Levels for VOCs in Groundwater.

The method used for apportioning risk was to allocate most of the "available" risk to the more hazardous chemicals and those more commonly found at the Site. This approach minimizes the volume of soil and groundwater potentially requiring remediation, while keeping future hypothetical populations' estimated risks below target levels. Concentrations of vinyl chloride and TCE have been encountered in soil and groundwater samples from the Site in exceedence of their risk-based action levels. Other chemicals of concern have been discovered at concentrations consistently below the action levels.

Tables A-24, A-25, and A-26 are summaries of Hazard Index and Cancer Risk to each of the three hypothetical future worker populations at the calculated risk-based action levels

1999-135815  
08/09/1999 03:28P  
DR Page: 70 of 153



for soil and groundwater. Cumulative Hazard Indices and Cancer Risks are equal to or below 1.0 and  $1.0 \times 10^{-5}$ , respectively, in each case. Therefore, the risk-based action levels for soil and groundwater presented in Tables A-II and A-III result in an acceptable level of risk for future potentially exposed populations.

Future installation of monitoring wells (or other on-Site environmental work) may involve the collection of soil or groundwater samples for chemical analysis. Such analyses could potentially indicate the presence of chemical concentrations different from the current dataset. In this case, risk-based action levels for the Site may be recalculated to reflect the improved understanding of the distribution and concentrations of chemicals in Site soil or groundwater.

1999-135815  
08/08/1999 03:34P  
DR Page 71 of 153



## 1. INTRODUCTION

This appendix presents a human health risk assessment that was performed to:

- evaluate potential impacts to human health by chemicals of concern ("COCs") present in soil and groundwater at the commercial/industrial property located at 3705-3723 Haven Avenue, Menlo Park, California (the "Site"), and
- develop risk-based action levels for soil and groundwater at the Site.

Note that baseline risks at the Site were calculated previously for development of risk-based action levels for soil excavation using data collected prior to April 1998 (EKI 1998c; EKI 1999b). The methods and assumptions used in the risk calculations described herein are consistent with the previous risk calculations, with the following exceptions. The previous risk assessment used the most conservative measured values of vadose and capillary zone saturated porosities for Site soil. The calculated risks presented herein have instead assumed Site-average values for each parameter. Some additional groundwater data were collected for the Site after April 1998. Therefore, the data set used herein to calculate the baseline risk at the Site has been updated to include all the soil and groundwater data for the Site available as of February 1999. Also, the proposed risk-based action levels have now been developed to consider VOCs in both soil and groundwater.

The risk assessment was conducted assuming hypothetical exposure scenarios for future occupants of the Site. Occupants are subdivided into several receptor populations based on their expected locations and activities. Each group was assumed to be subjected to different concentrations of chemicals for different amounts of time. All assumptions used in the risk assessment are quantified in the attached tables.

This report is divided into three major sections. The first discusses criteria used to define each of the future occupant populations, outlines the chemicals present at the Site and their representative concentrations, and explains the toxicity criteria used in calculations. The second section presents and discusses the calculation of risk-based cleanup goals at the Site, and the third section discusses conservative assumptions used and uncertainty involved in the calculations.

This risk assessment was performed using guidelines published by the U.S. Environmental Protection Agency ("USEPA"), the California Environmental Protection Agency ("Cal-EPA"), and the American Society for Testing and Materials ("ASTM"), in the following documents:

- USEPA, December 1989, *Risk Assessment Guidance for Superfund, Volume 1, Human Health Evaluation Manual*.

08/08/1999 03:24P  
DR Page 72 of 163

- Cal-EPA, July 1992, *Supplemental Guidance for Human Health Multimedia Risk Assessments of Hazardous Waste Sites and Permitted Facilities*.
- ASTM, September 1995, *Standard Guide for Risk-Based Corrective Action Applied at Petroleum Release Sites ("RBCA")*.

Although all three documents are used for guidance in the risk assessment calculations, RBCA was the source of transport models used to calculate indoor and outdoor air exposure point concentrations for the assessment.

Chemicals of concern at the Site include halogenated volatile organic compounds ("VOCs"), acetone, and the aromatics benzene and toluene. Ordered by frequency of detection, the most common contaminants in soil and groundwater are trichloroethene ("TCE"), *cis*-1,2-dichloroethene ("*cis*-1,2-DCE"), and 1,1,2-trichloro-1,2,2-trifluoroethane ("CFC-113"). In groundwater, chloroform is also a common constituent. Based on the current set of samples, more chemicals appear to be present at detectable levels in groundwater than in soil.



## 2. ASSESSMENT OF BASELINE HUMAN HEALTH RISKS

The objective of a risk assessment for a particular location is to calculate the potential for adverse health effects, caused by chemicals present at the Site, to hypothetical current and future populations that may use the Site. The Site is currently unoccupied. Therefore, risk calculations in this report concern only hypothetical future populations. This section presents a discussion of the following topics:

- Potentially exposed receptor populations and relevant exposure pathways,
- Chemicals of concern present in soil and groundwater,
- Toxicity criteria for the chemicals of concern used in risk calculations,
- Assumptions used to calculate representative and exposure-point contaminant concentrations, and
- Results of the risk calculations.

### 2.1 Identification of Potentially Exposed Receptor Populations and Relevant Exposure Pathways

The Site is a commercial/industrial property, previously used for the manufacture of polished silicon wafers. It is located in a low-elevation, industrial/commercial area, approximately one hundred feet south of the salt evaporation ponds at the margin of San Francisco Bay. Two buildings are located on the Site; both are currently vacant. Populations at risk of potential exposure to chemicals of concern at the Site are therefore limited to hypothetical future populations of workers, which for the purpose of this study are grouped into three categories:

- Future commercial/industrial building occupants, who will work indoors on-Site over a long period of time ("Indoor Workers");
- Future maintenance personnel such as groundskeepers, who will labor primarily outdoors over a long period of time ("Maintenance Workers"); and
- Workers involved in the construction of new buildings or subsurface utilities on-Site, who will occupy the Site for much more limited periods ("Construction Workers").

Based on current land use and zoning, no residential, health-care, or educational facilities are expected to be built on-Site. Thus, all potentially exposed receptor populations in the risk assessment are assumed to be adults. Each potentially exposed future population at the Site has a set of possible exposure mechanisms, or pathways, through which it may come in contact with various chemicals of concern. These exposure pathways are dependent upon the type of activity or tasks expected from the population.



Oral ingestion of groundwater is a potential exposure pathway that was considered and rejected. Analytical results for samples of groundwater from the Site range from 8,600 mg/L to 154,200 mg/L total dissolved solids ("TDS") [EKL, 1999a], which classifies the water as brackish to saline [Drever, 1988]. The groundwater beneath the Site cannot be considered a potential source of drinking water because these values exceed the California state TDS guideline of 3,000 mg/L for drinking water sources (CRWOCB, 1995).

Dermal contact with groundwater was also rejected. Historic depth to groundwater at the Site is six to eight feet below ground surface ("bgs") [EKL, 1997a]. Expected depth of excavation for future construction utility installation or repair is estimated to be less than six to eight feet, so direct dermal exposure to groundwater is not treated as a valid exposure pathway for any of the hypothetical future Site receptor populations.

For the purpose of calculating baseline risk, parameters assumed in this study for each of the receptor populations are the following:

- INDOOR WORKERS

- \* Exposure Pathways:

- Inhalation of volatiles from groundwater
- Inhalation of volatiles from soil

- \* Exposure Parameters:

- Frequency: 250 working days per year, none doing excavation work; all days spent working indoors
- Duration: 25 years

- MAINTENANCE WORKERS

- \* Exposure Pathways:

- Inhalation of volatiles from soil
- Inhalation of volatiles from groundwater
- Dermal contact with soil
- Incidental ingestion of soil

- \* Exposure Parameters:

- Frequency: 250 working days per year: 5 days of excavation work, 245 days of non-excavation work; all working days spent outside
- Duration: 25 years



• CONSTRUCTION WORKERS

• Exposure Pathways:

- Inhalation of volatiles from soil
- Inhalation of volatiles from groundwater
- Dermal contact with soil
- Incidental ingestion of soil

• Exposure Parameters:

- Frequency: 250 working days per year, 87 spent doing excavation work
  - Duration: 4 months

Unlike the Indoor Worker population, Maintenance and Construction Workers are assumed to have contact with Site soil in the course of their jobs during excavation work. Thus, dermal contact and incidental ingestion pathways are considered for these populations. Although the hypothetical Maintenance and Construction Worker populations share the same potential exposure pathways, the two groups differ in exposure duration. Maintenance Workers, being permanent employees, are assumed to undergo exposure through activities at the Site for 25 years [USEPA, 1991].

Construction Workers are assumed to have a much shorter per-individual exposure of one year, a span of time assumed to encompass the earthwork stage of a construction project. An additional difference between the two outdoor receptor populations is the assumption that Maintenance Workers engage in excavation-type activities for an average of 5 days per year of 250 days, whereas Construction Workers perform excavation 87 days (four months) of their work year. This is significant in that excavation work is modeled with a higher soil ingestion rate than non-excavation activity.

The Site is almost completely covered by asphalt or concrete. Due to this cover, mobilization of chemicals through inhalation of particulate matter from surficial soils is not considered as a viable exposure pathway. The assumption was made that the Site will retain a similar type of cover, such as asphalt, concrete, or clean landscaping fill, in the future. Volatilization of chemicals from surficial soils to ambient air is similarly precluded, as almost none of the soil at the Site exists at the surface. For modeling purposes, all contaminated soil is treated as subsurface soil.

Mobilization and diffusion of vapor-phase chemicals (volatilized from soil or groundwater) from the subsurface to the surface is driven by a concentration gradient between the subsurface source of the vapors and the local atmosphere. Many chemicals at the Site are present in both soil and groundwater, and are conservatively assumed, in the baseline risk calculations, to volatilize and diffuse from both soil and groundwater into the atmosphere.





1992a; Cal-EPA, 1992]. The conservative assumption is made whereby analyses that did not detect a particular chemical of concern are treated as though the chemical had been detected at a concentration of one half the detection limit [USEPA, 1989].

Representative concentrations for all chemicals of concern at the Site are shown in Table A-3.

## 2.3 Toxicity Criteria

Accumulated data from various laboratory toxicity studies have been compiled and interpreted by a number of Federal and State agencies, among them the U.S. Environmental Protection Agency and the California Environmental Protection Agency. Results from human and, more commonly, animal trials are summarized into reference doses ("RfDs") for non-carcinogenic chemicals and risk slope factors ("SFs") for carcinogens. Toxicity values used in this risk assessment are taken from a hierarchy of several sources. If the needed value was not available in the preferred source, the next most reviewed source was consulted, and so on.

Non-carcinogen RfDs are preferentially obtained from the U.S. EPA Integrated Risk Information System ("IRIS") [USEPA, 1996], an on-line database of peer-reviewed toxicity information. The next most desirable RfD sources, in order of preference, are the U.S. EPA Health Effects Summary Tables ("HEAST") [USEPA, 1997], the U.S. EPA National Center for Environmental Assessment ("NCEA") Risk Assessment Issue Papers, and the Cal-EPA Office of Environmental Health Hazard Assessment Technical Support Document for the Determination of Non-Cancer Chronic Reference Exposure Levels ("OEHHA") [Cal-EPA, 1997].

Carcinogen SFs are preferentially culled from the Cal-EPA Memorandum Concerning Cancer Potency Factors: Update [Cal-EPA, 1996]. Values unavailable in that document are obtained from one of the above references for RfDs, in the same order of preference.

### 2.3.1 Non-Carcinogenic Toxicity Criteria

Toxicity of non-carcinogenic chemicals is expressed through reference doses, or RfDs, in units of milligrams per kilogram of body weight per day (mg/kg-day). The RfD for a particular chemical of concern is the hypothetical dose which will cause no adverse effects in human populations. An oral or ingestion reference dose ("RfDo") for a chemical is calculated from a different set of experiments than is an inhalation reference dose ("RfDi"). When one quantity or the other is unavailable, a "route-to-route extrapolation," or substitution, is sometimes used in the above data sources to estimate the missing value. As most toxicity studies are performed on laboratory animals, direct quantitative data for human toxicity of a particular chemical are uncommon. Published RfDs therefore generally contain safety factors of one or two orders of magnitude, to account for cross-species uncertainty, uncertainty from experimental procedures, and other effects. RfDs may be interpreted as representing the maximum "safe" dosage of a non-carcinogenic chemical. A low RfD indicates a low threshold dose, and therefore a



more toxic chemical; a high RfD denotes a substance with less toxicity. Reference doses for each chemical of concern at the Site are listed in Table A-4, together with a summary of demonstrated health effects and sources of the toxicological data.

### 2.3.2 Carcinogenic Toxicity Criteria

Toxicity for carcinogens is expressed as a risk slope factor, or "SF". Units of an SF are inverse exposure units, or (mg/kg-day)<sup>-1</sup>. When multiplied by a dose, the inverse dosage units cancel, resulting in a dimensionless value that represents the risk associated with that dose. Slope factors are therefore the "plausible upper-bound estimates of the probability of a carcinogenic response per unit of chemical intake over a lifetime" [USEPA, 1989]. As opposed to RfDs, chemicals with low SFs are less carcinogenic than those with high SFs. Slope factors for chemicals of concern at the Site are summarized in Table A-5, along with carcinogenic effects and SF data sources for each chemical.

### 2.4 Calculation of Exposure Point Concentrations and Chronic Daily Intakes

Based on the calculated representative concentrations for the chemicals of concern at the Site, estimates can be calculated for the concentration each potentially exposed receptor population might experience through a particular set of exposure pathways. Called exposure point concentrations ("EPCs"), these values, along with parameters describing the potentially exposed populations, allow determination of a Chronic Daily Intake ("CDI") for each chemical, population, and pathway. CDIs are expressed as dosages, in units of milligram of chemical per kilogram of body weight per day (mg/kg-day). Carcinogenic CDIs are calculated differently from non-carcinogenic CDIs. Averaging time is assumed to be 25 years for non-carcinogens but a full lifetime of 70 years for carcinogens. Assumed values for all parameters, along with the sources of the assumptions, are summarized in Table A-6.

#### 2.4.1 Ingestion and Dermal Contact Exposure Pathways

For the cases of soil ingestion and dermal contact, exposure point concentrations are identical to representative concentrations. CDIs for the two potential future receptor populations assumed to have the greatest likelihood of contact with Site soil, Maintenance Workers and Construction Workers, are calculated according to equations [1] and [2]:

Ingestion:

$$CDI_i = \frac{C_s \times IR_s \times EF \times ED \times 10^{-6} \frac{\text{kg}}{\text{mg}}}{BW \times AT} \quad [1]$$

where

CDI<sub>i</sub> = Chronic daily intake through ingestion (mg/kg-day)

C<sub>s</sub> = Representative Concentration = Concentration in soil (mg/kg)



- IR<sub>s</sub> = Ingestion rate of soil (mg/day)  
 EF = Exposure frequency (days/year)  
 ED = Exposure duration (years)  
 BW = Body weight (kg)  
 AT = Averaging time (days)

Dermal Contact:

$$CDI_{dc} = \frac{C_s \times SA_s \times ABS \times AF \times EF \times ED \times 10^{-6} \frac{kg}{mg}}{BW \times AT} \quad [2]$$

where

- CDI<sub>dc</sub> = Chronic daily intake through dermal contact (mg/kg-day)  
 C<sub>s</sub> = Representative Concentration = Concentration in soil (mg/kg)  
 SA<sub>s</sub> = Surface area of skin exposed to soil contact (cm<sup>2</sup>/event)  
 ABS = Soil-dermal absorption fraction (unitless)  
 AF = Soil adherence factor (mg/cm<sup>2</sup>)  
 EF = Exposure frequency (days/year)  
 ED = Exposure duration (years)  
 BW = Body weight (kg)  
 AT = Averaging time (days)

The Maintenance and Construction Worker scenarios differ with regard to incidental ingestion of soil. A Maintenance Worker is assumed to excavate soil for a total of 5 days during a work year of 250 days. In contrast, a Construction Worker is assumed to engage in excavation labor for four months (approximately 87 days) throughout the 250-day work year. Soil ingestion is assumed to occur at a rate of 480 mg/day during excavation activity and 50 mg/day during routine maintenance activities [USEPA, 1991; Cal-EPA, 1992]. See Table A-6 for more details of human exposure assumptions.

2.4.2 Inhalation Exposure Pathways

Chemicals of concern can volatilize from the subsurface into the air, posing a potential hazard to on-Site workers breathing in the vicinity. Different algorithms are used to calculate Exposure Point Concentrations ("EPCs") for indoor and outdoor air. When chemicals evaporate from soil and groundwater, the rate of transfer, based on each chemical's volatility, must first be determined before air EPCs can be calculated. Volatilization is modeled as a linear transfer function of the chemical's concentration in soil or groundwater [ASTM, 1995]. Expressed as a volatilization factor ("VF"), the transfer function is based, in part, on a chemical's Henry's Law constant, diffusion coefficients in air and water, and organic carbon partition coefficient. Exposure point concentrations in air due to volatilization of chemicals present in soil and groundwater are calculated for all future worker receptor populations through equations [3], and [4]:



$$C_a = VFx \times RC \times AgF \quad [3]$$

for excavation work, and

$$C_a = VFx \times RC \quad [4]$$

for non-excavation work, where

- $C_a$  = Concentration in air, or EPC (mg/m<sup>3</sup>)
- RC = Representative concentration of the chemical (mg/kg or mg/L)
- AgF = Agitation factor to model enhanced evaporation from excavation (unitless)

and the general term VFx refers to one of the following pathway and chemical-specific Volatilization Factors ("VFs"):

$VF_{s_{amb}}$  = Soil-to-outdoor air (ambient) pathway (kg soil/m<sup>3</sup> air):

$$VF_{s_{amb}} = \frac{H \times \rho_s \times 10^3 \frac{cm^3 \text{ kg}}{m^3 \text{ g}}}{[\theta_{ws} + (k_{oc} \times f_{oc} \times \rho_s) + (H \times \theta_{AS})] \times \left( 1 + \frac{U_{AIR} \times \delta_{AIR} \times L_S}{D_S^{eff} \times W} \right)} \quad [5]$$

$VF_{w_{amb}}$  = Groundwater-to-outdoor air (ambient) pathway (L H<sub>2</sub>O/m<sup>3</sup> air):

$$VF_{w_{amb}} = \frac{H \times 10^3 \frac{L}{m^3}}{\left( 1 + \frac{U_{AIR} \times \delta_{AIR} \times L_{GW}}{D_{ws}^{eff} \times W} \right)} \quad [6]$$

$VF_{s_{esp}}$  = Soil-to-indoor air (enclosed space) pathway (kg soil/m<sup>3</sup> air):

$$VF_{s_{esp}} = \frac{\frac{H \times \rho_s}{[\theta_{ws} + (k_{oc} \times f_{oc} \times \rho_s) + (H \times \theta_{AS})]} \times \left[ \frac{D_S^{eff}}{L_S \times ER \times L_B} \right] \times 10^3 \frac{cm^3 \text{ kg}}{m^3 \text{ g}}}{1 + \left[ \frac{D_S^{eff}}{L_S \times ER \times L_B} \right] + \left[ \frac{D_S^{eff} \times L_{CRACK}}{L_S \times D_{CRACK}^{eff} \times \eta} \right]} \quad [7]$$

1999-135815  
 08/09/1998 03:24P  
 DR Page 91 of 153



$VFW_{exp}$  = Groundwater-to-indoor air (enclosed space) pathway (L H<sub>2</sub>O/m<sup>3</sup> air):

$$VFW_{exp} = \frac{H \times \left[ \frac{D_{ws}^{eff}}{L_{GW} \times ER \times L_B} \right] \times 10^3 \frac{L}{m}}{1 + \left[ \frac{D_{ws}^{eff}}{L_{GW} \times ER \times L_B} \right] + \left[ \frac{D_{ws}^{eff} \times L_{CRACK}}{L_{GW} \times D_{CRACK}^{eff} \times \eta} \right]} \quad [8]$$

VFs are based, in part, upon effective diffusion coefficients for each chemical, calculated as follows:

$D_s^{eff}$  = Effective diffusion coefficient in soil based on vapor concentration (cm<sup>2</sup> / s):

$$D_s^{eff} = \left[ D^{air} \times \frac{(\theta_{AS})^{10/3}}{(\theta_T)^2} \right] + \left[ D^{water} \times \frac{(\theta_{WS})^{10/3}}{H \times (\theta_T)^2} \right] \quad [9]$$

$D_{CAP}^{eff}$  = Effective diffusion coefficient through capillary fringe (cm<sup>2</sup> / s):

$$D_{CAP}^{eff} = \left[ D^{air} \times \frac{(\theta_{ACAP})^{10/3}}{(\theta_T)^2} \right] + \left[ D^{water} \times \frac{(\theta_{WCAP})^{10/3}}{H \times (\theta_T)^2} \right] \quad [10]$$

$D_{ws}^{eff}$  = Effective diffusion coefficient between groundwater and surface (cm<sup>2</sup> / s):

$$D_{ws}^{eff} = \frac{(h_{CAP} + h_y)}{\left[ \frac{h_{CAP}}{D_{CAP}^{eff}} + \frac{h_y}{D_s^{eff}} \right]} \quad [11]$$

$D_{CRACK}^{eff}$  = Effective diffusion coefficient through floor or wall cracks (cm<sup>2</sup> / s):

$$D_{CRACK}^{eff} = \left[ D^{air} \times \frac{(\theta_{ACRACK})^{10/3}}{(\theta_T)^2} \right] + \left[ D^{water} \times \frac{(\theta_{WCRACK})^{10/3}}{H \times (\theta_T)^2} \right] \quad [12]$$

Where:

$D^{air}$  = Diffusion coefficient of the chemical in air (cm<sup>2</sup> / s)

$D^{water}$  = Diffusion coefficient of the chemical in water (cm<sup>2</sup> / s)



$ER$	= Enclosed-space air exchange rate (L / sec)
$f_{OC}$	= Fraction of organic carbon in soil (g C / g soil)
$H$	= Henry's Law constant ( $\text{cm}^3 \text{H}_2\text{O} / \text{cm}^3 \text{air}$ )
$h_{cap}$	= Thickness of capillary fringe (cm)
$h_v$	= Thickness of vadose zone (cm)
$k_{OC}$	= Organic carbon-water sorption coefficient ( $\text{cm}^3 \text{H}_2\text{O} / \text{g C}$ )
$L_B$	= Enclosed-space volume / infiltration area ratio (cm)
$L_{CRACK}$	= Enclosed-space floor or wall thickness (cm)
$L_{GW}$	= Depth to groundwater, i.e. $h_{cap} + h_v$ (cm)
$L_S$	= Depth to subsurface soil sources (cm)
$U_{AIR}$	= Wind speed above ground surface in ambient mixing zone (cm / sec)
$W$	= Width of source area parallel to wind or groundwater flow direction (cm)
$\delta_{AIR}$	= Ambient air mixing zone height (cm)
$\delta_{GW}$	= Groundwater mixing zone thickness (cm)
$\eta$	= Areal fraction of cracks in floor or wall ( $\text{cm}^2 \text{cracks} / \text{cm}^2 \text{total area}$ )
$\theta_{ACAP}$	= Volumetric air content in capillary fringe soil ( $\text{cm}^3 \text{air} / \text{cm}^3 \text{soil}$ )
$\theta_{ACRACK}$	= Volumetric air content in floor or wall cracks ( $\text{cm}^3 \text{air} / \text{cm}^3 \text{crack vol.}$ )
$\theta_{AS}$	= Volumetric air content in vadose zone soil ( $\text{cm}^3 \text{air} / \text{cm}^3 \text{soil}$ )
$\theta_T$	= Total soil porosity ( $\text{cm}^3 / \text{cm}^3 \text{soil}$ )
$\theta_{WCAP}$	= Volumetric water content in capillary fringe soil ( $\text{cm}^3 \text{water} / \text{cm}^3 \text{soil}$ )
$\theta_{WCRACK}$	= Volumetric water content in floor or wall cracks ( $\text{cm}^3 \text{water} / \text{cm}^3 \text{crack vol.}$ )
$\theta_{WS}$	= Volumetric water content in vadose zone soil ( $\text{cm}^3 \text{water} / \text{cm}^3 \text{soil}$ )
$\rho_S$	= Soil bulk density (g soil / $\text{cm}^3 \text{soil}$ )

Volatilization Factors are calculated according to the method described in the ASTM RBCA guidance [ASTM, 1995]. Air diffusion coefficients (" $D_{air}$ ") for chemicals of concern at the Site are estimated using the FSG method [Lyman, et al., 1990; USEPA, 1988]. Water diffusion coefficients (" $D_{water}$ ") are calculated through the method of Hayduk and Laudie [Lyman, et al., 1990]. Ambient-air VFs are used for calculations regarding Construction and Maintenance Workers, while enclosed-space air VFs are used for Indoor Worker EPC calculations. Specific physical parameter assumptions used in the above VF equations can be found in Table A-7; the quantities are Site-specific and noted as such where available, and otherwise are default values from the ASTM RBCA guidance [ASTM, 1995]. Table A-8 lists the resulting VFs and other data for each chemical of concern and volatilization pathway.

Construction Workers are modeled herein as performing excavation for their four month on-Site tenure of 87 working days (USEPA, 1991; Cal-EPA, 1992), consequently equation [3] is applied throughout. Maintenance Workers, however, are assumed to only labor five days per year in excavation tasks; AgF is only factored in through the use of equation [3] for those five days annually. The rest of the time, Maintenance Worker air EPCs are calculated using equation [4]. Indoor Workers are assumed to never perform excavation tasks, thus air EPCs are calculated with equation [4].



Chronic Daily Intakes in air due to volatilization of chemicals present in soil are calculated for all future worker receptor populations through equation [13]:

$$CDI_{inh} = \frac{C_a \times IR_a \times EF \times ED}{BW \times AT} \quad [13]$$

where

- CDI<sub>inh</sub> = Chronic daily intake through inhalation (mg/kg-day)
- C<sub>a</sub> = Concentration in air, or EPC (mg/m<sup>3</sup>)
- IR<sub>a</sub> = Inhalation rate of air (m<sup>3</sup>/day)
- EF = Exposure frequency (days/year)
- ED = Exposure duration (years)
- BW = Body weight (kg)
- AT = Averaging time (days)

Chronic daily intakes of chemicals of concern for each valid population/pathway combination are summarized in Table A-9 through Table A-18.

## 2.5 Baseline Risk Characterization

For the purpose of risk assessment at the Site, effects from chemicals of concern are split into two broad categories, Cancer Risk and non-carcinogenic Hazard Index. Each of these types of risk is calculated differently, although many contaminants at the Site have both effects, and are assigned both classifications. The separation is driven by the toxicity data for the two chemical effect categories. Non-carcinogens are assigned a Reference Dose ("RfD") in mg/kg-day, and carcinogens are assigned a Slope Factor ("SF"), having inverse dosage units of (mg/kg-day)<sup>-1</sup>. This section outlines assumptions used to calculate quantitative, Site-specific estimates of potential health hazards from non-carcinogens and of incremental lifetime Cancer Risk from carcinogens occurring at the Site.

Note that baseline risks are calculated assuming receptor populations are unprotected from exposure to hazardous chemicals (i.e. no engineering controls or personal protection equipment used).

As discussed in Section 1.3, non-carcinogenic RfDs are generally based on the highest no-adverse-effects chronic dosages from several studies. The hazard of a chemical of concern through a particular exposure pathway is calculated as the Chronic Daily Intake ("CDI") divided by the RfD for that pathway. This quantity is called the Hazard Index ("HI"). It is unique to the site, chemical, exposure pathway, and receptor population:

$$HI_n = \frac{CDI_n}{RfD_n} \quad [14]$$



where

- $HI_n$  = Hazard Index for the  $n^{\text{th}}$  combination of population, exposure pathway, and chemical of concern (dimensionless)  
 $CDI_n$  = Chronic Daily Intake for the  $n^{\text{th}}$  combination of population, exposure pathway, and chemical of concern (mg/kg-day)  
 $RfD_n$  = Reference Dose for the  $n^{\text{th}}$  combination of exposure pathway and chemical of concern (mg/kg-day)

For an explanation of CDI calculation for each population / pathway combination, please see footnotes to Tables A-9 through A-18, as appropriate.

Summation of Hazard Indices over all pathways and chemicals gives the Hazard Index for each population, which is targeted to remain at or below a value of one. A total HI less than or equal to one indicates that the population will not be exposed to the chemical beyond a dosage considered safe.

Carcinogenic chemicals are assigned, based on experimental evidence and mathematical modeling, a published Slope Factor for each exposure pathway. When multiplied by the CDI for that pathway, a unitless quantity results which represents the incremental risk of developing cancer from exposure to that chemical, through that exposure pathway, over a lifetime of 70 years [USEPA, 1989].

$$CR_n = CDI_n \times SF_n \quad [15]$$

where

- $CR_n$  = Estimated incremental excess Cancer Risk for the  $n^{\text{th}}$  combination of population, exposure pathway, and chemical of concern (dimensionless)  
 $CDI_n$  = Chronic Daily Intake for the  $n^{\text{th}}$  combination of population, exposure pathway, and chemical of concern (mg/kg-day)  
 $SF_n$  = Slope Factor for the  $n^{\text{th}}$  combination of exposure pathway and chemical of concern (mg/kg-day)<sup>-1</sup>

As with the non-cancer Hazard Index, summation of risk from all chemicals over all pathways valid for a particular receptor population gives an overall Cancer Risk for the population at the Site. This value is targeted to remain at or below  $10^{-5}$ . The National Oil and Hazardous Substances Pollution Contingency Plan (40 CFR §300) mandates an acceptable range of maximum incremental carcinogenic risk between  $10^{-4}$  and  $10^{-5}$ . California law requires notification of on-Site workers if Cancer Risk is estimated to exceed  $10^{-5}$  (California Code of Regulations ("CCR") Title 22, Section 12703). The targeted maximum carcinogenic risk of  $10^{-5}$  satisfies both sets of regulations.

All potentially exposed populations are assumed to be unprotected in the baseline risk calculations.





### 2.5.1 Future Indoor Workers

One of the assumptions regarding the future Indoor Worker receptor population is that its members never work with soil, thus, incidental ingestion and dermal contact with contaminated soil are not considered exposure pathways for this population. Inhalation of volatile organic compounds evaporating from soil, however, is valid and is presented in Table A-9. The same data for inhalation of VOCs from groundwater is shown in Table A-10.

A summary of baseline hazard and risk for Indoor Workers may be found in Table A-19. The most significant chemical/pathway combination for Indoor Workers, in terms of Cancer Risk, is inhalation of TCE evaporating from groundwater. The non-carcinogenic Hazard Index for this population is dominated by inhalation of vinyl chloride, TCE, and cis-1,2-DCE from groundwater.

### 2.5.2 Future Maintenance Workers

Baseline risk characterization data for Maintenance Workers is compiled in several tables. Table A-11 summarizes the soil ingestion exposure pathway, and Table A-12 displays similar data for the soil dermal contact exposure pathway. Table A-13 displays Hazard Index and Cancer Risk for the inhalation pathway through volatilization of organic compounds from soil. The same calculations for inhalation of VOCs from groundwater are shown in Table A-14.

Hazard and risk for Maintenance Workers through all pathways is summarized in Table A-20. The most significant chemical/pathway combination for the Maintenance Worker receptor population is inhalation of vinyl chloride volatilizing from soil. Note that under existing Site conditions, potential risks experienced by the hypothetical Maintenance Worker population are within acceptable limits.

### 2.5.3 Construction Workers

Baseline Hazard indices and Cancer Risks for each chemical of concern at the Site are organized in the same way as for Maintenance Workers. Table A-15 lists the soil ingestion exposure pathway, and Table A-16 lists similar data for the soil dermal contact pathway. Table A-17 lists Hazard Index and Cancer Risk for the inhalation pathway of volatile organic compounds evaporating from soil; groundwater VOC volatilization is detailed in Table A-18. A summary of baseline Cancer Risks and Hazard Indices for all Construction Worker exposure pathways is listed in Table A-21. The most significant chemical/pathway combination, both in terms of potential carcinogenic risk and non-carcinogenic health hazard for the Construction Worker receptor population, is inhalation of vinyl chloride volatilizing from soil. Dermal contact with vinyl chloride is also a significant pathway in terms of generation of carcinogenic risk for Construction Workers. Note that under current conditions, potential risks experienced by the hypothetical Construction Worker population are less than the acceptable maximum values.

1999-135819  
06/09/1999 03:24P  
DR Page: 06 of 183



### 3. CALCULATION OF RISK-BASED ACTION LEVELS FOR SOIL AND GROUNDWATER

Using the baseline risks calculated for the hypothetical receptor populations at the Site, risk-based action levels for soil and groundwater have been calculated, as discussed below. Risk-based action levels have been calculated considering potential exposures to future hypothetical receptor populations, i.e., Indoor Workers, Maintenance Workers, and Construction Workers.

Risk-based action levels for soil and groundwater were calculated to apportion post-remediation risk such that overall Cancer Risk to all hypothetical worker populations is at or below  $1.0 \times 10^{-5}$ , and overall Hazard Index is at or below 1.0. The method used for apportioning risk was to allocate most of the risk to the more hazardous chemicals and those more commonly found at the Site. This approach minimizes the volume of soil and groundwater potentially requiring remediation, while keeping future hypothetical populations' estimated risks below target levels.

Table A-22 lists risk-based action levels for soil, and Table A-23 lists risk-based action levels for groundwater. Current representative concentrations of chemicals within soil and groundwater are also shown on Tables A-22 and A-23 for comparison. TCE and vinyl chloride have been detected in Site soil and groundwater at concentrations greater than their respective risk-based action levels.

Estimates of future estimated Hazard Indices and Cancer Risks for each of the hypothetical populations are listed in Tables A-24, A-25, and A-26. These risks represent estimates of what would result from cleanup of both soil and groundwater at the Site to the respective risk-based action levels. Estimated cumulative Hazard Indices and Cancer Risks for each hypothetical population are equal to or below 1.0 and  $1.0 \times 10^{-5}$ , respectively. Therefore, the risk-based action levels for soil and groundwater listed in Tables A-22 and A-23 would result in an acceptable level of risk for future potentially exposed populations.

If, in the future, chemicals are measured in soil or groundwater samples that differ significantly from the current dataset, risk-based action levels may be recalculated to more accurately reflect the distribution and concentrations of the chemicals.

1999-125015  
03/08/1999 03:24P  
OR Page: 67 of 163



#### 4. CONSERVATIVE ASSUMPTIONS IN THE RISK ASSESSMENT

The estimated baseline risks and the risk-based action levels presented in the attached tables are upper-bound, health conservative estimates of baseline risks and risk-based action levels for reasonable maximum exposure scenarios. Actual risks may be lower. This section discusses the conservative nature of some of the assumptions in the risk assessment.

Major conservative assumptions include:

- the method used to calculate representative concentrations for chemicals in soil and groundwater;
- the use of all chemicals detected on-Site for risk calculation, even if the frequency of detection was very low;
- the use of conservative exposure frequency assumptions (in days of exposure per year) for hypothetical future worker populations;
- "double counting" of certain calculated risks caused by summing the risks due to volatilization of VOCs from soil and from groundwater; and
- apportionment of risk to each chemical of concern in both soil and groundwater, even when the chemical was actually detected in only one medium.

##### 4.1 Calculation of Representative Concentrations

Representative concentrations of chemicals used to calculate baseline risks are assumed to be the lesser of the maximum detected concentration or the 95% upper confidence limit of the mean concentration ("95% UCL"), based on a lognormal model. When calculating the 95% UCL, samples without detectable concentrations were conservatively assumed to contain chemicals at concentrations equal to half the detection limit for the analyses. Potentially exposed populations may actually be exposed to a lesser concentration than either the maximum or the 95% UCL, as the distribution of chemicals at the Site is not homogeneous.

##### 4.2 Frequency of Detection

Chemicals detected in Site soil and groundwater are dominated by TCE and cis-1,2-DCE. As a conservative approach, however, all detected chemical species were used in calculation of baseline risks, regardless of each chemical's frequency of detection. Table A-3 shows frequencies of detection for all chemicals detected on-Site.



Given the overall conservative nature of the risk assessment, actual non-carcinogenic and carcinogenic risks to potentially exposed populations are likely to be significantly lower than reported herein. The calculated health risk-based action levels are founded on the same conservative assumptions as the baseline risk calculations. Consequently, chemicals present in soil and groundwater at their human health risk-based action level concentrations should not pose an adverse risk to occupants at the Site.

1998-132815  
08/08/1998 03:27P  
DR Page 98 of 153



## 5. REFERENCES

- ASTM, 1995, *Standard Guide for Risk-Based Corrective Action Applied at Petroleum Release Sites*. American Society for Testing and Materials, Designation E 1739-95, 10 September 1995.
- Cal-EPA, 1992, *Supplemental Guidance for Human Health Multimedia Risk Assessments of Hazardous Waste Sites and Permitted Facilities*. California Environmental Protection Agency, Department of Toxic Substances Control, July 1992.
- Cal-EPA, 1996, *Cancer Potency Factors: Update*. California Environmental Protection Agency, Standards and Criteria Work Group, Office of Environmental Health Hazard Assessment, April 1996.
- Cal-EPA, 1997, *Technical Support Document for the Determination of Non-Cancer Chronic Reference Exposure Levels*. California Environmental Protection Agency, Air Toxic and Epidemiology Section, Office of Environmental Health Hazard Assessment, October 1997.
- CRWQB, 1995, *San Francisco Bay Basin (Region 2) Water Quality Control Plan*. California Regional Water Quality Control Board, San Francisco Bay Region, June 1995.
- Drever, 1988, *The Geochemistry of Natural Waters, 2<sup>nd</sup> ed.* Prentice-Hall Pub. Co., Englewood Cliffs, NJ.
- EKI, 1999a. *Remedial Action Plan and Feasibility Study, 3695-3723 Haven Avenue, Menlo Park, California*. Erler & Kalinowski, Inc., 10 March 1999
- EKI, 1997a. *Remedial Investigation Report, 3695-3723 Haven Avenue and Vicinity, Menlo Park, California*. Erler & Kalinowski, Inc., 21 April 1997.
- Hem, J.D., 1985, *Study and Interpretation of the Chemical Characteristics of Natural Water*. U.S. Geological Survey Water-Supply Paper 2254.
- Lyman, W.J., W.F. Reehl, and D.H. Rosenblatt, 1990, *Handbook of Chemical Property Estimation Methods*. American Chemical Society, Washington, D.C.
- USEPA, 1988, *Superfund Exposure Assessment Manual*. EPA/540/1-88/001, U.S. Environmental Protection Agency, Office of Emergency and Remedial Response, April 1988.

1999-135818  
08/09/1999 of 249  
OK Page 91 of 183



## REFERENCES (CONTINUED)

- USEPA, 1989, *Risk Assessment Guidance for Superfund ("RAGS"), Volume 1, Human Health Evaluation Manual (Part A)*. EPA/540/12-89/002, U.S. Environmental Protection Agency, Office of Emergency and Remedial Response, December 1989.
- USEPA, 1991, *RAGS, Volume 1 - Human Health Evaluation Manual, Supplemental Guidance: Standard Default Exposure Factors*. Interim Final, OSWER Directive 9285.6-03, U.S. Environmental Protection Agency, Office of Solid Waste and Emergency Response, March 1991.
- USEPA, 1992a, *Supplemental Guidance to RAGS: Calculating the Concentration Term*. Intermittent Bulletin, Vol. 1, No. 1, Publication 9285.7-081, U.S. Environmental Protection Agency, Office of Solid Waste and Emergency Response.
- USEPA, 1996, *Integrated Risk Information System (IRIS)*, U.S. Environmental Protection Agency, Washington, D.C., [<http://www.epa.gov/iris>]

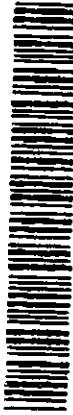
1999-12-13  
09/09/1999 01:34P  
OR Page 92 of 153





**Table A-1**  
**Summary of Chemical Analytical Data for Soil Samples**  
**3695-3723 Haven Avenue Property, Menlo Park, California**

Sample	Sample Depth Range (ft bgs) <sup>(a)</sup>	Sample Collection Date	Concentration in Soil (mg/kg)													
			Carbon Tetrachloride	Chloroform	1,2-Dichlorobenzene	1,1-Dichloroethane	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Tetrachloroethene	Trichloroethene	1,1,2-Trichloro-1,2,2-Trifluoroethane	Vinyl Chloride				
B101	2.0-2.5	04-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.05
B102	2.0-2.5	04-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.05
C-1	1.0-1.5	28-May-97	<0.025	<0.025	<0.025	<0.025	<0.025	0.65	<0.025	<0.025	<0.025	0.11	<0.025	<0.025	<0.025	<0.05
C-1	5.5-6.0	19-Jun-97	<0.05	<0.05	<0.05	<0.05	<0.05	1.5	<0.025	<0.025	<0.025	<0.05	<0.05	<0.05	<0.05	<0.1
C-2	1.0-1.5	28-May-97	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.14	<0.025	<0.025	<0.025	<0.05
C-2	3.5-4.0	19-Jun-97	<0.025	<0.025	<0.025	<0.025	<0.025	0.67	<0.025	<0.025	<0.025	0.52	<0.025	<0.025	<0.025	<0.05
C-3	1.0-1.5	28-May-97	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.05
C-4	1.0-1.5	28-May-97	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.05
C-5	1.0-1.5	28-May-97	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.05
C-6	1.0-1.5	28-May-97	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.05
C-7	1.0-1.5	28-May-97	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.05
EC-1	14-14.5	10-Oct-96	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01
EC-2	12.5-13	07-Oct-96	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01
EC-3	12.5-13	10-Oct-96	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01
EC-4	12.5-13	07-Oct-96	<0.005	<0.005	<0.005	<0.005	<0.005	0.035	<0.005	<0.005	<0.005	0.061	<0.005	<0.005	<0.005	<0.01
EC-5	12-12.5	11-Oct-96	<0.005	<0.005	<0.005	<0.005	<0.005	0.014	<0.005	<0.005	<0.005	0.064	<0.005	<0.005	<0.005	<0.01
EC-6	12-12.5	11-Oct-96	0.021	<0.02	0.021	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.34	<0.02	<0.02	<0.02	<0.04
EC-7	15-15.5	09-Oct-96	<0.01	0.011	<0.01	<0.01	<0.01	0.11	<0.01	<0.01	<0.01	0.25	<0.01	<0.01	<0.01	<0.02
EC-8	14.5-15	09-Oct-96	<0.1	<0.1	<0.1	<0.1	<0.1	0.29	<0.1	<0.1	<0.1	1.5	<0.1	<0.1	<0.1	<0.2
EC-9	15-15.5	08-Oct-96	<0.005	0.016	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.024	<0.005	<0.005	<0.005	<0.01
EC-10	14.5-15	08-Oct-96	<0.005	0.0056	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01
EC-12	3.5-4.0	19-Jun-97	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.073	<0.025	<0.025	<0.025	<0.05
EC-12	5.5-6.0	19-Jun-97	<0.025	<0.025	<0.025	<0.025	<0.025	0.027	<0.025	<0.025	<0.025	0.048	<0.025	<0.025	<0.025	<0.05
EC-13	1.5-2.0	19-Jun-97	<0.025	<0.025	<0.025	<0.025	<0.025	0.08	<0.025	<0.025	<0.025	0.073	<0.025	<0.025	<0.025	<0.05
EC-13	5.5-6.0	19-Jun-97	<0.025	<0.025	<0.025	<0.025	<0.025	0.13	<0.025	<0.025	<0.025	0.1	<0.025	<0.025	<0.025	<0.05



1999-135818  
 08/08/1999 03:24P  
 DR Page 84 of 183

Table A-1  
 Summary of Chemical Analytical Data for Soil Samples  
 3695-3723 Haven Avenue Property, Menlo Park, California

Sample	Sample Depth Range (ft bgs) <sup>(a)</sup>	Sample Collection Date	Concentration in Soil (mg/kg)																	
			Carbon Tetrachloride	Chloroform	1,2-Dichlorobenzene	1,1-Dichloroethane	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Tetrachloroethene	Trichloroethene	1,1,2-Trichloro-1,2,2-Trifluoroethane	Vinyl Chloride								
EC-14	2.0-2.5	19-Jun-97	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EC-14	5.5-6.0	19-Jun-97	<0.025	<0.025	<0.025	<0.025	0.097	<0.025	0.18	<0.025	<0.025	<0.025	<0.025	1.1	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
EC-15-A	3.5-4.0	19-Jun-97	<0.025	<0.025	<0.025	<0.025	0.35	<0.025	0.49	<0.025	<0.025	<0.025	<0.025	0.086	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
EC-15-A	5.5-6.0	19-Jun-97	<0.025	<0.025	<0.025	<0.025	0.91	<0.025	0.056	<0.025	<0.025	<0.025	<0.025	0.056	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
EC-16	2.0-2.5	19-Jun-97	<0.025	<0.025	<0.025	<0.025	0.039	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
EC-16	5.5-6.0	19-Jun-97	<0.025	<0.025	<0.025	<0.025	0.048	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
EC-17	2.0-2.5	19-Jun-97	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
EC-17	5.5-6.0	19-Jun-97	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
EC-18	5.5-6.0	19-Jun-97	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
EC-19	2.0-2.5	19-Jun-97	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
EC-19	5.5-6.0	19-Jun-97	<0.05	<0.05	<0.05	<0.05	0.38	0.55	0.19	<0.05	<0.05	<0.05	<0.05	0.19	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EC-20	2.0-2.5	19-Jun-97	<0.5	<0.5	<0.5	<0.5	<0.5	7.6	15	<0.5	<0.5	<0.5	<0.5	15	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
EC-20	5.5-6.0	19-Jun-97	<0.25	<0.25	<0.25	<0.25	<0.25	8.5	0.99	<0.25	<0.25	<0.25	<0.25	0.99	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25
EC-21	2.5-3.0	10-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
EC-21	5.0-5.5	10-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.027	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
EC-22	3.0-3.5	10-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.039	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
EC-22	5.0-5.5	10-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
EC-23	3.0-3.5	10-Sep-97	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	6.9	<0.25	<0.25	<0.25	<0.25	6.9	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25
EC-23	5.0-5.5	10-Sep-97	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	15	<0.5	<0.5	<0.5	<0.5	15	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
EC-24	3.5-4.0	10-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	0.51	0.68	<0.025	<0.025	<0.025	<0.025	0.68	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
EC-24	5.0-5.5	10-Sep-97	<2	<2	<2	<2	<2	36	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
EC-25	3.5-4.0	10-Sep-97	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	4.2	<0.25	<0.25	<0.25	<0.25	4.2	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25
EC-25	5.0-5.5	10-Sep-97	<0.5	<0.5	1.5	<0.5	<0.5	<0.5	13	<0.5	<0.5	<0.5	<0.5	13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
EC-26	3.5-4.0	11-Sep-97	<0.25	<0.25	<0.25	<0.25	0.27	0.27	3.6	<0.25	<0.25	<0.25	<0.25	3.6	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25
EC-26	5.0-5.5	11-Sep-97	<0.25	<0.25	<0.25	<0.25	5.4	5.4	0.77	<0.25	<0.25	<0.25	<0.25	0.77	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25



1 9 9 9 - 1 3 5 6 1 5  
08/08/1999 03:24P  
DR Page: 96 of 163

Table A-1  
Summary of Chemical Analytical Data for Soil Samples  
3695-3723 Haven Avenue Property, Menlo Park, California

Sample	Sample Depth Range (ft bgs) <sup>(a)</sup>	Sample Collection Date	Concentration in Soil (mg/kg)												
			Carbon Tetrachloride	Chloroform	1,2-Dichlorobenzene	1,1-Dichloroethane	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Tetrachloroethene	Trichloroethene	1,1,2-Trichloro-1,2,2-Trifluoroethane	Vinyl Chloride			
EC-27	3.0-3.5	11-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.089	<0.05	<0.05	<0.05
EC-27	5.0-5.5	11-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.23	<0.05	<0.05	<0.05
EC-28	1.0-1.5	11-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.05	<0.05	<0.05
EC-28	5.0-5.5	11-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.061	<0.05	<0.05	<0.05
EC-29	2.5-3.0	11-Sep-97	<0.2	<0.2	<0.2	<0.2	<0.2	0.26	<0.2	<0.2	<0.2	3.4	<0.4	<0.4	<0.4
EC-29	5.0-5.5	11-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.05	<0.05	<0.05
EC-30	1.5-2.0	11-Sep-97	<0.1	<0.1	<0.1	<0.1	<0.1	0.19	<0.1	<0.1	<0.1	1.3	<0.2	<0.2	<0.2
EC-30	5.0-5.5	11-Sep-97	<0.1	<0.1	<0.1	<0.1	<0.1	1.8	<0.1	<0.1	<0.1	0.21	<0.2	<0.2	<0.2
EC-31	3.0-3.5	10-Sep-97	<0.1	<0.1	<0.1	<0.1	<0.1	0.84	<0.1	<0.1	<0.1	2.1	<0.2	<0.2	<0.2
EC-31	5.0-5.5	10-Sep-97	<0.25	<0.25	<0.25	<0.25	<0.25	4.6	<0.25	<0.25	<0.25	0.92	<0.5	<0.5	<0.5
EC-32	2.5-3.0	10-Sep-97	<0.05	<0.05	<0.05	<0.05	<0.05	0.44	<0.05	<0.05	<0.05	1.0	<0.1	<0.1	<0.1
EC-32	5.0-5.5	10-Sep-97	<1	<1	<1	<1	<1	23	<1	<1	<1	1.1	<2	<2	<2
EC-33	2.5-3.0	10-Sep-97	<0.05	<0.05	<0.05	<0.05	<0.05	1.1	<0.05	<0.05	<0.05	1.0	<0.1	<0.1	<0.1
EC-33	5.0-5.5	10-Sep-97	<0.1	<0.1	<0.1	<0.1	<0.1	2.6	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	0.41
EC-34	3.0-3.5	10-Sep-97	<0.05	<0.05	<0.05	<0.05	<0.05	0.71	<0.05	<0.05	<0.05	1.3	0.11	<0.1	<0.1
EC-34	5.0-5.5	10-Sep-97	<0.2	<0.2	<0.2	<0.2	<0.2	4.9	<0.2	<0.2	<0.2	<0.2	<0.4	<0.4	<0.4
EC-35	2.5-3.0	10-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	0.031	<0.025	<0.025	<0.025	0.12	0.18	<0.05	<0.05
EC-35	5.0-5.5	10-Sep-97	<0.05	<0.05	<0.05	<0.05	<0.05	1.2	<0.05	<0.05	<0.05	1.1	0.67	0.19	<0.05
EC-36	2.0-2.5	10-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.1	<0.05	<0.05	<0.05
EC-36	5.0-5.5	10-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	0.21	<0.025	<0.025	<0.025	0.07	0.083	<0.05	<0.05
EC-37	2.0-2.5	10-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	0.28	<0.025	<0.025	<0.025	0.29	<0.05	<0.05	<0.05
EC-37	5.0-5.5	10-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	0.39	<0.025	<0.025	<0.025	0.39	0.7	0.08	<0.05
EC-38	3.0-3.5	10-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.05	<0.05	<0.05
EC-38	5.0-5.5	10-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	0.17	<0.025	<0.025	<0.025	<0.025	0.079	<0.05	<0.05
EC-39	2.5-3.0	10-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.05	<0.05	<0.05

Table A-1  
 Summary of Chemical Analytical Data for Soil Samples  
 3695-3723 Haven Avenue Property, Menlo Park, California

Sample	Sample Depth Range (ft bgs) <sup>(a)</sup>	Sample Collection Date	Concentration in Soil (mg/kg)											
			Carbon Tetrachloride	Chloroform	1,2-Dichlorobenzene	1,1-Dichloroethane	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Tetrachloroethene	Trichloroethene	1,1,2-Trichloro-1,2,2-Trifluoroethane	Vinyl Chloride		
EC-39	5.0-5.5	10-Sep-97	<0.05	<0.05	<0.05	<0.05	<0.05	0.85	<0.05	<0.05	<0.05	0.18	1.5	<0.1
EC-40	5.0-5.5	11-Sep-97	<0.025	<0.025	<0.025	<0.025	0.16	<0.025	<0.025	<0.025	0.4	0.93	<0.05	<0.05
EC-41	2.0-2.5	11-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	0.28	<0.025	<0.025	<0.025	<0.025	<0.05	<0.05
EC-41	5.0-5.5	11-Sep-97	<0.05	<0.05	<0.05	<0.05	0.051	1.6	<0.1	<0.1	0.68	0.87	<0.1	<0.1
EC-42	2.5-3.0	11-Sep-97	<0.025	<0.025	<0.025	<0.025	1.0	0.13	<0.05	<0.05	0.038	0.084	<0.05	<0.05
EC-42	5.0-5.5	11-Sep-97	<0.1	<0.1	<0.1	<0.1	2.3	2.5	<0.1	<0.1	2.7	0.91	<0.2	<0.2
EC-43	3.0-3.5	11-Sep-97	<0.05	<0.05	<0.05	<0.05	<0.05	0.13	<0.05	<0.05	0.84	<0.1	<0.1	<0.1
EC-43	5.0-5.5	11-Sep-97	<0.1	<0.1	<0.1	<0.1	<0.05	0.52	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
EC-44	3.5-4.0	11-Sep-97	<0.05	<0.05	<0.05	<0.05	<0.05	0.57	<0.1	<0.1	0.59	<0.1	<0.1	<0.1
EC-44	5.0-5.5	11-Sep-97	<0.1	<0.1	<0.1	<0.1	<0.1	2.5	<0.1	<0.1	<0.1	0.4	0.4	0.56
EC-45	2.5-3.0	11-Sep-97	<0.2	<0.2	<0.2	<0.2	<0.2	0.52	<0.2	<0.2	4.1	<0.4	<0.4	<0.4
EC-45	5.0-5.5	11-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	0.57	<0.025	<0.025	0.084	<0.05	<0.05	<0.05
EC-46	2.5-3.0	11-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.047	<0.05	<0.05	<0.05
EC-46	5.0-5.5	11-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.05	<0.05	<0.05
EC-47	2.5-3.0	12-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	0.13	<0.025	<0.025	0.15	<0.05	<0.05	<0.05
EC-47	5.0-5.5	12-Sep-97	<0.2	<0.2	<0.2	<0.2	2.9	2.9	<0.2	<0.2	0.44	<0.4	<0.4	<0.4
EC-48	2.0-2.5	15-Sep-97	<0.1	<0.1	<0.1	<0.1	1.1	1.1	<0.1	<0.1	0.28	<0.2	<0.2	<0.2
EC-48	5.0-5.5	15-Sep-97	<0.1	<0.1	<0.1	<0.1	10	10	<0.1	<0.1	1.8	<0.2	<0.2	<0.2
EC-49	1.5-2.0	12-Sep-97	<0.1	<0.1	<0.1	<0.1	1.6	1.6	<0.1	<0.1	0.68	0.43	<0.2	<0.2
EC-49	5.0-5.5	12-Sep-97	<0.5	<0.5	<0.5	<0.5	13	13	<0.5	<0.5	5.2	1.2	<0.1	<0.1
EC-50	1.5-2.0	12-Sep-97	<0.25	<0.25	<0.25	<0.25	3.3	3.3	<0.25	<0.25	1	<0.5	<0.5	<0.5
EC-50	5.0-5.5	12-Sep-97	<0.2	<0.2	<0.2	<0.2	9.2	9.2	<0.2	<0.2	40	7.6	<0.5	<0.5
EC-51	2.0-2.5	12-Sep-97	<0.05	<0.05	<0.05	<0.05	0.68	0.68	<0.05	<0.05	0.35	0.12	<0.1	<0.1
EC-51	5.0-5.5	12-Sep-97	<0.1	<0.1	<0.1	<0.1	10	10	<0.1	<0.1	2.7	3	<0.1	<0.1
EC-52	2.0-2.5	12-Sep-97	<0.025	<0.025	<0.025	<0.025	0.061	0.061	<0.025	<0.025	<0.025	0.12	<0.05	<0.05

Table A-1  
Summary of Chemical Analytical Data for Soil Samples  
3695-3723 Haven Avenue Property, Menlo Park, California

Sample	Sample Depth Range (ft bgs) <sup>(a)</sup>	Sample Collection Date	Concentration in Soil (mg/kg)											
			Carbon Tetrachloride	Chloroform	1,2-Dichlorobenzene	1,1-Dichloroethane	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Tetrachloroethene	Trichloroethene	1,1,2-Trichloro-1,2,2-Trifluoroethane	Vinyl Chloride		
EC-52	5.0-5.5	12-Sep-97	<0.2	<0.2	<0.2	<0.2	1.2	<0.2	<0.2	<0.2	<0.2	1.1	5.3	<0.4
EC-53	2.0-2.5	12-Sep-97	<0.2	<0.2	<0.2	<0.2	1.8	<0.2	<0.2	<0.2	0.37	<0.4	<0.4	<0.4
EC-53	5.0-5.5	12-Sep-97	<1	<1	<1	<1	22	<1	<1	<1	5.5	11	<2	<2
EC-54	2.0-2.5	12-Sep-97	<0.025	<0.025	<0.025	<0.025	0.12	<0.025	<0.025	<0.025	<0.025	0.22	0.22	<0.05
EC-54	5.0-5.5	12-Sep-97	<0.5	<0.5	<0.5	<0.5	2.7	<0.5	<0.5	<0.5	<0.5	5.6	<1	<1
EC-55	2.0-2.5	12-Sep-97	<0.025	<0.025	<0.025	<0.025	0.079	<0.025	<0.025	<0.025	0.058	0.12	0.12	<0.05
EC-55	5.0-5.5	12-Sep-97	<0.025	<0.025	<0.025	<0.025	0.06	<0.025	<0.025	<0.025	<0.025	0.16	0.16	<0.05
EC-56	2.0-2.5	12-Sep-97	<0.025	<0.025	<0.025	<0.025	0.087	<0.025	<0.025	<0.025	0.081	<0.05	<0.05	<0.05
EC-56	5.0-5.5	12-Sep-97	<0.05	<0.05	<0.05	<0.05	0.66	<0.05	<0.05	<0.05	0.36	0.65	0.65	<0.1
EC-57	2.0-2.5	12-Sep-97	<0.025	<0.025	<0.025	<0.025	0.032	<0.025	<0.025	<0.025	<0.025	<0.05	<0.05	0.19
EC-57	5.0-5.5	12-Sep-97	<0.2	<0.2	<0.2	<0.2	2.3	<0.2	<0.2	<0.2	0.16	2.1	<0.4	<0.4
EC-58	2.0-2.5	12-Sep-97	<0.025	<0.025	<0.025	<0.025	0.049	<0.025	<0.025	<0.025	<0.025	0.059	0.059	<0.05
EC-58	5.0-5.5	12-Sep-97	<0.25	<0.25	<0.25	<0.25	6.4	<0.25	<0.25	<0.25	0.75	2.7	<0.5	<0.5
EC-59	2.0-2.5	12-Sep-97	<0.025	<0.025	<0.025	<0.025	0.053	<0.025	<0.025	<0.025	<0.025	<0.05	<0.05	<0.05
EC-59	5.0-5.5	12-Sep-97	<0.1	<0.1	<0.1	<0.1	2.8	<0.1	<0.1	<0.1	0.51	1.6	<0.2	<0.2
EC-60	2.5-3.0	12-Sep-97	<0.025	<0.025	<0.025	<0.025	0.073	<0.025	<0.025	<0.025	<0.025	<0.05	<0.05	<0.05
EC-60	5.0-5.5	12-Sep-97	<0.05	<0.05	<0.05	<0.05	0.78	<0.05	<0.05	<0.05	<0.05	0.48	<0.1	<0.1
EC-61	2.5-3.0	12-Sep-97	<0.025	<0.025	<0.025	<0.025	0.046	<0.025	<0.025	<0.025	0.083	<0.05	<0.05	<0.05
EC-61	5.0-5.5	12-Sep-97	<0.025	<0.025	<0.025	<0.025	0.41	<0.025	<0.025	<0.025	<0.025	0.17	0.17	0.072
EC-62	2.5-3.0	12-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.27	<0.05	<0.05	<0.05
EC-62	5.0-5.5	12-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.05	<0.05	<0.05
EC-63	2.5-3.0	11-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.05	<0.05	<0.05
EC-63	5.0-5.5	11-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.078	<0.05	<0.05	<0.05
EC-64	2.5-3.0	12-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.21	<0.05	<0.05	<0.05
EC-64	5.0-5.5	12-Sep-97	<0.025	<0.025	<0.025	<0.025	0.15	<0.025	<0.025	<0.025	0.21	0.12	0.12	<0.05

Table A-1  
Summary of Chemical Analytical Data for Soil Samples  
3695-3723 Haven Avenue Property, Menlo Park, California

Sample	Sample Depth Range (ft bgs) <sup>(a)</sup>	Sample Collection Date	Concentration in Soil (mg/kg)														
			Carbon Tetrachloride	Chloroform	1,2-Dichlorobenzene	1,1-Dichloroethane	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Tetrachloroethene	Trichloroethene	1,1,2-Trichloro-1,2,2-Trifluoroethane	Vinyl Chloride					
EC-65	2.5-3.0	12-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.05
EC-65	5.0-5.5	12-Sep-97	<0.025	<0.025	<0.025	<0.025	0.25	<0.025	<0.025	<0.025	<0.025	0.33	<0.025	0.24	<0.025	<0.025	<0.05
EC-66	2.5-3.0	12-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.05
EC-66	5.0-5.5	12-Sep-97	<0.025	<0.025	<0.025	<0.025	0.34	<0.025	<0.025	<0.025	<0.025	0.42	<0.025	0.22	<0.025	<0.025	<0.1
EC-67	2.0-2.5	12-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.11	<0.025	<0.025	<0.05
EC-67	5.0-5.5	12-Sep-97	<0.025	<0.025	<0.025	<0.025	0.19	<0.025	<0.025	<0.025	<0.025	0.088	<0.025	0.081	<0.025	<0.025	<0.05
EC-68	2.5-3.0	12-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.05
EC-68	5.0-5.5	12-Sep-97	<0.025	<0.025	<0.025	<0.025	0.29	<0.025	<0.025	<0.025	<0.025	0.23	<0.025	0.17	<0.025	<0.025	<0.05
EC-69	2.0-2.5	12-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.05
EC-69	5.0-5.5	12-Sep-97	<0.025	<0.025	<0.025	<0.025	0.072	<0.025	<0.025	<0.025	<0.025	0.098	<0.025	0.17	<0.025	<0.025	<0.05
EC-70	2.0-2.5	10-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.05
EC-70	5.0-5.5	10-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	0.053	<0.025	<0.025	<0.025	0.22	<0.025	<0.025	<0.025	<0.025	<0.05
EC-71	1.5-2.0	11-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.05
EC-71	5.0-5.5	11-Sep-97	<0.025	<0.025	<0.025	<0.025	0.049	<0.025	<0.025	<0.025	<0.025	0.19	<0.025	<0.025	<0.025	<0.025	<0.05
EC-72	2.0-2.5	11-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.049	<0.025	<0.025	<0.025	<0.025	<0.05
EC-72	5.0-5.5	11-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.063	<0.025	<0.025	<0.025	<0.025	<0.05
EC-73	2.0-2.5	15-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.05
EC-73	6.0-6.5	15-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.05
EC-73	14.0-14.5	15-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.05
EC-74	2.0-2.5	15-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.05
EC-74	5.0-5.5	15-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.05
EC-74	11.5-12.0	15-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.05
EC-75	2.5-3.0	10-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.05
EC-75	5.0-5.5	10-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.37	<0.025	<0.025	<0.025	<0.025	<0.05
EC-76	2.0-2.5	10-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.05

Table A-1  
Summary of Chemical Analytical Data for Soil Samples  
3695-3723 Haven Avenue Property, Menlo Park, California

Sample	Sample Depth Range (ft bgs) <sup>(a)</sup>	Sample Collection Date	Concentration in Soil (mg/kg)										
			Carbon Tetrachloride	Chloroform	1,2-Dichlorobenzene	1,1-Dichloroethane	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Tetrachloroethene	Trichloroethene	1,1,2-Trichloro-1,2,2-Trifluoroethane	Vinyl Chloride	
EC-76	5.0-5.5	10-Sep-97	<0.025	<0.025	<0.025	<0.025	0.065	<0.025	<0.025	<0.025	0.25	<0.05	<0.05
MW-7B	4.0-4.5	23-Oct-96	<2	<2	<2	<2	51	<2	<2	11	<4	<0.1	<0.1
S2-3	3.0-3.5	04-Sep-97	<0.1	<0.1	<0.1	<0.1	1.0	<0.1	<0.1	<0.1	<0.1	<0.05	<0.05
TR-1	2.0	10-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.41	<0.05	<0.05	<0.05
<b>Summary of Concentrations (mg/kg)</b>													
Number of Samples Analyzed			154	154	154	154	154	154	154	154	154	117	154
Number of Analyte Detections			1	3	2	1	92	1	1	95	39	33%	6
Frequency of Detection (%)			1%	2%	1%	1%	60%	1%	1%	62%	0.024	0.059	4%
Minimum Concentration			0.021	0.0056	0.021	0.38	0.014	0.11	0.11	0.073	0.024	0.072	0.072
Maximum Concentration			0.021	0.016	1.5	0.38	51	0.11	0.11	40	40	11	0.56
95% Upper Confidence Limit (c)			0.062	0.061	0.066	0.065	3.950	0.063	0.063	1.811	0.575	0.137	0.137
Representative Concentration in mg/kg (d)			0.021	0.016	0.066	0.065	4.0	0.063	0.063	1.8	0.57	0.14	0.14

Notes:

- (a) Sample depth range in feet below ground surface (ft bgs).
- (b) A hyphen (-) indicates that the sample was not analyzed for the chemical.
- (c) The 95% upper confidence limit of the mean concentration was calculated assuming a log-normal data distribution. One-half the detection limit value was used for samples in which the analyte concentration was reported as below the detection limit.
- (d) The representative concentration was selected as the lesser of either the 95% upper confidence limit or the maximum detected concentration.





100-1381B  
06/09/1999 03:24P  
OR Page 101 of 183

Table A-2  
Summary of Chemical Analytical Data for Groundwater Samples  
3695-3723 Haven Avenue Property, Menlo Park, California

Sample	Sample Collection Depth (ft bgs) <sup>(a)</sup>	Sample Collection Date	EPA Analysis Method	Acetone	Benzene	Carbon Tetrachloride	Chloroform	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Methylene Chloride	Tetrachloroethene	Toluene	1,1,1-Trichloroethane	Trichloroethene	1,1,2-Trichloro-1,2,2-Trifluoroethane	Vinyl Chloride
CPT8-24	19-24	01-Aug-96	8240	<10	<5.0	<5.0	<5.0	<5.0	-	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
CPT8-32	23-32	01-Aug-96	8240	<10	<5.0	<5.0	<5.0	<5.0	-	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
CPT9-27	22-27	02-Aug-96	8240	<10	<5.0	<5.0	<5.0	<5.0	-	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
CPT9-35	32-35	02-Aug-96	8240	37	<5.0	<5.0	<5.0	<5.0	-	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
CPT9-48	44-48	02-Aug-96	8240	25	<5.0	<5.0	<5.0	<5.0	-	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
CPT9-54	54-59	02-Aug-96	8240	11	<5.0	<5.0	<5.0	<5.0	-	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
EC1-15	5-15	07-Oct-96	8010	-	-	<0.5	1	2	-	<0.5	1	<0.5	<5.0	<0.5	-	1	3	-	<1.0
EC1-28	23-28	14-Oct-96	8010	-	-	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<5.0	<0.5	-	<0.5	<0.5	-	<1.0
EC1-45	42-45	10-Oct-96	8010	-	-	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<5.0	<0.5	-	<0.5	<0.5	-	<1.0
EC2-15	5-15	07-Oct-96	8010	-	-	<0.5	<0.5	2	-	<0.5	<0.5	<0.5	<5.0	<0.5	-	<0.5	<0.5	-	<1.0
EC2-30	25-30	14-Oct-96	8010	-	-	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<5.0	<0.5	-	<0.5	<0.5	-	<1.0
EC2-46	44-46	07-Oct-96	8010	-	-	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<5.0	<0.5	-	<0.5	<0.5	-	<1.0
EC3-15	5-15	07-Oct-96	8010	-	-	<0.5	1	4	-	3	33	1.6	<5.0	<0.5	-	<0.5	39	-	<1.0
EC3-30	28-30	10-Oct-96	8010	-	-	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<5.0	<0.5	-	<0.5	<0.5	-	<1.0
EC3-45	42-45	10-Oct-96	8010	-	-	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<5.0	<0.5	-	<0.5	<0.5	-	<1.0
EC4-15	5-15	09-Oct-96	8010	-	-	<100	<100	140	-	270	3300	<100	<1000	<100	-	<100	2100	-	<200
EC4-30	25-30	14-Oct-96	8010	-	-	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<5.0	<0.5	-	<0.5	<0.5	-	<1.0
EC4-43	40-43	07-Oct-96	8010	-	-	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<5.0	<0.5	-	<0.5	1	-	<1.0
EC5-15	5-15	09-Oct-96	8010	-	-	<25	94	<25	-	25	470	<25	<250	<25	-	27	2000	-	<50
EC5-30	25-30	14-Oct-96	8010	-	-	<0.5	1	<0.5	-	<0.5	1	<0.5	<5.0	<0.5	-	<0.5	3	-	<1.0
EC5-45	42-45	11-Oct-96	8010	-	-	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<5.0	<0.5	-	<0.5	2	-	<1.0
EC6-15	5-15	07-Oct-96	8010	-	-	75	120	<10	-	<10	63	<10	<100	<10	-	<10	830	-	<20
EC6-30	25-30	14-Oct-96	8010	-	-	<0.5	<0.5	<0.5	-	1	<0.5	<0.5	<5.0	<0.5	-	1	<0.5	-	<1.0
EC6-45	42-45	11-Oct-96	8010	-	-	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<5.0	<0.5	-	<0.5	2	-	<1.0
EC7-15	5-15	09-Oct-96	8010	-	-	<250	380	<250	-	<250	6500	<250	<2500	<250	-	<250	12000	-	<500
EC7-30	25-30	15-Oct-96	8010	-	-	<0.5	1	<0.5	-	<0.5	17	<0.5	<5.0	<0.5	-	<0.5	3	-	<1.0
EC7-45	42-45	09-Oct-96	8010	-	-	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<5.0	<0.5	-	<0.5	<0.5	-	<1.0

havvinsk.xls - GW.dat  
(PKI 960007.07)



Table A-2  
Summary of Chemical Analytical Data for Groundwater Samples  
3695-3723 Haven Avenue Property, Menlo Park, California

Sample	Sample Collection Depth (ft bgs) <sup>(a)</sup>	Sample Collection Date	EPA Analysis Method	Concentration in Groundwater (ug/L)														
				Acetone	Benzene	Carbon Tetrachloride	Chloroform	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Methylene Chloride	Tetrachloroethene	Toluene	1,1,1-Trichloroethane	Trichloroethene	1,1,2-Trichloro-1,2,2-Trifluoroethane
MW-2	5.5-15.5	08-Sep-98	8010	-	-	<1250	<1250	<1250	<1250	<1250	<1250	<1250	<1250	<1250	<1250	<1250	<1250	<2500
MW-1	5.5-15.5	04-Oct-94	8240	<5.0	90	<2.5	110	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	9	<10
MW-3	5.5-15.5	08-Aug-96	8010	-	<2.5	7	7	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	130	<5.0
MW-3	5.5-15.5	17-Sep-97	8010	-	100	110	110	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	9	<5.0
MW-3	5.5-15.5	17-Apr-98	8010	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	3	<1.0
MW-4	6-16	08-Aug-96	8010	-	77	140	140	<10	<10	<10	<10	<10	<10	<10	<10	<10	750	<20
MW-4	6-16	01-Nov-96	8010	-	75	100	100	<12	<12	<12	<12	<12	<12	<12	<12	<12	710	<25
MW-4	6-16	18-Sep-97	8010	-	82	110	110	<10	<10	<10	<10	<10	<10	<10	<10	<10	430	<20
MW-4	6-16	17-Apr-98	8010	-	39	90	90	<12	<12	<12	<12	<12	<12	<12	<12	<12	590	<25
MW-5B	24-34	01-Nov-96	8010	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	3	<1.0
MW-5B	24-34	18-Sep-97	8010	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	9	<1.0
MW-5B	24-34	17-Apr-98	8010	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	16	<1.0
MW-5D	24-34	17-Apr-98	8010	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	17	<1.0
MW-6B	21-31	01-Nov-96	8010	-	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	4500	<200
MW-6B	21-31	17-Sep-97	8010	-	<50	60	60	<50	<50	<50	<50	<50	<50	<50	<50	<50	2600	<100
MW-6B	21-31	17-Apr-98	8010	-	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	1200	<50
MW-6H	21-31	08-Sep-98	8010	-	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	3500	<200
MW-7B	18-28	01-Nov-96	8010	-	1000	<1000	<1000	<1000	<1000	<1000	<1000	<1000	<1000	<1000	<1000	<1000	37000	<2000
MW-7B	18-28	18-Sep-97	8010	-	<2500	<2500	<2500	<2500	<2500	<2500	<2500	<2500	<2500	<2500	<2500	<2500	31000	<5000
MW-7B	18-28	17-Apr-98	8010	-	<2500	<2500	<2500	<2500	<2500	<2500	<2500	<2500	<2500	<2500	<2500	<2500	52000	<5000
MW-7B	18-28	08-Sep-98	8010	-	<2500	<2500	<2500	<2500	<2500	<2500	<2500	<2500	<2500	<2500	<2500	<2500	49000	<2500



Table A-2  
Summary of Chemical Analytical Data for Groundwater Samples  
3695-3723 Haven Avenue Property, Menlo Park, California

Sample	Sample Collection Depth (ft bgs) <sup>(a)</sup>	Sample Collection Date	EPA Analysis Method	Concentration in Groundwater (ug/L)															
				Acetone	Benzene	Carbon Tetrachloride	Chloroform	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Methylene Chloride	Tetrachloroethene	Toluene	1,1,1-Trichloroethane	Trichloroethene	1,1,2-Trichloro-1,2,2-Trifluoroethane	Vinyl Chloride
<b>Summary of Concentrations (ug/L)</b>																			
				32	35	102	102	102	102	102	102	102	102	102	102	102	102	102	102
				6	2	22	43	4	2	10	2	1	1	1	8	71	14	12	12
				19%	6%	22%	42%	4%	6%	10%	2%	1%	1%	1%	8%	70%	44%	12%	12%
				11	4.7	6.1	0.5	1.9	5	0.9	1.6	32	46	46	0.73	0.57	5.9	1.1	1.1
				37	460	2300	1000	140	5	270	25000	1.6	32	46	27	260000	12000	1400	1400
				88	23	2014	3308	262	3194	288	52099	259	2621	284	247	3130151	2221	651	651
				37	23	2,000	1,000	140	5.0	270	25,000	2.0	32	46	27	260,000	2,200	650	650
				<b>Representative Concentration (ug/L)<sup>(d)</sup></b>															

**Notes:**

- (a) Depth of groundwater interval sampled in feet below ground surface ("ft bgs").
- (b) A hyphen (-) indicates that no analysis was performed for the chemical.
- (c) The 95% upper confidence limit of the mean concentration was calculated assuming a log-normal data distribution. One-half the detection limit value was used for samples in which the analyte concentration was reported as below the detection limit.
- (d) The representative concentration was selected as the lesser of either the 95% upper confidence limit concentration or the maximum detected concentration.

**Table A-3**  
**Representative Concentrations of Chemicals in Soil and Groundwater**  
**3695-3723 Haven Avenue Property, Menlo Park, California**

Chemical	Soil		Groundwater	
	Frequency of Detection	Representative Concentration <sup>(a)</sup> (mg/kg)	Frequency of Detection	Representative Concentration <sup>(a)</sup> (ug/L)
Acetone	(b)	-	19%	37
Benzene	-	-	6%	23
Carbon Tetrachloride	1%	0.021	22%	2000
Chloroform	2%	0.016	42%	1000
1,2-Dichlorobenzene	1%	0.066	-	-
1,1-Dichloroethane	1%	0.065	4%	140
1,2-Dichloroethane	-	-	6%	5.0
1,1-Dichloroethene	-	-	10%	270
cis-1,2-Dichloroethene	60%	4.0	50%	25000
trans-1,2-Dichloroethene	1%	0.063	2%	2
Methylene Chloride	-	-	1%	32
Tetrachloroethene	1%	0.063	1%	46
Toluene	-	-	3%	7
1,1,1-Trichloroethane	-	-	8%	27
Trichloroethene	62%	1.8	70%	260000
1,1,2-Trichloro-1,2,2-Trifluoroethane	33%	0.57	44%	2200
Vinyl Chloride	4%	0.14	12%	650

**Notes:**

(a) Representative Concentrations ("RCs") were calculated as the lesser of the maximum concentration or the 95% Upper Confidence Limit of the mean concentration ("UCL95"), assuming a lognormal distribution.

(b) A hyphen (-) means the chemical was not detected.

1999-130815  
6/29/1999 03:24P  
OR Page 108 of 183



**Table A-4**  
**Oral and Inhalation Non-Carcinogenic Toxicity Information for Chemicals of Concern**  
**3695-3723 Haven Avenue Property, Menlo Park, California**

Compound	Oral Reference Dose (mg/kg-day)	Inhalation Reference Dose (mg/kg-day)	Non-Carcinogenic Effects	Source <sup>(a)</sup>
Acetone	0.1	0.1 <sup>(b)</sup>	Liver toxicity in mice, liver and kidney weight gain in rats.	IRIS
Benzene	0.003	0.0017	Neoplasia in rats and mice.	NCEA
Carbon Tetrachloride	0.0007	0.011	Liver lesions in rats.	IRIS (o), OEHHA (i)
Chloroform	0.01	0.086	Liver cyst formation in dogs.	IRIS (o), OEHHA (i)
1,2-Dichlorobenzene	0.09	0.057	Liver necrosis and lymphocyte depletion in rats and mice.	IRIS (o), HEAST (i)
1,1-Dichloroethane	0.1	0.14	Under review	HEAST
1,2-Dichloroethane	(c)	-	-	-
1,1-Dichloroethene	0.009	0.0057	Hepatic lesions in rats, alimentary system effects.	IRIS (o), HEAST (i)
cis-1,2-Dichloroethene	0.01	0.01 <sup>(b)</sup>	Decreased hematocrit and hemoglobin in rats.	HEAST
trans-1,2-Dichloroethene	0.02	0.02 <sup>(b)</sup>	Changes in serum chemistry, decreased thymus gland weight in rats.	IRIS
Methylene Chloride	0.06	0.086	Liver toxicity in rats.	IRIS (o), OEHHA (i)
Tetrachloroethene	0.01	0.011	Liver toxicity in mice, liver and kidney weight gain in rats.	IRIS (o), OEHHA (i)
Toluene	0.2	0.11	Neurotoxicity in humans when inhaled; change in liver, kidney weights in rats.	IRIS (o), OEHHA & IRIS (i)
1,1,1-Trichloroethane	0.035	0.29	Central nervous system depression, psychomotor effects in humans.	NCEA
Trichloroethene	0.17 <sup>(d)</sup>	0.17	Under review.	OEHHA
1,1,2-Trichloro-1,2,2-Trifluoroethane	30	26	Psychomotor impairment in occupationally exposed humans.	IRIS (o), OEHHA (i)
Vinyl Chloride	0.0014 <sup>(d)</sup>	0.0014	Under review.	OEHHA

1999-135819  
08/09/1999 03:24P  
DR Page 106 of 163



**Table A-4**  
**Oral and Inhalation Non-Carcinogenic Toxicity Information for Chemicals of Concern**  
**3695-3723 Haven Avenue Property, Menlo Park, California**

**Notes:**

- (a) Reference doses ("RfDs") were obtained from the California EPA Office of Environmental Health Hazard Assessment, 1997 Technical Support Document for the Determination of Noncancer Chronic Reference Exposure Levels ("OEHHHA"); the U.S. Environmental Protection Agency Integrated Risk Information System ("IRIS"); the U.S. EPA 1997 Health Effects Assessment Summary Tables ("HEAST"); or the U.S. EPA National Center for Environmental Assessment Risk Assessment Issue Papers ("NCEA"); in order of precedence. Notation: (o) = oral reference dose, (i) = inhalation reference dose.
- (b) An inhalation RfD is not defined in the listed sources, so the corresponding oral RfD (i.e. route-to-route extrapolation) is shown.
- (c) A hyphen (-) indicates that no data for the indicated parameter was available from the listed sources.
- (d) An oral RfD is not defined in the listed sources, so the corresponding inhalation RfD (i.e. route-to-route extrapolation) is shown.

1999-130019  
08/09/1999 03:24P  
OK Page 107 of 153



**Table A-5**  
**Oral and Inhalation Carcinogenic Toxicity Information for Chemicals of Concern**  
**3695-3723 Haven Avenue Property, Menlo Park, California**

Compound	Weight of Evidence Classification <sup>(a)</sup>	Oral Slope Factor (mg/kg-d) <sup>-1</sup>	Inhalation Slope Factor (mg/kg-d) <sup>-1</sup>	Carcinogenic Effects	Source <sup>(b)</sup>
Acetone	D	(c)	-	-	IRIS
Benzene	A	0.1	0.1	Non-lymphocytic leukemia from occupational exposure of humans.	Memo
Carbon Tetrachloride	B2	0.15	0.15	Liver cell carcinomas in rats, mice, hamsters.	Memo
Chloroform	B2	0.031	0.019	Several tumor types formed in rats and mice.	Memo
1,2-Dichlorobenzene	D	-	-	-	IRIS
1,1-Dichloroethane	C	0.0057	0.0057	Mammary gland carcinomas, liver cell carcinomas, benign uterine polyps in female rats and mice.	Memo
1,2-Dichloroethane	B2	0.07	0.07	Several tumor types in rats. Lung papillomas in mice.	Memo
1,1-Dichloroethene	C	-	-	(d)	IRIS
cis-1,2-Dichloroethene	D	-	-	-	IRIS
trans-1,2-Dichloroethene	-	-	-	-	-
Methylene Chloride	B2	0.014	0.0035	Liver cell and lung neoplasms in mice. Salivary gland sarcomas, benign mammary tumors in rats.	Memo
Tetrachloroethene	B2	0.051	0.021	-	Memo
Toluene	D	-	-	-	IRIS
1,1,1-Trichloroethane	D	-	-	-	IRIS
Trichloroethene	B2	0.015	0.01	-	Memo
1,1,2-Trichloro-1,2,2-Trifluoroethane	-	-	-	-	-
Vinyl Chloride	A	0.27	0.27	Liver, lung tumors in rats.	Memo

1388-13818  
08/09/1999 03:24P  
DR Page: 108 of 153



**Table A-5**  
**Oral and Inhalation Carcinogenic Toxicity Information for Chemicals of Concern**  
**3695-3723 Haven Avenue Property, Menlo Park, California**

**Notes:**

(a) U.S. EPA weight-of-evidence classification is as follows:

A = Human Carcinogen

B1 or B2 = Probable Human Carcinogen; B1 indicates that limited human data are available; B2 indicates that there is sufficient evidence in animals and inadequate or no evidence in humans.

C = Possible Human Carcinogen

D = Not Classifiable as to Human Carcinogenicity.

E = Evidence of Non-Carcinogenicity for Humans

Weight-of-evidence information obtained from the U.S. Environmental Protection Agency Integrated Risk Information System database ("IRIS"); the July 1997 U.S. EPA Health Effects Assessment Summary Tables ("HEAST"); or the U.S. EPA National Center for Environmental Assessment Risk Assessment Issue Papers ("NCEA"); in order of precedence.

(b) Slope factors were obtained from the California Environmental Protection Agency, 1996 Memorandum of Cancer Potency Factors Update ("Memo", see below); the U.S. EPA IRIS database; the 1997 U.S. EPA HEAST; or the U.S. EPA NCEA, in order of precedence.

(c) A hyphen (-) indicates that no data for the indicated field was available in the listed sources.

(d) 1,1-Dichloroethene is not recognized as a human carcinogen by the State of California (source: California EPA, 1996, *California Cancer Potency Factors*, California Environmental Protection Agency, Office of Environmental Health Hazard Assessment, Sacramento, California, 1 April 1996).

1998-135815  
08/09/1998 03:24P  
DR Page 108 of 188



**Table A-6**  
**Human Exposure Assumptions**  
**3695-3723 Haven Avenue Property, Menlo Park, California**

Parameter	Variable	Value	Reference <sup>(a)</sup>
<b>Air Inhalation Rate (m<sup>3</sup>/day)</b> All Adult Workers	IRa	20	USEPA (1991), Cal-EPA (1992)
<b>Averaging Time (days)</b> Non-Carcinogens	AT		
Maintenance Worker (25 yrs)		9125	USEPA (1991), Cal-EPA (1992)
Construction Worker (1 yr)		365	USEPA (1991), Cal-EPA (1992)
Indoor Worker (25 yrs)		9125	USEPA (1991), Cal-EPA (1992)
Carcinogens All Workers (70 yrs)		25550	USEPA (1991), Cal-EPA (1992)
<b>Body Weight (kg)</b> All Adult Workers	BW	70	USEPA (1991), Cal-EPA (1992)
<b>Exposure Duration (years)</b> Maintenance Worker Construction Worker Indoor Worker	ED	25 1 25	USEPA (1991), Cal-EPA (1992) Best Professional Judgement USEPA (1991), Cal-EPA (1992)
<b>Exposure Frequency (days/year or events/year)</b> Maintenance Worker - excavation Maintenance Worker - nonexcavation Construction Worker Indoor Worker	EF	5 245 87 250	Best Professional Judgement Best Professional Judgement USEPA (1991), Cal-EPA (1992) USEPA (1991), Cal-EPA (1992)
<b>Skin Surface Area (cm<sup>2</sup>/event)</b> All Adult Workers	SAs	3160	Based on U.S. EPA (1989a)
<b>Soil Adherence Factor (mg/cm<sup>2</sup>)</b> All Outdoor Workers - Excavation All Outdoor Workers - Nonexcavation	AF	0.5 0.5	ASTM (1995) ASTM (1995)
<b>Soil Agitation Factor for Volatilization During Excavation (dimensionless)</b>	AgF	1	U.S. EPA (1989b)
<b>Soil Ingestion Rate (mg/day)</b> Maintenance Worker - excavation Maintenance Worker - nonexcavation Construction Worker	IRs	480 50 480	USEPA (1991) USEPA (1991), Cal-EPA (1992) USEPA (1991)
<b>Soil-Dermal Absorption Fraction (dimensionless)</b> VOCs	ABS	0.1	Cal-EPA (1994)

1589-135815  
06/08/1999 03:24P  
DR Page 110 of 133



**Table A-6**  
**Human Exposure Assumptions**  
**3695-3723 Haven Avenue Property, Menlo Park, California**

**Notes:**

(a) References for exposure assumptions:

- ASTM, 1995, *Standard Guide for Risk-Based Corrective Action Applied at Petroleum Release Sites*. American Society for Testing and Materials, Designation E 1739-95, 10 September 1995.
- Cal-EPA, 1992, *Supplemental Guidance for Human Health Multimedia Risk Assessments of Hazardous Waste Sites and Permitted Facilities*. California Environmental Protection Agency, Department of Toxic Substances Control, Sacramento, California, July 1992.
- Cal-EPA, 1994, *Preliminary Endangerment Assessment Guidance Manual*. California Environmental Protection Agency, Department of Toxic Substances Control, Sacramento, California, January 1994.
- USEPA, 1989a, *Risk Assessment Guidance for Superfund ("RAGS"), Volume 1, Human Health Evaluation Manual (Part A)*. EPA/540/1-89/002, U.S. Environmental Protection Agency, Office of Emergency and Remedial Response ("OERR"), December 1989.
- USEPA, 1989b, *Air Superfund National Technical Guidance Series, Volume III*. U.S. Environmental Protection Agency, Office of Air Quality Planning and Standards, Research Triangle Park, NC, EPA/450/1-89/002-004.
- USEPA, 1991, *RAGS, Volume 1 - Human Health Evaluation Manual, Supplemental Guidance: Standard Default Exposure Factors*. Interim Final, OSWER Directive 9285.6-03, U.S. Environmental Protection Agency, Office of Solid Waste and Emergency Response, March 1991.



**Table A-7**  
**Site Physical Parameter Assumptions**  
**3695-3723 Haven Avenue Property, Menlo Park, California**

Symbol	Value	Variable	Source
$h_{cap}$	15	Thickness of capillary fringe (cm)	EKI, 1997b <sup>(a)</sup>
$h_v$	175	Thickness of vadose zone (cm)	EKI, 1997b
$\theta_{as}$	0.083	Volumetric air content in vadose zone soil ( $cm^3$ air / $cm^3$ soil)	EKI, 1997b
$\theta_{ws}$	0.331	Volumetric water content in vadose zone soil ( $cm^3$ water / $cm^3$ soil)	EKI, 1997b
$\theta_{acap}$	0.018	Volumetric air content in capillary fringe soil ( $cm^3$ air / $cm^3$ soil)	EKI, 1997b
$\theta_{wcap}$	0.396	Volumetric water content in capillary fringe soil ( $cm^3$ water / $cm^3$ soil)	EKI, 1997b
$\theta_{acrack}$	0.083	Volumetric air content in foundation or wall cracks ( $cm^3$ air / $cm^3$ crack vol.)	ASTM, 1995 <sup>(b)</sup>
$\theta_{wcrack}$	0.331	Volumetric water content in foundation or wall cracks ( $cm^3$ water / $cm^3$ crack vol.)	ASTM, 1995
$\theta_T$	0.414	Total soil porosity ( $cm^3$ / $cm^3$ soil)	EKI, 1997b
$\eta$	0.001	Areal fraction of cracks in foundation or wall ( $cm^2$ cracks / $cm^2$ total area)	Daugherty, 1992 <sup>(c)</sup>
$\rho_s$	1.57	Soil bulk density (g soil / $cm^3$ soil)	EKI, 1997b
$\Theta_m$	0.225	Soil moisture content by mass (kg water / kg dry soil)	EKI, 1997b
$L_B$	244	Enclosed-space volume / infiltration area ratio (cm)	EKI <sup>(d)</sup>
$L_{crack}$	11	Enclosed-space foundation or wall thickness (cm)	EKI, 1997b
$L_{gw}$	190	Depth to groundwater, i.e. $h_{cap} + h_v$ (cm)	EKI, 1997b
$L_s$	30	Depth to subsurface soil sources (cm)	EKI, 1997b
ER	0.00023	Enclosed-space air exchange rate (L / sec)	ASTM, 1995
$U_{air}$	410	Wind speed above ground surface in ambient mixing zone (cm / sec)	WRRC, 1998 <sup>(e)</sup>
$\delta_{air}$	200	Ambient air mixing zone height (cm)	ASTM, 1995
W	5100	Width of source area parallel to wind or groundwater flow direction (cm)	EKI, 1997a
foc	0.0061	Fraction of organic carbon in soil (g C / g soil)	EKI, 1997b

- Notes:
- (a) Parameter values were derived or estimated from physical properties measured onsite and documented in one of the following:
- EKI, 1997a, *Remedial Investigation Report, 3695-3723 Haven Avenue and Vicinity, Menlo Park, California*. Erier & Kalinowski, Inc., 21 April 1997.
  - EKI, 1997b, *Results of Additional Investigations and Testing, 3695-3723 Haven Avenue and Vicinity, Menlo Park, California*. Erier & Kalinowski, Inc., 30 December 1997.

**Table A-7**  
**Site Physical Parameter Assumptions**  
**3695-3723 Haven Avenue Property, Menlo Park, California**

- (b) Parameter values were defaults taken from the ASTM RBCA guide:  
ASTM, 1995, *Standard Guide for Risk-Based Corrective Action Applied at Petroleum Release Sites*. American Society for Testing and Materials, Designation E 1739-95, 10 September 1995.  
Volumetric air and water content of foundation and wall cracks assumed to be identical to air and water content of vadose zone soil, as in RBCA.
- (c) Taken from:  
Daugherty, S.J., 1992, *Regulatory Approaches to Hydrocarbon Contamination from Underground Storage Tanks*, in Kostecki, P.T, and E.J. Calabrese, eds., *Hydrocarbon Contaminated Soils and Groundwater: Analysis, Fate, Environmental and Public Health Effects, Remediation*. Vol. 1. Lewis Publishers.
- (d) Best professional judgement by EKI personnel.
- (e) Western Regional Climate Center data for Moffett Field, Mountain View, CA.

08/05/1999 03:24P  
OR Page: 113 of 183

Table A-8

Chemical Parameters of Compounds Present in Site Soil or Groundwater  
3695-3723 Haven Avenue Property, Menlo Park, California

Compound	Solubility <sup>(a)</sup> (mg/L)	C <sub>sat</sub> <sup>(b)</sup> (mg/kg)	C <sub>max</sub> <sup>(c)</sup> (mg/kg)	H'	D <sup>air</sup> (cm <sup>2</sup> /s)	D <sup>water</sup> (cm <sup>2</sup> /s)	K <sub>oc</sub> (cm <sup>3</sup> H <sub>2</sub> O/gsoil)	VFW <sub>esp</sub> (L H <sub>2</sub> O/m <sup>3</sup> air)	VFg <sub>esp</sub> (kg soil/m <sup>3</sup> air)	VFW <sub>amb</sub> (L H <sub>2</sub> O/m <sup>3</sup> air)	VFg <sub>amb</sub> (kg soil/m <sup>3</sup> air)
Acetone	1.0E+06	47,925	-	0.0017	0.10	1.0E-05	0.37	2.8E-06	1.4E-05	6.0E-07	1.7E-05
Benzene	1700	267	-	0.23	0.087	9.0E-06	78	4.8E-05	7.1E-05	5.4E-06	9.1E-05
Carbon Tetrachloride	850	452	0.021	0.96	0.079	8.2E-06	344	1.7E-04	7.9E-05	9.3E-06	1.0E-04
Chloroform	8200	1,380	0.016	0.11	0.088	9.2E-06	87	2.6E-05	3.5E-05	3.8E-06	4.6E-05
1,2- Dichlorobenzene	130	75	1.5	0.076	0.071	7.3E-06	385	1.4E-05	5.7E-06	2.3E-06	7.4E-06
1,1-Dichloroethane	5200	473	0.38	0.18	0.089	9.1E-06	30	3.9E-05	1.0E-04	4.9E-06	1.3E-04
1,2-Dichloroethane	8400	592	-	0.045	0.089	9.1E-06	16	1.2E-05	3.7E-05	2.1E-06	4.8E-05
1,1-Dichloroethene	2500	366	-	0.86	0.091	9.6E-06	65	1.8E-04	2.9E-04	1.0E-05	3.8E-04
cis-1,2- Dichloroethene	600	78	51	0.12	0.091	9.6E-06	59	2.8E-05	5.0E-05	4.1E-06	6.5E-05
trans-1,2- Dichloroethene	4900	646	0.11	0.30	0.091	9.6E-06	59	6.6E-05	1.2E-04	6.6E-06	1.5E-04
Methylene Chloride	16000	963	-	0.0709	0.10	1.1E-05	8.7	2.0E-05	7.5E-05	3.2E-06	9.6E-05
Tetrachloroethene	590	252	0.073	0.54	0.074	7.6E-06	272	9.4E-05	5.2E-05	6.8E-06	6.7E-05
Toluene	540	125	-	0.28	0.078	8.0E-06	132	5.3E-05	5.3E-05	5.3E-06	6.8E-05
1,1,1- Trichloroethane	1500	339	-	0.55	0.079	8.1E-06	125	1.0E-04	1.1E-04	7.3E-06	1.4E-04
Trichloroethene	1100	200	40	0.30	0.081	8.4E-06	95	5.8E-05	7.4E-05	5.8E-06	9.5E-05

Table A-8  
Chemical Parameters of Compounds Present in Site Soil or Groundwater  
3695-3723 Haven Avenue Property, Menlo Park, California

Compound	Solubility <sup>(a)</sup> (mg/l.)	C <sub>sat</sub> <sup>(h)</sup> (mg/kg)	C <sub>max</sub> <sup>(c)</sup> (mg/kg)	H'	D <sup>air</sup> (cm <sup>2</sup> /s)	D <sup>water</sup> (cm <sup>2</sup> /s)	K <sub>oc</sub> (cm <sup>3</sup> H <sub>2</sub> O/gsoil)	VF <sub>w,exp</sub> (L-H <sub>2</sub> O/m <sup>3</sup> air)	VF <sub>s,exp</sub> (kg soil/m <sup>3</sup> air)	VF <sub>w,amb</sub> (L-H <sub>2</sub> O/m <sup>3</sup> air)	VF <sub>s,amb</sub> (kg soil/m <sup>3</sup> air)
1,1,2-Trichloro-1,2,2-											
Trifluoroethane	200	149	11	13.85	0.061	7.5E-06	389	1.7E-03	6.2E-04	3.8E-05	7.9E-04
Vinyl Chloride	4300	265	0.56	0.90	0.11	1.1E-05	2.5	2.2E-04	8.6E-04	1.2E-05	1.1E-03

Notes:

(a) Solubility values from Montgomery, J.H. and L.M. Wilkom, 1991, *Groundwater Chemicals Desk Reference*, Lewis Pub. Co., Chelsea, Mich.

(b) Saturation soil concentration ("C<sub>sat</sub>") calculated through the equation:

$$C_{sat} = (S \times \theta_m / \rho_s) \times (K_{oc} \times \rho_s \times \theta_w + \theta_w + H' \times \theta_{air})$$

(Parameters and values used in the above equation are shown in Table A-7 and Table A-8.)

(c) Definition of terms (for an explanation of calculations, see section 2.4 of the text):

- S = Solubility
- C<sub>sat</sub> = Saturation concentration
- C<sub>max</sub> = Maximum analysed concentration in soil samples
- H' = Dimensionless Henry's Law constant
- D<sub>air</sub> = Diffusivity in air
- D<sub>water</sub> = Diffusivity in water
- K<sub>oc</sub> = Organic carbon partition coefficient
- VF<sub>w,exp</sub> = Volatilization factor for the groundwater to enclosed space air pathway
- VF<sub>s,exp</sub> = Volatilization factor for the soil to enclosed space air pathway
- VF<sub>w,amb</sub> = Volatilization factor for the groundwater to ambient air pathway
- VF<sub>s,amb</sub> = Volatilization factor for the soil to ambient air pathway

Table A-9

Characterization of Human Health Risks due to Inhalation of COCs Volatilized from Subsurface Soil  
for Future Indoor Workers  
3695-3723 Haven Avenue Property, Menlo Park, California

Compound	Representative Concentration (RC) of Compound in Soil (a) (mg/kg)	Vf <sub>soil</sub> <sup>(b)</sup> (kg soil/m <sup>3</sup> air)	Indoor Air Exposure Point Concentration (c) (mg/m <sup>3</sup> )	Non-Carcinogenic Chronic Daily Intake (c) (mg/kg-day)	Carcinogenic Chronic Daily Intake (c) (mg/kg-day)	Non-Carcinogenic Inhalation Reference Dose (d) (mg/kg-day)	Carcinogenic Inhalation Slope (e) (mg/kg-d) <sup>-1</sup>	Non-Carcinogenic Hazard Index (f)	Estimated Lifetime Incremental Cancer Risk (g)
Acetone	-	1.4E-05	-	-	-	0.1	-	-	-
Benzene	-	7.1E-05	-	-	-	0.0017	0.1	-	-
Carbon Tetrachloride	0.021	7.9E-05	1.7E-06	3.3E-07	1.2E-07	0.011	0.15	3.0E-05	1.7E-08
Chloroform	0.016	3.5E-05	5.7E-07	1.1E-07	4.0E-08	0.086	0.019	1.3E-06	7.5E-10
1,2-Dichlorobenzene	0.066	5.7E-06	3.8E-07	7.4E-08	-	0.057	-	1.3E-06	-
1,1-Dichloroethane	0.065	1.0E-04	6.5E-06	1.3E-06	4.5E-07	0.14	0.0057	9.1E-06	2.6E-09
1,2-Dichloroethane	-	3.7E-05	-	-	-	-	0.07	-	-
1,1-Dichloroethene	-	2.9E-04	-	-	-	0.0057	-	-	-
cis-1,2-Dichloroethene	3.950	5.0E-05	2.0E-04	3.9E-05	-	0.01	-	3.9E-03	-
trans-1,2-Dichloroethene	0.063	1.2E-04	7.4E-06	1.4E-06	-	0.02	-	7.2E-05	-
Methylene Chloride	-	7.5E-05	-	-	-	0.086	0.0035	-	-
Tetrachloroethene	0.063	5.2E-05	3.3E-06	6.4E-07	2.3E-07	0.011	0.021	5.8E-05	4.8E-09

**Table A-9**  
**Characterization of Human Health Risks due to Inhalation of COCs Volatilized from Subsurface Soil**  
**for Future Indoor Workers**  
**3695-3723 Haven Avenue Property, Menlo Park, California**

Compound	Representative Concentration (RC) of Compound in Soil (a) (mg/kg)	VFs <sub>soil</sub> (b) (kg soil/m <sup>3</sup> air)	Indoor Air Exposure Point Concentration (c) (mg/m <sup>3</sup> )	Non-Carcinogenic Chronic Daily Intake (c) (mg/kg-day)	Carcinogenic Chronic Daily Intake (c) (mg/kg-day)	Non-Carcinogenic Inhalation Reference Dose (d) (mg/kg-day)	Carcinogenic Inhalation Slope (e) (mg/kg-d) <sup>-1</sup>	Non-Carcinogenic Hazard Index (f)	Estimated Lifetime Incremental Cancer Risk (g)
Toluene	-	5.3E-05	-	-	-	0.11	-	-	-
1,1,1-Trichloroethane	-	1.1E-04	-	-	-	0.29	-	-	-
Trichloroethene	1.811	7.4E-05	1.3E-04	2.6E-05	9.4E-06	0.17	0.01	1.5E-04	9.4E-08
1,1,2-Trichloro-1,2,2-Trifluoroethane	0.575	6.2E-04	3.6E-04	6.9E-05	-	26	-	2.7E-06	-
Vinyl Chloride	0.137	8.6E-04	1.2E-04	2.3E-05	8.2E-06	0.0014	0.27	1.6E-02	2.2E-06
<b>Total Estimated Risk due to Inhalation of COCs Volatilized from Soil to Indoor Air:</b>									<b>2.35E-06</b>

**Notes:**

(a) Refer to Table A-3 for compilation of representative concentrations ("RCs").

(b) Volatilization factor from soil to enclosed-space air ("V<sub>f,encsp</sub>") was calculated for each chemical using the Risk-Based Corrective Action model ("RBCA") (ASTM, 1995). Parameters used in the RBCA model are listed in Tables 7 and 8.

(c) Chronic daily intakes ("CDIs") were estimated using methods recommended by U.S. EPA or Cal-EPA. The following equation was used to calculate CDIs (Refer to Table A-6 for parameter values used in calculations):

$$CDI_{(inhalation)} = \frac{Ca \cdot IR \cdot Ef \cdot ED}{BW \cdot AT}$$

Table A-9

Characterization of Human Health Risks due to Inhalation of COCs Volatilized from Subsurface Soil  
for Future Indoor Workers  
3695-3723 Haven Avenue Property, Menlo Park, California

where:

$CDI_{(inhalation)}$  = Chronic Daily Intake (mg/kg-day)

$Ca$  = Exposure Point Air Concentration ( $mg/m^3$ ) =  $VF_{resp} \cdot RC$

$IRa$  = Air Inhalation Rate ( $m^3/day$ )

$EF$  = Exposure Frequency (days/year)

$ED$  = Exposure Duration (years)

$BW$  = Body Weight (kg)

$AT$  = Averaging Time (days)

(d) See Table A-4 for an explanation of chronic noncancer reference doses (RfD) used here. A hyphen (-) indicates an RfD was not found for the compound.

(e) See Table A-5 for an explanation of carcinogenic slope factors (SFs) used here. A hyphen (-) indicates an SF was not found for the compound.

(f) Non-carcinogenic hazard index ("HI") for a compound "i" is defined as the  $CDI_i/RfD_i$ . The non-carcinogenic HI, summed for all compounds and exposure pathways, assumes that there is a level of exposure (i.e., RfD) below which it is unlikely even for sensitive populations to experience adverse health effects (U.S. EPA, 1989). If the chronic daily intake (i.e., CDI) exceeds this RfD threshold (i.e., HI greater than 1), there may be concern for potential adverse non-carcinogenic health effects.

(g) Estimated lifetime incremental cancer risk for compound "i" is defined as  $CDI_i \times SF_i$ . The estimated incremental lifetime cancer risk to an individual of developing cancer due to COCs is given by the sum of incremental cancer risks for all chemicals and exposure pathways.

Table A-10

Characterization of Baseline Human Health Risks due to Inhalation of COCs Volatilized from Groundwater  
for Future Indoor Workers  
3695-3723 Haven Avenue Property, Menlo Park, California

Compound	Representative Concentration (RC) of Compound in Groundwater (g) (ug/L)	VP <sub>wsp</sub> (b) (L H <sub>2</sub> O / m <sup>3</sup> air)	Outdoor Air Exposure Point Concentration (c) (mg/m <sup>3</sup> )	Non-Carcinogenic Chronic Daily Intake (c) (mg/kg-day)	Carcinogenic Chronic Daily Intake (c) (mg/kg-day)	Non-Carcinogenic Inhalation Reference Dose (d) (mg/kg-day)	Carcinogenic Inhalation Slope (e) (mg/kg-d) <sup>-1</sup>	Non-Carcinogenic Hazard Index (f)	Estimated Lifetime Incremental Cancer Risk (g)
Acetone	37	2.8E-06	1.0E-07	2.1E-08	-	0.1	-	2.1E-07	-
Benzene	23	4.8E-05	1.1E-06	2.2E-07	7.7E-08	0.0017	0.1	1.3E-04	7.7E-09
Carbon Tetrachloride	2000	1.7E-04	3.5E-04	6.8E-05	2.4E-05	0.011	0.15	6.2E-03	3.7E-06
Chloroform	1000	2.6E-05	2.6E-05	5.1E-06	1.8E-06	0.086	0.019	5.9E-05	3.4E-08
1,2-Dichlorobenzene	-	1.4E-05	-	-	-	0.057	-	-	-
1,1-Dichloroethane	140	3.9E-05	5.5E-06	1.1E-06	3.8E-07	0.14	0.0057	7.7E-06	2.2E-09
1,2-Dichloroethane	5.0	1.2E-05	5.8E-08	-	4.0E-09	-	0.07	-	2.8E-10
1,1-Dichloroethene	270	1.8E-04	4.8E-05	9.5E-06	-	0.0057	-	1.7E-03	-
cis-1,2-Dichloroethene	25000	2.8E-05	7.1E-04	1.4E-04	-	0.01	-	1.4E-02	-
trans-1,2-Dichloroethene	2.0	6.6E-05	1.3E-07	2.6E-08	-	0.02	-	1.3E-06	-
Methylene Chloride	32	2.0E-05	6.3E-07	1.2E-07	4.4E-08	0.086	0.0035	1.4E-06	1.5E-10
Tetrachloroethene	46	9.4E-05	4.3E-06	8.5E-07	3.0E-07	0.011	0.021	7.7E-05	6.4E-09



**Table A-10**  
**Characterization of Baseline Human Health Risks due to Inhalation of COCs Volatilized from Groundwater**  
**for Future Indoor Workers**  
**3695-3723 Haven Avenue Property, Menlo Park, California**

Compound	Representative Concentration (RC) of Compound in Groundwater (a) (ug/L)	V <sub>Fw,sp</sub> (b) (L H <sub>2</sub> O / m <sup>3</sup> air)	Outdoor Air Exposure Point Concentration (c) (ng/m <sup>3</sup> )	Non-Carcinogenic Chronic Daily Intake (c) (mg/kg-day)	Carcinogenic Chronic Daily Intake (c) (mg/kg-day)	Non-Carcinogenic Inhalation Reference Dose (d) (RfDI) (mg/kg-day)	Carcinogenic Inhalation Slope (e) (Sf0) (mg/kg-d) <sup>-1</sup>	Non-Carcinogenic Hazard Index (f)	Estimated Lifetime Incremental Cancer Risk (g)
Toluene	7.0	5.3E-05	3.7E-07	7.2E-08	-	0.11	-	6.6E-07	-
1,1,1-Trichloroethane	27	1.0E-04	2.8E-06	5.4E-07	-	0.29	-	1.9E-06	-
Trichloroethene	260000	5.8E-05	1.5E-02	2.9E-03	1.1E-03	0.17	0.01	1.7E-02	1.1E-05
1,1,2-Trichloro-1,2,2-Trifluoroethane	2200	1.7E-03	3.8E-03	7.4E-04	-	26	-	2.9E-05	-
Vinyl Chloride	650	2.2E-04	1.4E-04	2.8E-05	1.0E-05	0.0014	0.27	2.0E-02	2.7E-06
<b>Total Estimated Risk due to Inhalation of COCs Volatilized from Groundwater to Outdoor Air:</b>									<b>1.7E-05</b>

**Notes:**

- (a) Refer to Table A-3 for compilation of representative concentrations ("RCs").
- (b) Volatilization factor from groundwater to enclosed-space air ("V<sub>Fw,sp</sub>") was calculated for each chemical using the Risk-Based Corrective Action model ("RBCA") [ASTM, 1995]. Parameters used in the RBCA model are listed in Tables 7 and 8.
- (c) Chronic daily intakes ("CDIs") were estimated using methods recommended by U.S. EPA or Cal-EPA. The following equation was used to calculate CDIs (Refer to Table A-6 for parameter values used in calculations):

$$CDI_{(inhalation)} = \frac{C_a \cdot IR_a \cdot EF \cdot ED}{BW \cdot AT}$$

**Characterization of Baseline Human Health Risks due to Inhalation of COCs Volatilized from Groundwater  
for Future Indoor Workers  
3695-3723 Haven Avenue Property, Menlo Park, California**

**Table A-10**

where:

$CDI_{(inhalation)}$  = Chronic Daily Intake (mg/kg-day)

$Ca$  = Exposure Point Air Concentration (mg/m<sup>3</sup>) \* VPwamb \* RC

$IRa$  = Air Inhalation Rate (m<sup>3</sup>/day)

$EF$  = Exposure Frequency (days/year)

$ED$  = Exposure Duration (years)

$BW$  = Body Weight (kg)

$AT$  = Averaging Time (days)

(d) See Table A-4 for an explanation of chronic noncancer reference doses (RfD) used here. A hyphen (-) indicates an RfD was not found for the compound.

(e) See Table A-5 for an explanation of carcinogenic slope factors (SFs) used here. A hyphen (-) indicates an SF was not found for the compound.

(f) Non-carcinogenic hazard index ("HI") for a compound "i" is defined as the  $CDI_i/RfD_i$ . The non-carcinogenic HI, summed for all compounds and exposure pathways, assumes that there is a level of exposure (i.e., RfD) below which it is unlikely even for sensitive populations to experience adverse health effects [U.S. EPA, 1989]. If the chronic daily intake (i.e., CDI) exceeds this RfD threshold (i.e., HI greater than 1), there may be concern for potential adverse non-carcinogenic health effects.

(g) Estimated lifetime incremental cancer risk for compound "i" is defined as  $CDI_i \times SF_i$ . The estimated incremental lifetime cancer risk to an individual of developing cancer due to COCs is given by the sum of incremental cancer risks for all chemicals and exposure pathways.

Table A-11  
Characterization of Baseline Human Health Risks due to Ingestion of COCs in Soil  
for Future Maintenance Workers  
3695-3723 Haven Avenue Property, Menlo Park, California

Compound	Representative Concentration (RC) of Compound in Soil <sup>(a)</sup> (mg/kg)	Non-Carcinogenic Chronic Daily Intake <sup>(b)</sup> (mg/kg-day)	Carcinogenic Chronic Daily Intake <sup>(b)</sup> (mg/kg-day)	Non-Carcinogenic Ingestion Reference Dose <sup>(c)</sup> (RfD <sub>o</sub> ) (mg/kg-day)	Carcinogenic Oral Slope Factor <sup>(d)</sup> (SFO) (mg/kg-d) <sup>-1</sup>	Non-Carcinogenic Hazard Index	Estimated Lifetime Incremental Cancer Risk <sup>(f)</sup>
Acetone	-	-	-	0.1	-	-	-
Benzene	-	-	-	0.003	0.1	-	-
Carbon Tetrachloride	0.021	1.2E-08	4.3E-09	0.0007	0.15	1.7E-05	6.5E-10
Chloroform	0.016	9.2E-09	3.3E-09	0.01	0.031	9.2E-07	1.0E-10
1,2-Dichlorobenzene	0.066	3.8E-08	-	0.09	-	4.2E-07	-
1,1-Dichloroethane	0.065	3.7E-08	1.3E-08	0.1	0.0057	3.7E-07	7.6E-11
1,2-Dichloroethane	-	-	-	-	0.07	-	-
1,1-Dichloroethene	-	-	-	0.009	-	-	-
cis-1,2-Dichloroethene	3.950	2.3E-06	-	0.01	-	2.3E-04	-
trans-1,2-Dichloroethene	0.063	3.6E-08	-	0.02	-	1.8E-06	-
Methylene Chloride	-	-	-	0.06	0.014	-	-
Tetrachloroethene	0.063	3.6E-08	1.3E-08	0.01	0.051	3.6E-06	6.5E-10

Table A-11

Characterization of Baseline Human Health Risks due to Ingestion of COCs in Soil  
for Future Maintenance Workers  
3695-3723 Haven Avenue Property, Menlo Park, California

Compound	Representative Concentration (RC) of Compound in Soil <sup>(a)</sup> (mg/kg)	Non-Carcinogenic Chronic Daily Intake <sup>(b)</sup> (mg/kg-day)	Carcinogenic Chronic Daily Intake <sup>(b)</sup> (mg/kg-day)	Non-Carcinogenic Ingestion Reference Dose <sup>(c)</sup> (RfDo) (mg/kg-day)	Carcinogenic Oral Slope Factor <sup>(d)</sup> (Sf <sub>o</sub> ) (mg/kg-d) <sup>-1</sup>	Non-Carcinogenic Hazard Index	Estimated Lifetime Incremental Cancer Risk <sup>(e)</sup>	
Toluene	-	-	-	0.2	-	-	-	
1,1,1-Trichloroethane	-	-	-	0.035	-	-	-	
Trichloroethene	1.811	1.0E-06	3.7E-07	0.17	0.015	6.1E-06	5.6E-09	
1,1,2-Trichloro-1,2,2-Trifluoroethane	0.575	3.3E-07	-	30	-	1.1E-08	-	
Vinyl Chloride	0.137	7.8E-08	2.8E-08	0.0014	0.27	5.6E-05	7.6E-09	
Total Estimated Risk due to Ingestion of Soil Containing COCs:							3.1E-04	1.5E-08

Notes:

(a) Refer to Table A-3 for compilation of representative concentrations.

(b) Chronic daily intakes (CDIs) were estimated using methods recommended by U.S. EPA or Cal-EPA, as follows:

(Note that different soil ingestion rates were assumed for excavation and non-excavation work. See Table A-6 for details.)

$$CDI_{(ingestion)} = \frac{C_s \cdot IR_s \cdot EF \cdot ED \cdot 10^{-6} \text{ kg/mg}}{BW \cdot AT}$$

where:

$CDI_{(ingestion)}$  = Chronic daily intake (mg/kg-day)

$C_s$  = Concentration in soil (mg/kg)

$IR_s$  = Ingestion Rate of soil (mg/day)

Table A-11

Characterization of Baseline Human Health Risks due to Ingestion of COCs in Soil  
for Future Maintenance Workers  
3695-3723 Haven Avenue Property, Menlo Park, California

EF = Exposure Frequency (days/year)  
ED = Exposure Duration (years)  
BW = Body Weight (kg)  
AT = Averaging Time (days)  
and assuming Cs = RCsoil

- (c) See Table A-4 for an explanation of chronic noncancer reference doses (RfD) used here. A hyphen (-) indicates an RfD was not found for the compound.
- (d) See Table A-5 for an explanation of carcinogenic slope factors (SFs) used here. A hyphen (-) indicates an SF was not found for the compound.
- (e) Non-carcinogenic hazard index (HI) for a compound "i" is defined as the CDI/RfD<sub>i</sub>. The non-carcinogenic HI, summed for all compounds and exposure pathways, assumes that there is a level of exposure (i.e., RfD) below which it is unlikely even for sensitive populations to experience adverse health effects (U.S. EPA, 1989). If the chronic daily intake (i.e., CDI) exceeds this RfD threshold (i.e., HI greater than 1), there may be concern for potential adverse non-carcinogenic health effects.
- (f) Estimated lifetime incremental cancer risk for compound "i" is defined as CDI<sub>i</sub> x SF<sub>i</sub>. The estimated incremental lifetime cancer risk to an individual of developing cancer due to COCs is given by the sum of incremental cancer risks for all chemicals and exposure pathways.



Table A-12

Characterization of Baseline Human Health Risks due to Dermal Contact with COCs in Soil  
 for Future Maintenance Workers  
 3695-3723 Haven Avenue Property, Menlo Park, California

Compound	Representative Concentration (RC) of Compound in Soil <sup>(a)</sup> (mg/kg)	Non-Carcinogenic Chronic Daily Intake <sup>(b)</sup> (mg/kg-day)	Carcinogenic Chronic Daily Intake <sup>(b)</sup> (mg/kg-day)	Non-Carcinogenic Ingestion Reference Dose <sup>(c)</sup> (RfDo) (mg/kg-day)	Carcinogenic Oral Slope Factor <sup>(d)</sup> (SFO) (mg/kg-d) <sup>-1</sup>	Non-Carcinogenic Hazard Index <sup>(e)</sup>	Estimated Lifetime Incremental Cancer Risk <sup>(f)</sup>
Acetone	-	-	-	0.1	-	-	-
Benzene	-	-	-	0.003	0.1	-	-
Carbon Tetrachloride	0.021	3.2E-08	1.2E-08	0.0007	0.15	4.6E-05	1.7E-09
Chloroform	0.016	2.5E-08	8.8E-09	0.01	0.031	2.5E-06	2.7E-10
1,2-Dichlorobenzene	0.066	1.0E-07	-	0.09	-	1.1E-06	-
1,1-Dichloroethane	0.065	1.0E-07	3.6E-08	0.1	0.0057	1.0E-06	2.0E-10
1,2-Dichloroethane	-	-	-	-	0.07	-	-
1,1-Dichloroethene	-	-	-	0.009	-	-	-
cis-1,2-Dichloroethene	3.950	6.1E-06	-	0.01	-	6.1E-04	-
trans-1,2-Dichloroethene	0.063	9.8E-08	-	0.02	-	4.9E-06	-
Methylene Chloride	-	-	-	0.06	0.014	-	-
Tetrachloroethene	0.063	9.7E-08	3.5E-08	0.01	0.051	9.7E-06	1.8E-09

Table A-12

Characterization of Baseline Human Health Risks due to Dermal Contact with COCs in Soil  
for Future Maintenance Workers  
3695-3723 Haven Avenue Property, Menlo Park, California

Compound	Representative Concentration (KC) of Compound in Soil <sup>(a)</sup> (mg/kg)	Non-Carcinogenic Chronic Daily Intake <sup>(b)</sup> (mg/kg-day)	Carcinogenic Chronic Daily Intake <sup>(b)</sup> (mg/kg-day)	Non-Carcinogenic Ingestion Reference Dose <sup>(c)</sup> (RfDo) (mg/kg-day)	Carcinogenic Oral Slope Factor <sup>(d)</sup> (SfO) (mg/kg-d) <sup>-1</sup>	Non-Carcinogenic Hazard Index <sup>(e)</sup>	Estimated Lifetime Incremental Cancer Risk <sup>(f)</sup>
Toluene	-	-	-	0.2	-	-	-
1,1,1-Trichloroethane	-	-	-	0.035	-	-	-
Trichloroethene	1.811	2.8E-06	1.0E-06	0.17	0.015	1.6E-05	1.5E-08
1,1,2-Trichloro-1,2,2-Trifluoroethane	0.575	8.9E-07	-	30	-	3.0E-08	-
Vinyl Chloride	0.137	2.1E-07	7.6E-08	0.0014	0.27	1.5E-04	2.0E-08
<b>Total Estimated Risk due to Dermal Contact with Soil Containing COCs:</b>						<b>8.4E-04</b>	<b>3.9E-08</b>

Notes:

(a) Refer to Table A-3 for compilation of representative concentrations.

(b) Chronic daily intakes (CDI) were estimated using methods recommended by U.S. EPA or Cal-EPA, as follows:

$$CDI_{(dermal\ contact)} = \frac{C_s \cdot SAs \cdot ABS \cdot AF \cdot EF \cdot ED \cdot 10^{-6}}{BW \cdot AT} \text{ kg/mg}$$

Table A-13  
Characterization of Baseline Human Health Risks due to Inhalation of COCs Volatilized from Subsurface Soil  
for Future Maintenance Workers  
3695-3723 Haven Avenue Property, Menlo Park, California

Compound	Representative Concentration (RC) of Compound in Soil (e) (mg/kg)	VFs <sub>amb</sub> (b) (kg soil / m <sup>3</sup> air)	Outdoor Air Exposure Point Concentration (c) (mg/m <sup>3</sup> )	Non-Carcinogenic Chronic Daily Intake (c) (mg/kg-day)	Carcinogenic Chronic Daily Intake (c) (mg/kg-day)	Non-Carcinogenic Inhalation Reference Dose (d) (RfDI) (mg/kg-day)	Carcinogenic Inhalation Slope (e) (SF1) (mg/kg-d) <sup>-1</sup>	Non-Carcinogenic Hazard Index (f)	Estimated Lifetime Incremental Cancer Risk (g)
Acetone	-	1.7E-05	-	-	-	0.1	-	-	-
Benzene	-	9.1E-05	-	-	-	0.0017	0.1	-	-
Carbon Tetrachloride	0.021	1.0E-04	2.1E-06	4.2E-07	1.5E-07	0.011	0.15	3.8E-05	2.2E-08
Chloroform	0.016	4.6E-05	7.3E-07	1.4E-07	5.1E-08	0.086	0.019	1.7E-06	9.7E-10
1,2-Dichlorobenzene	0.066	7.4E-06	4.9E-07	9.5E-08	-	0.057	-	1.7E-06	-
1,1-Dichloroethane	0.065	1.3E-04	8.3E-06	1.6E-06	5.8E-07	0.14	0.0057	1.2E-05	3.3E-09
1,2-Dichloroethane	-	4.8E-05	-	-	-	-	0.07	-	-
1,1-Dichloroethene	-	3.8E-04	-	-	-	0.0057	-	-	-
cis-1,2-Dichloroethene	3.950	6.5E-05	2.6E-04	5.0E-05	-	0.01	-	5.0E-03	-
trans-1,2-Dichloroethene	0.063	1.5E-04	9.4E-06	1.8E-06	-	0.02	-	9.2E-05	-
Methylene Chloride	-	9.6E-05	-	-	-	0.086	0.0035	-	-
Tetrachloroethene	0.063	6.7E-05	4.2E-06	8.2E-07	2.9E-07	0.011	0.021	7.5E-05	6.2E-09



Table A-13

Characterization of Baseline Human Health Risks due to Inhalation of COCs Volatilized from Subsurface Soil  
for Future Maintenance Workers  
3695-3723 Haven Avenue Property, Menlo Park, California

Compound	Representative Concentration (RC) of Compound in Soil (a) (mg/kg)	VF <sub>s,amb</sub> <sup>(b)</sup> (kg soil / m <sup>3</sup> air)	Outdoor Air Exposure Point Concentration (c) (mg/m <sup>3</sup> )	Non-Carcinogenic Chronic Daily Intake (c) (mg/kg-day)	Carcinogenic Chronic Daily Intake (c) (mg/kg-day)	Non-Carcinogenic Inhalation Reference Dose (d) (RfD) (mg/kg-day)	Carcinogenic Inhalation Slope (e) (Sf0) (mg/kg-d) <sup>-1</sup>	Non-Carcinogenic Hazard Index (f)	Estimated Lifetime Incremental Cancer Risk (g)
Toluene		6.8E-05				0.11			
1,1,1-Trichloroethane		1.4E-04				0.29			
Trichloroethene	1.811	9.5E-05	1.7E-04	3.4E-05	1.2E-05	0.17	0.01	2.0E-04	1.2E-07
1,1,2-Trichloro-1,2,2-Trifluoroethane	0.575	7.9E-04	4.6E-04	8.9E-05		26		3.4E-06	
Vinyl Chloride	0.137	1.1E-03	1.5E-04	3.0E-05	1.1E-05	0.0014	0.27	2.1E-02	2.9E-06
Total Estimated Risk due to Inhalation of COCs Volatilized from Soil to Outdoor Air:									
								0.03	3.0E-06

Notes:

- (a) Refer to Table A-3 for compilation of representative concentrations ("RCs").
- (b) Volatilization factor from soil to ambient air ("VF<sub>s,amb</sub>") was calculated for each chemical using the Risk-Based Corrective Action model ("RBCA") (ASTM, 1995). Parameters used in the RBCA model are listed in Tables 7 and 8.
- (c) Chronic daily intakes ("CDI<sub>s</sub>") were estimated using methods recommended by U.S. EPA or Cal-EPA. The following equation was used to calculate CDI<sub>s</sub> for parameter values used in calculations:

$$CDI_{(inhalation)} = \frac{C_p \cdot IR_a \cdot EF \cdot ED}{BW \cdot AT}$$



Table A-13

Characterization of Baseline Human Health Risks due to Inhalation of COCs Volatilized from Subsurface Soil  
for Future Maintenance Workers  
3695-3723 Haven Avenue Property, Menlo Park, California

where:

- $CDI_{(inhalation)}$  = Chronic Daily Intake (mg/kg-day)
- $Ca$  = Exposure Point Air Concentration (mg/m<sup>3</sup>) =  $VF_{amb} \cdot RC$  for non-excavation work and  $Ca = VF_{pamb} \cdot RC \cdot AgF$  for excavation work, where  $AgF = Agitation Factor \times 18$ .
- $IRa$  = Air Inhalation Rate (m<sup>3</sup>/day)
- $EF$  = Exposure Frequency (days/year)
- $ED$  = Exposure Duration (years)
- $BW$  = Body Weight (kg)
- $AT$  = Averaging Time (days)

- (d) See Table A-4 for an explanation of chronic noncancer reference doses (RfD) used here. A hyphen (-) indicates an RfD was not found for the compound.
- (e) See Table A-5 for an explanation of carcinogenic slope factors (SFs) used here. A hyphen (-) indicates an SF was not found for the compound.
- (f) Non-carcinogenic hazard index ("HI") for a compound "i" is defined as the  $CDI_i/RfD_i$ . The non-carcinogenic HI, summed for all compounds and exposure pathways, assumes that there is a level of exposure (i.e., RfD) below which it is unlikely even for sensitive populations to experience adverse health effects (U.S. EPA, 1989). If the chronic daily intake (i.e., CDI) exceeds this RfD threshold (i.e., HI greater than 1), there may be concern for potential adverse non-carcinogenic health effects.
- (g) Estimated lifetime incremental cancer risk for compound "i" is defined as  $CDI_i \times SF_i$ . The estimated incremental lifetime cancer risk to an individual of developing cancer due to COCs is given by the sum of incremental cancer risks for all chemicals and exposure pathways.

Table A-14  
Characterization of Baseline Human Health Risks due to Inhalation of COCs Volatilized from Groundwater  
for Future Maintenance Workers  
3695-3723 Haven Avenue Property, Menlo Park, California

Compound	Representative Concentration (RC) of Compound in Groundwater (a) (ug/l)	V <sub>FW</sub> <sup>(b)</sup> (L H <sub>2</sub> O / m <sup>3</sup> air)	Outdoor Air Exposure Point Concentration <sup>(c)</sup> (mg/m <sup>3</sup> )	Non-Carcinogenic Chronic Daily Intake <sup>(c)</sup> (mg/kg-day)	Carcinogenic Chronic Daily Intake <sup>(e)</sup> (mg/kg-day)	Non-Carcinogenic Inhalation Reference Dose <sup>(d)</sup> (RfDI) (mg/kg-day)	Carcinogenic Inhalation Slope <sup>(e)</sup> (SFI) (mg/kg-d) <sup>-1</sup>	Non-Carcinogenic Hazard Index <sup>(f)</sup>	Estimated Lifetime Incremental Cancer Risk <sup>(g)</sup>
Acetone	37	6.0E-07	2.2E-08	4.3E-09	-	0.1	-	4.3E-08	-
Benzene	23	5.4E-06	1.2E-07	2.4E-08	8.7E-09	0.0017	0.1	1.4E-05	8.7E-10
Carbon Tetrachloride	2000	9.3E-06	1.9E-05	3.6E-06	1.3E-06	0.011	0.15	3.3E-04	1.9E-07
Chloroform	1000	3.8E-06	3.8E-06	7.4E-07	2.6E-07	0.086	0.019	8.6E-06	5.0E-09
1,2-Dichlorobenzene	-	2.3E-06	-	-	-	0.057	-	-	-
1,1-Dichloroethane	140	4.9E-06	6.8E-07	1.3E-07	4.8E-08	0.14	0.0057	9.5E-07	2.7E-10
1,2-Dichloroethane	5.0	2.1E-06	1.0E-08	-	7.2E-10	-	0.07	-	5.0E-11
1,1-Dichloroethene	270	1.0E-05	2.8E-06	5.4E-07	-	0.0057	-	9.5E-05	-
cis-1,2-Dichloroethene	25000	4.1E-06	1.0E-04	2.0E-05	-	0.01	-	2.0E-03	-
trans-1,2-Dichloroethene	2.0	6.6E-06	1.3E-08	2.6E-09	-	0.02	-	1.3E-07	-
Methylene Chloride	32	3.2E-06	1.0E-07	2.0E-08	7.2E-09	0.086	0.0035	2.3E-07	2.5E-11
Tetrachloroethene	46	6.8E-06	3.1E-07	6.1E-08	2.2E-08	0.011	0.021	5.6E-06	4.6E-10



**Characterization of Baseline Human Health Risks due to Inhalation of COCs Volatilized from Groundwater  
for Future Maintenance Workers  
3695-3723 Haven Avenue Property, Menlo Park, California**

Table A-14

Compound	Representative Concentration (RC) of Compound in Groundwater (a) (ug/L)	V <sub>Fw</sub> <sup>amb</sup> (L H <sub>2</sub> O / m <sup>3</sup> air)	Outdoor Air Exposure Point Concentration (b) (mg/m <sup>3</sup> )	Non-Carcinogenic Chronic Daily Intake (c) (mg/kg-day)	Carcinogenic Chronic Daily Intake (c) (mg/kg-day)	Non-Carcinogenic Inhalation Reference Dose (d) (RfDI) (mg/kg-day)	Carcinogenic Inhalation Slope (e) (SfQ) (mg/kg-d) <sup>-1</sup>	Non-Carcinogenic Hazard Index (f)	Estimated Lifetime Incremental Cancer Risk (g)
Toluene	7.0	5.3E-06	3.7E-08	7.3E-09	-	0.11	-	6.7E-08	-
1,1,1-Trichloroethane	27	7.3E-06	2.0E-07	3.9E-08	-	0.29	-	1.3E-07	-
Trichloroethene	26000	5.8E-06	1.5E-03	2.9E-04	1.0E-04	0.17	0.01	1.7E-03	1.0E-06
1,1,2-Trichloro-1,2,2-Trifluoroethane	2200	3.8E-05	8.4E-05	1.6E-05	-	26	-	6.3E-07	-
Vinyl Chloride	650	1.2E-05	8.0E-06	1.6E-06	5.6E-07	0.0014	0.27	1.1E-03	1.5E-07
<b>Total Estimated Risk due to Inhalation of COCs Volatilized from Groundwater to Outdoor Air:</b>									<b>1.4E-06</b>

**Notes:**

- (a) Refer to Table A-3 for compilation of representative concentrations ("RCs").
- (b) Volatilization factor from groundwater to ambient air ("V<sub>Fw</sub><sup>amb</sup>") was calculated for each chemical using the Risk-Based Corrective Action model ("RBCA") (ASTM, 1995). Parameters used in the RBCA model are listed in Tables 7 and 8.
- (c) Chronic daily intakes ("CDIs") were estimated using methods recommended by U.S. EPA or Cal-EPA. The following equation was used to calculate CDIs (Refer to Table A-6 for parameter values used in calculations):

$$CDI_{(inhalation)} = \frac{C_a \cdot IR \cdot EF \cdot ED}{BW \cdot AT}$$



# Characterization of Baseline Human Health Risks due to Inhalation of COCs Volatilized from Groundwater for Future Maintenance Workers

3695-3723 Haven Avenue Property, Menlo Park, California

Table A-14

where:

$CDI_{(inhalation)}$  = Chronic Daily Intake (mg/kg-day)

$Ca$  = Exposure Point Air Concentration ( $mg/m^3$ ) =  $VF \cdot w_{amb} \cdot RC$

$IRa$  = Air Inhalation Rate ( $m^3/day$ )

$EF$  = Exposure Frequency (days/year)

$ED$  = Exposure Duration (years)

$BW$  = Body Weight (kg)

$AT$  = Averaging Time (days)

(d) See Table A-4 for an explanation of chronic noncancer reference doses (RfD) used here. A hyphen (-) indicates an RfD was not found for the compound.

(e) See Table A-5 for an explanation of carcinogenic slope factors (SFs) used here. A hyphen (-) indicates an SF was not found for the compound.

(f) Non-carcinogenic hazard index ("HI") for a compound "i" is defined as the  $CDI_i/RfD_i$ . The non-carcinogenic HI, summed for all compounds and exposure pathways, assumes that there is a level of exposure (i.e., RfD) below which it is unlikely even for sensitive populations to experience adverse health effects [U.S. EPA, 1989]. If the chronic daily intake (i.e., CDI) exceeds this RfD threshold (i.e., HI greater than 1), there may be concern for potential adverse non-carcinogenic health effects.

(g) Estimated lifetime incremental cancer risk for compound "i" is defined as  $CDI_i \times SF_i$ . The estimated incremental lifetime cancer risk to an individual of developing cancer due to COCs is given by the sum of incremental cancer risks for all chemicals and exposure pathways.

Table A-15

Characterization of Baseline Human Health Risks due to Ingestion of COCs in Soil  
for Construction Workers  
3695-3723 Haven Avenue Property, Menlo Park, California

Compound	Representative Concentration (RC) of Compound in Soil <sup>(a)</sup> (mg/kg)	Non-Carcinogenic Chronic Daily Intake <sup>(b)</sup> (mg/kg-day)	Carcinogenic Chronic Daily Intake <sup>(b)</sup> (mg/kg-day)	Non-Carcinogenic Ingestion Reference Dose <sup>(c)</sup> (RfDo) (mg/kg-day)	Carcinogenic Oral Slope Factor <sup>(d)</sup> (SfO) (mg/kg-d) <sup>-1</sup>	Non-Carcinogenic Hazard Index	Estimated Lifetime Incremental Cancer Risk <sup>(f)</sup>
Acetone	-	-	-	0.1	-	-	-
Benzene	-	-	-	0.003	0.1	-	-
Carbon Tetrachloride	0.021	3.4E-08	4.9E-10	0.0007	0.15	4.9E-05	7.3E-11
Chloroform	0.016	2.6E-08	3.7E-10	0.01	0.031	2.6E-06	1.2E-11
1,2-Dichlorobenzene	0.066	1.1E-07	-	0.09	-	1.2E-06	-
1,1-Dichloroethane	0.065	1.1E-07	1.5E-09	0.1	0.0057	1.1E-06	8.6E-12
1,2-Dichloroethane	-	-	-	-	0.07	-	-
1,1-Dichloroethene	-	-	-	0.009	-	-	-
cis-1,2-Dichloroethene	3.950	6.4E-06	-	0.01	-	6.4E-04	-
trans-1,2-Dichloroethene	0.063	1.0E-07	-	0.02	-	5.2E-06	-
Methylene Chloride	-	-	-	0.06	0.014	-	-
Tetrachloroethene	0.063	1.0E-07	1.5E-09	0.01	0.051	1.0E-05	7.4E-11



Table A-15

Characterization of Baseline Human Health Risks due to Ingestion of COCs in Soil  
for Construction Workers

3695-3723 Haven Avenue Property, Menlo Park, California

Compound	Representative Concentration (RC) of Compound in Soil <sup>(a)</sup> (mg/kg)	Non-Carcinogenic Chronic Daily Intake <sup>(b)</sup> (mg/kg-day)	Carcinogenic Chronic Daily Intake <sup>(b)</sup> (mg/kg-day)	Non-Carcinogenic Ingestion Reference Dose <sup>(c)</sup> (RfDo) (mg/kg-day)	Carcinogenic Oral Slope Factor <sup>(d)</sup> (SFO) (mg/kg-d) <sup>-1</sup>	Non-Carcinogenic Hazard Index	Estimated Lifetime Incremental Cancer Risk <sup>(e)</sup>
Toluene	-	-	-	0.2	-	-	-
1,1,1-Trichloroethane	-	-	-	0.035	-	-	-
Trichloroethene	1.811	2.9E-06	4.2E-08	0.17	0.015	1.7E-05	6.3E-10
1,1,2-Trichloro-1,2,2-Trifluoroethane	0.575	9.4E-07	-	30	-	3.1E-08	-
Vinyl Chloride	0.137	2.2E-07	3.2E-09	0.0014	0.27	1.6E-04	8.6E-10
Total Estimated Risk due to Ingestion of Soil Containing COCs:							
						0.0009	1.7E-09

Notes:

(a) Refer to Table A-3 for compilation of representative concentrations.

(b) Chronic daily intakes (CDIs) were estimated using methods recommended by U.S. EPA or Cal-EPA, as follows:

(Note that different soil ingestion rates were assumed for excavation and non-excavation work. See Table A-6 for details.)

$$CDI_{(ingestion)} = \frac{Cs \cdot IRs \cdot Ef \cdot ED \cdot 10^{-4} \text{ kg/mg}}{BW \cdot At}$$

where:

$CDI_{(ingestion)}$  = Chronic daily intake (mg/kg-day)

$Cs$  = Concentration in soil (mg/kg)

$IRs$  = Ingestion Rate of soil (mg/day)



Table A-15

**Characterization of Baseline Human Health Risks due to Ingestion of COCs in Soil  
for Construction Workers  
3695-3723 Haven Avenue Property, Menlo Park, California**

EF = Exposure Frequency (days/year)  
ED = Exposure Duration (years)  
BW = Body Weight (kg)  
AT = Averaging Time (days)  
and assuming Cs = RC<sub>soil</sub>

- (c) See Table A-4 for an explanation of chronic noncancer reference doses (RfD) used here. A hyphen (-) indicates an RfD was not found for the compound.
- (d) See Table A-5 for an explanation of carcinogenic slope factors (SFs) used here. A hyphen (-) indicates an SF was not found for the compound.
- (e) Non-carcinogenic hazard index (HI) for a compound "i" is defined as the CDI/RfD<sub>i</sub>. The non-carcinogenic HI, summed for all compounds and exposure pathways, assumes that there is a level of exposure (i.e., RfD) below which it is unlikely even for sensitive populations to experience adverse health effects (U.S. EPA, 1989). If the chronic daily intake (i.e., CDI) exceeds this RfD threshold (i.e., HI greater than 1), there may be concern for potential adverse non-carcinogenic health effects.
- (f) Estimated lifetime incremental cancer risk for compound "i" is defined as CDI<sub>i</sub> x SF<sub>i</sub>. The estimated incremental lifetime cancer risk to an individual of developing cancer due to COCs is given by the sum of incremental cancer risks for all chemicals and exposure pathways.





**Table A-16**  
**Characterization of Baseline Human Health Risks due to Dermal Contact with COCs in Soil**  
**for Construction Workers**  
**3695-3723 Haven Avenue Property, Menlo Park, California**

Compound	Representative Concentration (RC) of Compound in Soil <sup>(a)</sup> (mg/kg)	Non-Carcinogenic Chronic Daily Intake <sup>(h)</sup> (mg/kg-day)	Carcinogenic Chronic Daily Intake <sup>(b)</sup> (mg/kg-day)	Non-Carcinogenic Ingestion Reference Dose <sup>(c)</sup> (RfD <sub>o</sub> ) (mg/kg-day)	Carcinogenic Oral Slope Factor <sup>(d)</sup> (SF <sub>o</sub> ) (mg/kg-d) <sup>-1</sup>	Non-Carcinogenic Hazard Index <sup>(e)</sup>	Estimated Lifetime Incremental Cancer Risk <sup>(f)</sup>
Acetone	-	-	-	0.1	-	-	-
Benzene	-	-	-	0.003	0.1	-	-
Carbon Tetrachloride	0.021	3.2E-08	1.2E-08	0.0007	0.15	4.6E-05	1.7E-09
Chloroform	0.016	2.5E-08	8.8E-09	0.01	0.031	2.5E-06	2.7E-10
1,2-Dichlorobenzene	0.066	1.0E-07	-	0.09	-	1.1E-06	-
1,1-Dichloroethane	0.065	1.0E-07	3.6E-08	0.1	0.0057	1.0E-06	2.0E-10
1,2-Dichloroethane	-	-	-	-	0.07	-	-
1,1,1-Dichloroethene	-	-	-	0.009	-	-	-
cis-1,2-Dichloroethene	3.950	6.1E-06	-	0.01	-	6.1E-04	-
trans-1,2-Dichloroethene	0.063	9.8E-08	-	0.02	-	4.9E-06	-
Methylene Chloride	-	-	-	0.06	0.014	-	-
Tetrachloroethene	0.063	9.7E-08	3.5E-08	0.01	0.051	9.7E-06	1.8E-09

Table A-16  
Characterization of Baseline Human Health Risks due to Dermal Contact with COCs in Soil  
for Construction Workers  
3695-3723 Haven Avenue Property, Menlo Park, California

Compound	Representative Concentration (RC) of Compound in Soil <sup>(a)</sup> (mg/kg)	Non-Carcinogenic Chronic Daily Intake <sup>(b)</sup> (mg/kg-day)	Carcinogenic Chronic Daily Intake <sup>(b)</sup> (mg/kg-day)	Non-Carcinogenic Ingestion Reference Dose <sup>(c)</sup> (RfDo) (mg/kg-day)	Carcinogenic Oral Slope Factor <sup>(d)</sup> (SFO) (mg/kg-d) <sup>-1</sup>	Non-Carcinogenic Hazard Index <sup>(e)</sup>	Estimated Lifetime Incremental Cancer Risk <sup>(f)</sup>
Toluene	-	-	-	0.2	-	-	-
1,1,1-Trichloroethane	-	-	-	0.035	-	-	-
Trichloroethene	1.811	2.8E-06	1.0E-06	0.17	0.015	1.6E-05	1.5E-08
1,1,2-Trichloro-1,2,2-Trifluoroethane	0.575	8.9E-07	-	30	-	3.0E-08	-
Vinyl Chloride	0.137	2.1E-07	7.6E-08	0.0014	0.27	1.5E-04	2.0E-08
Total Estimated Risk due to Dermal Contact with Soil Containing COCs:							
						8.4E-04	3.9E-08

Notes:

(a) Refer to Table A-3 for compilation of representative concentrations.

(b) Chronic daily intakes (CDI)s were estimated using methods recommended by U.S. EPA or Cal-EPA, as follows:

$$CDI_{(dermal\ contact)} = \frac{C_s \cdot SAs \cdot ABS \cdot A \cdot EF \cdot ED \cdot 10^{-6} \text{ kg/mg}}{BW \cdot AT}$$



Table A-16

Characterization of Baseline Human Health Risks due to Dermal Contact with COCs in Soil  
for Construction Workers

3695-3723 Haven Avenue Property, Menlo Park, California

- where:
- $CDI_{(dermal\ cancer)}$  = Chronic daily intake (mg/kg-day)
  - $C_s$  = Concentration in soil (mg/kg)
  - $SAs$  = Surface Area of Skin exposed to soil contact (cm<sup>2</sup>/event)
  - $AF$  = Soil Adherence Factor (mg/cm<sup>2</sup>)
  - $ABS$  = Soil-Dermal Absorption Fraction (dimensionless)
  - $EF$  = Exposure Frequency (events/year)
  - $ED$  = Exposure Duration (years)
  - $BW$  = Body Weight (kg)
  - $AT$  = Averaging Time (days)

and assuming  $C_s = RC_{soil}$

- (c) See Table A-4 for an explanation of chronic noncancer reference doses (RfD) used here. A hyphen (-) indicates an RfD was not found for the compound.
- (d) See Table A-5 for an explanation of carcinogenic slope factors (SF<sub>c</sub>) used here. A hyphen (-) indicates an SF was not found for the compound.
- (e) Non-carcinogenic hazard index (HI) for a compound "i" is defined as the  $CDI_i/RfD_i$ . The non-carcinogenic HI, summed for all compounds and exposure pathways, assumes that there is a level of exposure (i.e., RfD) below which it is unlikely even for sensitive populations to experience adverse health effects [U.S. EPA, 1989]. If the chronic daily intake (i.e., CDI) exceeds this RfD threshold (i.e., HI greater than 1), there may be concern for potential adverse non-carcinogenic health effects.
- (f) Estimated lifetime incremental cancer risk for compound "i" is defined as  $CDI_i \times SF_i$ . The estimated incremental lifetime cancer risk to an individual of developing cancer due to COCs is given by the sum of incremental cancer risks for all chemicals and exposure pathways.



1998-135815  
06/09/1999 03:24P  
DR Page: 149 of 153

Table A-17

Characterization of Baseline Human Health Risks due to Inhalation of COCs Volatilized from Subsurface Soil  
for Construction Workers  
3695-3723 Haven Avenue Property, Menlo Park, California

Compound	Representative Concentration (RC) of Compound in Soil (a) (mg/kg)	VFs <sub>amb</sub> <sup>(b)</sup> (kg soil / m <sup>3</sup> air)	Outdoor Air Exposure Point Concentration (c) (mg/m <sup>3</sup> )	Non-Carcinogenic Chronic Daily Intake (c) (mg/kg-day)	Carcinogenic Chronic Daily Intake (c) (mg/kg-day)	Non-Carcinogenic Inhalation Reference Dose (d) (mg/kg-day)	Carcinogenic Inhalation Slope (e) (SFI) (mg/kg-d) <sup>-1</sup>	Non-Carcinogenic Hazard Index (f)	Estimated Lifetime Incremental Cancer Risk (g)
Acetone	-	1.7E-05	-	-	-	0.1	-	-	-
Benzene	-	9.1E-05	-	-	-	0.0017	0.1	-	-
Carbon Tetrachloride	0.021	1.0E-04	2.1E-06	1.4E-07	2.1E-09	0.011	0.15	1.3E-05	3.1E-10
Chloroform	0.016	4.6E-05	7.3E-07	4.9E-08	7.1E-10	0.086	0.019	5.7E-07	1.3E-11
1,2-Dichlorobenzene	0.066	7.4E-06	4.9E-07	3.3E-08	-	0.057	-	5.8E-07	-
1,1-Dichloroethane	0.065	1.3E-04	8.3E-06	5.7E-07	8.1E-09	0.14	0.0057	4.0E-06	4.6E-11
1,2-Dichloroethane	-	4.8E-05	-	-	-	-	0.07	-	-
1,1-Dichloroethene	-	3.8E-04	-	-	-	0.0057	-	-	-
cis-1,2-Dichloroethene	3.950	6.5E-05	2.6E-04	1.7E-05	-	0.01	-	1.7E-03	-
trans-1,2-Dichloroethene	0.063	1.5E-04	9.4E-06	6.4E-07	-	0.02	-	3.2E-05	-
Methylene Chloride	-	9.6E-05	-	-	-	0.086	0.0035	-	-
Tetrachloroethene	0.063	6.7E-05	4.2E-06	2.8E-07	4.1E-09	0.011	0.021	2.6E-05	8.5E-11

Table A-17  
Characterization of Baseline Human Health Risks due to Inhalation of COCs Volatilized from Subsurface Soil  
for Construction Workers  
3695-3723 Haven Avenue Property, Menlo Park, California

Compound	Representative Concentration (RC) of Compound in Soil (a) (mg/kg)	VF <sub>s,amb</sub> (b) (kg soil / m <sup>3</sup> air)	Outdoor Air Exposure Point Concentration (c) (mg/m <sup>3</sup> )	Non-Carcinogenic Chronic Daily Intake (c) (mg/kg-day)	Carcinogenic Chronic Daily Intake (c) (mg/kg-day)	Non-Carcinogenic Inhalation Reference Dose (d) (mg/kg-day)	Carcinogenic Inhalation Slope (e) (SF <sub>0</sub> ) (mg/kg-d) <sup>-1</sup>	Non-Carcinogenic Hazard Index (f)	Estimated Lifetime Incremental Cancer Risk (g)	
Toluene	-	6.8E-05	-	-	-	0.11	-	-	-	
1,1,1-Trichloroethane	-	1.4E-04	-	-	-	0.29	-	-	-	
Trichloroethene	1.811	9.5E-05	1.7E-04	1.2E-05	1.7E-07	0.17	0.01	6.9E-05	1.7E-09	
1,1,2-Trichloro-1,2,2-Trifluoroethane	0.575	7.9E-04	4.6E-04	3.1E-05	-	26	-	1.2E-06	-	
Vinyl Chloride	0.137	1.1E-03	1.5E-04	1.0E-05	1.5E-07	0.0014	0.27	7.3E-03	4.0E-08	
Total Estimated Risk due to Inhalation of COCs Volatilized from Soil to Outdoor Air:										
									0.0	4.2E-08

Notes:

- (a) Refer to Table A-3 for compilation of representative concentrations ("RCs").
- (b) Volatilization factor from soil to ambient air ("VF<sub>s,amb</sub>") was calculated for each chemical using the Risk-Based Corrective Action model ("RBCA") [ASTM, 1995]. Parameters used in the RBCA model are listed in Tables 7 and 8.
- (c) Chronic daily intakes ("CDIs") were estimated using methods recommended by U.S. EPA or Cal-EPA. The following equation was used to calculate CDIs (Refer to Table A-6 for parameter values used in calculations):

$$CDI_{(inhalation)} = \frac{C_a \cdot IR_a \cdot EF \cdot ED}{BW \cdot AT}$$



Table A-17

Characterization of Baseline Human Health Risks due to Inhalation of COCs Volatilized from Subsurface Soil  
for Construction Workers  
3695-3723 Haven Avenue Property, Menlo Park, California

where:

$CDI_{(inhalation)}$  = Chronic Daily Intake (mg/kg-day)

$Ca$  = Exposure Point Air Concentration ( $mg/m^3$ ) =  $Vf_{samb} * RC$  for non-excavation work and  $Ca = Vf_{samb} * RC * AgF$  for excavation work, where  $AgF$  = Agitation Factor = 1.

$IRa$  = Air Inhalation Rate ( $m^3/day$ )

$EF$  = Exposure Frequency (days/year)

$ED$  = Exposure Duration (years)

$BW$  = Body Weight (kg)

$AT$  = Averaging Time (days)

(d) See Table A-4 for an explanation of chronic noncancer reference doses (RfD) used here. A hyphen (-) indicates an RfD was not found for the compound.

(e) See Table A-5 for an explanation of carcinogenic slope factors (SFs) used here. A hyphen (-) indicates an SF was not found for the compound.

(f) Non-carcinogenic hazard index ("HI") for a compound "i" is defined as the  $CDI_i/RfD_i$ . The non-carcinogenic HI, summed for all compounds and exposure pathways, assumes that there is a level of exposure (i.e., RfD) below which it is unlikely even for sensitive populations to experience adverse health effects [U.S. EPA, 1989]. If the chronic daily intake (i.e., CDI) exceeds this RfD threshold (i.e., HI greater than 1), there may be concern for potential adverse non-carcinogenic health effects.

(g) Estimated lifetime incremental cancer risk for compound "i" is defined as  $CDI_i * SF_i$ . The estimated incremental lifetime cancer risk to an individual of developing cancer due to COCs is given by the sum of incremental cancer risks for all chemicals and exposure pathways.



1999-135816  
08/09/1999 03:24P  
DR Page 144 of 163

Table A-18

Characterization of Baseline Human Health Risks due to Inhalation of COCs Volatilized from Groundwater  
for Construction Workers

3695-3723 Haven Avenue Property, Menlo Park, California

Compound	Representative Concentration (RC) of Compound in Groundwater (a) (ug/L)	VFW <sub>emb</sub> (b) (L H <sub>2</sub> O / m <sup>3</sup> air)	Outdoor Air Exposure Point Concentration (c) (mg/m <sup>3</sup> )	Non-Carcinogenic Chronic Daily Intake (c) (mg/kg-day)	Carcinogenic Chronic Daily Intake (c) (mg/kg-day)	Non-Carcinogenic Inhalation Reference Dose (d) (RfDI) (mg/kg-day)	Carcinogenic Inhalation Slope (e) (SfO) (mg/kg-d) <sup>-1</sup>	Non-Carcinogenic Hazard Index (f)	Estimated Lifetime Incremental Cancer Risk (g)
Toluene	7.0	5.3E-06	3.7E-08	2.5E-09	-	0.11	-	2.3E-08	-
1,1,1-Trichloroethane	27	7.3E-06	2.0E-07	1.3E-08	-	0.29	-	4.6E-08	-
Trichloroethene	260000	5.8E-06	1.5E-03	1.0E-04	1.5E-06	0.17	0.01	6.0E-04	1.5E-08
1,1,2-Trichloro-1,2,2-Trifluoroethane	2200	3.8E-05	8.4E-05	5.7E-06	-	26	-	2.2E-07	-
Vinyl Chloride	650	1.2E-05	8.0E-06	5.5E-07	7.8E-09	0.0014	0.27	3.9E-04	2.1E-09
Total Estimated Risk due to Inhalation of COCs Volatilized from Groundwater to Outdoor Air:									
								0.00	1.9E-08

Notes:

(a) Refer to Table A-3 for compilation of representative concentrations ("RCs").

(b) Volatilization factor from groundwater to ambient air ("VFW<sub>emb</sub>") was calculated for each chemical using the Risk-Based Corrective Action model ("RBCA") [ASTM, 1995]. Parameters used in the RBCA model are listed in Tables 7 and 8.

(c) Chronic daily intakes ("CDIs") were estimated using methods recommended by U.S. EPA or Cal-EPA. The following equation was used to calculate CDIs (Refer to Table A-6 for parameter values used in calculations):

$$CDI_{(inhalation)} = \frac{C_g \cdot IR_g \cdot EF \cdot ED}{BW \cdot AT}$$



Table A-18

Characterization of Baseline Human Health Risks due to Inhalation of COCs Volatilized from Groundwater  
for Construction Workers  
3695-3723 Haven Avenue Property, Menlo Park, California

where:

$CDI_{(inhalation)}$  = Chronic Daily Intake (mg/kg-day)

$C_a$  = Exposure Point Air Concentration (mg/m<sup>3</sup>) \* V<sub>Fwamb</sub> \* RC

$I_{Ra}$  = Air Inhalation Rate (m<sup>3</sup>/day)

$EF$  = Exposure Frequency (days/year)

$ED$  = Exposure Duration (years)

$BW$  = Body Weight (kg)

$AT$  = Averaging Time (days)

(d) See Table A-4 for an explanation of chronic noncancer reference doses (RfD) used here. A hyphen (-) indicates an RfD was not found for the compound.

(c) See Table A-5 for an explanation of carcinogenic slope factors (SFs) used here. A hyphen (-) indicates an SF was not found for the compound.

(f) Non-carcinogenic hazard index ("HI") for a compound "i" is defined as the  $CDI_i/RfD_i$ . The non-carcinogenic HI, summed for all compounds and exposure pathways, assumes that there is a level of exposure (i.e., RfD) below which it is unlikely even for sensitive populations to experience adverse health effects [U.S. EPA, 1989]. If the chronic daily intake (i.e., CDI) exceeds this RfD threshold (i.e., HI greater than 1), there may be concern for potential adverse non-carcinogenic health effects.  
(g) Estimated lifetime incremental cancer risk for compound "i" is defined as  $CDI_i \times SF_i$ . The estimated incremental lifetime cancer risk to an individual of developing cancer due to COCs is given by the sum of incremental cancer risks for all chemicals and exposure pathways.



**Table A-19**  
**Summary of Baseline Human Health Risks from All Exposure Pathways**  
**for Future Indoor Workers**  
**3695-3723 Haven Avenue Property, Menlo Park, California**

Compound	Non-Carcinogenic Hazard Index			Estimated Lifetime Cancer Risk				
	Inhalation of Volatiles From Soil	Inhalation of Volatiles From Groundwater	Per Chemical Subtotal	% of Total	Inhalation of Volatiles From Groundwater	Inhalation of Volatiles From Soil	Per Chemical Subtotal	% of Total
Acetone	-	2.1E-07	2.1E-07	0%	-	-	-	-
Benzene	-	1.3E-04	1.3E-04	0%	7.7E-09	-	7.7E-09	0%
Carbon Tetrachloride	3.0E-05	6.2E-03	6.3E-03	8%	3.7E-06	1.7E-08	3.7E-06	19%
Chloroform	1.3E-06	5.9E-05	6.0E-05	0%	3.4E-08	7.5E-10	3.5E-08	0%
1,2-Dichlorobenzene	1.3E-06	-	1.3E-06	0%	-	-	-	-
1,1-Dichloroethane	9.1E-06	7.7E-06	1.7E-05	0%	2.2E-09	2.6E-09	4.8E-09	0%
1,2-Dichloroethane	-	-	-	-	2.8E-10	-	2.8E-10	0%
1,1-Dichloroethene	-	1.7E-03	1.7E-03	2%	-	-	-	-
cis-1,2-Dichloroethene	3.9E-03	1.4E-02	1.8E-02	22%	-	-	-	-
trans-1,2-Dichloroethene	7.2E-05	1.3E-06	7.3E-05	0%	-	-	-	-
Methylene Chloride	-	1.4E-06	1.4E-06	0%	-	-	-	-
Tetrachloroethene	5.8E-05	7.7E-05	1.4E-04	0%	6.4E-09	4.8E-09	1.1E-08	0%
Toluene	-	6.6E-07	6.6E-07	0%	-	-	-	-
1,1,1-Trichloroethane	-	1.9E-06	1.9E-06	0%	-	-	-	-
Trichloroethene	1.5E-04	1.7E-02	1.7E-02	22%	1.1E-05	9.4E-08	1.1E-05	55%
1,1,2-Trichloro-1,2,2-	2.7E-06	2.9E-05	3.1E-05	0%	-	-	-	-
Vinyl Chloride	1.6E-02	2.0E-02	3.7E-02	46%	2.7E-06	2.2E-06	4.9E-06	26%
Subtotal Hazard Index or Risk	0.02	0.06			1.7E-05	2.3E-06		
% of Total	26%	74%			88%	12%		
Totals:	Total Non-Carcinogenic Hazard Index for all COCs: (Future Indoor Workers) 0.08				Total Estimated Lifetime Cancer Risk for all COCs: (Future Indoor Workers) 1.9E-05			

Table A-20  
Summary of Baseline Human Health Risks from All Exposure Pathways  
for Future Maintenance Workers  
3695-3723 Haven Avenue Property, Menlo Park, California

Compound	Non-Carcinogenic Hazard Index							Estimated Lifetime Cancer Risk				
	Soil Ingestion	Dermal Contact	Inhalation of Volatiles From Soil	Inhalation of Volatiles From Groundwater	Per Chemical Subtotal	% of Total	Soil Ingestion	Dermal Contact	Inhalation of Volatiles From Soil	Inhalation of Volatiles From Groundwater	Per Chemical Subtotal	% of Total
Acetone	-	-	-	4.3E-08	4.3E-08	0%	-	-	-	-	-	-
Benzene	-	-	-	1.4E-05	1.4E-05	0%	-	-	-	8.7E-10	8.7E-10	0%
Carbon Tetrachloride	1.7E-05	4.6E-05	3.8E-05	3.3E-04	4.3E-04	1%	6.5E-10	1.7E-09	2.2E-08	1.9E-07	2.2E-07	5%
Chloroform	9.2E-07	2.5E-06	1.7E-06	8.6E-06	1.4E-05	0%	1.0E-10	2.7E-10	9.7E-10	5.0E-09	6.3E-09	0%
1,2-Dichlorobenzene	4.2E-07	1.1E-06	1.7E-06	-	3.2E-06	0%	-	-	-	-	-	-
1,1-Dichloroethane	3.7E-07	1.0E-06	1.2E-05	9.5E-07	1.4E-05	0%	7.6E-11	2.0E-10	3.3E-09	2.7E-10	3.9E-09	0%
1,2-Dichloroethane	-	-	-	-	-	-	-	-	-	5.0E-11	5.0E-11	0%
1,1,1-Trichloroethane	-	-	-	9.5E-05	9.5E-05	0%	-	-	-	-	-	-
cis-1,2-Dichloroethane	2.3E-04	6.1E-04	5.0E-03	2.0E-03	7.8E-03	24%	-	-	-	-	-	-
trans-1,2-Dichloroethane	1.8E-06	4.9E-06	9.2E-05	1.3E-07	9.9E-05	0%	-	-	-	-	-	-
Methylene Chloride	-	-	-	2.3E-07	2.3E-07	0%	-	-	-	2.5E-11	2.5E-11	0%
Tetrachloroethene	3.6E-06	9.7E-06	7.5E-05	5.6E-06	9.3E-05	0%	6.5E-10	1.8E-09	6.2E-09	4.6E-10	9.0E-09	0%
Toluene	-	-	-	6.7E-08	6.7E-08	0%	-	-	-	-	-	-
1,1,1-Trichloroethane	-	-	-	1.3E-07	1.3E-07	0%	-	-	-	-	-	-
Trichloroethene	6.1E-06	1.6E-05	2.0E-04	1.7E-03	1.9E-03	6%	5.6E-09	1.5E-08	1.2E-07	1.0E-06	1.2E-06	27%
1,1,2-Trichloro-1,2,2-Trifluoroethane	1.1E-08	3.0E-08	3.4E-06	6.3E-07	4.1E-06	0%	-	-	-	-	-	-
Vinyl Chloride	5.6E-05	1.5E-04	2.1E-02	1.1E-03	2.2E-02	68%	7.6E-09	2.0E-08	2.9E-06	1.5E-07	3.0E-06	68%
Subtotal Hazard Index or Risk	3.1E-04	8.4E-04	0.03	0.005			1.5E-08	3.9E-08	3.0E-06	1.4E-06		
% of Total	1%	3%	80%	16%			0%	1%	67%	31%		
Totals:	Total Estimated Non-Carcinogenic Hazard Index for All COC (Future Maintenance Workers) 0.03							Total Estimated Lifetime Cancer Risk for All COCs (Future Maintenance Workers) 4.5E-06				

**Table A-21**  
**Summary of Baseline Human Health Risks from All Exposure Pathways**  
**for Construction Workers**  
**3695-3723 Haven Avenue Property, Menlo Park, California**

Compound	Non-Carcinogenic Hazard Index						Estimated Lifetime Incremental Cancer Risk					
	Soil Ingestion	Dermal Contact	Inhalation of Volatiles From Soil	Inhalation of Volatiles From Groundwater	Per Chemical Subtotal	% of Total	Soil Ingestion	Dermal Contact	Inhalation of Volatiles From Soil	Inhalation of Volatiles From Groundwater	Per Chemical Subtotal	% of Total
Acetone	-	-	1.5E-08	1.5E-08	1.5E-08	0%	-	-	-	-	-	-
Benzene	-	-	5.0E-06	5.0E-06	5.0E-06	0%	-	-	-	1.2E-11	1.2E-11	0%
Carbon Tetrachloride	4.9E-05	4.6E-05	1.3E-05	1.1E-04	2.2E-04	2%	7.3E-11	1.7E-09	3.1E-10	2.7E-09	4.8E-09	5%
Chloroform	2.6E-06	2.5E-06	5.7E-07	3.0E-06	8.6E-06	0%	1.2E-11	2.7E-10	1.3E-11	6.9E-11	3.7E-10	0%
1,2-Dichlorobenzene	1.2E-06	1.1E-06	5.8E-07	-	2.9E-06	0%	-	-	-	-	-	-
1,1,1-Dichloroethane	1.1E-06	1.0E-06	4.0E-06	3.3E-07	6.4E-06	0%	8.6E-12	2.0E-10	4.6E-11	3.8E-12	2.6E-10	0%
1,2-Dichloroethane	-	-	-	-	-	-	-	-	-	7.0E-13	7.0E-13	0%
1,1,1-Trichloroethane	-	-	3.3E-05	3.3E-05	3.3E-05	0%	-	-	-	-	-	-
cis-1,2-Dichloroethene	6.4E-04	6.1E-04	1.7E-03	6.9E-04	3.7E-03	29%	-	-	-	-	-	-
trans-1,2-Dichloroethene	5.2E-06	4.9E-06	3.2E-05	4.4E-08	4.2E-05	0%	-	-	-	-	-	-
Methylene Chloride	-	-	8.1E-08	8.1E-08	8.1E-08	0%	-	-	-	3.5E-13	3.5E-13	0%
Tetrachloroethene	1.0E-05	9.7E-06	2.6E-05	1.9E-06	4.8E-05	0%	7.4E-11	1.8E-09	8.5E-11	6.4E-12	1.9E-09	2%
Toluene	-	-	2.3E-08	2.3E-08	2.3E-08	0%	-	-	-	-	-	-
1,1,1-Trichloroethane	-	-	4.6E-08	4.6E-08	4.6E-08	0%	-	-	-	-	-	-
Trichloroethene	1.7E-05	1.6E-05	6.9E-05	6.0E-04	7.0E-04	5%	6.3E-10	1.5E-08	1.7E-09	1.5E-08	3.2E-08	31%
1,1,2-Trichloro-1,2,2-Trifluoroethane	3.1E-08	3.0E-08	1.2E-06	2.2E-07	1.5E-06	0%	-	-	-	-	-	-
Vinyl Chloride	1.6E-04	1.5E-04	7.3E-03	3.9E-04	8.0E-03	63%	8.6E-10	2.0E-08	4.0E-08	2.1E-09	6.3E-08	62%
Subtotal Hazard Index or Risk	8.9E-04	8.4E-04	9.2E-03	1.8E-03	-	-	1.7E-09	3.9E-08	4.2E-08	1.9E-08	-	-
% of Total	7%	7%	72%	14%	-	-	2%	39%	41%	19%	-	-
<b>Totals:</b>	<b>Total Estimated Noncarcinogenic Hazard Index for All COCs: (Construction Workers)</b>						<b>Total Estimated Lifetime Cancer Risk for All COCs: (Construction Workers)</b>					
	<b>0.01</b>						<b>1.0E-07</b>					

**Table A-22**  
**Risk-Based Action Levels for Soil**  
**3695-3723 Haven Avenue Property, Menlo Park, California**

Chemical	Risk-Based Action Level for Soil (mg/kg) <sup>(a)</sup>	Representative Site Soil Concentration (mg/kg)
Acetone	1000	-
Benzene	0.50	-
Carbon Tetrachloride	0.50	0.021
Chloroform	0.50	0.016
1,2-Dichlorobenzene	50	0.066
1,1-Dichloroethane	5.0	0.065
1,2-Dichloroethane	0.50	-
1,1-Dichloroethene	5.0	-
cis-1,2-Dichloroethene	500	4.0
trans-1,2-Dichloroethene	50	0.063
Methylene Chloride	0.50	-
Tetrachloroethene	0.50	0.063
Toluene	5.0	-
1,1,1-Trichloroethane	5.0	-
Trichloroethene	3.2 (b)	1.8
1,1,2-Trichloro-1,2,2-Trifluoroethane	1000	0.57
Vinyl Chloride	0.075 (b)	0.14

**Notes:**

- (a) Risk based action levels rounded to two significant figures
- (b) These volatile organic compounds have been detected in Site soil at concentrations greater than the risk-based action level.

1999-135815  
08/05/1999 03:24P  
OR Page: 149 of 153



**Table A-23**  
**Risk-Based Action Levels for Groundwater**  
**3695-3723 Haven Avenue Property, Menlo Park, California**

<b>Chemical</b>	<b>Risk-Based Action Level for Groundwater (ug/L)<sup>(a)</sup></b>	<b>Representative Groundwater Concentration (ug/L)</b>
Acetone	500	37
Benzene	1,000	23
Carbon Tetrachloride	2,600	2,000
Chloroform	2,000	1,000
1,2-Dichlorobenzene	500	-
1,1-Dichloroethane	510	140
1,2-Dichloroethane	500	5.0
1,1-Dichloroethene	520	270
cis-1,2-Dichloroethene	50,000	25,000
trans-1,2-Dichloroethene	510	2.0
Methylene Chloride	500	32
Tetrachloroethene	510	46
Toluene	510	7.0
1,1,1-Trichloroethane	510	27
Trichloroethene	8,000 (b)	260,000
1,1,2-Trichloro-1,2,2-Trifluoroethane	29,000	2,200
Vinyl Chloride	500 (b)	650

**Note:**

- (a) Risk based action levels rounded to two significant figures
- (b) These volatile organic compounds have been detected in Site groundwater at concentrations greater than the risk-based action level

1999-135510  
 08/08/1999 03:24P  
 DR Page: 150 of 153



**Table A-24**  
**Summary of Estimated Human Health Risks from All Exposure Pathways**  
**at ACTION LEVELS**  
**for FUTURE INDOOR WORKERS**  
**3695-3723 Haven Avenue Property, Menlo Park, California**

Compound	Non-Carcinogenic Hazard Index				Estimated Lifetime Cancer Risk			
	Inhalation of Volatiles From Soil	Inhalation of Volatiles From Groundwater	Per Chemical Subtotal	% of Total	Inhalation of Volatiles From Soil	Inhalation of Volatiles From Groundwater	Per Chemical Subtotal	% of Total
Acetone	0.0264	2.8E-06	0.0264	4%	2.5E-07	3.4E-07	5.9E-07	6%
Benzene	0.0040	0.0056	0.0096	1%	4.2E-07	4.7E-06	5.1E-06	51%
Carbon Tetrachloride	7.0E-04	8.0E-03	8.7E-03	1%	2.4E-08	6.9E-08	9.3E-08	1%
Chloroform	4.1E-05	1.2E-04	1.6E-04	0%	-	-	-	-
1,2-Dichlorobenzene	0.0010	2.5E-05	0.0010	0%	2.0E-07	8.0E-09	2.1E-07	2%
1,1-Dichloroethane	6.9E-04	2.8E-05	0.0007	0%	9.2E-08	2.8E-08	1.2E-07	1%
1,1-Dichloroethene	0.05	0.003	0.05	7%	-	-	-	-
cis-1,2-Dichloroethene	0.49	0.03	0.52	73%	-	-	-	-
trans-1,2-Dichloroethene	0.06	0.0003	0.06	8%	-	-	-	-
Methylene Chloride	8.5E-05	2.2E-05	0.0001	0%	9.1E-09	2.4E-09	1.2E-08	0%
Tetrachloroethene	0.0005	0.0009	0.0013	0%	3.8E-08	7.1E-08	1.1E-07	1%
Toluene	0.000	4.8E-05	0.001	0%	-	-	-	-
1,1,1-Trichloroethane	0.000	3.5E-05	0.000	0%	-	-	-	-
Trichloroethene	0.0003	0.0005	0.0008	0%	1.7E-07	3.2E-07	4.9E-07	5%
1,1,2-Trichloro-1,2,2-Trifluoroethane	0.0047	0.0004	0.0050	1%	-	-	-	-
Vinyl Chloride	0.009	0.0156	0.025	3%	1.2E-06	2.1E-06	3.3E-06	33%
Subtotal Hazard Index of Risk	0.65	0.06			2.4E-06	7.6E-06		
% of Total	91%	9%			24%	76%		
Totals:	Estimated Non-Carcinogenic Total Hazard Index: (Future Indoor Workers) 0.71				Estimated Lifetime Total Cancer Risk: (Future Indoor Workers) 1.0E-05			

**Table A-25**  
**Summary of Estimated Human Health Risks from All Exposure Pathways**  
**at ACTION LEVELS**  
**for FUTURE MAINTENANCE WORKERS**  
**3695-3723 Haven Avenue Property, Menlo Park, California**

Compound	Non-Carcinogenic Hazard Index						Estimated Lifetime Cancer Risk					
	Soil Ingestion	Dermal Contact	Inhalation of Volatiles From Soil	Inhalation of Volatiles From Groundwater	Per Chemical Subtotal	% of Total	Soil Ingestion	Dermal Contact	Inhalation of Volatiles From Soil	Inhalation of Volatiles From Groundwater	Per Chemical Subtotal	% of Total
Acetone	5.7E-03	1.5E-02	0.0339	5.9E-07	0.0551	6%	1.0E-08	2.7E-08	3.2E-07	3.8E-08	3.9E-07	10%
Benzene	9.5E-05	2.6E-04	0.0052	6.3E-04	0.0062	1%	1.5E-08	4.1E-08	5.3E-07	2.5E-07	8.4E-07	22%
Carbon Tetrachloride	4.1E-04	1.1E-03	9.0E-04	4.2E-04	2.8E-03	0%	3.2E-09	8.6E-09	3.0E-08	1.0E-08	5.2E-08	1%
Chloroform	2.9E-05	7.8E-05	5.2E-05	1.7E-05	1.8E-04	0%	-	-	-	-	-	-
1,2-Dichlorobenzene	3.2E-04	8.6E-04	0.0013	4.0E-06	0.0024	0%	5.8E-09	1.6E-08	2.5E-07	9.9E-10	2.8E-07	7%
1,1-Dichloroethane	2.8E-05	7.7E-05	8.9E-04	3.5E-06	1.0E-03	0%	7.2E-09	1.9E-08	1.2E-07	5.0E-09	1.5E-07	4%
1,2-Dichloroethane	3.2E-04	8.5E-04	0.06	0.0002	0.07	7%	-	-	-	-	-	-
cis-1,2-Dichloroethene	0.0287	0.0773	0.63	0.0040	0.74	76%	-	-	-	-	-	-
trans-1,2-Dichloroethene	0.0014	0.0039	0.07	3.2E-05	0.08	8%	-	-	-	-	-	-
Methylene Chloride	4.8E-06	1.3E-05	0.0001	3.7E-06	0.0001	0%	1.4E-09	3.9E-09	1.2E-08	3.9E-10	1.7E-08	0%
Tetrachloroethene	2.9E-05	7.7E-05	0.0006	6.2E-05	0.0008	0%	5.2E-09	1.4E-08	4.9E-08	5.1E-09	7.4E-08	2%
Toluene	1.4E-05	3.9E-05	0.001	4.8E-06	0.001	0%	-	-	-	-	-	-
1,1,1-Trichloroethane	8.2E-05	0.0002	0.000	2.5E-06	0.001	0%	-	-	-	-	-	-
Trichloroethene	1.1E-05	2.9E-05	0.0004	5.3E-05	0.0004	0%	9.9E-09	2.7E-08	2.1E-07	3.2E-08	2.8E-07	7%
1,1,2-Trichloro-1,2,2-Trifluoroethane	1.9E-05	5.2E-05	0.0060	8.3E-06	0.0060	1%	-	-	-	-	-	-
Vinyl Chloride	3.1E-05	8.3E-05	0.012	8.7E-04	0.013	1%	4.1E-09	1.1E-08	1.6E-06	1.2E-07	1.7E-06	45%
Subtotal Hazard Index or Risk	0.0372	0.100	0.83	0.006	0.98		6.2E-08	1.7E-07	3.1E-06	4.6E-07	3.8E-06	
% of Total	4%	10%	85%	1%			2%	4%	82%	12%		
Totals:	Estimated Non-Carcinogenic Total Hazard Index: (Future Maintenance Workers)						Estimated Lifetime Total Cancer Risk: (Future Maintenance Workers)					
	0.98						3.8E-06					

**Table A-26**  
**Summary of Estimated Human Health Risks From All Exposure Pathways**  
**at ACTION LEVELS,**  
**for FUTURE CONSTRUCTION WORKERS**  
**3695-3723 Haven Avenue Property, Menlo Park, California**

Compound	Non-Carcinogenic Hazard Index					Estimated Lifetime Cancer Risk																																																										
	Soil Ingestion	Dermal Contact	Inhalation of Volatiles From Soil	Inhalation of Volatiles From Groundwater	Per Chemical Subtotal	% of Total	Soil Ingestion	Dermal Contact	Inhalation of Volatiles From Soil	Inhalation of Volatiles From Groundwater	Per Chemical Subtotal	% of Total																																																				
Acetone	1.6E-02	1.5E-02	1.2E-02	2.0E-07	0.0435	9%	1.2E-09	2.7E-08	4.4E-09	5.3E-10	3.4E-08	15%																																																				
Benzene	2.7E-04	2.6E-04	0.0018	2.2E-04	0.0025	1%	1.7E-09	4.1E-08	7.4E-09	3.5E-09	5.4E-08	24%																																																				
Carbon Tetrachloride	1.2E-03	1.1E-03	3.1E-04	1.5E-04	2.7E-03	1%	3.6E-10	8.6E-09	4.2E-10	1.4E-10	9.5E-09	4%																																																				
Chloroform	8.2E-05	7.8E-05	1.8E-05	6.0E-06	1.8E-04	0%	-	-	-	-	-	-																																																				
1,2-Dichlorobenzene	9.0E-04	8.6E-04	0.0004	1.4E-06	0.0022	0%	6.6E-10	1.6E-08	3.5E-09	1.4E-11	2.0E-08	9%																																																				
1,1-Dichloroethane	8.1E-05	7.7E-05	3.1E-04	1.2E-06	4.7E-04	0%	8.2E-10	1.9E-08	1.6E-09	7.0E-11	2.2E-08	10%																																																				
1,2-Dichloroethane	9.0E-04	8.5E-04	0.02	6.4E-05	0.02	5%	-	-	-	-	-	-																																																				
cis-1,2-Dichloroethene	0.0814	0.0773	0.220	0.0014	0.38	76%	-	-	-	-	-	-																																																				
trans-1,2-Dichloroethene	0.0041	0.0039	0.025	1.1E-05	0.0331	7%	1.6E-10	3.9E-09	1.6E-10	5.5E-12	4.2E-09	2%																																																				
Methylene Chloride	1.4E-05	1.3E-05	3.8E-05	1.3E-06	6.5E-05	0%	5.9E-10	1.4E-08	6.8E-10	7.1E-11	1.5E-08	7%																																																				
Tetrachloroethene	8.2E-05	7.7E-05	0.0002	2.2E-05	0.0004	0%	-	-	-	-	-	-																																																				
Toluene	4.1E-05	3.9E-05	-	1.7E-06	8.1E-05	0%	-	-	-	-	-	-																																																				
1,1,1-Trichloroethane	0.0002	0.0002	0.0002	8.8E-07	0.001	0%	-	-	-	-	-	-																																																				
Trichloroethene	3.1E-05	2.9E-05	1.2E-04	1.8E-05	2.0E-04	0%	1.1E-09	2.7E-08	3.0E-09	4.5E-10	3.1E-08	14%																																																				
1,1,2-Trichloro-1,2,2-Trifluoroethane	5.4E-05	5.2E-05	2.1E-03	2.9E-06	2.2E-03	0%	-	-	-	-	-	-																																																				
Trifluoroethane	8.7E-05	8.3E-05	0.004	3.0E-04	0.004	1%	4.7E-10	1.1E-08	2.2E-08	1.6E-09	3.5E-08	16%	Subtotal Hazard Index or Risk	0.1057	0.100	0.29	0.002			7.1E-09	1.7E-07	4.3E-08	6.4E-09			% of Total	21%	20%	58%	0%			3%	75%	19%	3%			<b>Totals:</b>	Total Estimated					Total Estimated Lifetime					Cancer Risk for All COCs: (Future Maintenance Workers)			Non-Carcinogenic Hazard Index: (Future Maintenance Workers)					Cancer Risk for All COCs: (Future Maintenance Workers)					2.2E-07	
Subtotal Hazard Index or Risk	0.1057	0.100	0.29	0.002			7.1E-09	1.7E-07	4.3E-08	6.4E-09																																																						
% of Total	21%	20%	58%	0%			3%	75%	19%	3%																																																						
<b>Totals:</b>	Total Estimated					Total Estimated Lifetime					Cancer Risk for All COCs: (Future Maintenance Workers)																																																					
	Non-Carcinogenic Hazard Index: (Future Maintenance Workers)					Cancer Risk for All COCs: (Future Maintenance Workers)					2.2E-07																																																					





---

## San Francisco Bay Regional Water Quality Control Board

July 30, 2021  
Cost Recovery ID 2020805  
GeoTracker ID: [SL18322742](#)

Integris/Millennium Joint Venture, LLC  
Attn.: Gary D. Williams  
2401 Waterman Blvd., Suite 4A-PMB#172  
Fairfield, CA 94534  
[gilliams@havenoffices.com](mailto:gilliams@havenoffices.com)

**Subject: Variance from Covenant and Environmental Restriction on 3705 Haven Avenue, Menlo Park, San Mateo County**

Dear Mr. Williams:

This letter grants a variance (Variance) from certain use restrictions contained in the [Covenant and Environmental Restriction on Property \(Covenant\)](#) recorded against the subject property, 3705 Haven Avenue in Menlo Park, California, in response to the August 12, 2020 request from Integris/Millennium Joint Venture, LLC (Integris). It is our understanding that Integris is the current owner of the subject property. More specifically, this Variance suspends the Covenant's restriction on residential development.

As set forth in more detail below, granting a variance from certain restrictions in the Covenant is appropriate as to the 3705 Haven Avenue parcel. This Variance reflects the following findings:

- A. The Covenant was recorded on two adjacent parcels on Haven Avenue (Burdened Property) on August 9, 1999, in the Official Records of San Mateo County, California, as Document No. 1999-135815. The Covenant restricted development on the two parcels to commercial and industrial uses because groundwater concentrations of chlorinated volatile organic compounds exceeded residential screening levels. After recordation of the Covenant, the Burdened Property was reparcelized into the following 3 parcels: (1) 3705 Haven Avenue, which is the subject of this Variance (APN 055-170-240), and is more particularly described in [Exhibit A](#) attached hereto ("**3705 Haven Property**"); (2) 3715 Haven Avenue, in the City of Menlo Park, County of San Mateo, State of California, with Assessor's Parcel Number 055-170-340, which is more particularly described in [Exhibit B](#) attached hereto ("**3715 Haven Property**"); and (3) 3723 Haven Avenue, in the City of Menlo Park, County of San Mateo, State of California, with Assessor's Parcel Number 055-170-350, which is

---

JIM McGRATH, CHAIR | MICHAEL MONTGOMERY, EXECUTIVE OFFICER

more particularly described in Exhibit C attached hereto and (“**3723 Haven Property**”).

- B. Between January 31, 2020 and August 12, 2020, the Groundwater and Indoor Air Investigation Report and Soil Vapor Investigation Report were submitted demonstrating there is limited residual contamination on 3705 Haven Property compared to the rest of the site. The highest concentration of trichloroethene (TCE) in groundwater at the 3705 Haven Property is 23 micrograms per liter (µg/L). This is more than two orders of magnitude less than groundwater concentrations remaining on 3715 and 3723 Haven Ave. Soil vapor concentrations of TCE at the 3705 Haven Property are less than residential vapor intrusion-based screening levels.
- C. Integris submitted a request to the Water Board for a variance of the Covenant to allow residential land use on 3705 Haven Property. The Water Board concurs that residential land use is acceptable on 3705 Haven Property due to site conditions, including low soil and soil gas contaminant concentrations and risk management measures for groundwater contamination. Risk to residential receptors (including children and seniors) from residual groundwater contamination at 3705 Haven Property can be effectively managed with the Risk Management Plan (including any subsequent approved addenda) that is required by the Covenant. Specifically, the Risk Management Plan will be updated with an addendum to restrict the construction of subsurface structures that could create a vapor intrusion concern.

The Water Board grants to 3705 Haven Avenue a Variance from the following restrictions in Article III, Section 3.1 of the Covenant, provided that no subsurface structures are constructed on the property and the Risk Management Plan is updated as described in Finding C:

- a. Development of the Burdened Property shall be restricted to industrial commercial or office space;
- b. No residence for human habitation shall be permitted on the Burdened Property;
- e. No day care centers for children or day care centers for Senior Citizens shall be permitted on the Burdened Property.

Exhibit A of the Covenant is replaced with Exhibit A, Exhibit B, and Exhibit C attached to this Variance to distinguish the 3705 Haven Property parcel from the 3715 Haven Property and 3723 Haven Property parcels.

If you have any questions, please contact Nicole Fry of my staff at [Nicole.Fry@waterboards.ca.gov](mailto:Nicole.Fry@waterboards.ca.gov)

Sincerely,

Michael Montgomery

Executive Officer

Copy by email:

Richard A. Mielbye, FPG Development Group ([rmielbye@fpg-corp.com](mailto:rmielbye@fpg-corp.com))

Tyson Fulmer, AWR Corporation ([tfulmer@awrcorp.net](mailto:tfulmer@awrcorp.net))

Jacob Madden, San Mateo County, GPP ([JMadden@smcgov.org](mailto:JMadden@smcgov.org))

EXHIBIT A:

LEGAL DESCRIPTION OF 3705 Haven Property

APN: 055-170-240

THE LAND REFERRED TO HEREIN IS SITUATED IN THE CITY OF MENLO PARK, IN THE COUNTY OF SAN MATEO, STATE OF CALIFORNIA, AND IS DESCRIBED AS FOLLOWS:

PARCEL ONE:

Parcel 1, as shown on that certain map entitled "Parcel Map Being a Subdivision of Record of Survey Recorded in Volume 5, Page 89 of Licensed Land Surveyors Maps, Being a Portion of Lot 4 Sweeney Ranch, San Mateo County, California", filed in the Office of the Recorder of the County of San Mateo, State of California on December 15, 1972, in Book 18 of Parcel Maps, at Page 38.

JPN:055-017-170-24a

EXHIBIT B:  
LEGAL DESCRIPTION OF 3715 HAVEN PROPERTY.

APN: 055-170-340

THE LAND REFERRED TO HEREIN BELOW IS SITUATED IN THE CITY OF MENLO PARK, COUNTY OF SAN MATEO, STATE OF CALIFORNIA AND IS DESCRIBED AS FOLLOWS:

Parcel A, as shown on that certain Map entitled, "PARCEL MAP 3715-3723 HAVEN AVENUE BEING A RESUBDIVISION OF PARCEL 2 AS SHOWN ON THAT CERTAIN MAP ENTITLED "PARCEL MAP BEING A RESUBDIVISION OF RECORD OF SURVEY RECORDED IN VOLUME 5, PAGE 89 OF LICENSED LAND SURVEYORS MAPS, BEING A PORTION OF LOT 4 SWEENEY RANCH" WHICH MAP WAS RECORDED DECEMBER 15, 1972 IN BOOK 18 OF PARCEL MAPS AT PAGE 38, SAN MATEO COUNTY RECORDS, CITY OF MENLO PARK, SAN MATEO COUNTY, CALIFORNIA", filed in the office of the County Recorder of the County of San Mateo on February 17, 2000 in Book 72 of Parcel Maps at page 46.

JPN: 055-017-170-25.01a

EXHIBIT C:  
LEGAL DESCRIPTION OF 3723 HAVEN PROPERTY.

APN: 055-170-350

THE LAND REFERRED TO HEREIN IS SITUATED IN THE CITY OF MENLO PARK, IN THE COUNTY OF SAN MATEO, STATE OF CALIFORNIA, AND IS DESCRIBED AS FOLLOWS:

Parcel B, as shown on that certain map entitled "Parcel Map 3715-3723 Haven Avenue, Being a Resubdivision of Parcel 2 as Shown on that Certain Map Entitled "Parcel Map being a Resubdivision of Record of Survey Recorded in Volume 5, Page 89 of Licensed Land Surveyors Maps, Being a Portion of Lot 4 Sweeney Ranch", recorded December 15, 1972, in Book 18 of Parcel Maps, at Page 38, San Mateo County Records, City of Menlo Park, San Mateo County, California", filed in the Office of the Recorder of the County of San Mateo, State of California on February 17, 2000, in Book 72 of Parcel Maps, at Page 46.

JPN: 055-017-170-025A



**GROUNDWATER & INDOOR AIR INVESTIGATION REPORT (REVISION I)  
3705 HAVEN AVENUE  
MENLO PARK, CALIFORNIA 94025**

JANUARY 31, 2020

PREPARED ON BEHALF OF:

INTEGRIS MILLENIUM JOINT VENTURE, LLC  
3402 MILLBROOK COURT  
FAIRFIELD, CALIFORNIA 94534

PREPARED BY:

ACC ENVIRONMENTAL CONSULTANTS, INC



IAN SUTHERLAND, PG  
PROJECT MANAGER

ACC PROJECT NUMBER 1744-001.00

## TABLE OF CONTENTS

<b>1.0 INTRODUCTION</b>	<b>1</b>
<b>2.0 BACKGROUND</b>	<b>1</b>
<b>3.0 ENVIRONMENTAL BACKGROUND</b>	<b>1</b>
<b>4.0 SAMPLING METHODOLOGY</b>	<b>3</b>
4.1 Groundwater Sampling	
4.2 Indoor Air Sampling	
<b>5.0 GROUNDWATER ANALYTICAL RESULTS</b>	<b>4</b>
<b>6.0 INDOOR AIR ANALYTICAL RESULTS</b>	<b>4</b>
<b>7.0 QUALITY ASSURANCE/QUALITY CONTROL (QA/QC)</b>	<b>5</b>
<b>8.0 CONCLUSIONS</b>	<b>6</b>
8.1 Groundwater	
8.2 Indoor Air	
<b>9.0 RECOMMENDATIONS</b>	<b>7</b>
<b>10.0 LIMITATIONS</b>	<b>8</b>

## **ATTACHMENTS**

### **FIGURES**

Figure 1 – Site Location Map with Source Removal Area

Figure 2 – Site Map with Sampling Locations

Figure 3 – Site Map with Historical Sampling Locations

### **TABLES**

Table 1 – Groundwater Analytical Results Summary

Table 2 – Indoor Air Analytical Results Summary

### **APPENDICES**

Appendix A – Complete Laboratory Reports



## 1.0 INTRODUCTION

ACC Environmental Consultants, Inc. (ACC) has prepared this Groundwater and Indoor Air Investigation Report for the property identified as 3705 Haven Avenue in Menlo Park, California (Site) at the request of Integris Millenium Joint Venture, LLC (Client).

The purpose of the investigation was to assess current groundwater conditions at the Site with regard to chemicals-of-concern (COCs) historically detected in groundwater, primarily tetrachloroethene (TCE) and cis-1,2-dichloroethene (cis-1,2-DCE). Subsequent to groundwater sampling, ACC conducted an indoor air assessment based on TCE concentrations detected in groundwater.

## 2.0 BACKGROUND

The Site is located along the northwest side of Haven Avenue in the City of Menlo Park, California (Figure 1). The Site is comprised of an approximately 0.60 acre parcel of land developed with a one-story multi-tenant commercial building constructed circa 1969. The building was historically occupied by Siltec Corporation from 1970 to 1989. Siltec Corporation became Mitsubishi Silicon American (MSA) in July 1996, and in February 2002 Mitsubishi Materials including MSA merged with Sumitomo Metals to form Sumitomo Mitsubishi Silicon Corporation (SUMCO USA), which was renamed SUMCO Phoenix Corporation (SUMCO). The SUMCO property was used for various industrial activities including the manufacturing of polished silicon wafers. Chlorinated VOCs were reportedly used during that time.

The Site was purchased by Integris Millenium Joint Venture LLC during 1999 for use as office space. The Site is currently occupied by various professional offices.

The Site is located approximately 800 feet southwest of San Francisco Bay. The documented groundwater flow direction is approximately east to east/northeast.

Groundwater was observed by ACC to be confined at the Site to between approximately 8 and 19 ft bgs, and rose as shallow as approximately 3.6 ft bgs subsequent to advancing soil borings through the confining layer.

Soils encountered by ACC consisted of moist brown silt with gravel extending to approximately 4 ft bgs and underlain by dark brown clay extending to the total depth explored of approximately 15 ft bgs.

## 3.0 ENVIRONMENTAL BACKGROUND

ACC reviewed the following documents:

- *Feasibility Study and Remedial Action Plan, 3695-3723 Haven Avenue, Menlo Park, California*, Erler & Kalinowski, Inc. (EKI), March 12, 1999;
- *Risk Management Plan, 3695-3723 Haven Avenue, Menlo Park, California*, Erler & Kalinowski Inc. (EKI), March 12, 1999;
- *Summary of Environmental Conditions, and Request for Declaration of No Further Active Remediation Status, 3695-3723 Haven Avenue, Menlo Park, California*, Erler & Kalinowski, Inc. (EKI), December 31, 2013; and
- *RWQCB Correspondence: No Further Action Required at the former Siltic Site located at 3675-3723 Haven Avenue, Menlo Park, San Mateo County*, Regional Water Quality Control Board, June 16, 2014.

The Site is part of the former SUMCO property, which included the Site, the north-adjacent property (3715 Haven Avenue), and the property adjacent to the north of 3715 Avenue (3723 Haven Avenue). The SUMCO property was developed with three slab-on-grade commercial buildings, one of which was referred to as “Building 1” and is the structure that currently exists at the Site. Semiconductor manufacturing at the SUMCO property resulted in adverse impacts to soil and groundwater by volatile organic compounds (VOCs), primarily TCE and cis-1,2-DCE. Extensive investigations were conducted from 1994 to 2012 and a former sump at the north-adjacent down-gradient parcel (3715 Haven Avenue) was determined to be the source of documented subsurface VOC impacts associated with the SUMCO property.

1994: One monitoring well was installed at the Site as an up-gradient groundwater monitoring well (MW-1) and numerous groundwater monitoring wells were installed off-site and north (down-gradient) of the Site. MW-1 extended to approximately 15.5 ft bg, was screened between 5.5 and 15.5 ft bgs, and was monitored from 1994 to 1998. During the last documented monitoring event (April 1998), TCE and cis-1,2-DCE were detected up to respective concentrations of 98 and 130 µg/L in MW-1.

1995: Two grab groundwater samples were collected at the Site (soil borings GP-1 and GP-3) as part of a larger investigation at the former SUMCO property. TCE and cis-1,2-DCE were detected in first-encountered groundwater at respective concentrations of up to 1200 and 280 µg/L. The highest TCE concentration detected on-site (1200 µg/L) was detected at the northwest property boundary.

1996: Four grab groundwater samples were collected along the eastern portion of the Site (soil borings EC-1 through EC-4) as part of a larger investigation at the former SUMCO property. TCE and cis-1,2-DCE were detected in first-encountered groundwater in soil boring EC-4 at respective concentrations of 2100 and 3300 µg/L. Soil boring EC-4 was advanced at the northeast boundary of the Site. TCE and cis-1,2-DCE concentrations in first-encountered groundwater decreased moving away from the north boundary of the Site and were detected in first-encountered groundwater in soil boring EC-3 at respective concentrations of 39 and 33 µg/L (approximately 85 feet south of EC-4). TCE and cis-1,2-DCE were detected in first-encountered groundwater at the southeastern boundary of the Site at respective concentrations of 3 and 1 µg/L

(EC-1). TCE and cis-1,2-DCE were not detected in the deeper “B Zone” groundwater horizon investigated by EKI.

1999: Approximately 2860 cubic yards of VOC-impacted soils were excavated from the source identified at the north-adjacent, down-gradient parcel (3715 Haven Avenue) and the parcel adjacent to the west of 3715 Haven Avenue (3645-3665 Haven Avenue) (Figure 1). The former building at 3715 Haven Avenue (“Building 2”, identified as the source area) was demolished and a new two-story building was constructed south of the former Building 2 footprint, outside of the high groundwater risk area. A paved parking lot currently occupies the soil remediation area.

A Risk Management Plan (RMP) was prepared for the SUMCO property in 1999 and incorporated into the Deed Restriction for the Site. The RMP details (a) risk management protocols to be implemented during future construction on Site; and (b) post-construction risk management protocols. The deed restriction prohibits residential development at the Site and documents soil management procedures in the event that soil is disturbed.

2000 to present: The on-site monitoring well (MW-1) was removed and no additional sampling was conducted at the Site subsequent to that time. Additional groundwater monitoring was continued off-site at the down-gradient parcels for thirteen years subsequent to source excavation. EKI concluded that VOCs in groundwater have migrated to the east/northeast of the down-gradient off-site source area, and that the concentrations of COCs in groundwater have stabilized or declined over this time period through natural attenuation process.

A No Further Action letter was issued for the Property by the Regional Water Quality Control Board (RWQCB) on June 16, 2014. According to the Closure Report, “remedial actions implemented to date have effectively removed the source and resulted in stabilized and improving groundwater condition. Further remedial actions will have marginal effect and it is anticipated that groundwater quality will further improve over time due to natural attenuation processes.”

For historical sampling locations and analytical data see Figure 3.

## **4.0 SAMPLING METHODOLOGY**

### **4.1 Groundwater Sampling**

On July 25, 2019, ACC advanced seven exploratory soil borings for purposes of groundwater sampling. Borings were advanced using a hydraulic direct-push rig equipped with two-inch diameter hollow drill rods. The approximate soil boring locations are shown on the attached Figure 2.

Temporary one-inch slotted PVC piping was installed in the soil boring to facilitate groundwater sampling. Groundwater samples were collected into laboratory-supplied volatile organic analysis (VOA) containers using a peristaltic pump, labeled, logged on a chain-of-custody form and stored

immediately on ice in a cooler pending transport to the laboratory following standard chain-of-custody protocol.

Prior to drilling, ACC obtained a drilling permit from San Mateo County Environmental Health Services Groundwater Protection Program (SMCEHS-GPP). ACC marked the proposed soil boring locations and subsequently contacted Underground Services Alert (USA) to mark the locations of underground public utilities. Soil boring locations advanced by ACC were additionally cleared by a private utility locator prior to drilling.

## 4.2 Indoor Air Sampling

On September 10, 2019, ACC collected three indoor air samples and one outdoor ambient air sample. Samples were collected in laboratory-supplied evacuated SIM-certified 6-liter SUMMA canisters with dedicated regulators at each sample location. Intakes were situated between approximately 3 and 5 feet above the ground surface. Sample flow rates allowed for samples to be collected over an approximately 8-hour period. The approximate air sampling locations are shown on the attached Figure 2.

## 5.0 GROUNDWATER ANALYTICAL RESULTS

Groundwater samples were delivered to McCampbell Analytical, Inc. in Pittsburg, California following chain-of-custody protocol. The complete laboratory reports and chains-of-custody are attached as Appendix A. Groundwater samples were analyzed for volatile organic compounds (VOCs, full list) by analytical method 8260. Groundwater analytical results for this sampling event were compared to Human Health Risk Levels (HHRLs) published by the San Francisco Regional Water Quality Control Board (RWQCB) for vapor intrusion risk at residential and commercial properties. Groundwater analytical results and corresponding HHRLs are summarized in the attached Table 1.

TCE was detected in groundwater at concentrations of up to 23 micrograms per liter ( $\mu\text{g/L}$ ), which exceeds the corresponding RWQCB groundwater HHRLs for vapor intrusion at commercial and residential properties.

Cis-1,2- DCE was detected up to 15  $\mu\text{g/L}$ , which does not exceed the RWQCB HHRL for vapor intrusion risk at commercial or residential properties.

Freon 113 and MTBE were detected up to respective concentrations of 4.4 and 0.92  $\mu\text{g/L}$ , which do not exceed corresponding RWQCB HHRLs for vapor intrusion at commercial or residential properties. Additional VOCs, including tetrachloroethene (PCE), were not detected.

## 6.0 INDOOR AIR ANALYTICAL RESULTS

Indoor air samples were delivered to Eurofins Air Toxics, Inc. in Folsom, California following

chain-of-custody protocol. The complete laboratory reports and chain-of-custody are attached as Appendix A. Indoor air samples were analyzed for the chlorinated solvents PCE, TCE, cis-1,2-DC), trans-1,2-dichloroethene (trans-1,2-DCE), and vinyl chloride by analytical method TO-15 SIM. Analytical results for this sampling event were compared to RWQCB HHRLs for direct exposure to indoor air at residential and commercial properties (ESL Table IA-1). Indoor Air analytical results and corresponding HHRLs are summarized in the attached Table 2.

PCE was detected in indoor air up to concentrations of 0.96 micrograms per cubic meter ( $\mu\text{g}/\text{m}^3$ ) and at a concentration of 0.046  $\mu\text{g}/\text{m}^3$  in outdoor ambient air. Detected PCE concentrations exceed the RWQCB HHRL for direct exposure to indoor air at residential properties, but do not exceed the RWQCB HHRL for direct exposure to indoor air at commercial properties.

TCE was detected in indoor air up to a concentration of 0.079  $\mu\text{g}/\text{m}^3$ . Concentrations of TCE do not exceed corresponding RWQCB HHRLs for direct exposure to indoor air at commercial or residential properties.

Trans-1,2- DCE was detected in indoor air up to a concentration 0.096  $\mu\text{g}/\text{m}^3$ , which does not exceed the corresponding RWQCB HHRLs for direct exposure to indoor air at commercial or residential properties.

Cis-1,2-DCE and vinyl chloride were not detected in indoor air during this sampling event. Reporting limits for vinyl chloride exceed the RWQCB HHRLs for direct exposure to indoor air at residential properties, however the method detection limits (MDLs) for vinyl chloride are approximately equal to the HHRL. ACC regularly corresponded with the laboratory prior and during indoor air sampling in order to collect indoor air samples in a manner that would minimize sample dilution in order to minimize the potential for elevated laboratory reporting limits (RLs) and elevated method detection levels (MDLs).

## 7.0 QUALITY ASSURANCE/QUALITY CONTROL (QA/QC)

QA/QC procedures followed in the field were as follows:

- Air space was not present in the VOAs;
- ACC regularly corresponded with the laboratory prior and during indoor air sampling in order to collect indoor air samples in a manner that would minimize sample dilution in order to minimize the potential for elevated laboratory reporting limits (RLs) and elevated method detection levels (MDLs);
- Low flow groundwater sampling was conducted via a peristaltic pump in order to minimize sediment content in groundwater samples;
- Sampling equipment was decontaminated prior to advancement at each soil boring location using an Alconox solution and double rinsed with potable water;

- Nitrile gloves were worn and changed frequently (at a minimum of once between each sampling location) when handling samples in order to prevent cross-contamination of samples; and
- Samples were labeled in the field and chain-of-custody procedures were followed during the sample collection and analysis.

Laboratory QA/QC data area included in the attached Appendix A.

## 8.0 CONCLUSIONS

### 8.1 Groundwater

The primary chemicals-of-concern (COCs) in groundwater at the Site are TCE and cis-1,2-DCE. During this investigation TCE was detected in first-encountered groundwater at the Site at concentrations of up to 23 micrograms per liter ( $\mu\text{g/L}$ ), which exceeds the corresponding Regional Water Control Board (RWQCB) Human Health Risk Level (HHRL) for vapor intrusion at commercial and residential properties of 7.5 and 1.2  $\mu\text{g/L}$ , respectively. Cis-1,2-DCE was detected at concentrations of up to 15  $\mu\text{g/L}$ , which does not exceed the corresponding RWQCB HHRL for vapor intrusion at commercial and residential properties of 49 and 210  $\mu\text{g/L}$ , respectively.

The highest concentrations of TCE and cis-1,2,-DCE detected in groundwater during this investigation were detected at boring B7, which was advanced at the northeast portion of the Site. TCE and cis-1,2,-DCE concentrations detected in additional samples during this investigation were at least one order of magnitude less than at soil boring B7.

COC concentrations in groundwater at the Site have decreased significantly since the off-site source was remediated in 1999. Former on-site groundwater monitoring well MW-1 was last sampled in April 1998. At that time, TCE and cis-1,2,-DCE were detected at respective concentrations of 130 and 98  $\mu\text{g/L}$ . ACC collected one groundwater sample at the approximate location of former groundwater monitoring well MW-1 (ACC soil boring B1) and the analytical results indicated non-detectable concentrations of TCE and cis-1,2-DCE in groundwater at that location.

	MW-1 (1998)	B1 (2019)
TCE ( $\mu\text{g/L}$ )	130	ND<0.5
Cis-1,2-DCE ( $\mu\text{g/L}$ )	98	ND<0.5

One historical groundwater sample (GP-1) collected in 1995 along the southern portion of the Site indicated TCE and cis-1,2-DCE in groundwater at respective concentrations of 170 and 280  $\mu\text{g/L}$ . ACC collected one groundwater sample at the approximate location of GP-1 (ACC soil

boring B2) and analytical results indicate TCE and cis-1,2,-DCE in groundwater at respective concentrations of 1.3 and 0.66 µg/L at that location.

	GP-1 (1995)	B2 (2019)
TCE (µg/L)	170	1.3
Cis-1,2-DCE (µg/L)	280	0.66

In addition, TCE and cis-1,2-DCE were detected up to respective concentrations of 2100 and 3300 µg/L at the northern boundary of the Site in 1996 (EC-4). Detections of TCE and cis-1,2-DCE along the northern portion of the Site (in the general vicinity of EC-4) during this ACC groundwater investigation were up to 23 and 15 µg/L (B7).

	EC-4 (1996)	B7 (2019)
TCE (µg/L)	2100	23
Cis-1,2-DCE (µg/L)	3300	15

For historical sampling locations and analytical data see Figure 3.

## 8.2 Indoor Air

The highest concentration of TCE detected in groundwater during this sampling event exceeded the RWQCB Short-Term Action Level for TCE in groundwater at a commercial property of 20 µg/L. In response to the reported TCE concentrations in groundwater, ACC collected indoor air samples.

Analytical results from this sampling event indicate that indoor air at the Site is not impacted by TCE or cis-1,2-DCE at concentrations exceeding the corresponding RWQCB HHRLs for direct exposure to indoor air at commercial and residential properties.

PCE was detected in indoor air samples up to a concentration of 0.96 µg/m<sup>3</sup>, which exceeds the RWQCB HHRL for direct exposure to indoor air at residential properties, but not for commercial properties. PCE was non-detect in groundwater. Although PCE concentrations detected in outdoor ambient are one order of magnitude less than PCE concentrations detected in indoor air, ACC's opinion is that the PCE impacts to indoor air are likely the result of outdoor ambient air accumulating in the building, and may additionally be attributed to other potential sources not associated with soil, groundwater, and soil vapor at the Site.

## 9.0 RECOMMENDATIONS

Concentrations of dissolved chlorinated solvents in groundwater (particularly TCE and cis-1,2,-DCE) have decreased significantly since the off-site source was remediated in 1999. Current data does not indicate an on-site source and ACC agrees with the RWQCB closure letter for the

SUMCO property that that “further remedial actions will have marginal effect and it is anticipated that groundwater quality will further improve over time due to natural attenuation processes” (Section 3.0). No additional on-site groundwater characterization is recommended by ACC at this time.

ACC’s opinion is that impacts to indoor air as a result of residual subsurface contamination at the Site are minimal. ACC’s understanding is that the owner is proposing to sell the property, and that there is a high demand with regard to redeveloping the Site as residential units constructed on ground floor commercial units.

The deed restriction for the Site currently limits Site use to commercial. ACC requests that the RWQCB review the deed restriction with regard to the current groundwater data and ACC findings documented in this report. Based on current industry standards with regard to vapor intrusion and redevelopment, ACC’s opinion is that redevelopment of the Site as residential units constructed above commercial ground floor units in a manner that minimizes vapor intrusion concerns is highly feasible.

## **10.0 LIMITATIONS**

The service performed by ACC has been conducted in a manner consistent with the levels of care and skill ordinarily exercised by members of our profession currently practicing under similar conditions in the area. No other warranty, expressed or implied, is made.

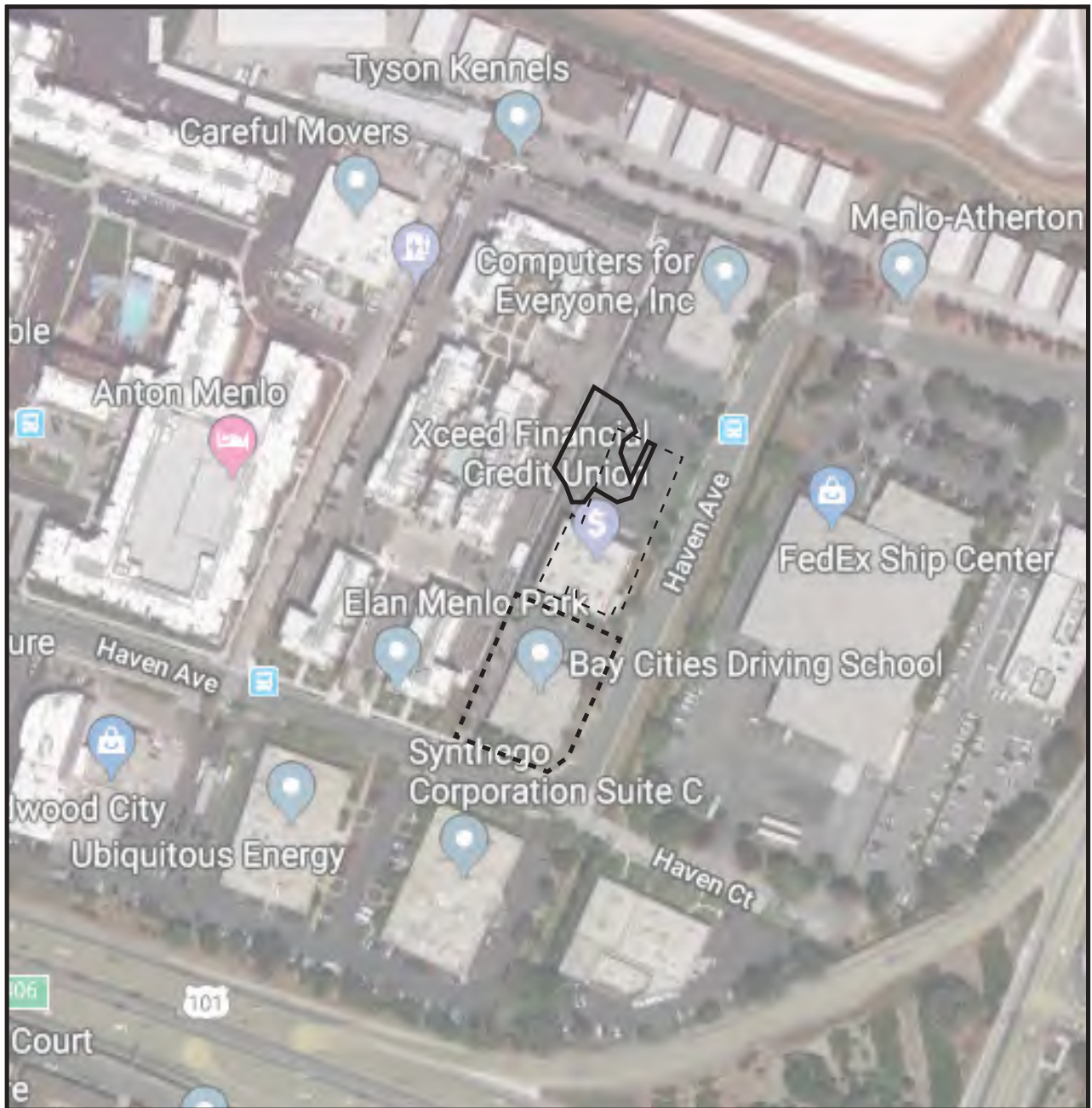
The conclusions presented in this report are professional opinions based on the indicated data described in this report and applicable regulations and guidelines currently in place. They are intended only for the purpose, site, and project indicated. Opinions and recommendations presented herein apply to site conditions existing at the time of our study. Site conditions could change over time due to unforeseen circumstances.

ACC has included analytical results from a state-certified laboratory, which performs analyses according to procedures suggested by the U.S. Environmental Protection Agency and/or the State of California. ACC shall not be responsible for laboratory errors.

We appreciate the opportunity to assist you with this project. If you have any questions regarding this report please contact (510) 638-8400 x110 or [isutherland@accenv.com](mailto:isutherland@accenv.com).



## **FIGURES 1 - 3**



BASEMAP SOURCE: GOOGLE EARTH (12.30.19)

ALL DIMENSIONS & LOCATIONS APPROXIMATE



= Source Removal Area

= Former Building 2



FIGURE 1

SITE LOCATION WITH SOURCE REMOVAL AREA

= Site

ACC NO: 1744-001.00

DATE: 1.13.20

DRAWN BY: KB

3705 HAVEN AVENUE  
MENLO PARK, CALIFORNIA



BASEMAP SOURCE: GOOGLE EARTH (07.01.19)

ALL DIMENSIONS & LOCATIONS APPROXIMATE



⊕ = ACC GROUNDWATER SAMPLING LOCATION with TCE/DCE Concentrations (µg/L) (July 2019)

● = ACC INDOOR AIR SAMPLING LOCATION with TCE/DCE Concentrations (µg/m³) (September 2019)



## FIGURE 2

### SITE MAP WITH GROUNDWATER & INDOOR AIR SAMPLE LOCATIONS (2019)

Subject Property

ACC NO: 1744-001.00

DATE: 1.13.20

DRAWN BY: KB

3705 HAVEN AVENUE  
MENLO PARK, CALIFORNIA





BASEMAP SOURCE: GOOGLE EARTH (07.01.19)

ALL DIMENSIONS & LOCATIONS APPROXIMATE



- ⊕ = ACC GROUNDWATER SAMPLE LOCATION (2019)
- = EKI SAMPLE LOCATION WITH TCE/DCE CONCENTRATIONS (µg/L) (1999)
- = EKI SAMPLE LOCATION WITH TCE/DCE CONCENTRATIONS (µg/L) (1995)
- ⊙ = EKI MONITORING WELL LOCATION WITH TCE/DCE CONCENTRATIONS (µg/L) (1998/DESTROYED 2000)
- 0.0/0.0 = TCE/DCE CONCENTRATIONS (µg/L) (2019)



## FIGURE 3

## SITE MAP WITH HISTORICAL SAMPLING LOCATIONS

Subject Property

ACC NO: 1744-001.00

DATE: 1.13.20

DRAWN BY: KB

3705 HAVEN AVENUE  
MENLO PARK, CALIFORNIA

## **TABLES 1-2**

**TABLE 1**  
**Groundwater Analytical Results Summary (VOCs)**  
**3705 Haven Avenue, Menlo Park, California**  
**ACC Project Number: 1744-001.0**

Sample ID	Chemical Compound & Concentrations (µg/L)								
	Sample Date	Trichloroethene (TCE)	Tetrachloroethene (PCE)	cis-1,2-Dichloroethene (DCE)	Vinyl Chloride	trans-1,2-Dichloroethene	Freon 113	Methyl-t-butyl ether (MTBE)	Other VOCs
B1-W	7.25.19	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND
B2-W		1.3	ND<0.5	0.66	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND
B3-W		5.7	ND<0.5	0.69	ND<0.5	ND<0.5	2.0	ND<0.5	ND
B4-W		8.0	ND<0.5	2.1	ND<0.5	ND<0.5	0.71	ND<0.5	ND
B5-W		1.1	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND
B6-W		4.3	ND<0.5	2.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND
B7-W		23	ND<0.5	15	ND<0.5	1.7	4.4	0.92	ND
RWQCB Tier 1 ESL (Groundwater)		1.2	0.64	6.0	0.0086	10	--	5.0	--
HHRSLs - Groundwater Vapor Intrusion (Table GW- 3; Residential)		1.2	0.64	49	0.0086	220	--	450	--
HHRSLs - Groundwater Vapor Intrusion (Table GW- 3; Commercial)		7.5	2.8	210	0.14	920	--	2000	--
<i>VOCs = Volatile Organic Compounds; µg/L = micrograms per liter; ESLs = Environmental Screening Levels and HHRSLs = Human Health Risk Screening Levels published by the San Francisco Bay Regional Water Quality Control Board (January 2019).</i>									

**TABLE 2**  
**Indoor Air Analytical Results Summary (Chlorinated Solvents)**  
**3705 Haven Avenue, Menlo Park, CA**  
**ACC Project Number: 1744-001.01**

Sample ID	Sample Date	Chemical Compounds and Concentrations ( $\mu\text{g}/\text{m}^3$ )				
		Tetrachloroethene (PCE)	Trichloroethene (TCE)	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Vinyl Chloride
IA1	9.10.19	0.96	0.033 J	ND<0.13	0.096 J	ND>0.010
IA2		0.85	0.070 J	ND<0.13	ND<0.67	ND>0.011
IA3		0.87	0.079 J	ND<0.13	ND<0.65	ND>0.011
IA4		0.046 J	ND<0.18	ND<0.13	ND<0.67	ND>0.011
HHRSLs - Indoor Air Direct Exposure (Table IA-1; Residential)		0.46	0.48	8.3	8.3	0.0095
HHRSLs - Indoor Air Direct Exposure (Table IA-1; Commercial)		2.0	3.0	35	350	0.16
$\mu\text{g}/\text{m}^3$ = micrograms per cubic meter; ND< = non-detect less than reporting limit; Method Detection Limits (MDLs) listed instead of Reporting Limit for Vinyl Chloride; HHRLs = Human Health Risk Levels published by the San Francisco Bay Regional Water Quality Control Board (January 2019); See lab report for explanation of data qualifiers (J, m, etc.); Total xylenes = sum of m-/p-xylenes and o-xylene.						

**APPENDIX A**

**COMPLETE LABORATORY REPORTS**





# McC Campbell Analytical, Inc.

"When Quality Counts"

## Analytical Report

**WorkOrder:** 1907D02

**Report Created for:** ACC Environmental Consultants, Inc.

7977 Capwell Drive , Suite 100  
Oakland, CA 94621

**Project Contact:** Kim Bunting

**Project P.O.:**

**Project:** 1744-001.00

**Project Received:** 07/26/2019

Analytical Report reviewed & approved for release on 08/02/2019 by:

Christine Askari  
Project Manager

*The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.*





## Glossary of Terms & Qualifier Definitions

**Client:** ACC Environmental Consultants, Inc.  
**Project:** 1744-001.00  
**WorkOrder:** 1907D02

### Glossary Abbreviation

%D	Serial Dilution Percent Difference
95% Interval	95% Confident Interval
DF	Dilution Factor
DI WET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (direct analysis of 0.45 µm filtered and acidified water sample)
DLT	Dilution Test (Serial Dilution)
DUP	Duplicate
EDL	Estimated Detection Limit
ERS	External reference sample. Second source calibration verification.
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
N/A	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PDS	Post Digestion Spike
PDSD	Post Digestion Spike Duplicate
PF	Prep Factor
RD	Relative Difference
RL	Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
SPLP	Synthetic Precipitation Leachate Procedure
ST	Sorbent Tube
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
TZA	TimeZone Net Adjustment for sample collected outside of MAI's UTC.
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)



## **Glossary of Terms & Qualifier Definitions**

**Client:** ACC Environmental Consultants, Inc.

**Project:** 1744-001.00

**WorkOrder:** 1907D02

### **Analytical Qualifiers**

J Result is less than the RL/ML but greater than the MDL. The reported concentration is an estimated value.

### **Quality Control Qualifiers**

F2 LCS/LCSD recovery and/or RPD/RSD is out of acceptance criteria.



## Analytical Report

**Client:** ACC Environmental Consultants, Inc.  
**Date Received:** 7/26/19 15:25  
**Date Prepared:** 8/1/19-8/2/19  
**Project:** 1744-001.00

**WorkOrder:** 1907D02  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L

### Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B1-W	1907D02-001A	Water	07/25/2019 10:25	GC16 08011913.D	182773

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	10	1	08/01/2019 16:11
tert-Amyl methyl ether (TAME)	ND	0.50	1	08/01/2019 16:11
Benzene	ND	0.50	1	08/01/2019 16:11
Bromobenzene	ND	0.50	1	08/01/2019 16:11
Bromochloromethane	ND	0.50	1	08/01/2019 16:11
Bromodichloromethane	ND	0.50	1	08/01/2019 16:11
Bromoform	ND	0.50	1	08/01/2019 16:11
Bromomethane	ND	0.50	1	08/01/2019 16:11
2-Butanone (MEK)	ND	5.0	1	08/01/2019 16:11
t-Butyl alcohol (TBA)	ND	5.0	1	08/01/2019 16:11
n-Butyl benzene	ND	0.50	1	08/01/2019 16:11
sec-Butyl benzene	ND	0.50	1	08/01/2019 16:11
tert-Butyl benzene	ND	0.50	1	08/01/2019 16:11
Carbon Disulfide	ND	0.50	1	08/01/2019 16:11
Carbon Tetrachloride	ND	0.50	1	08/01/2019 16:11
Chlorobenzene	ND	0.50	1	08/01/2019 16:11
Chloroethane	ND	0.50	1	08/01/2019 16:11
Chloroform	ND	0.50	1	08/01/2019 16:11
Chloromethane	ND	0.50	1	08/01/2019 16:11
2-Chlorotoluene	ND	0.50	1	08/01/2019 16:11
4-Chlorotoluene	ND	0.50	1	08/01/2019 16:11
Dibromochloromethane	ND	0.50	1	08/01/2019 16:11
1,2-Dibromo-3-chloropropane	ND	0.20	1	08/01/2019 16:11
1,2-Dibromoethane (EDB)	ND	0.50	1	08/01/2019 16:11
Dibromomethane	ND	0.50	1	08/01/2019 16:11
1,2-Dichlorobenzene	ND	0.50	1	08/01/2019 16:11
1,3-Dichlorobenzene	ND	0.50	1	08/01/2019 16:11
1,4-Dichlorobenzene	ND	0.50	1	08/01/2019 16:11
Dichlorodifluoromethane	ND	0.50	1	08/01/2019 16:11
1,1-Dichloroethane	ND	0.50	1	08/01/2019 16:11
1,2-Dichloroethane (1,2-DCA)	ND	0.50	1	08/01/2019 16:11
1,1-Dichloroethene	ND	0.50	1	08/01/2019 16:11
cis-1,2-Dichloroethene	ND	0.50	1	08/01/2019 16:11
trans-1,2-Dichloroethene	ND	0.50	1	08/01/2019 16:11
1,2-Dichloropropane	ND	0.50	1	08/01/2019 16:11
1,3-Dichloropropane	ND	0.50	1	08/01/2019 16:11
2,2-Dichloropropane	ND	0.50	1	08/01/2019 16:11

(Cont.)



## Analytical Report

**Client:** ACC Environmental Consultants, Inc.  
**Date Received:** 7/26/19 15:25  
**Date Prepared:** 8/1/19-8/2/19  
**Project:** 1744-001.00

**WorkOrder:** 1907D02  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L

### Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B1-W	1907D02-001A	Water	07/25/2019 10:25	GC16 08011913.D	182773

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	0.50	1	08/01/2019 16:11
cis-1,3-Dichloropropene	ND	0.50	1	08/01/2019 16:11
trans-1,3-Dichloropropene	ND	0.50	1	08/01/2019 16:11
Diisopropyl ether (DIPE)	ND	0.50	1	08/01/2019 16:11
Ethylbenzene	ND	0.50	1	08/01/2019 16:11
Ethyl tert-butyl ether (ETBE)	ND	0.50	1	08/01/2019 16:11
Freon 113	ND	0.50	1	08/01/2019 16:11
Hexachlorobutadiene	ND	0.50	1	08/01/2019 16:11
Hexachloroethane	ND	0.50	1	08/01/2019 16:11
2-Hexanone	ND	1.0	1	08/01/2019 16:11
Isopropylbenzene	ND	0.50	1	08/01/2019 16:11
4-Isopropyl toluene	ND	0.50	1	08/01/2019 16:11
Methyl-t-butyl ether (MTBE)	ND	0.50	1	08/01/2019 16:11
Methylene chloride	ND	2.0	1	08/01/2019 16:11
4-Methyl-2-pentanone (MIBK)	ND	0.50	1	08/01/2019 16:11
Naphthalene	ND	1.0	1	08/01/2019 16:11
n-Propyl benzene	ND	0.50	1	08/01/2019 16:11
Styrene	ND	2.0	1	08/01/2019 16:11
1,1,1,2-Tetrachloroethane	ND	0.50	1	08/01/2019 16:11
1,1,2,2-Tetrachloroethane	ND	0.50	1	08/01/2019 16:11
Tetrachloroethene	ND	0.50	1	08/01/2019 16:11
Toluene	ND	0.50	1	08/01/2019 16:11
1,2,3-Trichlorobenzene	ND	0.50	1	08/01/2019 16:11
1,2,4-Trichlorobenzene	ND	0.50	1	08/01/2019 16:11
1,1,1-Trichloroethane	ND	0.50	1	08/01/2019 16:11
1,1,2-Trichloroethane	ND	0.50	1	08/01/2019 16:11
Trichloroethene	ND	0.50	1	08/01/2019 16:11
Trichlorofluoromethane	ND	0.50	1	08/01/2019 16:11
1,2,3-Trichloropropane	ND	0.50	1	08/01/2019 16:11
1,2,4-Trimethylbenzene	ND	0.50	1	08/01/2019 16:11
1,3,5-Trimethylbenzene	ND	0.50	1	08/01/2019 16:11
Vinyl Chloride	ND	0.50	1	08/01/2019 16:11
m,p-Xylene	ND	0.50	1	08/01/2019 16:11
o-Xylene	ND	0.50	1	08/01/2019 16:11
Xylenes, Total	ND	0.50	1	08/01/2019 16:11

(Cont.)



# Analytical Report

**Client:** ACC Environmental Consultants, Inc.  
**Date Received:** 7/26/19 15:25  
**Date Prepared:** 8/1/19-8/2/19  
**Project:** 1744-001.00

**WorkOrder:** 1907D02  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L

## Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B1-W	1907D02-001A	Water	07/25/2019 10:25	GC16 08011913.D	182773

Analytes	Result	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
Dibromofluoromethane	96	78-112		08/01/2019 16:11
Toluene-d8	87	82-109		08/01/2019 16:11
4-BFB	78	63-121		08/01/2019 16:11

Analyst(s): KF



## Analytical Report

**Client:** ACC Environmental Consultants, Inc.  
**Date Received:** 7/26/19 15:25  
**Date Prepared:** 8/1/19-8/2/19  
**Project:** 1744-001.00

**WorkOrder:** 1907D02  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L

### Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B2-W	1907D02-002A	Water	07/25/2019 10:50	GC16 08011914.D	182773

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	10	1	08/01/2019 16:53
tert-Amyl methyl ether (TAME)	ND	0.50	1	08/01/2019 16:53
Benzene	ND	0.50	1	08/01/2019 16:53
Bromobenzene	ND	0.50	1	08/01/2019 16:53
Bromochloromethane	ND	0.50	1	08/01/2019 16:53
Bromodichloromethane	ND	0.50	1	08/01/2019 16:53
Bromoform	ND	0.50	1	08/01/2019 16:53
Bromomethane	ND	0.50	1	08/01/2019 16:53
2-Butanone (MEK)	ND	5.0	1	08/01/2019 16:53
t-Butyl alcohol (TBA)	ND	5.0	1	08/01/2019 16:53
n-Butyl benzene	ND	0.50	1	08/01/2019 16:53
sec-Butyl benzene	ND	0.50	1	08/01/2019 16:53
tert-Butyl benzene	ND	0.50	1	08/01/2019 16:53
Carbon Disulfide	ND	0.50	1	08/01/2019 16:53
Carbon Tetrachloride	ND	0.50	1	08/01/2019 16:53
Chlorobenzene	ND	0.50	1	08/01/2019 16:53
Chloroethane	ND	0.50	1	08/01/2019 16:53
Chloroform	ND	0.50	1	08/01/2019 16:53
Chloromethane	ND	0.50	1	08/01/2019 16:53
2-Chlorotoluene	ND	0.50	1	08/01/2019 16:53
4-Chlorotoluene	ND	0.50	1	08/01/2019 16:53
Dibromochloromethane	ND	0.50	1	08/01/2019 16:53
1,2-Dibromo-3-chloropropane	ND	0.20	1	08/01/2019 16:53
1,2-Dibromoethane (EDB)	ND	0.50	1	08/01/2019 16:53
Dibromomethane	ND	0.50	1	08/01/2019 16:53
1,2-Dichlorobenzene	ND	0.50	1	08/01/2019 16:53
1,3-Dichlorobenzene	ND	0.50	1	08/01/2019 16:53
1,4-Dichlorobenzene	ND	0.50	1	08/01/2019 16:53
Dichlorodifluoromethane	ND	0.50	1	08/01/2019 16:53
1,1-Dichloroethane	ND	0.50	1	08/01/2019 16:53
1,2-Dichloroethane (1,2-DCA)	ND	0.50	1	08/01/2019 16:53
1,1-Dichloroethene	ND	0.50	1	08/01/2019 16:53
cis-1,2-Dichloroethene	<b>0.66</b>	0.50	1	08/01/2019 16:53
trans-1,2-Dichloroethene	ND	0.50	1	08/01/2019 16:53
1,2-Dichloropropane	ND	0.50	1	08/01/2019 16:53
1,3-Dichloropropane	ND	0.50	1	08/01/2019 16:53
2,2-Dichloropropane	ND	0.50	1	08/01/2019 16:53

(Cont.)



## Analytical Report

**Client:** ACC Environmental Consultants, Inc.  
**Date Received:** 7/26/19 15:25  
**Date Prepared:** 8/1/19-8/2/19  
**Project:** 1744-001.00

**WorkOrder:** 1907D02  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L

### Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B2-W	1907D02-002A	Water	07/25/2019 10:50	GC16 08011914.D	182773

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	0.50	1	08/01/2019 16:53
cis-1,3-Dichloropropene	ND	0.50	1	08/01/2019 16:53
trans-1,3-Dichloropropene	ND	0.50	1	08/01/2019 16:53
Diisopropyl ether (DIPE)	ND	0.50	1	08/01/2019 16:53
Ethylbenzene	ND	0.50	1	08/01/2019 16:53
Ethyl tert-butyl ether (ETBE)	ND	0.50	1	08/01/2019 16:53
Freon 113	ND	0.50	1	08/01/2019 16:53
Hexachlorobutadiene	ND	0.50	1	08/01/2019 16:53
Hexachloroethane	ND	0.50	1	08/01/2019 16:53
2-Hexanone	ND	1.0	1	08/01/2019 16:53
Isopropylbenzene	ND	0.50	1	08/01/2019 16:53
4-Isopropyl toluene	ND	0.50	1	08/01/2019 16:53
Methyl-t-butyl ether (MTBE)	ND	0.50	1	08/01/2019 16:53
Methylene chloride	ND	2.0	1	08/01/2019 16:53
4-Methyl-2-pentanone (MIBK)	ND	0.50	1	08/01/2019 16:53
Naphthalene	ND	1.0	1	08/01/2019 16:53
n-Propyl benzene	ND	0.50	1	08/01/2019 16:53
Styrene	ND	2.0	1	08/01/2019 16:53
1,1,1,2-Tetrachloroethane	ND	0.50	1	08/01/2019 16:53
1,1,2,2-Tetrachloroethane	ND	0.50	1	08/01/2019 16:53
Tetrachloroethene	ND	0.50	1	08/01/2019 16:53
Toluene	ND	0.50	1	08/01/2019 16:53
1,2,3-Trichlorobenzene	ND	0.50	1	08/01/2019 16:53
1,2,4-Trichlorobenzene	ND	0.50	1	08/01/2019 16:53
1,1,1-Trichloroethane	ND	0.50	1	08/01/2019 16:53
1,1,2-Trichloroethane	ND	0.50	1	08/01/2019 16:53
Trichloroethene	1.3	0.50	1	08/01/2019 16:53
Trichlorofluoromethane	ND	0.50	1	08/01/2019 16:53
1,2,3-Trichloropropane	ND	0.50	1	08/01/2019 16:53
1,2,4-Trimethylbenzene	ND	0.50	1	08/01/2019 16:53
1,3,5-Trimethylbenzene	ND	0.50	1	08/01/2019 16:53
Vinyl Chloride	ND	0.50	1	08/01/2019 16:53
m,p-Xylene	ND	0.50	1	08/01/2019 16:53
o-Xylene	ND	0.50	1	08/01/2019 16:53
Xylenes, Total	ND	0.50	1	08/01/2019 16:53

(Cont.)





# Analytical Report

**Client:** ACC Environmental Consultants, Inc.  
**Date Received:** 7/26/19 15:25  
**Date Prepared:** 8/1/19-8/2/19  
**Project:** 1744-001.00

**WorkOrder:** 1907D02  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L

## Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B2-W	1907D02-002A	Water	07/25/2019 10:50	GC16 08011914.D	182773

Analytes	Result	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
Dibromofluoromethane	96	78-112		08/01/2019 16:53
Toluene-d8	87	82-109		08/01/2019 16:53
4-BFB	74	63-121		08/01/2019 16:53

Analyst(s): KF



## Analytical Report

**Client:** ACC Environmental Consultants, Inc.  
**Date Received:** 7/26/19 15:25  
**Date Prepared:** 8/1/19-8/2/19  
**Project:** 1744-001.00

**WorkOrder:** 1907D02  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L

### Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B3-W	1907D02-003A	Water	07/25/2019 11:08	GC16 08011915.D	182773

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	10	1	08/01/2019 17:34
tert-Amyl methyl ether (TAME)	ND	0.50	1	08/01/2019 17:34
Benzene	ND	0.50	1	08/01/2019 17:34
Bromobenzene	ND	0.50	1	08/01/2019 17:34
Bromochloromethane	ND	0.50	1	08/01/2019 17:34
Bromodichloromethane	ND	0.50	1	08/01/2019 17:34
Bromoform	ND	0.50	1	08/01/2019 17:34
Bromomethane	ND	0.50	1	08/01/2019 17:34
2-Butanone (MEK)	ND	5.0	1	08/01/2019 17:34
t-Butyl alcohol (TBA)	ND	5.0	1	08/01/2019 17:34
n-Butyl benzene	ND	0.50	1	08/01/2019 17:34
sec-Butyl benzene	ND	0.50	1	08/01/2019 17:34
tert-Butyl benzene	ND	0.50	1	08/01/2019 17:34
Carbon Disulfide	ND	0.50	1	08/01/2019 17:34
Carbon Tetrachloride	ND	0.50	1	08/01/2019 17:34
Chlorobenzene	ND	0.50	1	08/01/2019 17:34
Chloroethane	ND	0.50	1	08/01/2019 17:34
Chloroform	ND	0.50	1	08/01/2019 17:34
Chloromethane	ND	0.50	1	08/01/2019 17:34
2-Chlorotoluene	ND	0.50	1	08/01/2019 17:34
4-Chlorotoluene	ND	0.50	1	08/01/2019 17:34
Dibromochloromethane	ND	0.50	1	08/01/2019 17:34
1,2-Dibromo-3-chloropropane	ND	0.20	1	08/01/2019 17:34
1,2-Dibromoethane (EDB)	ND	0.50	1	08/01/2019 17:34
Dibromomethane	ND	0.50	1	08/01/2019 17:34
1,2-Dichlorobenzene	ND	0.50	1	08/01/2019 17:34
1,3-Dichlorobenzene	ND	0.50	1	08/01/2019 17:34
1,4-Dichlorobenzene	ND	0.50	1	08/01/2019 17:34
Dichlorodifluoromethane	ND	0.50	1	08/01/2019 17:34
1,1-Dichloroethane	ND	0.50	1	08/01/2019 17:34
1,2-Dichloroethane (1,2-DCA)	ND	0.50	1	08/01/2019 17:34
1,1-Dichloroethene	ND	0.50	1	08/01/2019 17:34
cis-1,2-Dichloroethene	<b>0.69</b>	0.50	1	08/01/2019 17:34
trans-1,2-Dichloroethene	ND	0.50	1	08/01/2019 17:34
1,2-Dichloropropane	ND	0.50	1	08/01/2019 17:34
1,3-Dichloropropane	ND	0.50	1	08/01/2019 17:34
2,2-Dichloropropane	ND	0.50	1	08/01/2019 17:34

(Cont.)



## Analytical Report

**Client:** ACC Environmental Consultants, Inc.  
**Date Received:** 7/26/19 15:25  
**Date Prepared:** 8/1/19-8/2/19  
**Project:** 1744-001.00

**WorkOrder:** 1907D02  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L

### Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B3-W	1907D02-003A	Water	07/25/2019 11:08	GC16 08011915.D	182773

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	0.50	1	08/01/2019 17:34
cis-1,3-Dichloropropene	ND	0.50	1	08/01/2019 17:34
trans-1,3-Dichloropropene	ND	0.50	1	08/01/2019 17:34
Diisopropyl ether (DIPE)	ND	0.50	1	08/01/2019 17:34
Ethylbenzene	ND	0.50	1	08/01/2019 17:34
Ethyl tert-butyl ether (ETBE)	ND	0.50	1	08/01/2019 17:34
Freon 113	<b>2.0</b>	0.50	1	08/01/2019 17:34
Hexachlorobutadiene	ND	0.50	1	08/01/2019 17:34
Hexachloroethane	ND	0.50	1	08/01/2019 17:34
2-Hexanone	ND	1.0	1	08/01/2019 17:34
Isopropylbenzene	ND	0.50	1	08/01/2019 17:34
4-Isopropyl toluene	ND	0.50	1	08/01/2019 17:34
Methyl-t-butyl ether (MTBE)	ND	0.50	1	08/01/2019 17:34
Methylene chloride	ND	2.0	1	08/01/2019 17:34
4-Methyl-2-pentanone (MIBK)	ND	0.50	1	08/01/2019 17:34
Naphthalene	ND	1.0	1	08/01/2019 17:34
n-Propyl benzene	ND	0.50	1	08/01/2019 17:34
Styrene	ND	2.0	1	08/01/2019 17:34
1,1,1,2-Tetrachloroethane	ND	0.50	1	08/01/2019 17:34
1,1,2,2-Tetrachloroethane	ND	0.50	1	08/01/2019 17:34
Tetrachloroethene	ND	0.50	1	08/01/2019 17:34
Toluene	ND	0.50	1	08/01/2019 17:34
1,2,3-Trichlorobenzene	ND	0.50	1	08/01/2019 17:34
1,2,4-Trichlorobenzene	ND	0.50	1	08/01/2019 17:34
1,1,1-Trichloroethane	ND	0.50	1	08/01/2019 17:34
1,1,2-Trichloroethane	ND	0.50	1	08/01/2019 17:34
Trichloroethene	<b>5.7</b>	0.50	1	08/01/2019 17:34
Trichlorofluoromethane	ND	0.50	1	08/01/2019 17:34
1,2,3-Trichloropropane	ND	0.50	1	08/01/2019 17:34
1,2,4-Trimethylbenzene	ND	0.50	1	08/01/2019 17:34
1,3,5-Trimethylbenzene	ND	0.50	1	08/01/2019 17:34
Vinyl Chloride	ND	0.50	1	08/01/2019 17:34
m,p-Xylene	ND	0.50	1	08/01/2019 17:34
o-Xylene	ND	0.50	1	08/01/2019 17:34
Xylenes, Total	ND	0.50	1	08/01/2019 17:34

(Cont.)



# Analytical Report

**Client:** ACC Environmental Consultants, Inc.  
**Date Received:** 7/26/19 15:25  
**Date Prepared:** 8/1/19-8/2/19  
**Project:** 1744-001.00

**WorkOrder:** 1907D02  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L

## Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B3-W	1907D02-003A	Water	07/25/2019 11:08	GC16 08011915.D	182773

Analytes	Result	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
Dibromofluoromethane	95	78-112		08/01/2019 17:34
Toluene-d8	88	82-109		08/01/2019 17:34
4-BFB	76	63-121		08/01/2019 17:34

Analyst(s): KF



# Analytical Report

**Client:** ACC Environmental Consultants, Inc.  
**Date Received:** 7/26/19 15:25  
**Date Prepared:** 8/1/19-8/2/19  
**Project:** 1744-001.00

**WorkOrder:** 1907D02  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L

## Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B4-W	1907D02-004A	Water	07/25/2019 09:27	GC16 08011923.D	182773

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	10	1	08/01/2019 23:06
tert-Amyl methyl ether (TAME)	ND	0.50	1	08/01/2019 23:06
Benzene	ND	0.50	1	08/01/2019 23:06
Bromobenzene	ND	0.50	1	08/01/2019 23:06
Bromochloromethane	ND	0.50	1	08/01/2019 23:06
Bromodichloromethane	ND	0.50	1	08/01/2019 23:06
Bromoform	ND	0.50	1	08/01/2019 23:06
Bromomethane	ND	0.50	1	08/01/2019 23:06
2-Butanone (MEK)	ND	5.0	1	08/01/2019 23:06
t-Butyl alcohol (TBA)	ND	5.0	1	08/01/2019 23:06
n-Butyl benzene	ND	0.50	1	08/01/2019 23:06
sec-Butyl benzene	ND	0.50	1	08/01/2019 23:06
tert-Butyl benzene	ND	0.50	1	08/01/2019 23:06
Carbon Disulfide	ND	0.50	1	08/01/2019 23:06
Carbon Tetrachloride	ND	0.50	1	08/01/2019 23:06
Chlorobenzene	ND	0.50	1	08/01/2019 23:06
Chloroethane	ND	0.50	1	08/01/2019 23:06
Chloroform	ND	0.50	1	08/01/2019 23:06
Chloromethane	ND	0.50	1	08/01/2019 23:06
2-Chlorotoluene	ND	0.50	1	08/01/2019 23:06
4-Chlorotoluene	ND	0.50	1	08/01/2019 23:06
Dibromochloromethane	ND	0.50	1	08/01/2019 23:06
1,2-Dibromo-3-chloropropane	ND	0.20	1	08/01/2019 23:06
1,2-Dibromoethane (EDB)	ND	0.50	1	08/01/2019 23:06
Dibromomethane	ND	0.50	1	08/01/2019 23:06
1,2-Dichlorobenzene	ND	0.50	1	08/01/2019 23:06
1,3-Dichlorobenzene	ND	0.50	1	08/01/2019 23:06
1,4-Dichlorobenzene	ND	0.50	1	08/01/2019 23:06
Dichlorodifluoromethane	ND	0.50	1	08/01/2019 23:06
1,1-Dichloroethane	ND	0.50	1	08/01/2019 23:06
1,2-Dichloroethane (1,2-DCA)	ND	0.50	1	08/01/2019 23:06
1,1-Dichloroethene	ND	0.50	1	08/01/2019 23:06
cis-1,2-Dichloroethene	2.1	0.50	1	08/01/2019 23:06
trans-1,2-Dichloroethene	ND	0.50	1	08/01/2019 23:06
1,2-Dichloropropane	ND	0.50	1	08/01/2019 23:06
1,3-Dichloropropane	ND	0.50	1	08/01/2019 23:06
2,2-Dichloropropane	ND	0.50	1	08/01/2019 23:06

(Cont.)



# Analytical Report

**Client:** ACC Environmental Consultants, Inc.  
**Date Received:** 7/26/19 15:25  
**Date Prepared:** 8/1/19-8/2/19  
**Project:** 1744-001.00

**WorkOrder:** 1907D02  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L

## Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B4-W	1907D02-004A	Water	07/25/2019 09:27	GC16 08011923.D	182773

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	0.50	1	08/01/2019 23:06
cis-1,3-Dichloropropene	ND	0.50	1	08/01/2019 23:06
trans-1,3-Dichloropropene	ND	0.50	1	08/01/2019 23:06
Diisopropyl ether (DIPE)	ND	0.50	1	08/01/2019 23:06
Ethylbenzene	ND	0.50	1	08/01/2019 23:06
Ethyl tert-butyl ether (ETBE)	ND	0.50	1	08/01/2019 23:06
Freon 113	0.71	0.50	1	08/01/2019 23:06
Hexachlorobutadiene	ND	0.50	1	08/01/2019 23:06
Hexachloroethane	ND	0.50	1	08/01/2019 23:06
2-Hexanone	ND	1.0	1	08/01/2019 23:06
Isopropylbenzene	ND	0.50	1	08/01/2019 23:06
4-Isopropyl toluene	ND	0.50	1	08/01/2019 23:06
Methyl-t-butyl ether (MTBE)	ND	0.50	1	08/01/2019 23:06
Methylene chloride	ND	2.0	1	08/01/2019 23:06
4-Methyl-2-pentanone (MIBK)	ND	0.50	1	08/01/2019 23:06
Naphthalene	ND	1.0	1	08/01/2019 23:06
n-Propyl benzene	ND	0.50	1	08/01/2019 23:06
Styrene	ND	2.0	1	08/01/2019 23:06
1,1,1,2-Tetrachloroethane	ND	0.50	1	08/01/2019 23:06
1,1,2,2-Tetrachloroethane	ND	0.50	1	08/01/2019 23:06
Tetrachloroethene	ND	0.50	1	08/01/2019 23:06
Toluene	ND	0.50	1	08/01/2019 23:06
1,2,3-Trichlorobenzene	ND	0.50	1	08/01/2019 23:06
1,2,4-Trichlorobenzene	ND	0.50	1	08/01/2019 23:06
1,1,1-Trichloroethane	ND	0.50	1	08/01/2019 23:06
1,1,2-Trichloroethane	ND	0.50	1	08/01/2019 23:06
Trichloroethene	8.0	0.50	1	08/01/2019 23:06
Trichlorofluoromethane	ND	0.50	1	08/01/2019 23:06
1,2,3-Trichloropropane	ND	0.50	1	08/01/2019 23:06
1,2,4-Trimethylbenzene	ND	0.50	1	08/01/2019 23:06
1,3,5-Trimethylbenzene	ND	0.50	1	08/01/2019 23:06
Vinyl Chloride	ND	0.50	1	08/01/2019 23:06
m,p-Xylene	ND	0.50	1	08/01/2019 23:06
o-Xylene	ND	0.50	1	08/01/2019 23:06
Xylenes, Total	ND	0.50	1	08/01/2019 23:06

(Cont.)



# Analytical Report

**Client:** ACC Environmental Consultants, Inc.  
**Date Received:** 7/26/19 15:25  
**Date Prepared:** 8/1/19-8/2/19  
**Project:** 1744-001.00

**WorkOrder:** 1907D02  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L

## Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B4-W	1907D02-004A	Water	07/25/2019 09:27	GC16 08011923.D	182773

Analytes	Result	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
Dibromofluoromethane	95	78-112		08/01/2019 23:06
Toluene-d8	89	82-109		08/01/2019 23:06
4-BFB	76	63-121		08/01/2019 23:06

Analyst(s): KF



# Analytical Report

**Client:** ACC Environmental Consultants, Inc.  
**Date Received:** 7/26/19 15:25  
**Date Prepared:** 8/1/19-8/2/19  
**Project:** 1744-001.00

**WorkOrder:** 1907D02  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L

## Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B5-W	1907D02-005A	Water	07/25/2019 08:50	GC16 08011924.D	182773

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	10	1	08/01/2019 23:46
tert-Amyl methyl ether (TAME)	ND	0.50	1	08/01/2019 23:46
Benzene	ND	0.50	1	08/01/2019 23:46
Bromobenzene	ND	0.50	1	08/01/2019 23:46
Bromochloromethane	ND	0.50	1	08/01/2019 23:46
Bromodichloromethane	ND	0.50	1	08/01/2019 23:46
Bromoform	ND	0.50	1	08/01/2019 23:46
Bromomethane	ND	0.50	1	08/01/2019 23:46
2-Butanone (MEK)	ND	5.0	1	08/01/2019 23:46
t-Butyl alcohol (TBA)	ND	5.0	1	08/01/2019 23:46
n-Butyl benzene	ND	0.50	1	08/01/2019 23:46
sec-Butyl benzene	ND	0.50	1	08/01/2019 23:46
tert-Butyl benzene	ND	0.50	1	08/01/2019 23:46
Carbon Disulfide	ND	0.50	1	08/01/2019 23:46
Carbon Tetrachloride	ND	0.50	1	08/01/2019 23:46
Chlorobenzene	ND	0.50	1	08/01/2019 23:46
Chloroethane	ND	0.50	1	08/01/2019 23:46
Chloroform	ND	0.50	1	08/01/2019 23:46
Chloromethane	ND	0.50	1	08/01/2019 23:46
2-Chlorotoluene	ND	0.50	1	08/01/2019 23:46
4-Chlorotoluene	ND	0.50	1	08/01/2019 23:46
Dibromochloromethane	ND	0.50	1	08/01/2019 23:46
1,2-Dibromo-3-chloropropane	ND	0.20	1	08/01/2019 23:46
1,2-Dibromoethane (EDB)	ND	0.50	1	08/01/2019 23:46
Dibromomethane	ND	0.50	1	08/01/2019 23:46
1,2-Dichlorobenzene	ND	0.50	1	08/01/2019 23:46
1,3-Dichlorobenzene	ND	0.50	1	08/01/2019 23:46
1,4-Dichlorobenzene	ND	0.50	1	08/01/2019 23:46
Dichlorodifluoromethane	ND	0.50	1	08/01/2019 23:46
1,1-Dichloroethane	ND	0.50	1	08/01/2019 23:46
1,2-Dichloroethane (1,2-DCA)	ND	0.50	1	08/01/2019 23:46
1,1-Dichloroethene	ND	0.50	1	08/01/2019 23:46
cis-1,2-Dichloroethene	ND	0.50	1	08/01/2019 23:46
trans-1,2-Dichloroethene	ND	0.50	1	08/01/2019 23:46
1,2-Dichloropropane	ND	0.50	1	08/01/2019 23:46
1,3-Dichloropropane	ND	0.50	1	08/01/2019 23:46
2,2-Dichloropropane	ND	0.50	1	08/01/2019 23:46

(Cont.)





## Analytical Report

**Client:** ACC Environmental Consultants, Inc.  
**Date Received:** 7/26/19 15:25  
**Date Prepared:** 8/1/19-8/2/19  
**Project:** 1744-001.00

**WorkOrder:** 1907D02  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L

### Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B5-W	1907D02-005A	Water	07/25/2019 08:50	GC16 08011924.D	182773

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	0.50	1	08/01/2019 23:46
cis-1,3-Dichloropropene	ND	0.50	1	08/01/2019 23:46
trans-1,3-Dichloropropene	ND	0.50	1	08/01/2019 23:46
Diisopropyl ether (DIPE)	ND	0.50	1	08/01/2019 23:46
Ethylbenzene	ND	0.50	1	08/01/2019 23:46
Ethyl tert-butyl ether (ETBE)	ND	0.50	1	08/01/2019 23:46
Freon 113	ND	0.50	1	08/01/2019 23:46
Hexachlorobutadiene	ND	0.50	1	08/01/2019 23:46
Hexachloroethane	ND	0.50	1	08/01/2019 23:46
2-Hexanone	ND	1.0	1	08/01/2019 23:46
Isopropylbenzene	ND	0.50	1	08/01/2019 23:46
4-Isopropyl toluene	ND	0.50	1	08/01/2019 23:46
Methyl-t-butyl ether (MTBE)	ND	0.50	1	08/01/2019 23:46
Methylene chloride	ND	2.0	1	08/01/2019 23:46
4-Methyl-2-pentanone (MIBK)	ND	0.50	1	08/01/2019 23:46
Naphthalene	ND	1.0	1	08/01/2019 23:46
n-Propyl benzene	ND	0.50	1	08/01/2019 23:46
Styrene	ND	2.0	1	08/01/2019 23:46
1,1,1,2-Tetrachloroethane	ND	0.50	1	08/01/2019 23:46
1,1,2,2-Tetrachloroethane	ND	0.50	1	08/01/2019 23:46
Tetrachloroethene	ND	0.50	1	08/01/2019 23:46
Toluene	ND	0.50	1	08/01/2019 23:46
1,2,3-Trichlorobenzene	ND	0.50	1	08/01/2019 23:46
1,2,4-Trichlorobenzene	ND	0.50	1	08/01/2019 23:46
1,1,1-Trichloroethane	ND	0.50	1	08/01/2019 23:46
1,1,2-Trichloroethane	ND	0.50	1	08/01/2019 23:46
Trichloroethene	1.1	0.50	1	08/01/2019 23:46
Trichlorofluoromethane	ND	0.50	1	08/01/2019 23:46
1,2,3-Trichloropropane	ND	0.50	1	08/01/2019 23:46
1,2,4-Trimethylbenzene	ND	0.50	1	08/01/2019 23:46
1,3,5-Trimethylbenzene	ND	0.50	1	08/01/2019 23:46
Vinyl Chloride	ND	0.50	1	08/01/2019 23:46
m,p-Xylene	ND	0.50	1	08/01/2019 23:46
o-Xylene	ND	0.50	1	08/01/2019 23:46
Xylenes, Total	ND	0.50	1	08/01/2019 23:46

(Cont.)



# Analytical Report

**Client:** ACC Environmental Consultants, Inc.  
**Date Received:** 7/26/19 15:25  
**Date Prepared:** 8/1/19-8/2/19  
**Project:** 1744-001.00

**WorkOrder:** 1907D02  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L

## Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B5-W	1907D02-005A	Water	07/25/2019 08:50	GC16 08011924.D	182773

Analytes	Result	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
Dibromofluoromethane	94	78-112		08/01/2019 23:46
Toluene-d8	89	82-109		08/01/2019 23:46
4-BFB	76	63-121		08/01/2019 23:46

Analyst(s): KF



## Analytical Report

**Client:** ACC Environmental Consultants, Inc.  
**Date Received:** 7/26/19 15:25  
**Date Prepared:** 8/1/19-8/2/19  
**Project:** 1744-001.00

**WorkOrder:** 1907D02  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L

### Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B6-W	1907D02-006A	Water	07/25/2019 10:02	GC16 08011925.D	182773

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	10	1	08/02/2019 00:26
tert-Amyl methyl ether (TAME)	ND	0.50	1	08/02/2019 00:26
Benzene	ND	0.50	1	08/02/2019 00:26
Bromobenzene	ND	0.50	1	08/02/2019 00:26
Bromochloromethane	ND	0.50	1	08/02/2019 00:26
Bromodichloromethane	ND	0.50	1	08/02/2019 00:26
Bromoform	ND	0.50	1	08/02/2019 00:26
Bromomethane	ND	0.50	1	08/02/2019 00:26
2-Butanone (MEK)	ND	5.0	1	08/02/2019 00:26
t-Butyl alcohol (TBA)	ND	5.0	1	08/02/2019 00:26
n-Butyl benzene	ND	0.50	1	08/02/2019 00:26
sec-Butyl benzene	ND	0.50	1	08/02/2019 00:26
tert-Butyl benzene	ND	0.50	1	08/02/2019 00:26
Carbon Disulfide	ND	0.50	1	08/02/2019 00:26
Carbon Tetrachloride	ND	0.50	1	08/02/2019 00:26
Chlorobenzene	ND	0.50	1	08/02/2019 00:26
Chloroethane	ND	0.50	1	08/02/2019 00:26
Chloroform	ND	0.50	1	08/02/2019 00:26
Chloromethane	ND	0.50	1	08/02/2019 00:26
2-Chlorotoluene	ND	0.50	1	08/02/2019 00:26
4-Chlorotoluene	ND	0.50	1	08/02/2019 00:26
Dibromochloromethane	ND	0.50	1	08/02/2019 00:26
1,2-Dibromo-3-chloropropane	ND	0.20	1	08/02/2019 00:26
1,2-Dibromoethane (EDB)	ND	0.50	1	08/02/2019 00:26
Dibromomethane	ND	0.50	1	08/02/2019 00:26
1,2-Dichlorobenzene	ND	0.50	1	08/02/2019 00:26
1,3-Dichlorobenzene	ND	0.50	1	08/02/2019 00:26
1,4-Dichlorobenzene	ND	0.50	1	08/02/2019 00:26
Dichlorodifluoromethane	ND	0.50	1	08/02/2019 00:26
1,1-Dichloroethane	ND	0.50	1	08/02/2019 00:26
1,2-Dichloroethane (1,2-DCA)	ND	0.50	1	08/02/2019 00:26
1,1-Dichloroethene	ND	0.50	1	08/02/2019 00:26
cis-1,2-Dichloroethene	<b>2.5</b>	0.50	1	08/02/2019 00:26
trans-1,2-Dichloroethene	ND	0.50	1	08/02/2019 00:26
1,2-Dichloropropane	ND	0.50	1	08/02/2019 00:26
1,3-Dichloropropane	ND	0.50	1	08/02/2019 00:26
2,2-Dichloropropane	ND	0.50	1	08/02/2019 00:26

(Cont.)



## Analytical Report

**Client:** ACC Environmental Consultants, Inc.  
**Date Received:** 7/26/19 15:25  
**Date Prepared:** 8/1/19-8/2/19  
**Project:** 1744-001.00

**WorkOrder:** 1907D02  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L

### Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B6-W	1907D02-006A	Water	07/25/2019 10:02	GC16 08011925.D	182773

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	0.50	1	08/02/2019 00:26
cis-1,3-Dichloropropene	ND	0.50	1	08/02/2019 00:26
trans-1,3-Dichloropropene	ND	0.50	1	08/02/2019 00:26
Diisopropyl ether (DIPE)	ND	0.50	1	08/02/2019 00:26
Ethylbenzene	ND	0.50	1	08/02/2019 00:26
Ethyl tert-butyl ether (ETBE)	ND	0.50	1	08/02/2019 00:26
Freon 113	ND	0.50	1	08/02/2019 00:26
Hexachlorobutadiene	ND	0.50	1	08/02/2019 00:26
Hexachloroethane	ND	0.50	1	08/02/2019 00:26
2-Hexanone	ND	1.0	1	08/02/2019 00:26
Isopropylbenzene	ND	0.50	1	08/02/2019 00:26
4-Isopropyl toluene	ND	0.50	1	08/02/2019 00:26
Methyl-t-butyl ether (MTBE)	ND	0.50	1	08/02/2019 00:26
Methylene chloride	ND	2.0	1	08/02/2019 00:26
4-Methyl-2-pentanone (MIBK)	ND	0.50	1	08/02/2019 00:26
Naphthalene	ND	1.0	1	08/02/2019 00:26
n-Propyl benzene	ND	0.50	1	08/02/2019 00:26
Styrene	ND	2.0	1	08/02/2019 00:26
1,1,1,2-Tetrachloroethane	ND	0.50	1	08/02/2019 00:26
1,1,2,2-Tetrachloroethane	ND	0.50	1	08/02/2019 00:26
Tetrachloroethene	ND	0.50	1	08/02/2019 00:26
Toluene	ND	0.50	1	08/02/2019 00:26
1,2,3-Trichlorobenzene	ND	0.50	1	08/02/2019 00:26
1,2,4-Trichlorobenzene	ND	0.50	1	08/02/2019 00:26
1,1,1-Trichloroethane	ND	0.50	1	08/02/2019 00:26
1,1,2-Trichloroethane	ND	0.50	1	08/02/2019 00:26
Trichloroethene	<b>4.3</b>	0.50	1	08/02/2019 00:26
Trichlorofluoromethane	ND	0.50	1	08/02/2019 00:26
1,2,3-Trichloropropane	ND	0.50	1	08/02/2019 00:26
1,2,4-Trimethylbenzene	ND	0.50	1	08/02/2019 00:26
1,3,5-Trimethylbenzene	ND	0.50	1	08/02/2019 00:26
Vinyl Chloride	ND	0.50	1	08/02/2019 00:26
m,p-Xylene	ND	0.50	1	08/02/2019 00:26
o-Xylene	ND	0.50	1	08/02/2019 00:26
Xylenes, Total	ND	0.50	1	08/02/2019 00:26

(Cont.)



# Analytical Report

**Client:** ACC Environmental Consultants, Inc.  
**Date Received:** 7/26/19 15:25  
**Date Prepared:** 8/1/19-8/2/19  
**Project:** 1744-001.00

**WorkOrder:** 1907D02  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L

## Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B6-W	1907D02-006A	Water	07/25/2019 10:02	GC16 08011925.D	182773

Analytes	Result	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
Dibromofluoromethane	93	78-112		08/02/2019 00:26
Toluene-d8	88	82-109		08/02/2019 00:26
4-BFB	74	63-121		08/02/2019 00:26

Analyst(s): KF



## Analytical Report

**Client:** ACC Environmental Consultants, Inc.  
**Date Received:** 7/26/19 15:25  
**Date Prepared:** 8/1/19-8/2/19  
**Project:** 1744-001.00

**WorkOrder:** 1907D02  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L

### Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B7-W	1907D02-007A	Water	07/25/2019 09:05	GC16 08011926.D	182773

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	10	1	08/02/2019 01:07
tert-Amyl methyl ether (TAME)	ND	0.50	1	08/02/2019 01:07
Benzene	ND	0.50	1	08/02/2019 01:07
Bromobenzene	ND	0.50	1	08/02/2019 01:07
Bromochloromethane	ND	0.50	1	08/02/2019 01:07
Bromodichloromethane	ND	0.50	1	08/02/2019 01:07
Bromoform	ND	0.50	1	08/02/2019 01:07
Bromomethane	ND	0.50	1	08/02/2019 01:07
2-Butanone (MEK)	ND	5.0	1	08/02/2019 01:07
t-Butyl alcohol (TBA)	ND	5.0	1	08/02/2019 01:07
n-Butyl benzene	ND	0.50	1	08/02/2019 01:07
sec-Butyl benzene	ND	0.50	1	08/02/2019 01:07
tert-Butyl benzene	ND	0.50	1	08/02/2019 01:07
Carbon Disulfide	ND	0.50	1	08/02/2019 01:07
Carbon Tetrachloride	ND	0.50	1	08/02/2019 01:07
Chlorobenzene	ND	0.50	1	08/02/2019 01:07
Chloroethane	ND	0.50	1	08/02/2019 01:07
Chloroform	ND	0.50	1	08/02/2019 01:07
Chloromethane	ND	0.50	1	08/02/2019 01:07
2-Chlorotoluene	ND	0.50	1	08/02/2019 01:07
4-Chlorotoluene	ND	0.50	1	08/02/2019 01:07
Dibromochloromethane	ND	0.50	1	08/02/2019 01:07
1,2-Dibromo-3-chloropropane	ND	0.20	1	08/02/2019 01:07
1,2-Dibromoethane (EDB)	ND	0.50	1	08/02/2019 01:07
Dibromomethane	ND	0.50	1	08/02/2019 01:07
1,2-Dichlorobenzene	ND	0.50	1	08/02/2019 01:07
1,3-Dichlorobenzene	ND	0.50	1	08/02/2019 01:07
1,4-Dichlorobenzene	ND	0.50	1	08/02/2019 01:07
Dichlorodifluoromethane	ND	0.50	1	08/02/2019 01:07
1,1-Dichloroethane	ND	0.50	1	08/02/2019 01:07
1,2-Dichloroethane (1,2-DCA)	ND	0.50	1	08/02/2019 01:07
1,1-Dichloroethene	ND	0.50	1	08/02/2019 01:07
cis-1,2-Dichloroethene	<b>15</b>	0.50	1	08/02/2019 01:07
trans-1,2-Dichloroethene	<b>1.7</b>	0.50	1	08/02/2019 01:07
1,2-Dichloropropane	ND	0.50	1	08/02/2019 01:07
1,3-Dichloropropane	ND	0.50	1	08/02/2019 01:07
2,2-Dichloropropane	ND	0.50	1	08/02/2019 01:07

(Cont.)



## Analytical Report

**Client:** ACC Environmental Consultants, Inc.  
**Date Received:** 7/26/19 15:25  
**Date Prepared:** 8/1/19-8/2/19  
**Project:** 1744-001.00

**WorkOrder:** 1907D02  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L

### Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B7-W	1907D02-007A	Water	07/25/2019 09:05	GC16 08011926.D	182773

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	0.50	1	08/02/2019 01:07
cis-1,3-Dichloropropene	ND	0.50	1	08/02/2019 01:07
trans-1,3-Dichloropropene	ND	0.50	1	08/02/2019 01:07
Diisopropyl ether (DIPE)	ND	0.50	1	08/02/2019 01:07
Ethylbenzene	ND	0.50	1	08/02/2019 01:07
Ethyl tert-butyl ether (ETBE)	ND	0.50	1	08/02/2019 01:07
Freon 113	<b>4.4</b>	0.50	1	08/02/2019 01:07
Hexachlorobutadiene	ND	0.50	1	08/02/2019 01:07
Hexachloroethane	ND	0.50	1	08/02/2019 01:07
2-Hexanone	ND	1.0	1	08/02/2019 01:07
Isopropylbenzene	ND	0.50	1	08/02/2019 01:07
4-Isopropyl toluene	ND	0.50	1	08/02/2019 01:07
Methyl-t-butyl ether (MTBE)	<b>0.92</b>	0.50	1	08/02/2019 01:07
Methylene chloride	ND	2.0	1	08/02/2019 01:07
4-Methyl-2-pentanone (MIBK)	ND	0.50	1	08/02/2019 01:07
Naphthalene	ND	1.0	1	08/02/2019 01:07
n-Propyl benzene	ND	0.50	1	08/02/2019 01:07
Styrene	ND	2.0	1	08/02/2019 01:07
1,1,1,2-Tetrachloroethane	ND	0.50	1	08/02/2019 01:07
1,1,2,2-Tetrachloroethane	ND	0.50	1	08/02/2019 01:07
Tetrachloroethene	ND	0.50	1	08/02/2019 01:07
Toluene	ND	0.50	1	08/02/2019 01:07
1,2,3-Trichlorobenzene	ND	0.50	1	08/02/2019 01:07
1,2,4-Trichlorobenzene	ND	0.50	1	08/02/2019 01:07
1,1,1-Trichloroethane	ND	0.50	1	08/02/2019 01:07
1,1,2-Trichloroethane	ND	0.50	1	08/02/2019 01:07
Trichloroethene	<b>23</b>	0.50	1	08/02/2019 01:07
Trichlorofluoromethane	ND	0.50	1	08/02/2019 01:07
1,2,3-Trichloropropane	ND	0.50	1	08/02/2019 01:07
1,2,4-Trimethylbenzene	ND	0.50	1	08/02/2019 01:07
1,3,5-Trimethylbenzene	ND	0.50	1	08/02/2019 01:07
Vinyl Chloride	ND	0.50	1	08/02/2019 01:07
m,p-Xylene	ND	0.50	1	08/02/2019 01:07
o-Xylene	ND	0.50	1	08/02/2019 01:07
Xylenes, Total	ND	0.50	1	08/02/2019 01:07

(Cont.)



# Analytical Report

**Client:** ACC Environmental Consultants, Inc.  
**Date Received:** 7/26/19 15:25  
**Date Prepared:** 8/1/19-8/2/19  
**Project:** 1744-001.00

**WorkOrder:** 1907D02  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L

## Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B7-W	1907D02-007A	Water	07/25/2019 09:05	GC16 08011926.D	182773

Analytes	Result	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
Dibromofluoromethane	92	78-112		08/02/2019 01:07
Toluene-d8	88	82-109		08/02/2019 01:07
4-BFB	73	63-121		08/02/2019 01:07

Analyst(s): KF





## Quality Control Report

**Client:** ACC Environmental Consultants, Inc.  
**Date Prepared:** 8/1/19  
**Date Analyzed:** 8/1/19  
**Instrument:** GC16  
**Matrix:** Water  
**Project:** 1744-001.00

**WorkOrder:** 1907D02  
**BatchID:** 182773  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L  
**Sample ID:** MB/LCS/LCSD-182773  
 1907D02-001AMS/MSD

### QC Summary Report for SW8260B

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
Acetone	ND	5.9	10	-	-	-
tert-Amyl methyl ether (TAME)	ND	0.22	0.50	-	-	-
Benzene	ND	0.051	0.50	-	-	-
Bromobenzene	ND	0.060	0.50	-	-	-
Bromochloromethane	ND	0.090	0.50	-	-	-
Bromodichloromethane	ND	0.20	0.50	-	-	-
Bromoform	ND	0.066	0.50	-	-	-
Bromomethane	0.25,J	0.16	0.50	-	-	-
2-Butanone (MEK)	ND	2.0	5.0	-	-	-
t-Butyl alcohol (TBA)	ND	1.7	5.0	-	-	-
n-Butyl benzene	ND	0.084	0.50	-	-	-
sec-Butyl benzene	ND	0.060	0.50	-	-	-
tert-Butyl benzene	ND	0.050	0.50	-	-	-
Carbon Disulfide	ND	0.28	0.50	-	-	-
Carbon Tetrachloride	ND	0.069	0.50	-	-	-
Chlorobenzene	ND	0.050	0.50	-	-	-
Chloroethane	ND	0.31	0.50	-	-	-
Chloroform	ND	0.064	0.50	-	-	-
Chloromethane	ND	0.13	0.50	-	-	-
2-Chlorotoluene	ND	0.070	0.50	-	-	-
4-Chlorotoluene	ND	0.070	0.50	-	-	-
Dibromochloromethane	ND	0.080	0.50	-	-	-
1,2-Dibromo-3-chloropropane	ND	0.12	0.20	-	-	-
1,2-Dibromoethane (EDB)	ND	0.12	0.50	-	-	-
Dibromomethane	ND	0.080	0.50	-	-	-
1,2-Dichlorobenzene	ND	0.080	0.50	-	-	-
1,3-Dichlorobenzene	ND	0.071	0.50	-	-	-
1,4-Dichlorobenzene	ND	0.072	0.50	-	-	-
Dichlorodifluoromethane	ND	0.063	0.50	-	-	-
1,1-Dichloroethane	ND	0.060	0.50	-	-	-
1,2-Dichloroethane (1,2-DCA)	ND	0.090	0.50	-	-	-
1,1-Dichloroethene	ND	0.086	0.50	-	-	-
cis-1,2-Dichloroethene	ND	0.050	0.50	-	-	-
trans-1,2-Dichloroethene	ND	0.060	0.50	-	-	-
1,2-Dichloropropane	ND	0.055	0.50	-	-	-
1,3-Dichloropropane	ND	0.10	0.50	-	-	-
2,2-Dichloropropane	ND	0.10	0.50	-	-	-
1,1-Dichloropropene	ND	0.060	0.50	-	-	-

(Cont.)



## Quality Control Report

**Client:** ACC Environmental Consultants, Inc.  
**Date Prepared:** 8/1/19  
**Date Analyzed:** 8/1/19  
**Instrument:** GC16  
**Matrix:** Water  
**Project:** 1744-001.00

**WorkOrder:** 1907D02  
**BatchID:** 182773  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L  
**Sample ID:** MB/LCS/LCSD-182773  
 1907D02-001AMS/MSD

### QC Summary Report for SW8260B

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
cis-1,3-Dichloropropene	ND	0.090	0.50	-	-	-
trans-1,3-Dichloropropene	ND	0.070	0.50	-	-	-
Diisopropyl ether (DIPE)	ND	0.070	0.50	-	-	-
Ethylbenzene	ND	0.050	0.50	-	-	-
Ethyl tert-butyl ether (ETBE)	ND	0.070	0.50	-	-	-
Freon 113	ND	0.066	0.50	-	-	-
Hexachlorobutadiene	ND	0.085	0.50	-	-	-
Hexachloroethane	ND	0.060	0.50	-	-	-
2-Hexanone	ND	0.41	1.0	-	-	-
Isopropylbenzene	ND	0.070	0.50	-	-	-
4-Isopropyl toluene	ND	0.050	0.50	-	-	-
Methyl-t-butyl ether (MTBE)	ND	0.10	0.50	-	-	-
Methylene chloride	ND	1.2	2.0	-	-	-
4-Methyl-2-pentanone (MIBK)	ND	0.24	0.50	-	-	-
Naphthalene	ND	0.45	1.0	-	-	-
n-Propyl benzene	ND	0.060	0.50	-	-	-
Styrene	ND	0.59	2.0	-	-	-
1,1,1,2-Tetrachloroethane	ND	0.070	0.50	-	-	-
1,1,2,2-Tetrachloroethane	ND	0.11	0.50	-	-	-
Tetrachloroethene	ND	0.082	0.50	-	-	-
Toluene	ND	0.25	0.50	-	-	-
1,2,3-Trichlorobenzene	ND	0.25	0.50	-	-	-
1,2,4-Trichlorobenzene	ND	0.086	0.50	-	-	-
1,1,1-Trichloroethane	ND	0.050	0.50	-	-	-
1,1,2-Trichloroethane	ND	0.18	0.50	-	-	-
Trichloroethene	ND	0.060	0.50	-	-	-
Trichlorofluoromethane	ND	0.047	0.50	-	-	-
1,2,3-Trichloropropane	ND	0.14	0.50	-	-	-
1,2,4-Trimethylbenzene	ND	0.065	0.50	-	-	-
1,3,5-Trimethylbenzene	ND	0.070	0.50	-	-	-
Vinyl Chloride	ND	0.070	0.50	-	-	-
m,p-Xylene	ND	0.11	0.50	-	-	-
o-Xylene	ND	0.060	0.50	-	-	-

(Cont.)



## Quality Control Report

**Client:** ACC Environmental Consultants, Inc.  
**Date Prepared:** 8/1/19  
**Date Analyzed:** 8/1/19  
**Instrument:** GC16  
**Matrix:** Water  
**Project:** 1744-001.00

**WorkOrder:** 1907D02  
**BatchID:** 182773  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L  
**Sample ID:** MB/LCS/LCSD-182773  
 1907D02-001AMS/MSD

### QC Summary Report for SW8260B

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
<b>Surrogate Recovery</b>						
Dibromofluoromethane	24			25	95	76-110
Toluene-d8	22			25	89	84-111
4-BFB	1.9			2.5	77	64-121



## Quality Control Report

**Client:** ACC Environmental Consultants, Inc.  
**Date Prepared:** 8/1/19  
**Date Analyzed:** 8/1/19  
**Instrument:** GC16  
**Matrix:** Water  
**Project:** 1744-001.00

**WorkOrder:** 1907D02  
**BatchID:** 182773  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L  
**Sample ID:** MB/LCS/LCSD-182773  
 1907D02-001AMS/MSD

### QC Summary Report for SW8260B

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Acetone	30	34	40	74	84	32-138	12.6	20
tert-Amyl methyl ether (TAME)	3.0	3.4	4	75	85	62-119	13.4	20
Benzene	3.2	3.5	4	79	88	71-126	11.5	20
Bromobenzene	2.8	3.1	4	69	77	66-117	10.7	20
Bromochloromethane	3.1	3.6	4	78	90	67-124	14.8	20
Bromodichloromethane	3.1	3.4	4	77	86	63-119	11.3	20
Bromoform	2.5	3.0	4	63	74	46-117	15.3	20
Bromomethane	4.5	5.0	4	114	126	32-171	9.96	20
2-Butanone (MEK)	12	14	16	77	88	48-136	13.6	20
t-Butyl alcohol (TBA)	12	13	16	73	82	40-131	12.2	20
n-Butyl benzene	3.4	3.7	4	84	92	75-125	9.30	20
sec-Butyl benzene	3.3	3.8	4	84	94	72-120	11.4	20
tert-Butyl benzene	2.8	3.1	4	69	79	63-118	12.8	20
Carbon Disulfide	3.3	3.7	4	82	91	64-126	11.4	20
Carbon Tetrachloride	2.9	3.3	4	73	83	67-122	12.7	20
Chlorobenzene	3.1	3.4	4	76	85	71-117	10.5	20
Chloroethane	3.8	4.2	4	95	104	53-136	9.21	20
Chloroform	3.1	3.5	4	78	88	67-126	11.6	20
Chloromethane	4.1	4.4	4	102	109	42-148	6.52	20
2-Chlorotoluene	3.1	3.5	4	77	86	70-117	11.4	20
4-Chlorotoluene	2.9	3.2	4	72	79	67-117	9.01	20
Dibromochloromethane	2.7	3.0	4	68	76	52-120	12.0	20
1,2-Dibromo-3-chloropropane	1.2	1.4	2	62	68	38-128	8.54	20
1,2-Dibromoethane (EDB)	1.4	1.5	2	70	77	58-117	9.61	20
Dibromomethane	3.0	3.3	4	74	83	66-120	12.1	20
1,2-Dichlorobenzene	2.9	3.3	4	73	81	71-117	11.0	20
1,3-Dichlorobenzene	3.2	3.6	4	80	89	74-116	10.6	20
1,4-Dichlorobenzene	3.1	3.4	4	77	86	71-115	10.8	20
Dichlorodifluoromethane	4.3	4.5	4	106	111	29-145	4.66	20
1,1-Dichloroethane	3.1	3.5	4	78	89	68-128	12.7	20
1,2-Dichloroethane (1,2-DCA)	3.0	3.4	4	75	84	61-123	12.1	20
1,1-Dichloroethene	3.0	3.3	4	75	83	65-126	10.9	20
cis-1,2-Dichloroethene	3.1	3.5	4	78	86	71-122	10.5	20
trans-1,2-Dichloroethene	3.1	3.4	4	76	85	70-126	10.6	20
1,2-Dichloropropane	3.1	3.5	4	78	87	67-124	11.8	20
1,3-Dichloropropane	2.9	3.3	4	72	82	65-120	13.3	20
2,2-Dichloropropane	3.3	3.8	4	84	94	71-127	11.5	20
1,1-Dichloropropene	3.1	3.5	4	78	88	69-122	12.7	20

(Cont.)



## Quality Control Report

**Client:** ACC Environmental Consultants, Inc.  
**Date Prepared:** 8/1/19  
**Date Analyzed:** 8/1/19  
**Instrument:** GC16  
**Matrix:** Water  
**Project:** 1744-001.00

**WorkOrder:** 1907D02  
**BatchID:** 182773  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L  
**Sample ID:** MB/LCS/LCSD-182773  
 1907D02-001AMS/MSD

### QC Summary Report for SW8260B

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
cis-1,3-Dichloropropene	2.9	3.3	4	74	81	63-119	10.0	20
trans-1,3-Dichloropropene	3.0	3.4	4	75	85	63-116	11.7	20
Diisopropyl ether (DIPE)	3.2	3.7	4	81	94	64-128	14.6	20
Ethylbenzene	3.0	3.4	4	76	84	69-120	10.2	20
Ethyl tert-butyl ether (ETBE)	3.1	3.6	4	77	90	63-120	14.7	20
Freon 113	3.0	3.3	4	75	84	67-126	11.2	20
Hexachlorobutadiene	2.7	3.0	4	67	76	50-140	12.4	20
Hexachloroethane	2.7	3.1	4	68	77	52-122	12.4	20
2-Hexanone	2.6	3.2	4	65	80	39-121	20.4,F2	20
Isopropylbenzene	3.0	3.4	4	76	85	69-120	11.6	20
4-Isopropyl toluene	3.3	3.6	4	82	91	72-122	10.2	20
Methyl-t-butyl ether (MTBE)	3.0	3.5	4	75	87	60-121	14.7	20
Methylene chloride	2.9	3.3	4	73	81	40-148	10.3	20
4-Methyl-2-pentanone (MIBK)	2.7	3.1	4	68	77	48-115	12.5	20
Naphthalene	3.5	3.7	4	88	93	62-124	5.57	20
n-Propyl benzene	3.1	3.4	4	76	85	70-118	11.3	20
Styrene	2.9	3.2	4	73	80	57-118	8.95	20
1,1,1,2-Tetrachloroethane	2.7	3.1	4	68	78	63-117	12.9	20
1,1,2,2-Tetrachloroethane	2.7	3.0	4	67	76	60-116	12.9	20
Tetrachloroethene	2.8	3.1	4	70	78	60-131	10.9	20
Toluene	2.9	3.3	4	73	82	67-115	11.2	20
1,2,3-Trichlorobenzene	3.1	3.3	4	78	83	60-128	6.63	20
1,2,4-Trichlorobenzene	3.3	3.5	4	82	87	61-133	5.33	20
1,1,1-Trichloroethane	3.0	3.4	4	76	86	67-124	12.8	20
1,1,2-Trichloroethane	2.8	3.1	4	70	78	62-117	10.5	20
Trichloroethene	3.0	3.3	4	74	83	69-120	10.4	20
Trichlorofluoromethane	3.1	3.5	4	78	87	60-134	11.3	20
1,2,3-Trichloropropane	1.2	1.4	2	61	70	56-120	14.5	20
1,2,4-Trimethylbenzene	3.2	3.6	4	80	90	67-124	11.2	20
1,3,5-Trimethylbenzene	3.2	3.6	4	80	91	69-122	12.7	20
Vinyl Chloride	2.3	2.5	2	115	126	52-145	8.66	20
m,p-Xylene	5.9	6.6	8	74	82	67-119	11.1	20
o-Xylene	3.2	3.6	4	80	89	68-120	9.98	20

(Cont.)



## Quality Control Report

**Client:** ACC Environmental Consultants, Inc.  
**Date Prepared:** 8/1/19  
**Date Analyzed:** 8/1/19  
**Instrument:** GC16  
**Matrix:** Water  
**Project:** 1744-001.00

**WorkOrder:** 1907D02  
**BatchID:** 182773  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L  
**Sample ID:** MB/LCS/LCSD-182773  
 1907D02-001AMS/MSD

### QC Summary Report for SW8260B

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
<b>Surrogate Recovery</b>								
Dibromofluoromethane	24	24	25	94	96	76-110	1.34	20
Toluene-d8	22	22	25	90	89	84-111	1.05	20
4-BFB	1.9	2.0	2.5	78	79	64-121	1.83	20

Analyte	MS DF	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Acetone	1	39	44	40	ND	98	110	32-183	11.4	20
tert-Amyl methyl ether (TAME)	1	4.1	4.3	4	ND	102	108	52-152	5.81	20
Benzene	1	3.9	4.1	4	ND	98	103	62-143	4.64	20
Bromobenzene	1	3.4	3.5	4	ND	86	88	52-139	2.04	20
Bromochloromethane	1	4.0	4.3	4	ND	101	107	53-154	5.86	20
Bromodichloromethane	1	3.9	4.1	4	ND	98	102	49-147	3.47	20
Bromoform	1	3.4	3.8	4	ND	86	94	32-153	9.58	20
Bromomethane	1	4.6	5.0	4	ND	114	124	18-181	7.96	20
2-Butanone (MEK)	1	15	17	16	ND	95	107	46-173	12.3	20
t-Butyl alcohol (TBA)	1	15	17	16	ND	91	106	25-198	15.1	20
n-Butyl benzene	1	3.9	4.0	4	ND	97	101	53-147	4.00	20
sec-Butyl benzene	1	4.1	4.3	4	ND	103	108	54-138	4.68	20
tert-Butyl benzene	1	3.4	3.6	4	ND	85	91	48-134	6.37	20
Carbon Disulfide	1	3.6	3.8	4	ND	90	94	46-148	5.26	20
Carbon Tetrachloride	1	3.6	3.8	4	ND	89	94	50-143	5.36	20
Chlorobenzene	1	3.8	3.9	4	ND	95	98	56-139	3.19	20
Chloroethane	1	4.3	4.4	4	ND	106	111	31-158	3.88	20
Chloroform	1	4.0	4.1	4	ND	98	102	38-161	4.27	20
Chloromethane	1	3.8	4.0	4	ND	95	100	24-158	4.90	20
2-Chlorotoluene	1	3.9	4.0	4	ND	97	101	53-136	4.12	20
4-Chlorotoluene	1	3.5	3.6	4	ND	89	91	51-136	2.73	20
Dibromochloromethane	1	3.5	3.6	4	ND	86	91	55-135	4.88	20
1,2-Dibromo-3-chloropropane	1	1.6	1.7	2	ND	79	86	26-168	8.70	20
1,2-Dibromoethane (EDB)	1	1.7	1.8	2	ND	87	91	50-146	4.54	20
Dibromomethane	1	3.9	4.1	4	ND	98	102	54-152	3.77	20
1,2-Dichlorobenzene	1	3.6	3.7	4	ND	91	93	55-143	2.16	20
1,3-Dichlorobenzene	1	4.1	4.2	4	ND	101	106	56-139	4.11	20
1,4-Dichlorobenzene	1	3.8	3.9	4	ND	94	99	54-138	4.64	20
Dichlorodifluoromethane	1	2.6	2.7	4	ND	66	68	15-152	3.51	20

(Cont.)



## Quality Control Report

**Client:** ACC Environmental Consultants, Inc.  
**Date Prepared:** 8/1/19  
**Date Analyzed:** 8/1/19  
**Instrument:** GC16  
**Matrix:** Water  
**Project:** 1744-001.00

**WorkOrder:** 1907D02  
**BatchID:** 182773  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L  
**Sample ID:** MB/LCS/LCSD-182773  
 1907D02-001AMS/MSD

### QC Summary Report for SW8260B

Analyte	MS DF	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
1,1-Dichloroethane	1	3.9	4.1	4	ND	98	103	52-151	5.12	20
1,2-Dichloroethane (1,2-DCA)	1	3.9	4.1	4	ND	97	103	46-154	5.81	20
1,1-Dichloroethene	1	3.4	3.6	4	ND	86	91	47-149	6.11	20
cis-1,2-Dichloroethene	1	4.2	4.5	4	ND	97	103	41-158	6.17	20
trans-1,2-Dichloroethene	1	3.8	4.0	4	ND	92	98	51-151	6.05	20
1,2-Dichloropropane	1	4.0	4.2	4	ND	100	104	52-150	3.90	20
1,3-Dichloropropane	1	3.7	4.0	4	ND	94	99	53-149	5.84	20
2,2-Dichloropropane	1	4.2	4.2	4	ND	104	106	51-150	1.77	20
1,1-Dichloropropene	1	3.9	4.0	4	ND	97	101	53-142	4.73	20
cis-1,3-Dichloropropene	1	3.7	3.8	4	ND	91	95	49-143	4.27	20
trans-1,3-Dichloropropene	1	3.8	4.0	4	ND	96	100	49-145	4.21	20
Diisopropyl ether (DIPE)	1	4.3	4.5	4	ND	107	113	51-155	5.43	20
Ethylbenzene	1	3.8	3.9	4	ND	94	97	63-130	3.77	20
Ethyl tert-butyl ether (ETBE)	1	4.2	4.5	4	ND	105	112	50-153	5.93	20
Freon 113	1	3.4	3.6	4	ND	85	90	50-146	5.59	20
Hexachlorobutadiene	1	3.1	3.0	4	ND	78	76	30-163	3.31	20
Hexachloroethane	1	3.4	3.4	4	ND	85	85	26-157	0	20
2-Hexanone	1	3.6	4.2	4	ND	90	106	21-180	16.0	20
Isopropylbenzene	1	3.8	3.9	4	ND	94	96	50-140	2.46	20
4-Isopropyl toluene	1	3.9	4.1	4	ND	96	102	53-142	5.79	20
Methyl-t-butyl ether (MTBE)	1	4.2	4.5	4	ND	101	110	51-157	7.61	20
Methylene chloride	1	3.5	3.7	4	ND	88	93	23-177	5.20	20
4-Methyl-2-pentanone (MIBK)	1	3.8	4.0	4	ND	94	101	43-155	7.19	20
Naphthalene	1	3.9	4.3	4	ND	98	107	47-166	9.16	20
n-Propyl benzene	1	3.7	3.9	4	ND	93	97	45-146	4.17	20
Styrene	1	3.8	3.8	4	ND	94	96	26-150	2.02	20
1,1,1,2-Tetrachloroethane	1	3.5	3.8	4	ND	88	94	49-141	6.53	20
1,1,2,2-Tetrachloroethane	1	3.5	3.7	4	ND	87	92	44-159	5.02	20
Tetrachloroethene	1	3.7	3.6	4	ND	88	88	22-164	0	20
Toluene	1	3.6	3.7	4	ND	90	93	50-135	3.99	20
1,2,3-Trichlorobenzene	1	3.7	3.7	4	ND	93	92	40-165	0.339	20
1,2,4-Trichlorobenzene	1	3.9	3.9	4	ND	96	98	44-162	1.82	20
1,1,1-Trichloroethane	1	3.7	3.9	4	ND	93	99	51-144	6.18	20
1,1,2-Trichloroethane	1	3.6	3.8	4	ND	90	95	50-149	5.44	20
Trichloroethene	1	4.2	4.3	4	ND	92	95	33-159	2.82	20
Trichlorofluoromethane	1	3.3	3.6	4	ND	83	90	47-151	7.03	20
1,2,3-Trichloropropane	1	1.6	1.7	2	ND	80	85	45-158	5.90	20
1,2,4-Trimethylbenzene	1	3.9	4.1	4	ND	97	102	61-132	4.72	20

(Cont.)



## Quality Control Report

**Client:** ACC Environmental Consultants, Inc.  
**Date Prepared:** 8/1/19  
**Date Analyzed:** 8/1/19  
**Instrument:** GC16  
**Matrix:** Water  
**Project:** 1744-001.00

**WorkOrder:** 1907D02  
**BatchID:** 182773  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L  
**Sample ID:** MB/LCS/LCSD-182773  
 1907D02-001AMS/MSD

### QC Summary Report for SW8260B

Analyte	MS DF	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
1,3,5-Trimethylbenzene	1	3.9	4.0	4	ND	98	101	35-159	3.33	20
Vinyl Chloride	1	2.4	2.5	2	ND	121	126	34-161	4.26	20
m,p-Xylene	1	7.4	7.7	8	ND	93	96	63-126	4.12	20
o-Xylene	1	4.1	4.3	4	ND	102	107	43-153	4.88	20
<b>Surrogate Recovery</b>										
Dibromofluoromethane	1	24	24	25		96	97	78-112	1.54	20
Toluene-d8	1	22	22	25		87	87	82-109	0	20
4-BFB	1	1.9	1.9	2.5		77	76	63-121	2.31	20





1534 Willow Pass Rd  
Pittsburg, CA 94565-1701  
(925) 252-9262

# CHAIN-OF-CUSTODY RECORD

WorkOrder: 1907D02

ClientCode: ACCE

- WaterTrax   
  WriteOn   
  EDF   
  Excel   
  EQulS   
  Email   
  HardCopy   
  ThirdParty   
  J-flag  
 Detection Summary   
  Dry-Weight

Report to:  
Kim Bunting  
ACC Environmental Consultants, Inc.  
7977 Capwell Drive , Suite 100  
Oakland, CA 94621  
(510) 638-8400    FAX: (510) 638-8404

Email: isutherland@accenv.com; kbunting@accenv.com  
cc/3rd Party:  
PO:  
Project: 1744-001.00

Bill to:  
Accounts Payable  
ACC Environmental Consultants, Inc.  
7977 Capwell Drive , Suite 100  
Oakland, CA 94621  
cindy.lee@accenv.com

Requested TAT: 5 days;  
  
Date Received: 07/26/2019  
Date Logged: 07/26/2019

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)													
					1	2	3	4	5	6	7	8	9	10	11	12		
1907D02-001	B1-W	Water	7/25/2019 10:25	<input type="checkbox"/>	A													
1907D02-002	B2-W	Water	7/25/2019 10:50	<input type="checkbox"/>	A													
1907D02-003	B3-W	Water	7/25/2019 11:08	<input type="checkbox"/>	A													
1907D02-004	B4-W	Water	7/25/2019 09:27	<input type="checkbox"/>	A													
1907D02-005	B5-W	Water	7/25/2019 08:50	<input type="checkbox"/>	A													
1907D02-006	B6-W	Water	7/25/2019 10:02	<input type="checkbox"/>	A													
1907D02-007	B7-W	Water	7/25/2019 09:05	<input type="checkbox"/>	A													

**Test Legend:**

1	8260B_W	2		3		4	
5		6		7		8	
9		10		11		12	

Project Manager: Rosa Venegas

Prepared by: Lilly Ortiz

**Comments:**

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days). Hazardous samples will be returned to client or disposed of at client expense.



### WORK ORDER SUMMARY

**Client Name:** ACC ENVIRONMENTAL CONSULTANTS, INC.

**Project:** 1744-001.00

**Work Order:** 1907D02

**Client Contact:** Kim Bunting

**QC Level:** LEVEL 2

**Contact's Email:** isutherland@accenv.com; kbunting@accenv.com

**Comments**

**Date Logged:** 7/26/2019

WaterTrax     WriteOn     EDF     Excel     EQUIS     Email     HardCopy     ThirdParty     J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1907D02-001A	B1-W	Water	SW8260B (VOCs)	2	VOA w/ HCl	<input type="checkbox"/>	7/25/2019 10:25	5 days	Present	<input type="checkbox"/>	
1907D02-002A	B2-W	Water	SW8260B (VOCs)	2	VOA w/ HCl	<input type="checkbox"/>	7/25/2019 10:50	5 days	Present	<input type="checkbox"/>	
1907D02-003A	B3-W	Water	SW8260B (VOCs)	2	VOA w/ HCl	<input type="checkbox"/>	7/25/2019 11:08	5 days	Present	<input type="checkbox"/>	
1907D02-004A	B4-W	Water	SW8260B (VOCs)	2	VOA w/ HCl	<input type="checkbox"/>	7/25/2019 9:27	5 days	Present	<input type="checkbox"/>	
1907D02-005A	B5-W	Water	SW8260B (VOCs)	2	VOA w/ HCl	<input type="checkbox"/>	7/25/2019 8:50	5 days	Present	<input type="checkbox"/>	
1907D02-006A	B6-W	Water	SW8260B (VOCs)	2	VOA w/ HCl	<input type="checkbox"/>	7/25/2019 10:02	5 days	Present	<input type="checkbox"/>	
1907D02-007A	B7-W	Water	SW8260B (VOCs)	2	VOA w/ HCl	<input type="checkbox"/>	7/25/2019 9:05	5 days	Present	<input type="checkbox"/>	

**NOTES:** - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

1907202



**MCCAMPBELL ANALYTICAL, INC.**

1534 Willow Pass Rd. Pittsburg, Ca. 94565-1701  
 Telephone: (877) 252-9262 / Fax: (925) 252-9269  
 www.mccampbell.com main@mccampbell.com

Report To: Kim Ranting Bill To: ACC

Company: ACC Environmental Consultants

Address: 1534 Willow Pass Rd. Pittsburg, Ca. 94565-1701

Email: kranting@accenv.com Tele: 510-6038-8423x118

Project #: 1744-001-00

Project Location: 3705 Heaven Ave Maple Park PO #

Sampler Signature: [Signature]

SAMPLE ID Location / Field Point	Sampling		#Containers	Matrix	Preservative	Multi Range as Gas, Diesel, and Motor Oil (8021/8015)	BTX & TPH as Gas (8021/ 8015) MTBE	TPH as Diesel (8015) + Motor Oil Without Silica Gel	TPH as Diesel (8015) + Motor Oil With Silica Gel	Total Oil & Grease (1664 / 9071) Without Silica Gel	Total Petroleum Hydrocarbons - Oil & Grease (1664 / 9071) With Silica Gel	Total Petroleum Hydrocarbons (418.1) With Silica Gel	EPA 505/ 608 / 8081 (CI Pesticides)	EPA 608 / 8082 PCB's ; Aroclors only	EPA 524.2 / 624 / 8260 (VOCs)	EPA 525.2 / 625 / 8270 (SVOCs)	EPA 8270 SIM / 8310 (PAHs / PNAs)	CAM 17 Metals (200.8 / 6020)*	Metals (200.8 / 6020)*	Baylands Requirements	Lab to filter sample for dissolved metals analysis	
	Date	Time																				
B1-W	7/25	10:25	2	GLD	1,2																	
B2-W	7/25	10:50	2	GLD	1																	
B3-W	7/25	11:08	2	GLD	1																	
B4-W	7/25	9:27	2	GLD	1,2																	
B5-W	7/25	8:50	2	GLD	1,2																	
B6-W	7/25	10:02	2	GLD	1,2																	
B7-W	7/25	9:05	2	GLD	1,2																	

MAI clients MUST disclose any dangerous chemicals known to be present in their submitted samples in concentrations that may cause immediate harm or serious future health endangerment as a result of brief, gloved, open air, sample handling by MAI staff. Non-disclosure incurs an immediate \$250 surcharge and the client is subject to full legal liability for harm suffered. Thank you for your understanding and for allowing us to work safely.

\* If metals are requested for water samples and the water type (Matrix) is not specified on the chain of custody, MAI will default to metals by E200.8.

Please provide an adequate volume of sample. If the volume is not sufficient for a MS/MSD a LCS/LCSD will be prepared in its place and noted in the report.

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
<u>[Signature]</u>	7/24	12:00	<u>[Signature]</u>	7/26/19	0945
<u>[Signature]</u>	7/24/19	1525	<u>[Signature]</u>	7/26/19	1525

Matrix Code: DW=Drinking Water, GW=Ground Water, WW=Waste Water, SW=Seawater, S=Soil, SL=Sludge, A=Air, WP=Wipe, O=Other  
 Preservative Code: 1=4°C 2=HCl 3=H<sub>2</sub>SO<sub>4</sub> 4=HNO<sub>3</sub> 5=NaOH 6=ZnOAc/NaOH 7=None

Comments / Instructions

Temp 18°C Initials zo



## Sample Receipt Checklist

Client Name: **ACC Environmental Consultants, Inc.**  
 Project: **1744-001.00**  
 WorkOrder No: **1907D02** Matrix: Water  
 Carrier: Lorenzo Perez (MAI Courier)

Date and Time Received: **7/26/2019 15:25**  
 Date Logged: **7/26/2019**  
 Received by: Lilly Ortiz  
 Logged by: Lilly Ortiz

### Chain of Custody (COC) Information

Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample IDs noted by Client on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Date and Time of collection noted by Client on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sampler's name noted on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
COC agrees with Quote?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>

### Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper containers/bottles?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	

### Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	NA <input type="checkbox"/>
Samples Received on Ice?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	

(Ice Type: WET ICE )

Sample/Temp Blank temperature	Temp: 0.2°C		NA <input type="checkbox"/>
Water - VOA vials have zero headspace / no bubbles?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	NA <input type="checkbox"/>
Sample labels checked for correct preservation?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
pH acceptable upon receipt (Metal: <2; Nitrate 353.2/4500NO3: <2; 522: <4; 218.7: >8)?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>

#### UCMR Samples:

pH tested and acceptable upon receipt (200.8: ≤2; 525.3: ≤4; 530: ≤7; 541: <3; 544: <6.5 & 7.5)?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
Free Chlorine tested and acceptable upon receipt (<0.1mg/L)?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>

-----  
 Comments:

9/26/2019

Ms. Kim Bunting  
ACC Environmental Consultants  
7977 Capwell Drive  
Suite 100  
Oakland CA 94621

Project Name: 3705 Haven Ave  
Project #: 1744-001-01  
Workorder #: 1909272

Dear Ms. Kim Bunting

The following report includes the data for the above referenced project for sample(s) received on 9/13/2019 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-15 SIM are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics Inc. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Sarah Westerman at 916-985-1000 if you have any questions regarding the data in this report.

Regards,



Sarah Westerman  
Project Manager

**WORK ORDER #: 1909272**

Work Order Summary

<b>CLIENT:</b>	Ms. Kim Bunting ACC Environmental Consultants 7977 Capwell Drive Suite 100 Oakland, CA 94621	<b>BILL TO:</b>	Ms. Kim Bunting ACC Environmental Consultants 7977 Capwell Drive Suite 100 Oakland, CA 94621
<b>PHONE:</b>	510-638-8400	<b>P.O. #</b>	
<b>FAX:</b>	510-638-8404	<b>PROJECT #</b>	1744-001-01 3705 Haven Ave
<b>DATE RECEIVED:</b>	09/13/2019	<b>CONTACT:</b>	Sarah Westerman
<b>DATE COMPLETED:</b>	09/26/2019		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
01A	IA1	Modified TO-15 SIM	5.0 "Hg	5 psi
02A	IA2	Modified TO-15 SIM	6.0 "Hg	5 psi
03A	IA3	Modified TO-15 SIM	5.5 "Hg	5 psi
04A	IA4	Modified TO-15 SIM	6.0 "Hg	5 psi
05A	Lab Blank	Modified TO-15 SIM	NA	NA
06A	CCV	Modified TO-15 SIM	NA	NA
07A	LCS	Modified TO-15 SIM	NA	NA
07AA	LCSD	Modified TO-15 SIM	NA	NA

CERTIFIED BY:   
 \_\_\_\_\_  
 Technical Director

DATE: 09/26/19

Certification numbers: AZ Licensure AZ0775, FL NELAP – E87680, LA NELAP – 02089, NH NELAP - 209218, NJ NELAP - CA016, NY NELAP - 11291, TX NELAP - T104704434-18-13, UT NELAP – CA009332019-11, VA NELAP - 460197, WA NELAP - C935  
 Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)  
 Accreditation number: CA300005-011, Effective date: 10/18/2018, Expiration date: 10/17/2019.

Eurofins Air Toxics Inc.. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Eurofins Air Toxics, Inc.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630  
 (916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020



**LABORATORY NARRATIVE**  
**Modified TO-15 SIM**  
**ACC Environmental Consultants**  
**Workorder# 1909272**

Four 6 Liter Summa Canister (100% SIM Ambient) samples were received on September 13, 2019. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the SIM acquisition mode.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

<i>Requirement</i>	<i>TO-15</i>	<i>ATL Modifications</i>
ICAL %RSD acceptance criteria	<math>\leq 30\%</math> RSD with 2 compounds allowed out to <math>< 40\%</math> RSD	Project specific; default criteria is <math>\leq 30\%</math> RSD with 10% of compounds allowed out to <math>< 40\%</math> RSD
Daily Calibration	+/- 30% Difference	Project specific; default criteria is <math>\leq 30\%</math> Difference with 10% of compounds allowed out up to <math>\leq 40\%</math>.; flag and narrate outliers
Blank and standards	Zero air	Nitrogen
Method Detection Limit	Follow 40CFR Pt.136 App. B	The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases

### **Receiving Notes**

The Chain of Custody (COC) information for sample IA2 did not match the information on the canister with regard to canister barcode. The sample labeled 6L0886 on the COC is labeled as 6L0880 on the canister. The client was notified of the discrepancy and the information on the canister was used to process and report the sample.

### **Analytical Notes**

As per client project requirements, the laboratory has reported estimated values for target compound hits that are below the Reporting Limit but greater than the Method Detection Limit. Concentrations that are below the level at which the canister was certified may be false positives.

### **Definition of Data Qualifying Flags**

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

- B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).
- J - Estimated value.
- E - Exceeds instrument calibration range.
- S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit, LOD, or MDL value. See data page for project specific U-flag definition.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue





Air Toxics

MODIFIED EPA METHOD TO-15 GC/MS SIM  
3705 Haven Ave

<b>Client ID:</b>	IA1	<b>Date/Time Analyzed:</b>	9/17/19 07:48 PM
<b>Lab ID:</b>	1909272-01A	<b>Dilution Factor:</b>	1.61
<b>Date/Time Collected:</b>	9/10/19 04:32 PM	<b>Instrument/File name:</b>	msd20.i / 20091717sim
<b>Media:</b>	6 Liter Summa Canister (100% SIM Ambient)		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
cis-1,2-Dichloroethene	156-59-2	0.022	0.038	0.13	Not Detected
Tetrachloroethene	127-18-4	0.018	0.066	0.22	0.96
trans-1,2-Dichloroethene	156-60-5	0.028	0.038	0.64	0.033 J
Trichloroethene	79-01-6	0.017	0.052	0.17	0.096 J
Vinyl Chloride	75-01-4	0.010	0.025	0.041	Not Detected

J = Estimated value.

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	100
4-Bromofluorobenzene	460-00-4	70-130	91
Toluene-d8	2037-26-5	70-130	100



Air Toxics

MODIFIED EPA METHOD TO-15 GC/MS SIM  
3705 Haven Ave

<b>Client ID:</b> IA2	<b>Date/Time Analyzed:</b> 9/17/19 09:04 PM
<b>Lab ID:</b> 1909272-02A	<b>Dilution Factor:</b> 1.68
<b>Date/Time Collected:</b> 9/10/19 04:35 PM	<b>Instrument/File name:</b> msd20.i / 20091718sim
<b>Media:</b> 6 Liter Summa Canister (100% SIM Ambient)	

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
cis-1,2-Dichloroethene	156-59-2	0.023	0.040	0.13	Not Detected
Tetrachloroethene	127-18-4	0.019	0.068	0.23	0.85
trans-1,2-Dichloroethene	156-60-5	0.029	0.040	0.67	Not Detected
Trichloroethene	79-01-6	0.018	0.054	0.18	0.070 J
Vinyl Chloride	75-01-4	0.011	0.026	0.043	Not Detected

J = Estimated value.

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	101
4-Bromofluorobenzene	460-00-4	70-130	94
Toluene-d8	2037-26-5	70-130	101



Air Toxics

MODIFIED EPA METHOD TO-15 GC/MS SIM  
3705 Haven Ave

<b>Client ID:</b> IA3	<b>Date/Time Analyzed:</b> 9/17/19 11:01 PM
<b>Lab ID:</b> 1909272-03A	<b>Dilution Factor:</b> 1.64
<b>Date/Time Collected:</b> 9/10/19 04:37 PM	<b>Instrument/File name:</b> msd20.i / 20091721sim
<b>Media:</b> 6 Liter Summa Canister (100% SIM Ambient)	

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
cis-1,2-Dichloroethene	156-59-2	0.022	0.039	0.13	Not Detected
Tetrachloroethene	127-18-4	0.019	0.067	0.22	0.87
trans-1,2-Dichloroethene	156-60-5	0.028	0.039	0.65	Not Detected
Trichloroethene	79-01-6	0.017	0.053	0.18	0.079 J
Vinyl Chloride	75-01-4	0.011	0.025	0.042	Not Detected

J = Estimated value.

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	100
4-Bromofluorobenzene	460-00-4	70-130	95
Toluene-d8	2037-26-5	70-130	100

MODIFIED EPA METHOD TO-15 GC/MS SIM  
3705 Haven Ave

<b>Client ID:</b>	IA4	<b>Date/Time Analyzed:</b>	9/17/19 11:40 PM
<b>Lab ID:</b>	1909272-04A	<b>Dilution Factor:</b>	1.68
<b>Date/Time Collected:</b>	9/10/19 04:47 PM	<b>Instrument/File name:</b>	msd20.i / 20091722sim
<b>Media:</b>	6 Liter Summa Canister (100% SIM Ambient)		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
cis-1,2-Dichloroethene	156-59-2	0.023	0.040	0.13	Not Detected
Tetrachloroethene	127-18-4	0.019	0.068	0.23	0.046 J
trans-1,2-Dichloroethene	156-60-5	0.029	0.040	0.67	Not Detected
Trichloroethene	79-01-6	0.018	0.054	0.18	Not Detected
Vinyl Chloride	75-01-4	0.011	0.026	0.043	Not Detected

J = Estimated value.

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	103
4-Bromofluorobenzene	460-00-4	70-130	87
Toluene-d8	2037-26-5	70-130	103

MODIFIED EPA METHOD TO-15 GC/MS SIM  
3705 Haven Ave

<b>Client ID:</b>	Lab Blank	<b>Date/Time Analyzed:</b>	9/17/19 11:50 AM
<b>Lab ID:</b>	1909272-05A	<b>Dilution Factor:</b>	1.00
<b>Date/Time Collected:</b>	NA - Not Applicable	<b>Instrument/File name:</b>	msd20.i / 20091706sima
<b>Media:</b>	NA - Not Applicable		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
cis-1,2-Dichloroethene	156-59-2	0.014	0.024	0.079	Not Detected
Tetrachloroethene	127-18-4	0.011	0.041	0.14	0.037 J
trans-1,2-Dichloroethene	156-60-5	0.017	0.024	0.40	Not Detected
Trichloroethene	79-01-6	0.010	0.032	0.11	Not Detected
Vinyl Chloride	75-01-4	0.0065	0.015	0.026	Not Detected

J = Estimated value.

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	104
4-Bromofluorobenzene	460-00-4	70-130	86
Toluene-d8	2037-26-5	70-130	104

MODIFIED EPA METHOD TO-15 GC/MS SIM  
3705 Haven Ave

<b>Client ID:</b>	CCV	<b>Date/Time Analyzed:</b>	9/17/19 08:35 AM
<b>Lab ID:</b>	1909272-06A	<b>Dilution Factor:</b>	1.00
<b>Date/Time Collected:</b>	NA - Not Applicable	<b>Instrument/File name:</b>	msd20.i / 20091702.sim
<b>Media:</b>	NA - Not Applicable		

Compound	CAS#	%Recovery
cis-1,2-Dichloroethene	156-59-2	96
Tetrachloroethene	127-18-4	105
trans-1,2-Dichloroethene	156-60-5	100
Trichloroethene	79-01-6	104
Vinyl Chloride	75-01-4	93

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	91
4-Bromofluorobenzene	460-00-4	70-130	95
Toluene-d8	2037-26-5	70-130	109



Air Toxics

MODIFIED EPA METHOD TO-15 GC/MS SIM  
3705 Haven Ave

<b>Client ID:</b> LCS	<b>Date/Time Analyzed:</b> 9/17/19 09:29 AM
<b>Lab ID:</b> 1909272-07A	<b>Dilution Factor:</b> 1.00
<b>Date/Time Collected:</b> NA - Not Applicable	<b>Instrument/File name:</b> msd20.i / 20091703sim
<b>Media:</b> NA - Not Applicable	

Compound	CAS#	%Recovery
cis-1,2-Dichloroethene	156-59-2	86
Tetrachloroethene	127-18-4	110
trans-1,2-Dichloroethene	156-60-5	106
Trichloroethene	79-01-6	105
Vinyl Chloride	75-01-4	97

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	89
4-Bromofluorobenzene	460-00-4	70-130	94
Toluene-d8	2037-26-5	70-130	107

\* % Recovery is calculated using unrounded analytical results.



Air Toxics

MODIFIED EPA METHOD TO-15 GC/MS SIM  
3705 Haven Ave

<b>Client ID:</b> LCSD	<b>Date/Time Analyzed:</b> 9/17/19 10:08 AM
<b>Lab ID:</b> 1909272-07AA	<b>Dilution Factor:</b> 1.00
<b>Date/Time Collected:</b> NA - Not Applicable	<b>Instrument/File name:</b> msd20.i / 20091704sim
<b>Media:</b> NA - Not Applicable	

Compound	CAS#	%Recovery
cis-1,2-Dichloroethene	156-59-2	86
Tetrachloroethene	127-18-4	107
trans-1,2-Dichloroethene	156-60-5	105
Trichloroethene	79-01-6	103
Vinyl Chloride	75-01-4	96

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	88
4-Bromofluorobenzene	460-00-4	70-130	93
Toluene-d8	2037-26-5	70-130	106

\* % Recovery is calculated using unrounded analytical results.



## Appendix D ENVIRONMENTAL AGENCY DATABASE SEARCH REPORT



**3705 Haven Avenue**  
3705 Haven Avenue  
Menlo Park, CA 94025

Inquiry Number: 7227915.2s  
January 18, 2023

# The EDR Radius Map™ Report with GeoCheck®



6 Armstrong Road, 4th floor  
Shelton, CT 06484  
Toll Free: 800.352.0050  
[www.edrnet.com](http://www.edrnet.com)

# TABLE OF CONTENTS

SECTION	PAGE
Executive Summary .....	ES1
Overview Map .....	2
Detail Map .....	3
Map Findings Summary .....	4
Map Findings .....	9
Orphan Summary .....	844
Government Records Searched/Data Currency Tracking .....	GR-1
<b><u>GEOCHECK ADDENDUM</u></b>	
Physical Setting Source Addendum .....	A-1
Physical Setting Source Summary .....	A-2
Physical Setting SSURGO Soil Map .....	A-6
Physical Setting Source Map .....	A-11
Physical Setting Source Map Findings .....	A-13
Physical Setting Source Records Searched .....	PSGR-1

***Thank you for your business.***  
Please contact EDR at 1-800-352-0050  
with any questions or comments.

### Disclaimer - Copyright and Trademark Notice

This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, LLC. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. This Report is provided on an "AS IS", "AS AVAILABLE" basis. **NO WARRANTY EXPRESS OR IMPLIED IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, LLC AND ITS SUBSIDIARIES, AFFILIATES AND THIRD PARTY SUPPLIERS DISCLAIM ALL WARRANTIES, OF ANY KIND OR NATURE, EXPRESS OR IMPLIED, ARISING OUT OF OR RELATED TO THIS REPORT OR ANY OF THE DATA AND INFORMATION PROVIDED IN THIS REPORT, INCLUDING WITHOUT LIMITATION, ANY WARRANTIES REGARDING ACCURACY, QUALITY, CORRECTNESS, COMPLETENESS, COMPREHENSIVENESS, SUITABILITY, MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, TITLE, NON-INFRINGEMENT, MISAPPROPRIATION, OR OTHERWISE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, LLC OR ITS SUBSIDIARIES, AFFILIATES OR THIRD PARTY SUPPLIERS BE LIABLE TO ANYONE FOR ANY DIRECT, INCIDENTAL, INDIRECT, SPECIAL, CONSEQUENTIAL OR OTHER DAMAGES OF ANY TYPE OR KIND (INCLUDING BUT NOT LIMITED TO LOSS OF PROFITS, LOSS OF USE, OR LOSS OF DATA) INFORMATION PROVIDED IN THIS REPORT.** Any analyses, estimates, ratings, environmental risk levels, or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction or forecast of, any environmental risk for any property. Only an assessment performed by a qualified environmental professional can provide findings, opinions or conclusions regarding the environmental risk or conditions in, on or at any property.

Copyright 2023 by Environmental Data Resources, LLC. All rights reserved. Reproduction in any media or format, in whole or in part, of any report or map of Environmental Data Resources, LLC, or its affiliates, is prohibited without prior written permission.

EDR and its logos (including Sanborn and Sanborn Map) are trademarks of Environmental Data Resources, LLC or its affiliates. All other trademarks used herein are the property of their respective owners.

## EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E1527-21), the ASTM Standard Practice for Environmental Site Assessments for Forestland or Rural Property (E 2247-16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E 1528-14) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

### TARGET PROPERTY INFORMATION

#### ADDRESS

3705 HAVEN AVENUE  
MENLO PARK, CA 94025

#### COORDINATES

Latitude (North): 37.4855540 - 37° 29' 7.99"  
Longitude (West): 122.1822290 - 122° 10' 56.02"  
Universal Transverse Mercator: Zone 10  
UTM X (Meters): 572299.2  
UTM Y (Meters): 4148848.2  
Elevation: 10 ft. above sea level

### USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map: 12016467 PALO ALTO, CA  
Version Date: 2018  
  
North Map: 12016475 REDWOOD POINT, CA  
Version Date: 2018

### AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from: 20140608  
Source: USDA

MAPPED SITES SUMMARY

Target Property Address:  
3705 HAVEN AVENUE  
MENLO PARK, CA 94063

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
<a href="#">A1</a>	THYSEN MANAGEMENT CO	3705 HAVEN AVE	CA RGA LUST		TP
<a href="#">A2</a>	THYSEN MANAGEMENT CO	3705 HAVEN AVE	CA LUST, CA CPS-SLIC, CA San Mateo Co. BI, CA...		TP
<a href="#">A3</a>	SILTEC	3705-3723 HAVEN AVEN	FINDS		TP
<a href="#">A4</a>	THYSEN MANAGEMENT CO	3705 HAVEN AVE	CA RGA LUST		TP
<a href="#">A5</a>	B S G ASSOCIATES	3705 HAVEN AVENUE	CA HAZNET, CA HWTS		TP
<a href="#">A6</a>	THYSEN MGMT. CO.	3705 HAVEN AVENUE	CA HWTS		TP
<a href="#">A7</a>	THYSEN MANAGEMENT CO	3705 HAVEN AVE	FINDS		TP
<a href="#">A8</a>	SILTEC	3705-3723 HAVEN AVEN	CA CPS-SLIC, CA CERS		TP
<a href="#">A9</a>	SILTECH	3705-3723 HAVEN AVE	CA SPILLS 90		TP
<a href="#">A10</a>	INDUSTRIAL GARDEN MA	3700 HAVEN AVE	CA HIST UST	Higher	60, 0.011, SW
<a href="#">A11</a>	LUIS VASQUEZ MULCH S	3665 HAVEN AVEUNE	CA SWF/LF	Lower	91, 0.017, NNW
<a href="#">A12</a>	ACHELOIS BIOPHARMA	3698 HAVEN AVE STE A	RCRA NonGen / NLR	Higher	131, 0.025, WSW
<a href="#">A13</a>	ACHELOIS ONCOLOGY IN	3698 HAVEN	CA San Mateo Co. BI	Higher	131, 0.025, WSW
<a href="#">A14</a>	SILTEC CORPORATION (	3698 HAVEN AVE	CA HIST UST	Higher	131, 0.025, WSW
<a href="#">A15</a>	CARDIOKINETIX INC	3698 HAVEN	CA San Mateo Co. BI	Higher	131, 0.025, WSW
<a href="#">A16</a>	BAROSENSE INC	3698 HAVEN	CA San Mateo Co. BI	Higher	131, 0.025, WSW
<a href="#">A17</a>	EOPLEX TECHNOLOGIES	3698 HAVEN	CA San Mateo Co. BI	Higher	131, 0.025, WSW
<a href="#">A18</a>	CHEMO CENTRYX	3696 HAVEN	CA San Mateo Co. BI	Higher	148, 0.028, WSW
<a href="#">A19</a>	ADVANCED POLYMER SYS	3696 HAVEN	CA San Mateo Co. BI	Higher	148, 0.028, WSW
<a href="#">A20</a>	SYNTHEGO CORP	3696 HAVEN AVE STE A	CA CERS HAZ WASTE, CA HAZNET, CA CERS, CA HWTS	Higher	148, 0.028, WSW
<a href="#">A21</a>	KOVIO, INC	3696 HAVEN	CA San Mateo Co. BI	Higher	148, 0.028, WSW
<a href="#">A22</a>	SYNTHEGO HAVEN	3696 HAVEN AVENUE	RCRA-LQG, CA HAZNET	Higher	148, 0.028, WSW
<a href="#">A23</a>	SYNTHEGO CORP	3696 HAVEN AVE, SUIT	RCRA-LQG	Higher	148, 0.028, WSW
<a href="#">A24</a>	ENVIVO PHARMACEUTICA	3696C HAVEN	CA San Mateo Co. BI	Higher	148, 0.028, WSW
<a href="#">A25</a>	NANOSTELLAR INC	3696 HAVEN	CA San Mateo Co. BI	Higher	148, 0.028, WSW
<a href="#">A26</a>	UBIQUITOUS ENERGY	3696 HAVEN	CA San Mateo Co. BI	Higher	148, 0.028, WSW
<a href="#">A27</a>	ALDEA PHARMACEUTICAL	3696 HAVEN	CA San Mateo Co. BI	Higher	148, 0.028, WSW
<a href="#">A28</a>	UBIQUITOUS ENERGY IN	3696 HAVEN AVE STE B	RCRA NonGen / NLR	Higher	148, 0.028, WSW
<a href="#">A29</a>	SUNESIS PHARMACEUTIC	3696C HAVEN AVE	RCRA-SQG, NY MANIFEST	Higher	148, 0.028, WSW
<a href="#">A30</a>	KOB AUTO INC	37.48609/-122.18156	PFAS ECHO	Lower	160, 0.030, NE
<a href="#">B31</a>	ROOTES GROUP DEPOT	3651 HAVEN	CA San Mateo Co. BI	Higher	209, 0.040, West
<a href="#">C32</a>	STANFORD HEALTH CARE	3700 HAVEN CT	CA CERS HAZ WASTE, CA HWTS	Lower	234, 0.044, SSE
<a href="#">C33</a>	STANFORD HEALTH CARE	3700 HAVEN CT M/C 57	RCRA NonGen / NLR	Lower	234, 0.044, SSE
<a href="#">C34</a>	BAY MATERIALS LLC	3700 HAVEN CT	RCRA NonGen / NLR	Lower	234, 0.044, SSE
<a href="#">C35</a>	BAY MATERIALS LLC	3700 HAVEN	CA LUST, CA San Mateo Co. BI, CA HIST CORTESE, CA...	Lower	234, 0.044, SSE
<a href="#">C36</a>	IGH CORPORATION	3700 HAVEN CT	CA SWEEPS UST, CA HIST UST, CA FID UST, CA HAZNET,...	Lower	234, 0.044, SSE
<a href="#">C37</a>	BAY MATERIALS LLC	37.48458/-122.18182	PFAS ECHO	Lower	260, 0.049, SSE
<a href="#">B38</a>	CORRELL PROPERTIES	3641 HAVEN AVENUE	CA HIST UST, CA HAZNET, CA HWTS	Higher	282, 0.053, West
<a href="#">B39</a>	CORRELL PROPERTIES	3641 HAVEN AVE	CA HIST UST	Higher	282, 0.053, West

MAPPED SITES SUMMARY

Target Property Address:  
3705 HAVEN AVENUE  
MENLO PARK, CA 94063

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
<a href="#">B40</a>	DESIGNCO	3641 HAVEN AVE	RCRA NonGen / NLR	Higher	282, 0.053, West
<a href="#">B41</a>	BARIENT INC	3641 HAVEN AVE	RCRA-SQG, FINDS, ECHO	Higher	282, 0.053, West
<a href="#">B42</a>	DESIGNCO	3641 HAVEN	CA CERS HAZ WASTE, CA San Mateo Co. BI, CA CERS	Higher	282, 0.053, West
<a href="#">B43</a>	ANTON MENLO	3639 HAVEN AVENUE	RCRA NonGen / NLR	Higher	309, 0.059, West
<a href="#">B44</a>	CHEVRON SERVICE STAT	3639 HAVEN	CA San Mateo Co. BI, CA HIST CORTESE	Higher	309, 0.059, West
<a href="#">D45</a>	CT INTERNATIONAL SAL	3645 HAVEN	CA LUST, CA CPS-SLIC, CA DEED, CA San Mateo Co....	Higher	325, 0.062, NNW
<a href="#">B46</a>	DOUBLE D PAVING	3637 HAVEN	CA San Mateo Co. BI	Higher	336, 0.064, West
<a href="#">B47</a>	GOODMAN BALL, INC	37.4856/-122.18383	PFAS ECHO	Higher	360, 0.068, West
<a href="#">B48</a>	CARLSEN MOTOR CARS,	3636 HAVEN AVE	CA CERS HAZ WASTE, CA HAZNET, CA CERS, CA HWTS	Higher	373, 0.071, West
<a href="#">B49</a>	CARLSEN MOTOR CARS,	3636 HAVEN	CA San Mateo Co. BI	Higher	373, 0.071, West
<a href="#">B50</a>	LEMMON'S SIGNS	3636 HAVEN	CA LUST, CA Cortese, CA HIST CORTESE	Higher	373, 0.071, West
<a href="#">B51</a>	LEMMONS SIGNS	3636 HAVEN AVENUE	CA SWEEPS UST, CA FID UST	Higher	373, 0.071, West
<a href="#">B52</a>	CARLSEN PORSCHE	3636 HAVEN AVE	RCRA-SQG, FINDS, ECHO	Higher	373, 0.071, West
<a href="#">B53</a>	LEMMON SIGNS	3636 HAVEN	CA San Mateo Co. BI	Higher	373, 0.071, West
<a href="#">E54</a>	MINITUBISHI SILICON A	3717 HAVEN AVE	RCRA-SQG	Lower	376, 0.071, NNE
<a href="#">E55</a>	K O B AUTO	3717 HAVEN AVE	RCRA-SQG	Lower	376, 0.071, NNE
<a href="#">E56</a>	SILTEC CORPORATION (	3717 HAVEN AVE	CA HIST UST, CA San Mateo Co. BI	Lower	376, 0.071, NNE
<a href="#">B57</a>	RB TRACTOR WORK	3633 HAVEN	CA LUST, CA CPS-SLIC, CA San Mateo Co. BI, CA CERS	Higher	390, 0.074, West
<a href="#">E58</a>	3723 HAVEN AVENUE DE	3723 HAVEN AVENUE	CA CPS-SLIC, CA CERS	Lower	413, 0.078, NNE
<a href="#">E59</a>	SUMCO PHOENIX CORPOR	3723 HAVEN AVENUE	RCRA NonGen / NLR	Lower	413, 0.078, NNE
<a href="#">E60</a>	CARL OLSON AND SONS	3750 HAVEN AVE	RCRA-SQG, CA LUST, CA HIST UST, FINDS, ECHO, CA...	Lower	483, 0.091, NE
<a href="#">D61</a>	DESIGNCO	37.48715/-122.18303	PFAS ECHO	Higher	503, 0.095, NNW
<a href="#">F62</a>	CARL W OLSON AND SON	3750 HAVEN AVE	CA HIST UST, CA HAZNET, CA NPDES, CA CIWQS, CA...	Lower	537, 0.102, NE
<a href="#">F63</a>	FEDERAL EXPRESS-PAOA	3750 HAVEN AVE	CA CERS HAZ WASTE, CA CERS	Lower	537, 0.102, NE
<a href="#">F64</a>	FEDERAL EXPRESS CORP	3750 HAVEN AVE	RCRA NonGen / NLR	Lower	537, 0.102, NE
<a href="#">G65</a>	ENGENICS, INC.	3760 HAVEN AVE	CA HIST UST, CA San Mateo Co. BI	Lower	567, 0.107, East
<a href="#">G66</a>	NANOSYN INC	3760 HAVEN AVE	RCRA NonGen / NLR, CA HAZNET, CA HWTS	Lower	567, 0.107, East
<a href="#">G67</a>	ENGENICS	3760 HAVEN AVE	RCRA NonGen / NLR	Lower	567, 0.107, East
<a href="#">G68</a>	NANOSYN	3760 HAVEN AVE.	RCRA-LQG	Lower	567, 0.107, East
<a href="#">G69</a>	COMCAST OF CALIFORNI	3760 HAVEN AVE	RCRA-SQG	Lower	567, 0.107, East
<a href="#">G70</a>	ENGENICS INC	3760 HAVEN AVENUE	CA HIST UST, CA HAZNET, CA HWTS	Lower	567, 0.107, East
<a href="#">H71</a>	A J EITNER REPAIRS	3624 HAVEN	CA San Mateo Co. BI	Higher	620, 0.117, West
<a href="#">H72</a>	C F ARCHIBALD PAVING	3624 HAVEN AVE	CA San Mateo Co. BI, CA HAZNET, CA HWTS	Higher	620, 0.117, West
<a href="#">H73</a>	ANGIES POOL REPAIR	3624 HAVEN	CA San Mateo Co. BI	Higher	620, 0.117, West
<a href="#">H74</a>	ANTON MENLO	3605- 3639 HAVEN AVE	CA LUST	Higher	631, 0.120, West
<a href="#">H75</a>	TIMBERLINE TREE SERV	3615 HAVEN AVENUE	CA SWF/LF, CA HWTS	Higher	635, 0.120, WNW
<a href="#">H76</a>	CAMENZIND DREDGING	3615 HAVEN	CA San Mateo Co. BI	Higher	635, 0.120, WNW
<a href="#">F77</a>	NANOSYN	37.48658/-122.17976	PFAS ECHO	Lower	682, 0.129, ENE
<a href="#">H78</a>	PIERS DAIRY	3611 HAVEN AVE	CA HIST UST, CA San Mateo Co. BI, CA HWTS	Higher	690, 0.131, WNW

MAPPED SITES SUMMARY

Target Property Address:  
3705 HAVEN AVENUE  
MENLO PARK, CA 94063

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
<a href="#">79</a>	MP MOSAIC GARDEN ASS	3752 ROLISON RD.	RCRA NonGen / NLR	Higher	704, 0.133, SW
<a href="#">H80</a>	BLACK MOUNTAIN SPRIN	3609 HAVEN	CA San Mateo Co. BI	Higher	716, 0.136, WNW
<a href="#">H81</a>	GUY'S ROOFING	3620 HAVEN	CA San Mateo Co. BI	Higher	719, 0.136, West
<a href="#">H82</a>	EL DORADO FORKLIFT	3607 HAVEN AVE	CA SWEEPS UST, CA San Mateo Co. BI	Higher	743, 0.141, WNW
<a href="#">H83</a>	ELDORADO FORKLIFT CO	3607 HAVEN AVE	RCRA NonGen / NLR	Higher	743, 0.141, WNW
<a href="#">H84</a>	JOHN J SHOOTER INC	3605 HAVEN AVE	CA SWEEPS UST, CA HIST UST, CA FID UST	Higher	771, 0.146, WNW
<a href="#">H85</a>	ANTON MENLO	3605-3639 HAVEN AVEN	CA CPS-SLIC, CA CERS	Higher	771, 0.146, WNW
<a href="#">H86</a>	SHOOTER LANDSCAPING	3605 HAVEN	CA LUST, CA HIST UST, CA San Mateo Co. BI, CA...	Higher	771, 0.146, WNW
<a href="#">H87</a>	LANDEC CORPORATION	3603 HAVEN	CA San Mateo Co. BI	Higher	798, 0.151, WNW
<a href="#">H88</a>	HONEYCOMB BIOSCIENCE	3603 HAVEN	CA San Mateo Co. BI	Higher	798, 0.151, WNW
<a href="#">H89</a>	TELOMERE DIAGNOSTICS	3603 HAVEN AVE	RCRA NonGen / NLR	Higher	798, 0.151, WNW
<a href="#">H90</a>	PREMIER PROPERTIES	3603 HAVEN AVE	RCRA-LQG, FINDS	Higher	798, 0.151, WNW
<a href="#">H91</a>	NVS TECHNOLOGIES INC	3603 HAVEN AVE STE A	CA San Mateo Co. BI, CA HAZNET, CA HWTS	Higher	798, 0.151, WNW
<a href="#">H92</a>	BIOCELLECTION INC	3603 HAVEN AVE STE A	RCRA NonGen / NLR	Higher	798, 0.151, WNW
<a href="#">H93</a>	AT&T MOBILITY - REDW		CA San Mateo Co. BI	Higher	818, 0.155, West
<a href="#">H94</a>	AT & T WIRELESS	3600 HAVEN	CA San Mateo Co. BI	Higher	818, 0.155, West
<a href="#">H95</a>	SPACE CONTROL CO	3600 HAVEN AVE UNIT	RCRA-SQG, FINDS, ECHO	Higher	818, 0.155, West
<a href="#">H96</a>	MAINSRING ENERGY IN	3601 HAVEN AVE	CA CERS HAZ WASTE, CA HAZNET, CA HWTS	Higher	826, 0.156, WNW
<a href="#">H97</a>	ETAGEN INTERNATIONAL	3601 HAVEN	CA San Mateo Co. BI	Higher	826, 0.156, WNW
<a href="#">H98</a>	MAINSRING ENERGY IN	3601 HAVEN AVE	RCRA NonGen / NLR	Higher	826, 0.156, WNW
<a href="#">I99</a>	SCALE MODELS UNLIMIT	111 INDEPENDENCE DR	RCRA-SQG, FINDS, ECHO, CA San Mateo Co. BI, CA...	Higher	928, 0.176, ESE
<a href="#">100</a>	FIDEL PACHECO	3760 HOOVER STREET	RCRA NonGen / NLR	Higher	929, 0.176, SSW
<a href="#">J101</a>	REDWOOD COURT MOTEL	3706 ROLISON	CA San Mateo Co. BI	Higher	950, 0.180, WSW
<a href="#">J102</a>	REDWOOD MOTOR COURT	3706 ROLISON	CA LUST, CA Cortese, CA CERS	Higher	950, 0.180, WSW
<a href="#">K103</a>	AT&T CALIFORNIA - CA	1200 MARSH	CA San Mateo Co. BI	Higher	950, 0.180, South
<a href="#">K104</a>	ATT	1200 MARSH RD	RCRA NonGen / NLR	Higher	950, 0.180, South
<a href="#">L105</a>	UNITED RENTALS (NORT	105 CONSTITUTION DRI	RCRA NonGen / NLR	Lower	952, 0.180, East
<a href="#">L106</a>	META PLATFORMS, INC.	105/155 CONSTITUTION	CA CERS HAZ WASTE, CA CERS TANKS, CA CHMIRS, CA...	Lower	952, 0.180, East
<a href="#">107</a>	JOHNSON & JOHNSON PR	4100 BAYSHORE HIGHWA	RCRA-SQG, FINDS, ECHO	Higher	954, 0.181, SSE
<a href="#">M108</a>	INNOVATIVE DRIVE COR	3592 HAVEN AVE STE A	RCRA NonGen / NLR	Higher	967, 0.183, West
<a href="#">M109</a>	PIERCE INGER TRUST,	3592 HAVEN	CA LUST, CA Cortese, CA CERS	Higher	967, 0.183, West
<a href="#">M110</a>	HAVEN OWNERS	3592 HAVEN	CA San Mateo Co. BI	Higher	967, 0.183, West
<a href="#">M111</a>	INNOVATIVE DRIVE COR	3592 HAVEN	CA San Mateo Co. BI	Higher	967, 0.183, West
<a href="#">M112</a>	BENNETT HOPKINS CORP	3592 HAVEN	CA San Mateo Co. BI	Higher	967, 0.183, West
<a href="#">J113</a>	VIESTURS BENKIS	3725 HOOVER STREET	RCRA NonGen / NLR	Higher	984, 0.186, SW
<a href="#">M114</a>	PREMIER PROPERTIES	37.4861/-122.18599	PFAS ECHO	Higher	1012, 0.192, West
<a href="#">M115</a>	GENERAL CIRCUITS INC	37.48612/-122.18607	PFAS ECHO	Higher	1037, 0.196, West
<a href="#">M116</a>	RAK MOTORSPORTS	3585 HAVEN	CA San Mateo Co. BI	Higher	1044, 0.198, WNW
<a href="#">M117</a>	WORKSHOP 337 LLC	3585 HAVEN AVE UNIT	RCRA NonGen / NLR	Higher	1044, 0.198, WNW

MAPPED SITES SUMMARY

Target Property Address:  
 3705 HAVEN AVENUE  
 MENLO PARK, CA 94063

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
<a href="#">M118</a>	RAK MOTORSPORTS	3585 HAVEN AVE UNIT	RCRA NonGen / NLR	Higher	1044, 0.198, WNW
<a href="#">M119</a>	SYNTHEGO CORPORATION	3585 HAVEN AVE STE A	RCRA NonGen / NLR	Higher	1044, 0.198, WNW
<a href="#">M120</a>	GENERAL CIRCUITS INC	3585 HAVEN AVENUE	CA ENVIROSTOR, CA HIST UST, CA San Mateo Co. BI,...	Higher	1044, 0.198, WNW
<a href="#">M121</a>	GENERAL CIRCUITS INC	3585 HAVEN AVENUE	SEMS-ARCHIVE, CORRACTS, RCRA-SQG, CA HAZNET, CA...	Higher	1044, 0.198, WNW
<a href="#">M122</a>	ALS ROOFING SUPPLY	3586 HAVEN	CA San Mateo Co. BI	Higher	1053, 0.199, West
<a href="#">J123</a>	B & D AUTOWORKS	1253 ANNETTE	CA San Mateo Co. BI	Higher	1110, 0.210, WSW
<a href="#">M124</a>	ELDORADO FORKLIFT CO	3582 HAVEN AVE	RCRA-SQG	Higher	1115, 0.211, West
<a href="#">M125</a>	EL DORADO FORKLIFT C	3582 HAVEN	CA San Mateo Co. BI	Higher	1115, 0.211, West
<a href="#">M126</a>	EL DORADO FORKLIFT C	3582 HAVEN AVE	CA CERS HAZ WASTE, CA CERS	Higher	1115, 0.211, West
<a href="#">M127</a>	ELDORADO FORKLIFT CO	3582 HAVEN AVE	RCRA NonGen / NLR	Higher	1115, 0.211, West
<a href="#">M128</a>	DE MARTINIS SANDWICH	3582 HAVEN	CA San Mateo Co. BI	Higher	1115, 0.211, West
<a href="#">J129</a>	VAZQUEZ GARAGE	1251 ANNETTE	CA San Mateo Co. BI	Higher	1123, 0.213, WSW
<a href="#">J130</a>	T MOBILE WEST CORP S	1251 ANNETTE	CA San Mateo Co. BI	Higher	1123, 0.213, WSW
<a href="#">M131</a>	MIDLAND PACIFIC CORP	3536 HAVEN	CA LUST, CA Cortese, CA HIST CORTESE, CA CERS	Higher	1148, 0.217, West
<a href="#">I132</a>	STUDIO RED INC	115 INDEPENDENCE DR	RCRA NonGen / NLR	Higher	1168, 0.221, ESE
<a href="#">I133</a>	STUDIO RED	115 INDEPENDENCE	CA CPS-SLIC, CA San Mateo Co. BI, CA EMI, CA CERS	Higher	1168, 0.221, ESE
<a href="#">I134</a>	MENLO PORTAL	115 INDEPENDENCE DRI	CA CPS-SLIC, CA NPDES, CA CIWQS, CA CERS, CA HWTS	Higher	1168, 0.221, ESE
<a href="#">I135</a>	WATERGURU INC.	115 INDEPENDENCE DR.	RCRA NonGen / NLR	Higher	1168, 0.221, ESE
<a href="#">L136</a>	GS MP PORTAL OWNER,	110 CONSTITUTION DR	RCRA NonGen / NLR	Lower	1183, 0.224, ESE
<a href="#">L137</a>	SPACESONICS INC	110 CONSTITUTION	CA San Mateo Co. BI	Lower	1183, 0.224, ESE
<a href="#">L138</a>	GS MP PORTAL OWNER,	110 CONSTITUTION DR	RCRA-SQG, FINDS, ECHO	Lower	1183, 0.224, ESE
<a href="#">L139</a>	OPTIVIA BIOTECHNOLOG	115 CONSTITUTION	CA San Mateo Co. BI	Lower	1189, 0.225, East
<a href="#">L140</a>	115 CONSTITUTION DR	115 CONSTITUTION DR	CA LUST	Lower	1189, 0.225, East
<a href="#">L141</a>	THERMAL TECHNOLOGY I	37.48504/-122.17783	PFAS ECHO	Lower	1190, 0.225, East
<a href="#">M142</a>	GRIFFIN PAINTING, IN	3580 HAVEN	CA San Mateo Co. BI	Higher	1225, 0.232, West
<a href="#">M143</a>	GRIFFIN PAINTING INC	3580 HAVEN AVE STE 2	RCRA NonGen / NLR	Higher	1225, 0.232, West
<a href="#">M144</a>	GRIFFIN PAINTING, IN	3580 HAVEN AVE 2	CA CERS HAZ WASTE, CA CERS	Higher	1225, 0.232, West
<a href="#">M145</a>	ACTION SIGN SYSTEMS,	3580 HAVEN	CA San Mateo Co. BI	Higher	1225, 0.232, West
<a href="#">M146</a>	DNG CUMMINGS INC DBA	3580 HAVEN AVE STE 1	RCRA NonGen / NLR	Higher	1225, 0.232, West
<a href="#">147</a>	FITNESS 101 AND FORM	4085 CAMPBELL AVENUE	CA CPS-SLIC, CA CERS	Higher	1283, 0.243, South
<a href="#">148</a>	CHAMP INC DBA FITNES	40 SCOTT	CA San Mateo Co. BI	Higher	1283, 0.243, South
<a href="#">N149</a>	BAY PACKAGING & CONV	37.48629/-122.18697	PFAS ECHO	Higher	1305, 0.247, WNW
<a href="#">N150</a>	SITWORKS LANDSCAPE	3570 HAVEN AVE	RCRA NonGen / NLR	Higher	1316, 0.249, West
<a href="#">151</a>	SEIBERT, J., MACHINE	119 INDEPENDENCE DR.	CA ENVIROSTOR, CA San Mateo Co. BI	Higher	1360, 0.258, ESE
<a href="#">O152</a>	MOREING COMPANY	120 CONSTITUTION	CA LUST, CA HIST CORTESE, CA CERS	Lower	1384, 0.262, ESE
<a href="#">O153</a>	JA MOREING COMPANY	120 CONSTITUTION DR	CA CPS-SLIC, CA NON-CASE INFO	Lower	1384, 0.262, ESE
<a href="#">O154</a>	MOREING COMPANY	120 CONSTITUTION DR	CA LUST, CA Cortese	Lower	1384, 0.262, ESE
<a href="#">N155</a>	GENERAL CIRCUITS INC	3549 J HAVEN AVENUE	SEMS-ARCHIVE, CORRACTS, RCRA-SQG, CA ENVIROSTOR,	Higher	1465, 0.277, West
<a href="#">P156</a>	BP OIL #11207	1110 MARSH	CA LUST, CA FID UST, CA San Mateo Co. BI, CA...	Higher	1652, 0.313, SSW



MAPPED SITES SUMMARY

Target Property Address:  
 3705 HAVEN AVENUE  
 MENLO PARK, CA 94063

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
<a href="#">P157</a>	BP	1110 MARSH	CA SWEEPS UST, CA HIST CORTESE	Higher	1652, 0.313, SSW
<a href="#">Q158</a>	AUTOMATIC RAIN COMPA	4060 CAMPBELL AVE	CA LUST, CA SWEEPS UST, CA San Mateo Co. BI, CA...	Higher	1780, 0.337, SSE
<a href="#">Q159</a>	AUTOMATIC RAIN COMPA	4060 CAMPBELL AVE	CA LUST, CA FID UST	Higher	1780, 0.337, SSE
<a href="#">Q160</a>	WEST VALLEY PROP (WV	4040 CAMPBELL AVENUE	CA BROWNFIELDS	Higher	1938, 0.367, SSE
<a href="#">Q161</a>	WVP III	4040 CAMPBELL	CA CPS-SLIC, CA San Mateo Co. BI, CA HIST CORTESE,...	Higher	1938, 0.367, SSE
<a href="#">R162</a>	KREBS ENGINEERS	1205 CHRYSLER	CA CPS-SLIC, CA San Mateo Co. BI, CA HIST CORTESE,...	Higher	2091, 0.396, ESE
<a href="#">R163</a>	BAY ASSOCIATES	1150 CHRYSLER	CA LUST, CA San Mateo Co. BI, CA Cortese, CA HIST...	Higher	2220, 0.420, ESE
<a href="#">164</a>	AMOROSO PROPERTY	135 COMMONWEALTH DRI	CA LUST, CA CPS-SLIC, CA San Mateo Co. BI, CA CERS	Higher	2372, 0.449, SE
<a href="#">S165</a>	KNAPPKINS	4055 BOHANNON	CA LUST, CA HIST CORTESE, CA CERS	Higher	2411, 0.457, SSE
<a href="#">S166</a>	KNAPPKINS	4055 BOHANNON	CA LUST, CA San Mateo Co. BI, CA Cortese	Higher	2411, 0.457, SSE
<a href="#">167</a>	INFORMIX	3905 BOHANNON	CA LUST, CA San Mateo Co. BI, CA Cortese, CA CERS	Higher	2418, 0.458, South
<a href="#">S168</a>	PHARM CHEM LABORATOR	3925 BOHANNON DRIVE	RCRA-SQG, CA CPS-SLIC, FINDS, ECHO, CA San Mateo...	Higher	2428, 0.460, SSE
<a href="#">S169</a>	PHARM CHEM LABS INC	3925 BOHANNON DR	CA LUST, CA CPS-SLIC, CA CERS	Higher	2428, 0.460, SSE
<a href="#">170</a>	U.S. POSTAL SERVICE	3875 BOHANNON	CA LUST, CA San Mateo Co. BI, CA Cortese, CA HIST...	Higher	2449, 0.464, South
<a href="#">T171</a>	CHEVRON STATION#9075	3805 BOHANNON DR	CA LUST, CA SWEEPS UST, CA San Mateo Co. BI, CA...	Higher	2496, 0.473, SSW
<a href="#">T172</a>	CHEVRON 9-0754	3805 BOHANNON	CA LUST, CA Cortese, CA CERS	Higher	2525, 0.478, SSW
<a href="#">U173</a>	MENLO UPTOWN	141 JEFFERSON DRIVE	CA CPS-SLIC	Higher	2615, 0.495, ESE
<a href="#">U174</a>	MENLO UPTOWN	141 JEFFERSON DRIVE	CA BROWNFIELDS	Higher	2615, 0.495, ESE
<a href="#">U175</a>	BAY ASSOCIATES WIRE	150 JEFFERSON DR	CA ENVIROSTOR, CA SCH, RCRA NonGen / NLR, FINDS,...	Higher	2651, 0.502, ESE
<a href="#">176</a>	MENLOTECH INC	188 CONSTITUTION DR	RCRA-SQG, CA ENVIROSTOR, CA LUST, CA CPS-SLIC, CA...	Lower	3165, 0.599, ESE
<a href="#">177</a>	FORMER GAS STATION	955 MARSH ROAD	CA Notify 65	Higher	3237, 0.613, SSW
<a href="#">178</a>	BROWNING-FERRIS INDU	END OF MARSH ROAD, E	CA ENVIROSTOR	Lower	3669, 0.695, NE
<a href="#">179</a>	REDWOOD CITY SD - TA	903 10TH AVENUE	CA ENVIROSTOR, CA SCH, CA HAZNET, CA HWTS	Higher	3821, 0.724, WSW
<a href="#">180</a>	MENLO PARK SANITATIO	1700 MARSH EXTENTION	CA ENVIROSTOR, CA San Mateo Co. BI, CA HIST...	Higher	3823, 0.724, NNE
<a href="#">V181</a>	MENLO PARK WEST CAMP	312-314 CONSTITUTION	CA ENVIROSTOR, CA VCP, CA DEED	Lower	4366, 0.827, ESE
<a href="#">V182</a>	TE CONNECTIVITY LTD	305 CONSTITUTION DR.	CORRACTS, RCRA-TSDF, US INST CONTROLS, RCRA NonGen	Lower	4367, 0.827, ESE

## EXECUTIVE SUMMARY

### TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following records. For more information on this property see page 9 of the attached EDR Radius Map report:

Site	Database(s)	EPA ID
THYSEN MANAGEMENT CO 3705 HAVEN AVE MENLO PARK, CA	CA RGA LUST	N/A
THYSEN MANAGEMENT CO 3705 HAVEN AVE MENLO PARK, CA 94025	CA LUST Database: LUST REG 2, Date of Government Version: 09/30/2004 Database: LUST, Date of Government Version: 08/31/2022 Status: Completed - Case Closed Facility Id: 41-0991 Facility Status: Case Closed Global Id: T0608100906 date9: 7/30/1999  CA CPS-SLIC Database: CPS-SLIC, Date of Government Version: 08/31/2022 Facility Status: Open - Assessment & Interim Remedial Action Global Id: T10000013783  CA San Mateo Co. BI Facility Id: FA0022530  CA Cortese Cleanup Status: COMPLETED - CASE CLOSED  CA HIST CORTESE Reg Id: 41-0991  CA CERS	N/A
SILTEC 3705-3723 HAVEN AVEN MENLO PARK, CA 94025	FINDS Registry ID:: 110065206217	N/A
THYSEN MANAGEMENT CO 3705 HAVEN AVE MENLO PARK, CA	CA RGA LUST	N/A
B S G ASSOCIATES 3705 HAVEN AVENUE MENLO PARK, CA 94025	CA HAZNET GEPaid: CAC001105104  CA HWTS	N/A
THYSEN MGMT. CO. 3705 HAVEN AVENUE MENLO PARK, CA 94025	CA HWTS	N/A
THYSEN MANAGEMENT CO 3705 HAVEN AVE MENLO PARK, CA 94025	FINDS	N/A

# EXECUTIVE SUMMARY

Registry ID:: 110065382311

SILTEC  
3705-3723 HAVEN AVEN  
MENLO PARK, CA 94025

CA CPS-SLIC N/A  
Database: SLIC REG 2, Date of Government Version: 09/30/2004  
Database: CPS-SLIC, Date of Government Version: 08/31/2022  
Facility Status: Open - Site Assessment  
Facility Id: SL18322742  
Global Id: SL18322742

CA CERS

SILTECH  
3705-3723 HAVEN AVE  
REDWOOD CITY, CA 94063

CA SPILLS 90 N/A  
Status: INACTIVE  
Site Id: SLC241S0105

## DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

## STANDARD ENVIRONMENTAL RECORDS

### ***Lists of Federal NPL (Superfund) sites***

NPL..... National Priority List  
Proposed NPL..... Proposed National Priority List Sites  
NPL LIENS..... Federal Superfund Liens

### ***Lists of Federal Delisted NPL sites***

Delisted NPL..... National Priority List Deletions

### ***Lists of Federal sites subject to CERCLA removals and CERCLA orders***

FEDERAL FACILITY..... Federal Facility Site Information listing  
SEMS..... Superfund Enterprise Management System

### ***Lists of Federal RCRA generators***

RCRA-VSQG..... RCRA - Very Small Quantity Generators (Formerly Conditionally Exempt Small Quantity Generators)

### ***Federal institutional controls / engineering controls registries***

LUCIS..... Land Use Control Information System

## EXECUTIVE SUMMARY

US ENG CONTROLS..... Engineering Controls Sites List

### ***Federal ERNS list***

ERNS..... Emergency Response Notification System

### ***Lists of state- and tribal (Superfund) equivalent sites***

CA RESPONSE..... State Response Sites

### ***Lists of state and tribal leaking storage tanks***

INDIAN LUST..... Leaking Underground Storage Tanks on Indian Land

### ***Lists of state and tribal registered storage tanks***

FEMA UST..... Underground Storage Tank Listing

CA UST..... Active UST Facilities

CA AST..... Aboveground Petroleum Storage Tank Facilities

INDIAN UST..... Underground Storage Tanks on Indian Land

### ***Lists of state and tribal voluntary cleanup sites***

INDIAN VCP..... Voluntary Cleanup Priority Listing

## **ADDITIONAL ENVIRONMENTAL RECORDS**

### ***Local Brownfield lists***

US BROWNFIELDS..... A Listing of Brownfields Sites

### ***Local Lists of Landfill / Solid Waste Disposal Sites***

CA WMUDS/SWAT..... Waste Management Unit Database

CA SWRCY..... Recycler Database

CA HAULERS..... Registered Waste Tire Haulers Listing

INDIAN ODI..... Report on the Status of Open Dumps on Indian Lands

ODI..... Open Dump Inventory

DEBRIS REGION 9..... Torres Martinez Reservation Illegal Dump Site Locations

IHS OPEN DUMPS..... Open Dumps on Indian Land

### ***Local Lists of Hazardous waste / Contaminated Sites***

US HIST CDL..... Delisted National Clandestine Laboratory Register

CA HIST Cal-Sites..... Historical Calsites Database

CA CDL..... Clandestine Drug Labs

CA Toxic Pits..... Toxic Pits Cleanup Act Sites

US CDL..... National Clandestine Laboratory Register

### ***Local Land Records***

CA LIENS..... Environmental Liens Listing

LIENS 2..... CERCLA Lien Information

### ***Records of Emergency Release Reports***

HMIRS..... Hazardous Materials Information Reporting System

## EXECUTIVE SUMMARY

CA LDS..... Land Disposal Sites Listing  
CA MCS..... Military Cleanup Sites Listing

### **Other Ascertainable Records**

FUDS..... Formerly Used Defense Sites  
DOD..... Department of Defense Sites  
SCRD DRYCLEANERS..... State Coalition for Remediation of Drycleaners Listing  
EPA WATCH LIST..... EPA WATCH LIST  
2020 COR ACTION..... 2020 Corrective Action Program List  
TSCA..... Toxic Substances Control Act  
TRIS..... Toxic Chemical Release Inventory System  
SSTS..... Section 7 Tracking Systems  
ROD..... Records Of Decision  
RMP..... Risk Management Plans  
RAATS..... RCRA Administrative Action Tracking System  
PRP..... Potentially Responsible Parties  
PADS..... PCB Activity Database System  
ICIS..... Integrated Compliance Information System  
FTTS..... FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)  
MLTS..... Material Licensing Tracking System  
COAL ASH DOE..... Steam-Electric Plant Operation Data  
COAL ASH EPA..... Coal Combustion Residues Surface Impoundments List  
PCB TRANSFORMER..... PCB Transformer Registration Database  
RADINFO..... Radiation Information Database  
HIST FTTS..... FIFRA/TSCA Tracking System Administrative Case Listing  
DOT OPS..... Incident and Accident Data  
CONSENT..... Superfund (CERCLA) Consent Decrees  
INDIAN RESERV..... Indian Reservations  
FUSRAP..... Formerly Utilized Sites Remedial Action Program  
UMTRA..... Uranium Mill Tailings Sites  
LEAD SMELTERS..... Lead Smelter Sites  
US AIRS..... Aerometric Information Retrieval System Facility Subsystem  
US MINES..... Mines Master Index File  
ABANDONED MINES..... Abandoned Mines  
UXO..... Unexploded Ordnance Sites  
DOCKET HWC..... Hazardous Waste Compliance Docket Listing  
FUELS PROGRAM..... EPA Fuels Program Registered Listing  
PFAS NPL..... Superfund Sites with PFAS Detections Information  
PFAS FEDERAL SITES..... Federal Sites PFAS Information  
PFAS TSCA..... PFAS Manufacture and Imports Information  
PFAS RCRA MANIFEST..... PFAS Transfers Identified In the RCRA Database Listing  
PFAS ATSDR..... PFAS Contamination Site Location Listing  
PFAS WQP..... Ambient Environmental Sampling for PFAS  
PFAS NPDES..... Clean Water Act Discharge Monitoring Information  
PFAS ECHO FIRE TRAINING..... Facilities in Industries that May Be Handling PFAS Listing  
PFAS PART 139 AIRPORT..... All Certified Part 139 Airports PFAS Information Listing  
AQUEOUS FOAM NRC..... Aqueous Foam Related Incidents Listing  
CA PFAS..... PFAS Contamination Site Location Listing  
CA AQUEOUS FOAM..... Former Fire Training Facility Assessments Listing  
CA BOND EXP. PLAN..... Bond Expenditure Plan  
CA CUPA Listings..... CUPA Resources List  
CA DRYCLEANERS..... Cleaner Facilities  
CA ENF..... Enforcement Action Listing

## EXECUTIVE SUMMARY

CA Financial Assurance.....	Financial Assurance Information Listing
CA ICE.....	ICE
CA HWT.....	Registered Hazardous Waste Transporter Database
CA MINES.....	Mines Site Location Listing
CA MWMP.....	Medical Waste Management Program Listing
CA PEST LIC.....	Pesticide Regulation Licenses Listing
CA PROC.....	Certified Processors Database
CA UIC.....	UIC Listing
CA UIC GEO.....	UIC GEO (GEOTRACKER)
CA WASTEWATER PITS.....	Oil Wastewater Pits Listing
CA WIP.....	Well Investigation Program Case List
CA MILITARY PRIV SITES...	MILITARY PRIV SITES (GEOTRACKER)
CA PROJECT.....	PROJECT (GEOTRACKER)
CA WDR.....	Waste Discharge Requirements Listing
CA OTHER OIL GAS.....	OTHER OIL & GAS (GEOTRACKER)
CA PROD WATER PONDS...	PROD WATER PONDS (GEOTRACKER)
CA SAMPLING POINT.....	SAMPLING POINT (GEOTRACKER)
CA WELL STIM PROJ.....	Well Stimulation Project (GEOTRACKER)
MINES MRDS.....	Mineral Resources Data System

### EDR HIGH RISK HISTORICAL RECORDS

#### ***EDR Exclusive Records***

EDR MGP.....	EDR Proprietary Manufactured Gas Plants
EDR Hist Auto.....	EDR Exclusive Historical Auto Stations
EDR Hist Cleaner.....	EDR Exclusive Historical Cleaners

### EDR RECOVERED GOVERNMENT ARCHIVES

#### ***Exclusive Recovered Govt. Archives***

CA RGA LF.....	Recovered Government Archive Solid Waste Facilities List
----------------	--

### SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property. Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

### STANDARD ENVIRONMENTAL RECORDS

#### ***Lists of Federal CERCLA sites with NFRAP***

## EXECUTIVE SUMMARY

SEMS-ARCHIVE: SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be potential NPL site.

A review of the SEMS-ARCHIVE list, as provided by EDR, and dated 10/27/2022 has revealed that there are 2 SEMS-ARCHIVE sites within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>GENERAL CIRCUITS INC</b> Site ID: 0903257 EPA Id: CAD982462335	<b>3585 HAVEN AVENUE</b>	<b>WNW 1/8 - 1/4 (0.198 mi.)</b>	<b>M121</b>	<b>540</b>
<b>GENERAL CIRCUITS INC</b> Site ID: 0903283 EPA Id: CAD074665704	<b>3549 J HAVEN AVENUE</b>	<b>W 1/4 - 1/2 (0.277 mi.)</b>	<b>N155</b>	<b>614</b>

### ***Lists of Federal RCRA facilities undergoing Corrective Action***

CORRACTS: CORRACTS is a list of handlers with RCRA Corrective Action Activity. This report shows which nationally-defined corrective action core events have occurred for every handler that has had corrective action activity.

A review of the CORRACTS list, as provided by EDR, and dated 11/21/2022 has revealed that there are 3 CORRACTS sites within approximately 1 mile of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>GENERAL CIRCUITS INC</b> EPA ID:: CAD982462335	<b>3585 HAVEN AVENUE</b>	<b>WNW 1/8 - 1/4 (0.198 mi.)</b>	<b>M121</b>	<b>540</b>
<b>GENERAL CIRCUITS INC</b> EPA ID:: CAD074665704	<b>3549 J HAVEN AVENUE</b>	<b>W 1/4 - 1/2 (0.277 mi.)</b>	<b>N155</b>	<b>614</b>
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>TE CONNECTIVITY LTD</b> EPA ID:: CAD009125527	<b>305 CONSTITUTION DR.</b>	<b>ESE 1/2 - 1 (0.827 mi.)</b>	<b>V182</b>	<b>778</b>

### ***Lists of Federal RCRA generators***

RCRA-LQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or

## EXECUTIVE SUMMARY

dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

A review of the RCRA-LQG list, as provided by EDR, and dated 11/21/2022 has revealed that there are 4 RCRA-LQG sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>SYNTHEGO HAVEN</b> EPA ID:: CAR000148700	<b>3696 HAVEN AVENUE</b>	<b>WSW 0 - 1/8 (0.028 mi.)</b>	<b>A22</b>	<b>117</b>
SYNTHEGO CORP EPA ID:: CAL000389888	3696 HAVEN AVE, SUIT	WSW 0 - 1/8 (0.028 mi.)	A23	127
<b>PREMIER PROPERTIES</b> EPA ID:: CAD983647926	<b>3603 HAVEN AVE</b>	<b>WNW 1/8 - 1/4 (0.151 mi.)</b>	<b>H90</b>	<b>450</b>
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
NANOSYN EPA ID:: CAL000269914	3760 HAVEN AVE.	E 0 - 1/8 (0.107 mi.)	G68	382

RCRA-SQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

A review of the RCRA-SQG list, as provided by EDR, and dated 11/21/2022 has revealed that there are 13 RCRA-SQG sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>SUNESIS PHARMACEUTIC</b> EPA ID:: CAD981398563	<b>3696C HAVEN AVE</b>	<b>WSW 0 - 1/8 (0.028 mi.)</b>	<b>A29</b>	<b>136</b>
<b>BARIENT INC</b> EPA ID:: CAD980882690	<b>3641 HAVEN AVE</b>	<b>W 0 - 1/8 (0.053 mi.)</b>	<b>B41</b>	<b>180</b>
<b>CARLSEN PORSCHE</b> EPA ID:: CAR000115923	<b>3636 HAVEN AVE</b>	<b>W 0 - 1/8 (0.071 mi.)</b>	<b>B52</b>	<b>231</b>
<b>SPACE CONTROL CO</b> EPA ID:: CAD981694052	<b>3600 HAVEN AVE UNIT</b>	<b>W 1/8 - 1/4 (0.155 mi.)</b>	<b>H95</b>	<b>467</b>
<b>SCALE MODELS UNLIMIT</b> EPA ID:: CAD981451404	<b>111 INDEPENDENCE DR</b>	<b>ESE 1/8 - 1/4 (0.176 mi.)</b>	<b>I99</b>	<b>480</b>
<b>JOHNSON &amp; JOHNSON PR</b> EPA ID:: CAD028666170	<b>4100 BAYSHORE HIGHWA</b>	<b>SSE 1/8 - 1/4 (0.181 mi.)</b>	<b>107</b>	<b>513</b>
<b>GENERAL CIRCUITS INC</b> EPA ID:: CAD982462335	<b>3585 HAVEN AVENUE</b>	<b>WNW 1/8 - 1/4 (0.198 mi.)</b>	<b>M121</b>	<b>540</b>
ELDORADO FORKLIFT CO EPA ID:: CAR000188318	3582 HAVEN AVE	W 1/8 - 1/4 (0.211 mi.)	M124	548
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
MITSUBISHI SILICON A	3717 HAVEN AVE	NNE 0 - 1/8 (0.071 mi.)	E54	236



## EXECUTIVE SUMMARY

EPA ID:: CAD047388236					
K O B AUTO	3717 HAVEN AVE	NNE 0 - 1/8 (0.071 mi.)	E55	241	
EPA ID:: CAD982324931					
<b>CARL OLSON AND SONS</b>	<b>3750 HAVEN AVE</b>	<b>NE 0 - 1/8 (0.091 mi.)</b>	<b>E60</b>	<b>251</b>	
EPA ID:: CAD982330359					
COMCAST OF CALIFORNI	3760 HAVEN AVE	E 0 - 1/8 (0.107 mi.)	G69	386	
EPA ID:: CAR000263855					
<b>GS MP PORTAL OWNER,</b>	<b>110 CONSTITUTION DR</b>	<b>ESE 1/8 - 1/4 (0.224 mi.)</b>	<b>L138</b>	<b>579</b>	
EPA ID:: CAD030978225					

### ***Lists of state- and tribal hazardous waste facilities***

CA ENVIROSTOR: The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifies sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

A review of the CA ENVIROSTOR list, as provided by EDR, and dated 10/24/2022 has revealed that there are 9 CA ENVIROSTOR sites within approximately 1 mile of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>GENERAL CIRCUITS INC</b> Facility Id: 80001497 Status: Inactive - Needs Evaluation	<b>3585 HAVEN AVENUE</b>	<b>WNW 1/8 - 1/4 (0.198 mi.)</b>	<b>M120</b>	<b>537</b>
<b>SEIBERT, J., MACHINE</b> Facility Id: 41350016 Status: Refer: Other Agency	<b>119 INDEPENDENCE DR.</b>	<b>ESE 1/4 - 1/2 (0.258 mi.)</b>	<b>151</b>	<b>608</b>
<b>GENERAL CIRCUITS INC</b> Facility Id: 80001670 Status: Refer: EPA	<b>3549 J HAVEN AVENUE</b>	<b>W 1/4 - 1/2 (0.277 mi.)</b>	<b>N155</b>	<b>614</b>
<b>BAY ASSOCIATES WIRE</b> Facility Id: 60002163 Status: No Further Action	<b>150 JEFFERSON DR</b>	<b>ESE 1/2 - 1 (0.502 mi.)</b>	<b>U175</b>	<b>686</b>
<b>REDWOOD CITY SD - TA</b> Facility Id: 60002535 Status: Inactive - Withdrawn	<b>903 10TH AVENUE</b>	<b>WSW 1/2 - 1 (0.724 mi.)</b>	<b>179</b>	<b>754</b>
<b>MENLO PARK SANITATIO</b> Facility Id: 41490021 Status: No Further Action	<b>1700 MARSH EXTENTION</b>	<b>NNE 1/2 - 1 (0.724 mi.)</b>	<b>180</b>	<b>760</b>
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>MENLOTECH INC</b>	<b>188 CONSTITUTION DR</b>	<b>ESE 1/2 - 1 (0.599 mi.)</b>	<b>176</b>	<b>695</b>

## EXECUTIVE SUMMARY

Facility Id: 70000160				
Facility Id: 71002456				
Status: Refer: RWQCB				
Status: Inactive - Needs Evaluation				
BROWNING-FERRIS INDU	END OF MARSH ROAD, E	NE 1/2 - 1 (0.695 mi.)	178	752
Facility Id: 41490048				
Status: Refer: RWQCB				
<b>MENLO PARK WEST CAMP</b>	<b>312-314 CONSTITUTION</b>	<b>ESE 1/2 - 1 (0.827 mi.)</b>	<b>V181</b>	<b>762</b>
Facility Id: 60001437				
Status: Certified / Operation & Maintenance				

### ***Lists of state and tribal landfills and solid waste disposal facilities***

CA SWF/LF: The Solid Waste Facilities/Landfill Sites records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. The data come from the Integrated Waste Management Board's Solid Waste Information System (SWIS) database.

A review of the CA SWF/LF list, as provided by EDR, has revealed that there are 2 CA SWF/LF sites within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>TIMBERLINE TREE SERV</b>	<b>3615 HAVEN AVENUE</b>	<b>WNW 0 - 1/8 (0.120 mi.)</b>	<b>H75</b>	<b>414</b>
Database: SWF/LF (SWIS), Date of Government Version: 08/08/2022				
Facility ID: 41-AA-0187				
Operational Status: Closed				
Regulation Status: Notification				

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
LUIS VASQUEZ MULCH S	3665 HAVEN AVEUNE	NNW 0 - 1/8 (0.017 mi.)	A11	19
Database: SWF/LF (SWIS), Date of Government Version: 08/08/2022				
Facility ID: 41-AA-0186				
Operational Status: Closed				
Regulation Status: Notification				

### ***Lists of state and tribal leaking storage tanks***

CA LUST: Leaking Underground Storage Tank (LUST) Sites included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

A review of the CA LUST list, as provided by EDR, has revealed that there are 25 CA LUST sites within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>CT INTERNATIONAL SAL</b>	<b>3645 HAVEN</b>	<b>NNW 0 - 1/8 (0.062 mi.)</b>	<b>D45</b>	<b>196</b>
Database: SAN MATEO CO. LUST, Date of Government Version: 03/29/2019				
Facility Id: 449077				

## EXECUTIVE SUMMARY

Facility Status: 9- Case Closed  
Global ID: SL0608120935

**LEMMON'S SIGNS** **3636 HAVEN** **W 0 - 1/8 (0.071 mi.)** **B50** **227**

Database: SAN MATEO CO. LUST, Date of Government Version: 03/29/2019  
Database: LUST REG 2, Date of Government Version: 09/30/2004  
Database: LUST, Date of Government Version: 08/31/2022  
Status: Completed - Case Closed  
Facility Status: Case Closed  
Facility Id: 330108  
Facility Status: 9- Case Closed  
Global Id: T0608100150  
Global ID: T0608100150  
date9: 3/29/1996

**RB TRACTOR WORK** **3633 HAVEN** **W 0 - 1/8 (0.074 mi.)** **B57** **245**

Database: SAN MATEO CO. LUST, Date of Government Version: 03/29/2019  
Facility Id: 449080  
Facility Status: 9- Case Closed  
Global ID: SL0608127363

**ANTON MENLO** **3605- 3639 HAVEN AVE** **W 0 - 1/8 (0.120 mi.)** **H74** **414**

Database: SAN MATEO CO. LUST, Date of Government Version: 03/29/2019  
Facility Id: 449088  
Facility Status: 9- Case Closed  
Global ID: T10000004645

**SHOOTER LANDSCAPING** **3605 HAVEN** **WNW 1/8 - 1/4 (0.146 mi.)** **H86** **432**

Database: SAN MATEO CO. LUST, Date of Government Version: 03/29/2019  
Database: LUST REG 2, Date of Government Version: 09/30/2004  
Database: LUST, Date of Government Version: 08/31/2022  
Status: Completed - Case Closed  
Facility Status: Case Closed  
Facility Id: 440058  
Facility Status: 9- Case Closed  
Global Id: T0608105455  
Global ID: T0608105455  
date9: 3/6/2002

**REDWOOD MOTOR COURT** **3706 ROLISON** **WSW 1/8 - 1/4 (0.180 mi.)** **J102** **499**

Database: SAN MATEO CO. LUST, Date of Government Version: 03/29/2019  
Database: LUST REG 2, Date of Government Version: 09/30/2004  
Database: LUST, Date of Government Version: 08/31/2022  
Status: Completed - Case Closed  
Facility Status: Post remedial action monitoring  
Facility Id: 330187  
Facility Status: 9- Case Closed  
Global Id: T0608114600  
Global ID: T0608114600

**PIERCE INGER TRUST,** **3592 HAVEN** **W 1/8 - 1/4 (0.183 mi.)** **M109** **518**

Database: SAN MATEO CO. LUST, Date of Government Version: 03/29/2019  
Database: LUST, Date of Government Version: 08/31/2022  
Status: Completed - Case Closed  
Facility Id: 330208  
Facility Status: 9- Case Closed  
Global Id: T0608129088  
Global ID: T0608129088

**MIDLAND PACIFIC CORP** **3536 HAVEN** **W 1/8 - 1/4 (0.217 mi.)** **M131** **563**

Database: SAN MATEO CO. LUST, Date of Government Version: 03/29/2019  
Database: LUST REG 2, Date of Government Version: 09/30/2004  
Database: LUST, Date of Government Version: 08/31/2022



## EXECUTIVE SUMMARY

Facility Id: 440032  
 Facility Status: 9- Case Closed  
 Global ID: T0608100295  
 date9: 6/30/1998

**INFORMIX** **3905 BOHANNON** **S 1/4 - 1/2 (0.458 mi.)** **167** **664**

Database: SAN MATEO CO. LUST, Date of Government Version: 03/29/2019  
 Database: LUST, Date of Government Version: 08/31/2022  
 Status: Completed - Case Closed  
 Facility Id: 449060  
 Facility Status: 9- Case Closed  
 Global Id: T0608162345  
 Global ID: T0608162345

**PHARM CHEM LABS INC** **3925 BOHANNON DR** **SSE 1/4 - 1/2 (0.460 mi.)** **S169** **674**

Database: LUST REG 2, Date of Government Version: 09/30/2004  
 Facility Id: 41S0045  
 Facility Status: Post remedial action monitoring

**U.S. POSTAL SERVICE** **3875 BOHANNON** **S 1/4 - 1/2 (0.464 mi.)** **170** **675**

Database: SAN MATEO CO. LUST, Date of Government Version: 03/29/2019  
 Database: LUST REG 2, Date of Government Version: 09/30/2004  
 Database: LUST, Date of Government Version: 08/31/2022  
 Status: Completed - Case Closed  
 Facility Status: Case Closed  
 Facility Id: 440039  
 Facility Status: 9- Case Closed  
 Global Id: T0608100327  
 Global ID: T0608100327  
 date9: 10/15/1999

**CHEVRON STATION#9075** **3805 BOHANNON DR** **SSW 1/4 - 1/2 (0.473 mi.)** **T171** **678**

Database: SAN MATEO CO. LUST, Date of Government Version: 03/29/2019  
 Database: LUST, Date of Government Version: 08/31/2022  
 Status: Completed - Case Closed  
 Facility Id: 440052  
 Facility Status: 9- Case Closed  
 Global Id: T0608100997  
 Global ID: T0608100997

**CHEVRON 9-0754** **3805 BOHANNON** **SSW 1/4 - 1/2 (0.478 mi.)** **T172** **683**

Database: LUST REG 2, Date of Government Version: 09/30/2004  
 Facility Status: Case Closed  
 date9: 6/15/2004

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>BAY MATERIALS LLC</b>	<b>3700 HAVEN</b>	<b>SSE 0 - 1/8 (0.044 mi.)</b>	<b>C35</b>	<b>154</b>
Database: SAN MATEO CO. LUST, Date of Government Version: 03/29/2019 Database: LUST, Date of Government Version: 08/31/2022 Status: Completed - Case Closed Facility Id: 440033 Facility Status: 9- Case Closed Global Id: T0608100629 Global ID: T0608100629				
<b>CARL OLSON AND SONS</b>	<b>3750 HAVEN AVE</b>	<b>NE 0 - 1/8 (0.091 mi.)</b>	<b>E60</b>	<b>251</b>
Database: SAN MATEO CO. LUST, Date of Government Version: 03/29/2019 Database: LUST REG 2, Date of Government Version: 09/30/2004 Database: LUST, Date of Government Version: 08/31/2022				

## EXECUTIVE SUMMARY

Status: Completed - Case Closed  
 Facility Status: Case Closed  
 Facility Id: 440017  
 Facility Status: 9- Case Closed  
 Global Id: T0608100104  
 Global ID: T0608100104  
 date9: 8/10/1995

**115 CONSTITUTION DR**                                      **115 CONSTITUTION DR**                                      **E 1/8 - 1/4 (0.225 mi.)**                                      **L140**                                      **583**  
 Database: LUST REG 2, Date of Government Version: 09/30/2004  
 Facility Id: 41-1145  
 Facility Status: Case Closed  
 date9: 4/1/1998

**MOREING COMPANY**                                      **120 CONSTITUTION**                                      **ESE 1/4 - 1/2 (0.262 mi.)**                                      **O152**                                      **610**  
 Database: LUST, Date of Government Version: 08/31/2022  
 Status: Completed - Case Closed  
 Global Id: T0608100690

**MOREING COMPANY**                                      **120 CONSTITUTION DR**                                      **ESE 1/4 - 1/2 (0.262 mi.)**                                      **O154**                                      **613**  
 Database: LUST REG 2, Date of Government Version: 09/30/2004  
 Facility Id: 41-0729  
 Facility Status: Case Closed  
 date9: 4/8/1998

CA CPS-SLIC: Cleanup Program Sites (CPS; also known as Site Cleanups [SC] and formerly known as Spills, Leaks, Investigations, and Cleanups [SLIC] sites) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

A review of the CA CPS-SLIC list, as provided by EDR, has revealed that there are 14 CA CPS-SLIC sites within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>CT INTERNATIONAL SAL</b> Database: CPS-SLIC, Date of Government Version: 08/31/2022 Facility Status: Completed - Case Closed Global Id: SL0608120935	<b>3645 HAVEN</b>	<b>NNW 0 - 1/8 (0.062 mi.)</b>	<b>D45</b>	<b>196</b>
<b>RB TRACTOR WORK</b> Database: CPS-SLIC, Date of Government Version: 08/31/2022 Facility Status: Completed - Case Closed Global Id: SL0608127363	<b>3633 HAVEN</b>	<b>W 0 - 1/8 (0.074 mi.)</b>	<b>B57</b>	<b>245</b>
<b>ANTON MENLO</b> Database: CPS-SLIC, Date of Government Version: 08/31/2022 Facility Status: Completed - Case Closed Global Id: T10000004645	<b>3605-3639 HAVEN AVEN</b>	<b>WNW 1/8 - 1/4 (0.146 mi.)</b>	<b>H85</b>	<b>431</b>
<b>STUDIO RED</b> Database: SLIC REG 2, Date of Government Version: 09/30/2004 Facility Id: SLT2O100106	<b>115 INDEPENDENCE</b>	<b>ESE 1/8 - 1/4 (0.221 mi.)</b>	<b>I133</b>	<b>568</b>
<b>MENLO PORTAL</b> Database: CPS-SLIC, Date of Government Version: 08/31/2022 Facility Status: Open - Remediation Global Id: SLT2O100106	<b>115 INDEPENDENCE DRI</b>	<b>ESE 1/8 - 1/4 (0.221 mi.)</b>	<b>I134</b>	<b>570</b>
<b>FITNESS 101 AND FORM</b> Database: CPS-SLIC, Date of Government Version: 08/31/2022	<b>4085 CAMPBELL AVENUE</b>	<b>S 1/8 - 1/4 (0.243 mi.)</b>	<b>147</b>	<b>600</b>

## EXECUTIVE SUMMARY

Facility Status: Completed - Case Closed  
Global Id: T1000003488

<b>WVP III</b> Database: CPS-SLIC, Date of Government Version: 08/31/2022 Facility Status: Completed - Case Closed Global Id: T0608126742	<b>4040 CAMPBELL</b>	<b>SSE 1/4 - 1/2 (0.367 mi.)</b>	<b>Q161</b>	<b>642</b>
<b>KREBS ENGINEERS</b> Database: CPS-SLIC, Date of Government Version: 08/31/2022 Facility Status: Completed - Case Closed Global Id: T0608100940	<b>1205 CHRYSLER</b>	<b>ESE 1/4 - 1/2 (0.396 mi.)</b>	<b>R162</b>	<b>646</b>
<b>AMOROSO PROPERTY</b> Database: CPS-SLIC, Date of Government Version: 08/31/2022 Facility Status: Completed - Case Closed Global Id: SL0608132881	<b>135 COMMONWEALTH DRI</b>	<b>SE 1/4 - 1/2 (0.449 mi.)</b>	<b>164</b>	<b>659</b>
<b>PHARM CHEM LABORATOR</b> Database: CPS-SLIC, Date of Government Version: 08/31/2022 Facility Status: Completed - Case Closed Global Id: SLT2O096102	<b>3925 BOHANNON DRIVE</b>	<b>SSE 1/4 - 1/2 (0.460 mi.)</b>	<b>S168</b>	<b>669</b>
<b>PHARM CHEM LABS INC</b> Database: SLIC REG 2, Date of Government Version: 09/30/2004 Facility Id: SLT2O096102	<b>3925 BOHANNON DR</b>	<b>SSE 1/4 - 1/2 (0.460 mi.)</b>	<b>S169</b>	<b>674</b>
MENLO UPTOWN Database: CPS-SLIC, Date of Government Version: 08/31/2022 Facility Status: Open - Remediation Global Id: T10000014570	141 JEFFERSON DRIVE	ESE 1/4 - 1/2 (0.495 mi.)	U173	684

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>3723 HAVEN AVENUE DE</b> Database: CPS-SLIC, Date of Government Version: 08/31/2022 Facility Status: Open - Assessment & Interim Remedial Action Global Id: T10000012491	<b>3723 HAVEN AVENUE</b>	<b>NNE 0 - 1/8 (0.078 mi.)</b>	<b>E58</b>	<b>247</b>
<b>JA MOREING COMPANY</b> Database: SLIC REG 2, Date of Government Version: 09/30/2004 Facility Id: SLT2O098104	<b>120 CONSTITUTION DR</b>	<b>ESE 1/4 - 1/2 (0.262 mi.)</b>	<b>O153</b>	<b>612</b>

### **Lists of state and tribal brownfield sites**

CA BROWNFIELDS: A listing of sites the SWRCB considers to be Brownfields since these are sites have come to them through the MOA Process.

A review of the CA BROWNFIELDS list, as provided by EDR, and dated 09/19/2022 has revealed that there are 2 CA BROWNFIELDS sites within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
WEST VALLEY PROP (WV)	4040 CAMPBELL AVENUE	SSE 1/4 - 1/2 (0.367 mi.)	Q160	641
MENLO UPTOWN	141 JEFFERSON DRIVE	ESE 1/4 - 1/2 (0.495 mi.)	U174	685

# EXECUTIVE SUMMARY

## ADDITIONAL ENVIRONMENTAL RECORDS

### **Local Lists of Hazardous waste / Contaminated Sites**

CA CERS HAZ WASTE: List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Hazardous Chemical Management, Hazardous Waste Onsite Treatment, Household Hazardous Waste Collection, Hazardous Waste Generator, and RCRA LQ HW Generator programs.

A review of the CA CERS HAZ WASTE list, as provided by EDR, and dated 01/05/2023 has revealed that there are 9 CA CERS HAZ WASTE sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>SYNTHEGO CORP</b>	<b>3696 HAVEN AVE STE A</b>	<b>WSW 0 - 1/8 (0.028 mi.)</b>	<b>A20</b>	<b>30</b>
<b>DESIGNCO</b>	<b>3641 HAVEN</b>	<b>W 0 - 1/8 (0.053 mi.)</b>	<b>B42</b>	<b>183</b>
<b>CARLSEN MOTOR CARS,</b>	<b>3636 HAVEN AVE</b>	<b>W 0 - 1/8 (0.071 mi.)</b>	<b>B48</b>	<b>202</b>
<b>MAINSRING ENERGY IN</b>	<b>3601 HAVEN AVE</b>	<b>WNW 1/8 - 1/4 (0.156 mi.)</b>	<b>H96</b>	<b>470</b>
<b>EL DORADO FORKLIFT C</b>	<b>3582 HAVEN AVE</b>	<b>W 1/8 - 1/4 (0.211 mi.)</b>	<b>M126</b>	<b>551</b>
<b>GRIFFIN PAINTING, IN</b>	<b>3580 HAVEN AVE 2</b>	<b>W 1/8 - 1/4 (0.232 mi.)</b>	<b>M144</b>	<b>588</b>
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>STANFORD HEALTH CARE</b>	<b>3700 HAVEN CT</b>	<b>SSE 0 - 1/8 (0.044 mi.)</b>	<b>C32</b>	<b>144</b>
<b>FEDERAL EXPRESS-PAOA</b>	<b>3750 HAVEN AVE</b>	<b>NE 0 - 1/8 (0.102 mi.)</b>	<b>F63</b>	<b>319</b>
<b>META PLATFORMS, INC.</b>	<b>105/155 CONSTITUTION</b>	<b>E 1/8 - 1/4 (0.180 mi.)</b>	<b>L106</b>	<b>508</b>

### **Local Lists of Registered Storage Tanks**

CA SWEEPS UST: Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

A review of the CA SWEEPS UST list, as provided by EDR, and dated 06/01/1994 has revealed that there are 4 CA SWEEPS UST sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>LEMMONS SIGNS</b> Status: A Comp Number: 330193	<b>3636 HAVEN AVENUE</b>	<b>W 0 - 1/8 (0.071 mi.)</b>	<b>B51</b>	<b>230</b>
<b>EL DORADO FORKLIFT</b> Comp Number: 440080	<b>3607 HAVEN AVE</b>	<b>WNW 1/8 - 1/4 (0.141 mi.)</b>	<b>H82</b>	<b>425</b>
<b>JOHN J SHOOTER INC</b> Status: A Tank Status: A Comp Number: 440022	<b>3605 HAVEN AVE</b>	<b>WNW 1/8 - 1/4 (0.146 mi.)</b>	<b>H84</b>	<b>429</b>
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>IGH CORPORATION</b> Status: A	<b>3700 HAVEN CT</b>	<b>SSE 0 - 1/8 (0.044 mi.)</b>	<b>C36</b>	<b>156</b>



## EXECUTIVE SUMMARY

Tank Status: A  
Comp Number: 440058

CA HIST UST: Historical UST Registered Database.

A review of the CA HIST UST list, as provided by EDR, and dated 10/15/1990 has revealed that there are 14 CA HIST UST sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
INDUSTRIAL GARDEN MA Facility Id: 00000011468	3700 HAVEN AVE	SW 0 - 1/8 (0.011 mi.)	A10	18
SILTEC CORPORATION ( Facility Id: 00000001827	3698 HAVEN AVE	WSW 0 - 1/8 (0.025 mi.)	A14	26
<b>CORRELL PROPERTIES</b> CORRELL PROPERTIES Facility Id: 00000038150	<b>3641 HAVEN AVENUE</b> 3641 HAVEN AVE	<b>W 0 - 1/8 (0.053 mi.)</b> W 0 - 1/8 (0.053 mi.)	<b>B38</b> B39	<b>161</b> 176
<b>PIERS DAIRY</b> Facility Id: 00000037583	<b>3611 HAVEN AVE</b>	<b>WNW 1/8 - 1/4 (0.131 mi.)</b>	<b>H78</b>	<b>419</b>
<b>JOHN J SHOOTER INC</b> <b>SHOOTER LANDSCAPING</b> Facility Id: 00000065329	<b>3605 HAVEN AVE</b> <b>3605 HAVEN</b>	<b>WNW 1/8 - 1/4 (0.146 mi.)</b> <b>WNW 1/8 - 1/4 (0.146 mi.)</b>	<b>H84</b> <b>H86</b>	<b>429</b> <b>432</b>
<b>GENERAL CIRCUITS INC</b> Facility Id: 00000000648	<b>3585 HAVEN AVENUE</b>	<b>WNW 1/8 - 1/4 (0.198 mi.)</b>	<b>M120</b>	<b>537</b>

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>IGH CORPORATION</b>	<b>3700 HAVEN CT</b>	<b>SSE 0 - 1/8 (0.044 mi.)</b>	<b>C36</b>	<b>156</b>
<b>SILTEC CORPORATION (</b> Facility Id: 00000001828	<b>3717 HAVEN AVE</b>	<b>NNE 0 - 1/8 (0.071 mi.)</b>	<b>E56</b>	<b>244</b>
<b>CARL OLSON AND SONS</b> Facility Id: 00000001726	<b>3750 HAVEN AVE</b>	<b>NE 0 - 1/8 (0.091 mi.)</b>	<b>E60</b>	<b>251</b>
<b>CARL W OLSON AND SON</b> <b>ENGENICS, INC.</b> Facility Id: 00000014650	<b>3750 HAVEN AVE</b> <b>3760 HAVEN AVE</b>	<b>NE 0 - 1/8 (0.102 mi.)</b> <b>E 0 - 1/8 (0.107 mi.)</b>	<b>F62</b> <b>G65</b>	<b>259</b> <b>331</b>
<b>ENGENICS INC</b>	<b>3760 HAVEN AVENUE</b>	<b>E 0 - 1/8 (0.107 mi.)</b>	<b>G70</b>	<b>389</b>

CA FID UST: The Facility Inventory Database contains active and inactive underground storage tank locations. The source is the State Water Resource Control Board.

A review of the CA FID UST list, as provided by EDR, and dated 10/31/1994 has revealed that there are 3 CA FID UST sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>LEMMONS SIGNS</b> Facility Id: 41000319 Status: A	<b>3636 HAVEN AVENUE</b>	<b>W 0 - 1/8 (0.071 mi.)</b>	<b>B51</b>	<b>230</b>
<b>JOHN J SHOOTER INC</b> Facility Id: 41002864	<b>3605 HAVEN AVE</b>	<b>WNW 1/8 - 1/4 (0.146 mi.)</b>	<b>H84</b>	<b>429</b>

## EXECUTIVE SUMMARY

Status: A

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>IGH CORPORATION</b> Facility Id: 41000607 Status: A	<b>3700 HAVEN CT</b>	<b>SSE 0 - 1/8 (0.044 mi.)</b>	<b>C36</b>	<b>156</b>

CA CERS TANKS: List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Aboveground Petroleum Storage and Underground Storage Tank regulatory programs.

A review of the CA CERS TANKS list, as provided by EDR, and dated 01/06/2023 has revealed that there is 1 CA CERS TANKS site within approximately 0.25 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>META PLATFORMS, INC.</b>	<b>105/155 CONSTITUTION</b>	<b>E 1/8 - 1/4 (0.180 mi.)</b>	<b>L106</b>	<b>508</b>

### Local Land Records

CA DEED: The use of recorded land use restrictions is one of the methods the DTSC uses to protect the public from unsafe exposures to hazardous substances and wastes .

A review of the CA DEED list, as provided by EDR, and dated 08/25/2022 has revealed that there is 1 CA DEED site within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>CT INTERNATIONAL SAL</b> Status: COMPLETED - CASE CLOSED Envirostor ID: SL0608120935	<b>3645 HAVEN</b>	<b>NNW 0 - 1/8 (0.062 mi.)</b>	<b>D45</b>	<b>196</b>

### Other Ascertainable Records

RCRA NonGen / NLR: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

A review of the RCRA NonGen / NLR list, as provided by EDR, and dated 11/21/2022 has revealed that there are 30 RCRA NonGen / NLR sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
ACHELOIS BIOPHARMA EPA ID:: CAL000410886	3698 HAVEN AVE STE A	WSW 0 - 1/8 (0.025 mi.)	A12	21
UBIQUITOUS ENERGY IN EPA ID:: CAL000403676	3696 HAVEN AVE STE B	WSW 0 - 1/8 (0.028 mi.)	A28	133
DESIGNCO	3641 HAVEN AVE	W 0 - 1/8 (0.053 mi.)	B40	177

## EXECUTIVE SUMMARY

EPA ID:: CAL000249462				
ANTON MENLO EPA ID:: CAC003195756	3639 HAVEN AVENUE	W 0 - 1/8 (0.059 mi.)	B43	193
MP MOSAIC GARDEN ASS EPA ID:: CAC003001713	3752 ROLISON RD.	SW 1/8 - 1/4 (0.133 mi.)	79	421
ELDORADO FORKLIFT CO EPA ID:: CAR000086751	3607 HAVEN AVE	WNW 1/8 - 1/4 (0.141 mi.)	H83	427
TELOMERE DIAGNOSTICS EPA ID:: CAL000397563	3603 HAVEN AVE	WNW 1/8 - 1/4 (0.151 mi.)	H89	448
BIOCOLLECTION INC EPA ID:: CAL000434644	3603 HAVEN AVE STE A	WNW 1/8 - 1/4 (0.151 mi.)	H92	463
MAINSRING ENERGY IN EPA ID:: CAL000438040	3601 HAVEN AVE	WNW 1/8 - 1/4 (0.156 mi.)	H98	476
FIDEL PACHECO EPA ID:: CAC002989606	3760 HOOVER STREET	SSW 1/8 - 1/4 (0.176 mi.)	100	496
ATT EPA ID:: CAL000382274	1200 MARSH RD	S 1/8 - 1/4 (0.180 mi.)	K104	503
INNOVATIVE DRIVE COR EPA ID:: CAL000364456	3592 HAVEN AVE STE A	W 1/8 - 1/4 (0.183 mi.)	M108	516
VIESTURS BENKIS EPA ID:: CAC003088641	3725 HOOVER STREET	SW 1/8 - 1/4 (0.186 mi.)	J113	524
WORKSHOP 337 LLC EPA ID:: CAL000449730	3585 HAVEN AVE UNIT	WNW 1/8 - 1/4 (0.198 mi.)	M117	529
RAK MOTORSPORTS EPA ID:: CAL000391410	3585 HAVEN AVE UNIT	WNW 1/8 - 1/4 (0.198 mi.)	M118	532
SYNTHEGO CORPORATION EPA ID:: CAL000472555	3585 HAVEN AVE STE A	WNW 1/8 - 1/4 (0.198 mi.)	M119	534
ELDORADO FORKLIFT CO EPA ID:: CAL000326209	3582 HAVEN AVE	W 1/8 - 1/4 (0.211 mi.)	M127	559
STUDIO RED INC EPA ID:: CAL000138931	115 INDEPENDENCE DR	ESE 1/8 - 1/4 (0.221 mi.)	I132	566
WATERGURU INC. EPA ID:: CAC003100545	115 INDEPENDENCE DR.	ESE 1/8 - 1/4 (0.221 mi.)	I135	574
GRIFFIN PAINTING INC EPA ID:: CAL000279457	3580 HAVEN AVE STE 2	W 1/8 - 1/4 (0.232 mi.)	M143	586
DNG CUMMINGS INC DBA EPA ID:: CAL000417735	3580 HAVEN AVE STE 1	W 1/8 - 1/4 (0.232 mi.)	M146	598
SITWORKS LANDSCAPE EPA ID:: CAC002982330	3570 HAVEN AVE	W 1/8 - 1/4 (0.249 mi.)	N150	606
<b>Lower Elevation</b>	<b>Address</b>	<b>Direction / Distance</b>	<b>Map ID</b>	<b>Page</b>
STANFORD HEALTH CARE EPA ID:: CAL000452646	3700 HAVEN CT M/C 57	SSE 0 - 1/8 (0.044 mi.)	C33	149
BAY MATERIALS LLC EPA ID:: CAL000306116	3700 HAVEN CT	SSE 0 - 1/8 (0.044 mi.)	C34	151
SUMCO PHOENIX CORPOR	3723 HAVEN AVENUE	NNE 0 - 1/8 (0.078 mi.)	E59	248

## EXECUTIVE SUMMARY

EPA ID:: CAC003088972				
FEDERAL EXPRESS CORP	3750 HAVEN AVE	NE 0 - 1/8 (0.102 mi.)	F64	329
EPA ID:: CAL000175218				
<b>NANOSYN INC</b>	<b>3760 HAVEN AVE</b>	<b>E 0 - 1/8 (0.107 mi.)</b>	<b>G66</b>	<b>334</b>
EPA ID:: CAD982343899				
ENGENICS	3760 HAVEN AVE	E 0 - 1/8 (0.107 mi.)	G67	379
EPA ID:: CAD013070974				
UNITED RENTALS (NORT	105 CONSTITUTION DRI	E 1/8 - 1/4 (0.180 mi.)	L105	506
EPA ID:: CAC002983090				
GS MP PORTAL OWNER,	110 CONSTITUTION DR	ESE 1/8 - 1/4 (0.224 mi.)	L136	576
EPA ID:: CAC003146591				

PFAS ECHO: Regulators and the public have expressed interest in knowing which regulated entities may be using PFAS. EPA has developed a dataset from various sources that show which industries may be handling PFAS. Approximately 120,000 facilities subject to federal environmental programs have operated or currently operate in industry sectors with processes that may involve handling and/or release of PFAS.

A review of the PFAS ECHO list, as provided by EDR, and dated 01/03/2022 has revealed that there are 9 PFAS ECHO sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
GOODMAN BALL, INC	37.4856/-122.18383	W 0 - 1/8 (0.068 mi.)	B47	201
DESIGNCO	37.48715/-122.18303	NNW 0 - 1/8 (0.095 mi.)	D61	258
PREMIER PROPERTIES	37.4861/-122.18599	W 1/8 - 1/4 (0.192 mi.)	M114	526
GENERAL CIRCUITS INC	37.48612/-122.18607	W 1/8 - 1/4 (0.196 mi.)	M115	528
BAY PACKAGING & CONV	37.48629/-122.18697	WNW 1/8 - 1/4 (0.247 mi.)	N149	602
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
KOB AUTO INC	37.48609/-122.18156	NE 0 - 1/8 (0.030 mi.)	A30	142
BAY MATERIALS LLC	37.48458/-122.18182	SSE 0 - 1/8 (0.049 mi.)	C37	159
NANOSYN	37.48658/-122.17976	ENE 1/8 - 1/4 (0.129 mi.)	F77	418
THERMAL TECHNOLOGY I	37.48504/-122.17783	E 1/8 - 1/4 (0.225 mi.)	L141	584

Hazardous Materials Business Plan, Hazardous Waste Generator, Underground Storage tanks

A review of the CA San Mateo Co. BI list, as provided by EDR, and dated 02/20/2020 has revealed that there are 58 CA San Mateo Co. BI sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
ACHELOIS ONCOLOGY IN Facility Id: FA0060928	3698 HAVEN	WSW 0 - 1/8 (0.025 mi.)	A13	25
CARDIOKINETIX INC Facility Id: FA0029706	3698 HAVEN	WSW 0 - 1/8 (0.025 mi.)	A15	27
BAROSENSE INC Facility Id: FA0039009 Facility Id: FA0040952	3698 HAVEN	WSW 0 - 1/8 (0.025 mi.)	A16	27
EOPLEX TECHNOLOGIES	3698 HAVEN	WSW 0 - 1/8 (0.025 mi.)	A17	28

## EXECUTIVE SUMMARY

Facility Id: FA0029708				
CHEMO CENTRYX Facility Id: FA0028278	3696 HAVEN	WSW 0 - 1/8 (0.028 mi.)	A18	29
ADVANCED POLYMER SYS Facility Id: FA0017463	3696 HAVEN	WSW 0 - 1/8 (0.028 mi.)	A19	29
KOVIO, INC Facility Id: FA0025915	3696 HAVEN	WSW 0 - 1/8 (0.028 mi.)	A21	116
ENVIVO PHARMACEUTICA Facility Id: FA0027179	3696C HAVEN	WSW 0 - 1/8 (0.028 mi.)	A24	130
NANOSTELLAR INC Facility Id: FA0029703	3696 HAVEN	WSW 0 - 1/8 (0.028 mi.)	A25	131
UBIQUITOUS ENERGY Facility Id: FA0061020	3696 HAVEN	WSW 0 - 1/8 (0.028 mi.)	A26	131
ALDEA PHARMACEUTICAL Facility Id: FA0052607 Facility Id: FA0054063	3696 HAVEN	WSW 0 - 1/8 (0.028 mi.)	A27	132
ROOTES GROUP DEPOT Facility Id: FA0040769	3651 HAVEN	W 0 - 1/8 (0.040 mi.)	B31	143
<b>DESIGNCO</b> Facility Id: FA0026074	<b>3641 HAVEN</b>	<b>W 0 - 1/8 (0.053 mi.)</b>	<b>B42</b>	<b>183</b>
<b>CHEVRON SERVICE STAT</b> Facility Id: FA0014360	<b>3639 HAVEN</b>	<b>W 0 - 1/8 (0.059 mi.)</b>	<b>B44</b>	<b>195</b>
<b>CT INTERNATIONAL SAL</b> Facility Id: FA0023995 Facility Id: FA0037250 Facility Id: FA0040930 Facility Id: FA0027110	<b>3645 HAVEN</b>	<b>NNW 0 - 1/8 (0.062 mi.)</b>	<b>D45</b>	<b>196</b>
DOUBLE D PAVING Facility Id: FA0025951 Facility Id: FA0025953	3637 HAVEN	W 0 - 1/8 (0.064 mi.)	B46	200
CARLSEN MOTOR CARS, Facility Id: FA0027372	3636 HAVEN	W 0 - 1/8 (0.071 mi.)	B49	227
LEMMON SIGNS Facility Id: FA0003522	3636 HAVEN	W 0 - 1/8 (0.071 mi.)	B53	235
<b>RB TRACTOR WORK</b> Facility Id: FA0022907 Facility Id: FA0022908	<b>3633 HAVEN</b>	<b>W 0 - 1/8 (0.074 mi.)</b>	<b>B57</b>	<b>245</b>
A J EITNER REPAIRS Facility Id: FA0002354	3624 HAVEN	W 0 - 1/8 (0.117 mi.)	H71	409
<b>C F ARCHIBALD PAVING</b> Facility Id: FA0012927	<b>3624 HAVEN AVE</b>	<b>W 0 - 1/8 (0.117 mi.)</b>	<b>H72</b>	<b>409</b>
ANGIES POOL REPAIR Facility Id: FA0015580	3624 HAVEN	W 0 - 1/8 (0.117 mi.)	H73	413
CAMENZIND DREDGING Facility Id: FA0022624 Facility Id: FA0022892 Facility Id: FA0016417 Facility Id: FA0026855	3615 HAVEN	WNW 0 - 1/8 (0.120 mi.)	H76	416
<b>PIERS DAIRY</b>	<b>3611 HAVEN AVE</b>	<b>WNW 1/8 - 1/4 (0.131 mi.)</b>	<b>H78</b>	<b>419</b>

## EXECUTIVE SUMMARY

Facility Id: FA0022580				
BLACK MOUNTAIN SPRIN Facility Id: FA0005280	3609 HAVEN	WNW 1/8 - 1/4 (0.136 mi.)	H80	424
GUYS ROOFING Facility Id: FA0013089	3620 HAVEN	W 1/8 - 1/4 (0.136 mi.)	H81	425
<b>EL DORADO FORKLIFT</b> Facility Id: FA0012506 Facility Id: FA0017648	<b>3607 HAVEN AVE</b>	<b>WNW 1/8 - 1/4 (0.141 mi.)</b>	<b>H82</b>	<b>425</b>
<b>SHOOTER LANDSCAPING</b> Facility Id: FA0022912 Facility Id: FA0017571	<b>3605 HAVEN</b>	<b>WNW 1/8 - 1/4 (0.146 mi.)</b>	<b>H86</b>	<b>432</b>
LANDEC CORPORATION Facility Id: FA0007383 Facility Id: FA0051258 Facility Id: FA0052966 Facility Id: FA0055899 Facility Id: FA0030897	3603 HAVEN	WNW 1/8 - 1/4 (0.151 mi.)	H87	443
<i>*Additional key fields are available in the Map Findings section</i>				
HONEYCOMB BIOSCIENCE Facility Id: FA0066309	3603 HAVEN	WNW 1/8 - 1/4 (0.151 mi.)	H88	447
<b>NVS TECHNOLOGIES INC</b> Facility Id: FA0060174	<b>3603 HAVEN AVE STE A</b>	<b>WNW 1/8 - 1/4 (0.151 mi.)</b>	<b>H91</b>	<b>456</b>
AT&T MOBILITY - REDW Facility Id: FA0029297		W 1/8 - 1/4 (0.155 mi.)	H93	466
AT & T WIRELESS Facility Id: FA0028553	3600 HAVEN	W 1/8 - 1/4 (0.155 mi.)	H94	466
ETAGEN INTERNATIONAL Facility Id: FA0064694	3601 HAVEN	WNW 1/8 - 1/4 (0.156 mi.)	H97	476
<b>SCALE MODELS UNLIMIT</b> Facility Id: FA0017615	<b>111 INDEPENDENCE DR</b>	<b>ESE 1/8 - 1/4 (0.176 mi.)</b>	<b>I99</b>	<b>480</b>
REDWOOD COURT MOTEL Facility Id: FA0021430	3706 ROLISON	WSW 1/8 - 1/4 (0.180 mi.)	J101	498
AT&T CALIFORNIA - CA Facility Id: FA0057398	1200 MARSH	S 1/8 - 1/4 (0.180 mi.)	K103	503
HAVEN OWNERS Facility Id: FA0028437	3592 HAVEN	W 1/8 - 1/4 (0.183 mi.)	M110	522
INNOVATIVE DRIVE COR Facility Id: FA0067031	3592 HAVEN	W 1/8 - 1/4 (0.183 mi.)	M111	522
BENNETT HOPKINS CORP Facility Id: FA0004005	3592 HAVEN	W 1/8 - 1/4 (0.183 mi.)	M112	523
RAK MOTORSPORTS Facility Id: FA0064630	3585 HAVEN	WNW 1/8 - 1/4 (0.198 mi.)	M116	529
<b>GENERAL CIRCUITS INC</b> Facility Id: FA0022969 Facility Id: FA0027450	<b>3585 HAVEN AVENUE</b>	<b>WNW 1/8 - 1/4 (0.198 mi.)</b>	<b>M120</b>	<b>537</b>
ALS ROOFING SUPPLY Facility Id: FA0012934	3586 HAVEN	W 1/8 - 1/4 (0.199 mi.)	M122	547
B & D AUTOWORKS	1253 ANNETTE	WSW 1/8 - 1/4 (0.210 mi.)	J123	547

## EXECUTIVE SUMMARY

Facility Id: FA0022857				
EL DORADO FORKLIFT C Facility Id: FA0037676	3582 HAVEN	W 1/8 - 1/4 (0.211 mi.)	M125	550
DE MARTINIS SANDWICH Facility Id: FA0002055	3582 HAVEN	W 1/8 - 1/4 (0.211 mi.)	M128	562
VAZQUEZ GARAGE Facility Id: FA0016122	1251 ANNETTE	WSW 1/8 - 1/4 (0.213 mi.)	J129	562
T MOBILE WEST CORP S Facility Id: FA0046201	1251 ANNETTE	WSW 1/8 - 1/4 (0.213 mi.)	J130	562
<b>STUDIO RED</b> Facility Id: FA0052107	<b>115 INDEPENDENCE</b>	<b>ESE 1/8 - 1/4 (0.221 mi.)</b>	<b>I133</b>	<b>568</b>
GRIFFIN PAINTING, IN Facility Id: FA0028325	3580 HAVEN	W 1/8 - 1/4 (0.232 mi.)	M142	585
ACTION SIGN SYSTEMS, Facility Id: FA0060529	3580 HAVEN	W 1/8 - 1/4 (0.232 mi.)	M145	597
CHAMP INC DBA FITNES Facility Id: FA0022733	40 SCOTT	S 1/8 - 1/4 (0.243 mi.)	148	601
<b>Lower Elevation</b>	<b>Address</b>	<b>Direction / Distance</b>	<b>Map ID</b>	<b>Page</b>
<b>BAY MATERIALS LLC</b> Facility Id: FA0031593	<b>3700 HAVEN</b>	<b>SSE 0 - 1/8 (0.044 mi.)</b>	<b>C35</b>	<b>154</b>
<b>SILTEC CORPORATION (</b> Facility Id: FA0016566	<b>3717 HAVEN AVE</b>	<b>NNE 0 - 1/8 (0.071 mi.)</b>	<b>E56</b>	<b>244</b>
<b>CARL OLSON AND SONS</b> Facility Id: FA0024201	<b>3750 HAVEN AVE</b>	<b>NE 0 - 1/8 (0.091 mi.)</b>	<b>E60</b>	<b>251</b>
<b>ENGENICS, INC.</b> Facility Id: FA0006222 Facility Id: FA0050710 Facility Id: FA0027968 Facility Id: FA0029024	<b>3760 HAVEN AVE</b>	<b>E 0 - 1/8 (0.107 mi.)</b>	<b>G65</b>	<b>331</b>
SPACESONICS INC Facility Id: FA0015919	110 CONSTITUTION	ESE 1/8 - 1/4 (0.224 mi.)	L137	579
OPTIVIA BIOTECHNOLOG Facility Id: FA0047284	115 CONSTITUTION	E 1/8 - 1/4 (0.225 mi.)	L139	582

CA Cortese: The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites).

A review of the CA Cortese list, as provided by EDR, and dated 09/19/2022 has revealed that there are 14 CA Cortese sites within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>LEMMON'S SIGNS</b> Cleanup Status: COMPLETED - CASE CLOSED	<b>3636 HAVEN</b>	<b>W 0 - 1/8 (0.071 mi.)</b>	<b>B50</b>	<b>227</b>
<b>SHOOTER LANDSCAPING</b> Cleanup Status: COMPLETED - CASE CLOSED	<b>3605 HAVEN</b>	<b>WNW 1/8 - 1/4 (0.146 mi.)</b>	<b>H86</b>	<b>432</b>
<b>REDWOOD MOTOR COURT</b>	<b>3706 ROLISON</b>	<b>WSW 1/8 - 1/4 (0.180 mi.)</b>	<b>J102</b>	<b>499</b>

## EXECUTIVE SUMMARY

Cleanup Status: COMPLETED - CASE CLOSED				
<b>PIERCE INGER TRUST,</b>	<b>3592 HAVEN</b>	<b>W 1/8 - 1/4 (0.183 mi.)</b>	<b>M109</b>	<b>518</b>
Cleanup Status: COMPLETED - CASE CLOSED				
<b>MIDLAND PACIFIC CORP</b>	<b>3536 HAVEN</b>	<b>W 1/8 - 1/4 (0.217 mi.)</b>	<b>M131</b>	<b>563</b>
Cleanup Status: COMPLETED - CASE CLOSED				
<b>BP OIL #11207</b>	<b>1110 MARSH</b>	<b>SSW 1/4 - 1/2 (0.313 mi.)</b>	<b>P156</b>	<b>628</b>
Cleanup Status: COMPLETED - CASE CLOSED				
<b>AUTOMATIC RAIN COMPA</b>	<b>4060 CAMPBELL AVE</b>	<b>SSE 1/4 - 1/2 (0.337 mi.)</b>	<b>Q158</b>	<b>636</b>
Cleanup Status: COMPLETED - CASE CLOSED				
<b>BAY ASSOCIATES</b>	<b>1150 CHRYSLER</b>	<b>ESE 1/4 - 1/2 (0.420 mi.)</b>	<b>R163</b>	<b>647</b>
Cleanup Status: COMPLETED - CASE CLOSED				
<b>KNAPPKINS</b>	<b>4055 BOHANNON</b>	<b>SSE 1/4 - 1/2 (0.457 mi.)</b>	<b>S166</b>	<b>662</b>
Cleanup Status: COMPLETED - CASE CLOSED				
<b>INFORMIX</b>	<b>3905 BOHANNON</b>	<b>S 1/4 - 1/2 (0.458 mi.)</b>	<b>167</b>	<b>664</b>
Cleanup Status: COMPLETED - CASE CLOSED				
<b>U.S. POSTAL SERVICE</b>	<b>3875 BOHANNON</b>	<b>S 1/4 - 1/2 (0.464 mi.)</b>	<b>170</b>	<b>675</b>
Cleanup Status: COMPLETED - CASE CLOSED				
<b>CHEVRON 9-0754</b>	<b>3805 BOHANNON</b>	<b>SSW 1/4 - 1/2 (0.478 mi.)</b>	<b>T172</b>	<b>683</b>
Cleanup Status: COMPLETED - CASE CLOSED				
<b>Lower Elevation</b>	<b>Address</b>	<b>Direction / Distance</b>	<b>Map ID</b>	<b>Page</b>
<b>CARL OLSON AND SONS</b>	<b>3750 HAVEN AVE</b>	<b>NE 0 - 1/8 (0.091 mi.)</b>	<b>E60</b>	<b>251</b>
Cleanup Status: COMPLETED - CASE CLOSED				
<b>MOREING COMPANY</b>	<b>120 CONSTITUTION DR</b>	<b>ESE 1/4 - 1/2 (0.262 mi.)</b>	<b>O154</b>	<b>613</b>
Cleanup Status: COMPLETED - CASE CLOSED				

CA HIST CORTESE: The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSTATES]. This listing is no longer updated by the state agency.

A review of the CA HIST CORTESE list, as provided by EDR, and dated 04/01/2001 has revealed that there are 14 CA HIST CORTESE sites within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>CHEVRON SERVICE STAT</b> Reg Id: 2831	<b>3639 HAVEN</b>	<b>W 0 - 1/8 (0.059 mi.)</b>	<b>B44</b>	<b>195</b>
<b>LEMMON'S SIGNS</b> Reg Id: 41-0158	<b>3636 HAVEN</b>	<b>W 0 - 1/8 (0.071 mi.)</b>	<b>B50</b>	<b>227</b>
<b>MIDLAND PACIFIC CORP</b> Reg Id: 41-0345	<b>3536 HAVEN</b>	<b>W 1/8 - 1/4 (0.217 mi.)</b>	<b>M131</b>	<b>563</b>
<b>BP</b> Reg Id: 41-0351	<b>1110 MARSH</b>	<b>SSW 1/4 - 1/2 (0.313 mi.)</b>	<b>P157</b>	<b>635</b>
<b>AUTOMATIC RAIN COMPA</b> Reg Id: 41-0969	<b>4060 CAMPBELL AVE</b>	<b>SSE 1/4 - 1/2 (0.337 mi.)</b>	<b>Q158</b>	<b>636</b>
<b>WVP III</b> Reg Id: 41-1014	<b>4040 CAMPBELL</b>	<b>SSE 1/4 - 1/2 (0.367 mi.)</b>	<b>Q161</b>	<b>642</b>
<b>KREBS ENGINEERS</b>	<b>1205 CHRYSLER</b>	<b>ESE 1/4 - 1/2 (0.396 mi.)</b>	<b>R162</b>	<b>646</b>



## EXECUTIVE SUMMARY

Reg Id: 41-1027				
<b>BAY ASSOCIATES</b>	<b>1150 CHRYSLER</b>	<b>ESE 1/4 - 1/2 (0.420 mi.)</b>	<b>R163</b>	<b>647</b>
Reg Id: 41-0063				
<b>KNAPPKINS</b>	<b>4055 BOHANNON</b>	<b>SSE 1/4 - 1/2 (0.457 mi.)</b>	<b>S165</b>	<b>660</b>
Reg Id: 41-0310				
<b>U.S. POSTAL SERVICE</b>	<b>3875 BOHANNON</b>	<b>S 1/4 - 1/2 (0.464 mi.)</b>	<b>170</b>	<b>675</b>
Reg Id: 41-0342				
<b>CHEVRON STATION#9075</b>	<b>3805 BOHANNON DR</b>	<b>SSW 1/4 - 1/2 (0.473 mi.)</b>	<b>T171</b>	<b>678</b>
Reg Id: 41-1086				
<b>Lower Elevation</b>	<b>Address</b>	<b>Direction / Distance</b>	<b>Map ID</b>	<b>Page</b>
<b>BAY MATERIALS LLC</b>	<b>3700 HAVEN</b>	<b>SSE 0 - 1/8 (0.044 mi.)</b>	<b>C35</b>	<b>154</b>
Reg Id: 41-0661				
<b>CARL OLSON AND SONS</b>	<b>3750 HAVEN AVE</b>	<b>NE 0 - 1/8 (0.091 mi.)</b>	<b>E60</b>	<b>251</b>
Reg Id: 41-0110				
<b>MOREING COMPANY</b>	<b>120 CONSTITUTION</b>	<b>ESE 1/4 - 1/2 (0.262 mi.)</b>	<b>O152</b>	<b>610</b>
Reg Id: 41-0729				

CA HWP: Detailed information on permitted hazardous waste facilities and corrective action ("cleanups") tracked in EnviroStor.

A review of the CA HWP list, as provided by EDR, and dated 08/11/2022 has revealed that there are 2 CA HWP sites within approximately 1 mile of the target property.

<b>Equal/Higher Elevation</b>	<b>Address</b>	<b>Direction / Distance</b>	<b>Map ID</b>	<b>Page</b>
<b>GENERAL CIRCUITS INC</b>	<b>3585 HAVEN AVENUE</b>	<b>WNW 1/8 - 1/4 (0.198 mi.)</b>	<b>M120</b>	<b>537</b>
EPA ID: CAD982462335 Cleanup Status: PROTECTIVE FILER				
<b>GENERAL CIRCUITS INC</b>	<b>3549 J HAVEN AVENUE</b>	<b>W 1/4 - 1/2 (0.277 mi.)</b>	<b>N155</b>	<b>614</b>
EPA ID: CAD074665704 Cleanup Status: PROTECTIVE FILER				

NY MANIFEST: Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

A review of the NY MANIFEST list, as provided by EDR, and dated 01/01/2019 has revealed that there is 1 NY MANIFEST site within approximately 0.25 miles of the target property.

<b>Equal/Higher Elevation</b>	<b>Address</b>	<b>Direction / Distance</b>	<b>Map ID</b>	<b>Page</b>
<b>SUNESIS PHARMACEUTIC</b>	<b>3696C HAVEN AVE</b>	<b>WSW 0 - 1/8 (0.028 mi.)</b>	<b>A29</b>	<b>136</b>
EPA ID: CAD981398563				

## EXECUTIVE SUMMARY

CA Notify 65: Listings of all Proposition 65 incidents reported to counties by the State Water Resources Control Board and the Regional Water Quality Control Board. This database is no longer updated by the reporting agency.

A review of the CA Notify 65 list, as provided by EDR, and dated 09/07/2022 has revealed that there is 1 CA Notify 65 site within approximately 1 mile of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
FORMER GAS STATION	955 MARSH ROAD	SSW 1/2 - 1 (0.613 mi.)	177	752

## EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 3 records.

<u>Site Name</u>	<u>Database(s)</u>
HUETTIG & SCHROMM	CA LUST, CA Cortese
BROWNING-FERRIS INDS	SEMS-ARCHIVE
MARSH ROAD SANITARY LANDFILL	CA SWF/LF

# OVERVIEW MAP - 7227915.2S



**N** Target Property

▲ Sites at elevations higher than or equal to the target property

◆ Sites at elevations lower than the target property

▲ Manufactured Gas Plants

■ National Priority List Sites

■ Dept. Defense Sites

■ Indian Reservations BIA

⚡ Power transmission lines

■ Special Flood Hazard Area (1%)

■ 0.2% Annual Chance Flood Hazard

■ National Wetland Inventory

■ State Wetlands

■ Areas of Concern

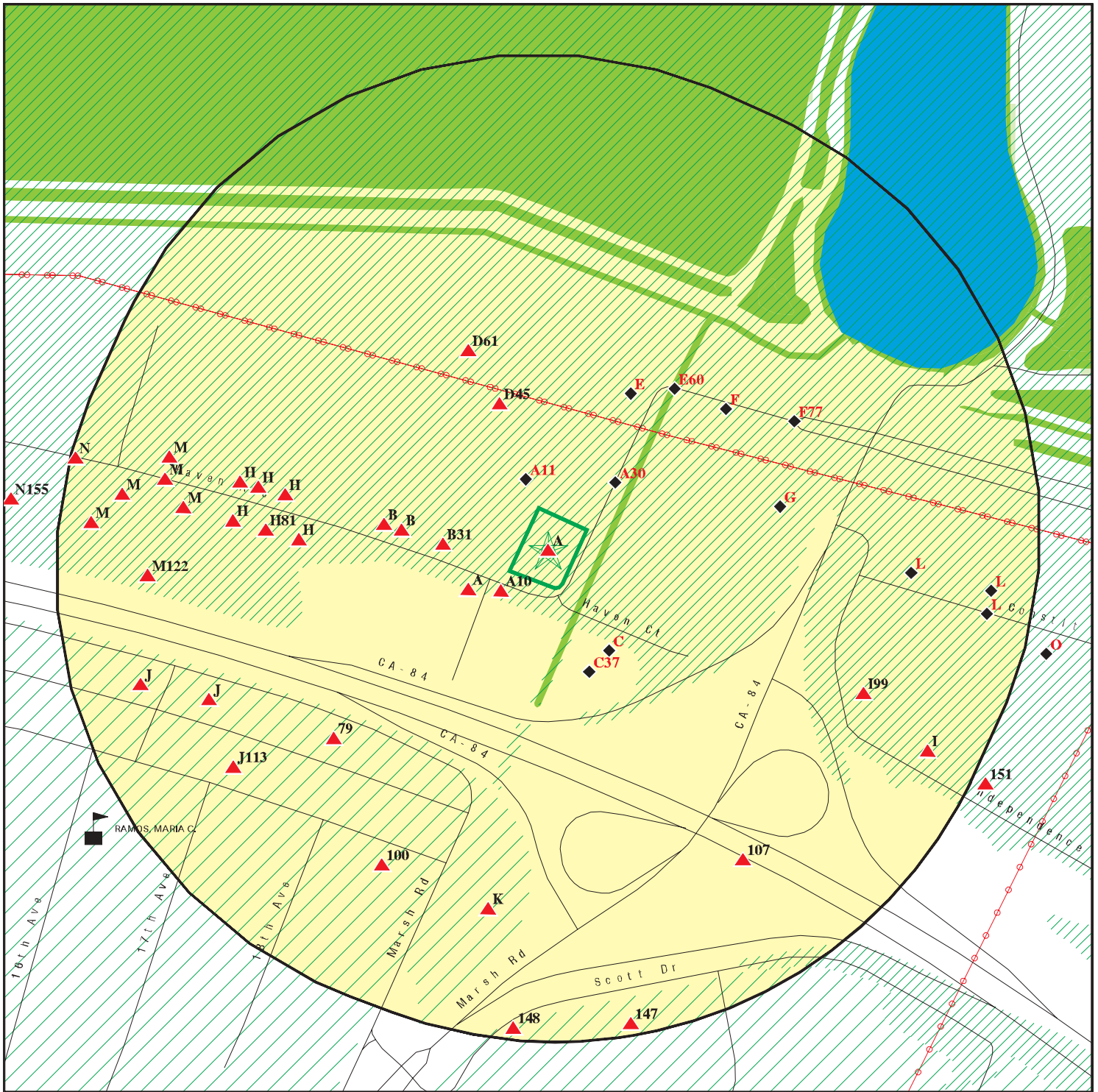


This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: 3705 Haven Avenue  
 ADDRESS: 3705 Haven Avenue  
 Menlo Park CA 94025  
 LAT/LONG: 37.485554 / 122.182229

CLIENT: Stantec  
 CONTACT: Jennifer Alvarado  
 INQUIRY #: 7227915.2S  
 DATE: January 18, 2023 2:25 pm

# DETAIL MAP - 7227915.2S



Target Property

Sites at elevations higher than or equal to the target property

Sites at elevations lower than the target property

Manufactured Gas Plants

Sensitive Receptors

National Priority List Sites

Dept. Defense Sites

Indian Reservations BIA

Power transmission lines

Special Flood Hazard Area (1%)

0.2% Annual Chance Flood Hazard

National Wetland Inventory

State Wetlands

Areas of Concern



This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: 3705 Haven Avenue  
 ADDRESS: 3705 Haven Avenue  
 Menlo Park CA 94025  
 LAT/LONG: 37.485554 / 122.182229

CLIENT: Stantec  
 CONTACT: Jennifer Alvarado  
 INQUIRY #: 7227915.2S  
 DATE: January 18, 2023 2:30 pm

## MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
<b>STANDARD ENVIRONMENTAL RECORDS</b>								
<b><i>Lists of Federal NPL (Superfund) sites</i></b>								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	1.000		0	0	0	0	NR	0
<b><i>Lists of Federal Delisted NPL sites</i></b>								
Delisted NPL	1.000		0	0	0	0	NR	0
<b><i>Lists of Federal sites subject to CERCLA removals and CERCLA orders</i></b>								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	0	NR	NR	0
<b><i>Lists of Federal CERCLA sites with NFRAP</i></b>								
SEMS-ARCHIVE	0.500		0	1	1	NR	NR	2
<b><i>Lists of Federal RCRA facilities undergoing Corrective Action</i></b>								
CORRACTS	1.000		0	1	1	1	NR	3
<b><i>Lists of Federal RCRA TSD facilities</i></b>								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
<b><i>Lists of Federal RCRA generators</i></b>								
RCRA-LQG	0.250		3	1	NR	NR	NR	4
RCRA-SQG	0.250		7	6	NR	NR	NR	13
RCRA-VSQG	0.250		0	0	NR	NR	NR	0
<b><i>Federal institutional controls / engineering controls registries</i></b>								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROLS	0.500		0	0	0	NR	NR	0
<b><i>Federal ERNS list</i></b>								
ERNS	TP		NR	NR	NR	NR	NR	0
<b><i>Lists of state- and tribal (Superfund) equivalent sites</i></b>								
CA RESPONSE	1.000		0	0	0	0	NR	0
<b><i>Lists of state- and tribal hazardous waste facilities</i></b>								
CA ENVIROSTOR	1.000		0	1	2	6	NR	9
<b><i>Lists of state and tribal landfills and solid waste disposal facilities</i></b>								
CA SWF/LF	0.500		2	0	0	NR	NR	2

## MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
<b><i>Lists of state and tribal leaking storage tanks</i></b>								
CA LUST	0.500	1	6	5	14	NR	NR	26
INDIAN LUST	0.500		0	0	0	NR	NR	0
CA CPS-SLIC	0.500	2	3	4	7	NR	NR	16
<b><i>Lists of state and tribal registered storage tanks</i></b>								
FEMA UST	0.250		0	0	NR	NR	NR	0
CA UST	0.250		0	0	NR	NR	NR	0
CA AST	0.250		0	0	NR	NR	NR	0
INDIAN UST	0.250		0	0	NR	NR	NR	0
<b><i>Lists of state and tribal voluntary cleanup sites</i></b>								
CA VCP	0.500		0	0	0	NR	NR	0
INDIAN VCP	0.500		0	0	0	NR	NR	0
<b><i>Lists of state and tribal brownfield sites</i></b>								
CA BROWNFIELDS	0.500		0	0	2	NR	NR	2
<b><u>ADDITIONAL ENVIRONMENTAL RECORDS</u></b>								
<b><i>Local Brownfield lists</i></b>								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
<b><i>Local Lists of Landfill / Solid Waste Disposal Sites</i></b>								
CA WMUDS/SWAT	0.500		0	0	0	NR	NR	0
CA SWRCY	0.500		0	0	0	NR	NR	0
CA HAULERS	TP		NR	NR	NR	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
IHS OPEN DUMPS	0.500		0	0	0	NR	NR	0
<b><i>Local Lists of Hazardous waste / Contaminated Sites</i></b>								
US HIST CDL	TP		NR	NR	NR	NR	NR	0
CA HIST Cal-Sites	1.000		0	0	0	0	NR	0
CA SCH	0.250		0	0	NR	NR	NR	0
CA CDL	TP		NR	NR	NR	NR	NR	0
CA CERS HAZ WASTE	0.250		5	4	NR	NR	NR	9
CA Toxic Pits	1.000		0	0	0	0	NR	0
US CDL	TP		NR	NR	NR	NR	NR	0
<b><i>Local Lists of Registered Storage Tanks</i></b>								
CA SWEEPS UST	0.250		2	2	NR	NR	NR	4
CA HIST UST	0.250		10	4	NR	NR	NR	14
CA FID UST	0.250		2	1	NR	NR	NR	3
CA CERS TANKS	0.250		0	1	NR	NR	NR	1
<b><i>Local Land Records</i></b>								
CA LIENS	TP		NR	NR	NR	NR	NR	0

## MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
LIENS 2	TP		NR	NR	NR	NR	NR	0
CA DEED	0.500		1	0	0	NR	NR	1
<b>Records of Emergency Release Reports</b>								
HMIRS	TP		NR	NR	NR	NR	NR	0
CA CHMIRS	TP		NR	NR	NR	NR	NR	0
CA LDS	TP		NR	NR	NR	NR	NR	0
CA MCS	TP		NR	NR	NR	NR	NR	0
CA SPILLS 90	TP	1	NR	NR	NR	NR	NR	1
<b>Other Ascertainable Records</b>								
RCRA NonGen / NLR	0.250		10	20	NR	NR	NR	30
FUDS	1.000		0	0	0	0	NR	0
DOD	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	TP		NR	NR	NR	NR	NR	0
EPA WATCH LIST	TP		NR	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
PRP	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP		NR	NR	NR	NR	NR	0
DOT OPS	TP		NR	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	TP		NR	NR	NR	NR	NR	0
US AIRS	TP		NR	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
ABANDONED MINES	0.250		0	0	NR	NR	NR	0
FINDS	TP	2	NR	NR	NR	NR	NR	2
UXO	1.000		0	0	0	0	NR	0
ECHO	TP		NR	NR	NR	NR	NR	0
DOCKET HWC	TP		NR	NR	NR	NR	NR	0
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
PFAS NPL	0.250		0	0	NR	NR	NR	0
PFAS FEDERAL SITES	0.250		0	0	NR	NR	NR	0
PFAS TSCA	0.250		0	0	NR	NR	NR	0



## MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
PFAS RCRA MANIFEST	0.250		0	0	NR	NR	NR	0
PFAS ATSDR	0.250		0	0	NR	NR	NR	0
PFAS WQP	0.250		0	0	NR	NR	NR	0
PFAS NPDES	0.250		0	0	NR	NR	NR	0
PFAS ECHO	0.250		4	5	NR	NR	NR	9
PFAS ECHO FIRE TRAINING	0.250		0	0	NR	NR	NR	0
PFAS PART 139 AIRPORT	0.250		0	0	NR	NR	NR	0
AQUEOUS FOAM NRC	0.250		0	0	NR	NR	NR	0
CA PFAS	0.250		0	0	NR	NR	NR	0
CA AQUEOUS FOAM	0.250		0	0	NR	NR	NR	0
CA BOND EXP. PLAN	1.000		0	0	0	0	NR	0
CA San Mateo Co. BI	0.250	1	27	31	NR	NR	NR	59
CA Cortese	0.500	1	2	4	8	NR	NR	15
CA CUPA Listings	0.250		0	0	NR	NR	NR	0
CA DRYCLEANERS	0.250		0	0	NR	NR	NR	0
CA EMI	TP		NR	NR	NR	NR	NR	0
CA ENF	TP		NR	NR	NR	NR	NR	0
CA Financial Assurance	TP		NR	NR	NR	NR	NR	0
CA ICE	TP		NR	NR	NR	NR	NR	0
CA HIST CORTESE	0.500	1	4	1	9	NR	NR	15
CA HWP	1.000		0	1	1	0	NR	2
CA HWT	0.250		0	0	NR	NR	NR	0
CA HAZNET	TP	1	NR	NR	NR	NR	NR	1
NY MANIFEST	0.250		1	0	NR	NR	NR	1
CA MINES	0.250		0	0	NR	NR	NR	0
CA MWMP	0.250		0	0	NR	NR	NR	0
CA NPDES	TP		NR	NR	NR	NR	NR	0
CA PEST LIC	TP		NR	NR	NR	NR	NR	0
CA PROC	0.500		0	0	0	NR	NR	0
CA Notify 65	1.000		0	0	0	1	NR	1
CA UIC	TP		NR	NR	NR	NR	NR	0
CA UIC GEO	TP		NR	NR	NR	NR	NR	0
CA WASTEWATER PITS	0.500		0	0	0	NR	NR	0
CA WDS	TP		NR	NR	NR	NR	NR	0
CA WIP	0.250		0	0	NR	NR	NR	0
CA MILITARY PRIV SITES	TP		NR	NR	NR	NR	NR	0
CA PROJECT	TP		NR	NR	NR	NR	NR	0
CA WDR	TP		NR	NR	NR	NR	NR	0
CA CIWQS	TP		NR	NR	NR	NR	NR	0
CA CERS	TP	2	NR	NR	NR	NR	NR	2
CA NON-CASE INFO	TP		NR	NR	NR	NR	NR	0
CA OTHER OIL GAS	TP		NR	NR	NR	NR	NR	0
CA PROD WATER PONDS	TP		NR	NR	NR	NR	NR	0
CA SAMPLING POINT	TP		NR	NR	NR	NR	NR	0
CA WELL STIM PROJ	TP		NR	NR	NR	NR	NR	0
CA HWTS	TP	2	NR	NR	NR	NR	NR	2
MINES MRDS	TP		NR	NR	NR	NR	NR	0

### EDR HIGH RISK HISTORICAL RECORDS

#### ***EDR Exclusive Records***

EDR MGP	1.000		0	0	0	0	NR	0
---------	-------	--	---	---	---	---	----	---

## MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
EDR Hist Auto	0.125		0	NR	NR	NR	NR	0
EDR Hist Cleaner	0.125		0	NR	NR	NR	NR	0
<b><u>EDR RECOVERED GOVERNMENT ARCHIVES</u></b>								
<b><i>Exclusive Recovered Govt. Archives</i></b>								
CA RGA LF	TP		NR	NR	NR	NR	NR	0
CA RGA LUST	TP	2	NR	NR	NR	NR	NR	2
- Totals --		16	89	93	45	8	0	251

**NOTES:**

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Site

Database(s)

EDR ID Number  
EPA ID Number

**A1**      **THYSEN MANAGEMENT CO.**  
**Target**    **3705 HAVEN AVE**  
**Property**   **MENLO PARK, CA**

**CA RGA LUST**    **S114703782**  
**N/A**

**Site 1 of 30 in cluster A**

**Actual:**  
**10 ft.**

**RGA LUST:**  
Name:            THYSEN MANAGEMENT CO.  
Address:        3705 HAVEN AVE  
City:            MENLO PARK  
State:            MENLO PARK  
1996    THYSEN MANAGEMENT CO.    3705 HAVEN AVE

**A2**      **THYSEN MANAGEMENT COMPANY**  
**Target**    **3705 HAVEN AVE**  
**Property**   **MENLO PARK, CA 94025**

**CA LUST**        **S103892618**  
**CA CPS-SLIC**    **N/A**  
**CA San Mateo Co. BI**  
**CA Cortese**  
**CA HIST CORTESE**  
**CA CERS**

**Site 2 of 30 in cluster A**

**Actual:**  
**10 ft.**

**LUST:**  
Name:            THYSEN MANAGEMENT COMPANY  
Address:        3705 HAVEN AVE  
City,State,Zip:    MENLO PARK, CA 94025  
Lead Agency:    SAN FRANCISCO BAY RWQCB (REGION 2)  
Case Type:      LUST Cleanup Site  
Geo Track:      [http://geotracker.waterboards.ca.gov/profile\\_report.asp?global\\_id=T0608100906](http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0608100906)  
Global Id:        T0608100906  
Latitude:        37.48542  
Longitude:       -122.182074  
Status:           Completed - Case Closed  
Status Date:     07/30/1999  
Case Worker:     Not reported  
RB Case Number: 41-0991  
Local Agency:    Not reported  
File Location:    Not reported  
Local Case Number: 449048  
Potential Media Affect: Under Investigation  
Potential Contaminants of Concern: \* Solvents  
Site History:     Not reported

**LUST:**  
Global Id:            T0608100906  
Action Type:        Other  
Date:                08/06/1996  
Action:               Leak Discovery

Global Id:            T0608100906  
Action Type:        Other  
Date:                08/06/1996  
Action:               Leak Reported

Global Id:            T0608100906  
Action Type:        Other  
Date:                08/06/1996  
Action:               Leak Stopped

**LUST:**  
Global Id:            T0608100906  
Status:               Open - Case Begin Date

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**THYSEN MANAGEMENT COMPANY (Continued)**

**S103892618**

Status Date: 08/06/1996  
  
Global Id: T0608100906  
Status: Open - Site Assessment  
Status Date: 08/06/1996  
  
Global Id: T0608100906  
Status: Completed - Case Closed  
Status Date: 07/30/1999

**LUST REG 2:**

Region: 2  
Facility Id: 41-0991  
Facility Status: Case Closed  
Case Number: 449048  
How Discovered: Tank Closure  
Leak Cause: UNK  
Leak Source: UNK  
Date Leak Confirmed: 8/6/1996  
Oversight Program: LUST  
Prelim. Site Assessment Workplan Submitted: Not reported  
Preliminary Site Assessment Began: Not reported  
Pollution Characterization Began: Not reported  
Pollution Remediation Plan Submitted: Not reported  
Date Remediation Action Underway: Not reported  
Date Post Remedial Action Monitoring Began: Not reported

**CPS-SLIC:**

Name: 3705 HAVEN AVENUE  
Address: 3705 HAVEN AVENUE  
City,State,Zip: MENLO PARK, CA 94025  
Region: STATE  
**Facility Status: Open - Assessment & Interim Remedial Action**  
Status Date: 05/31/2020  
Global Id: T10000013783  
Lead Agency: SAN FRANCISCO BAY RWQCB (REGION 2)  
Lead Agency Case Number: Not reported  
Latitude: 37.48552  
Longitude: -122.18228  
Case Type: Cleanup Program Site  
Case Worker: NF  
Local Agency: Not reported  
RB Case Number: 41S0217  
File Location: All Files are on GeoTracker or in the Local Agency Database  
Potential Media Affected: Not reported  
Potential Contaminants of Concern: Other Chlorinated Hydrocarbons, Tetrachloroethylene (PCE), Trichloroethylene (TCE), MTBE / TBA / Other Fuel Oxygenates  
Site History: Site is part of former SILTEC site closed in June 2014. Currently deed restriction on the property prohibits residential development. RP wishes to pursue residential development at the site and remove the deed restriction on this parcel. Site was reopened for data collection to assess whether residual contamination at this site supports unrestricted residential development without further remediation.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**THYSEN MANAGEMENT COMPANY (Continued)**

**S103892618**

[Click here to access the California GeoTracker records for this facility:](#)

**San Mateo Co. BI:**

Name: BSG ASSOCIATES INC  
Address: 3705 HAVEN  
City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0022530  
Prog Element Code: STORES HAZ MAT <219GAL,1,999LB, 879FT3  
Record Id: PR0024769  
Description: STORES HAZ MAT <219GAL,1,999LB, 879CF  
Facility Status: Inactive, non-billable  
Program Category: BUSINESS PLAN PROGRAM

**CORTESE:**

Name: THYSEN MANAGEMENT COMPANY  
Address: 3705 HAVEN AVE  
City,State,Zip: MENLO PARK, CA 94025  
Region: CORTESE  
Envirostor Id: Not reported  
Global ID: T0608100906  
Site/Facility Type: LUST CLEANUP SITE  
Cleanup Status: COMPLETED - CASE CLOSED  
Status Date: Not reported  
Site Code: Not reported  
Latitude: Not reported  
Longitude: Not reported  
Owner: Not reported  
Enf Type: Not reported  
Swat R: Not reported  
Flag: active  
Order No: Not reported  
Waste Discharge System No: Not reported  
Effective Date: Not reported  
Region 2: Not reported  
WID Id: Not reported  
Solid Waste Id No: Not reported  
Waste Management Uit Name: Not reported  
File Name: Active Open

**HIST CORTESE:**

edr\_fname: THYSEN MANAGEMENT COMPANY  
edr\_fadd1: 3705 HAVEN  
City,State,Zip: MENLO PARK, CA  
Region: CORTESE  
Facility County Code: 41  
Reg By: LTNKA  
Reg Id: 41-0991

**CERS:**

Name: THYSEN MANAGEMENT COMPANY  
Address: 3705 HAVEN AVE  
City,State,Zip: MENLO PARK, CA 94025  
Site ID: 250592

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**THYSEN MANAGEMENT COMPANY (Continued)**

**S103892618**

CERS ID: T0608100906  
CERS Description: Leaking Underground Storage Tank Cleanup Site  
  
Name: 3705 HAVEN AVENUE  
Address: 3705 HAVEN AVENUE  
City,State,Zip: MENLO PARK, CA 94025  
Site ID: 601033  
CERS ID: T10000013783  
CERS Description: Cleanup Program Site  
  
Affiliation:  
Affiliation Type Desc: Regional Board Caseworker  
Entity Name: NICOLE FRY - SAN FRANCISCO BAY RWQCB (REGION 2)  
Entity Title: Not reported  
Affiliation Address: 1515 Clay St.  
Affiliation City: OAKLAND  
Affiliation State: CA  
Affiliation Country: Not reported  
Affiliation Zip: Not reported  
Affiliation Phone: 5106225047,

**A3  
Target  
Property**

**SILTEC  
3705-3723 HAVEN AVENUE  
MENLO PARK, CA 94025**

**FINDS 1023233274  
N/A**

**Site 3 of 30 in cluster A**

**Actual:  
10 ft.**

FINDS:  
Registry ID: 110065206217

Click Here for FRS Facility Detail Report:

Environmental Interest/Information System:  
STATE MASTER

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

**A4  
Target  
Property**

**THYSEN MANAGEMENT COMPANY  
3705 HAVEN AVE  
MENLO PARK, CA**

**CA RGA LUST S114703783  
N/A**

**Site 4 of 30 in cluster A**

**Actual:  
10 ft.**

RGA LUST:  
Name: THYSEN MANAGEMENT COMPANY  
Address: 3705 HAVEN AVE  
City: MENLO PARK  
State: MENLO PARK  
2012 THYSEN MANAGEMENT COMPANY 3705 HAVEN AVE  
Name: THYSEN MANAGEMENT COMPANY  
Address: 3705 HAVEN AVE  
City: MENLO PARK  
State: MENLO PARK  
2011 THYSEN MANAGEMENT COMPANY 3705 HAVEN AVE  
Name: THYSEN MANAGEMENT COMPANY  
Address: 3705 HAVEN AVE

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**THYSEN MANAGEMENT COMPANY (Continued)**

**S114703783**

City:	MENLO PARK	
State:	MENLO PARK	
Name:	2010 THYSEN MANAGEMENT COMPANY	3705 HAVEN AVE
Address:	THYSEN MANAGEMENT COMPANY	
	3705 HAVEN AVE	
City:	MENLO PARK	
State:	MENLO PARK	
Name:	2009 THYSEN MANAGEMENT COMPANY	3705 HAVEN AVE
Address:	THYSEN MANAGEMENT COMPANY	
	3705 HAVEN AVE	
City:	MENLO PARK	
State:	MENLO PARK	
Name:	2008 THYSEN MANAGEMENT COMPANY	3705 HAVEN AVE
Address:	THYSEN MANAGEMENT COMPANY	
	3705 HAVEN AVE	
City:	MENLO PARK	
State:	MENLO PARK	
Name:	2007 THYSEN MANAGEMENT COMPANY	3705 HAVEN AVE
Address:	THYSEN MANAGEMENT COMPANY	
	3705 HAVEN AVE	
City:	MENLO PARK	
State:	MENLO PARK	
Name:	2006 THYSEN MANAGEMENT COMPANY	3705 HAVEN AVE
Address:	THYSEN MANAGEMENT COMPANY	
	3705 HAVEN AVE	
City:	MENLO PARK	
State:	MENLO PARK	
Name:	2005 THYSEN MANAGEMENT COMPANY	3705 HAVEN AVE
Address:	THYSEN MANAGEMENT COMPANY	
	3705 HAVEN AVE	
City:	MENLO PARK	
State:	MENLO PARK	
Name:	2003 THYSEN MANAGEMENT COMPANY	3705 HAVEN AVE
Address:	THYSEN MANAGEMENT COMPANY	
	3705 HAVEN AVE	
City:	MENLO PARK	
State:	MENLO PARK	
Name:	2002 THYSEN MANAGEMENT COMPANY	3705 HAVEN AVE
Address:	THYSEN MANAGEMENT COMPANY	
	3705 HAVEN AVE	
City:	MENLO PARK	
State:	MENLO PARK	
Name:	2001 THYSEN MANAGEMENT COMPANY	3705 HAVEN AVE
Address:	THYSEN MANAGEMENT COMPANY	
	3705 HAVEN AVE	
City:	MENLO PARK	
State:	MENLO PARK	
Name:	2000 THYSEN MANAGEMENT COMPANY	3705 HAVEN AVE
Address:	THYSEN MANAGEMENT COMPANY	
	3705 HAVEN AVE	
City:	MENLO PARK	
State:	MENLO PARK	
Name:	1998 THYSEN MANAGEMENT COMPANY	3705 HAVEN AVE
Address:	THYSEN MANAGEMENT COMPANY	
	3705 HAVEN AVE	
City:	MENLO PARK	
State:	MENLO PARK	

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**THYSEN MANAGEMENT COMPANY (Continued)**

**S114703783**

1997 THYSEN MANAGEMENT COMPANY 3705 HAVEN AVE

**A5** **B S G ASSOCIATES**  
**Target** **3705 HAVEN AVENUE**  
**Property** **MENLO PARK, CA 94025**

**CA HAZNET** **S112866864**  
**CA HWTS** **N/A**

**Site 5 of 30 in cluster A**

**Actual:**  
**10 ft.**

HAZNET:  
Name: B S G ASSOCIATES  
Address: 3705 HAVEN AVENUE  
Address 2: Not reported  
City,State,Zip: MENLO PARK, CA 940250000  
Contact: JOSEPH BERGERON ATTORNEY  
Telephone: 4152595979  
Mailing Name: Not reported  
Mailing Address: 26062 EDEN LANDING ROAD  
  
Year: 1995  
Gepaid: CAC001105104  
TSD EPA ID: CAD009452657  
CA Waste Code: 352 - Other organic solids  
Disposal Method: R01 - Recycler  
Tons: 0.01

Additional Info:

Year: 1995  
Gen EPA ID: CAC001105104  
  
Shipment Date: 19950721  
Creation Date: 4/2/1996 0:00:00  
Receipt Date: 19950721  
Manifest ID: 95373092  
Trans EPA ID: CAD009452657  
Trans Name: Not reported  
Trans 2 EPA ID: Not reported  
Trans 2 Name: Not reported  
TSD EPA ID: CAD009452657  
Trans Name: Not reported  
TSD EPA ID: CAD009452657  
TSD EPA Name: Not reported  
Waste Code Description: 352 - Other organic solids  
RCRA Code: Not reported  
Meth Code: R01 - Recycler  
Quantity Tons: 0.01  
Waste Quantity: 20  
Quantity Unit: P  
Additional Code 1: Not reported  
Additional Code 2: Not reported  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported

HWTS:

Name: B S G ASSOCIATES  
Address: 3705 HAVEN AVENUE



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**B S G ASSOCIATES (Continued)**

**S112866864**

Address 2: Not reported  
City,State,Zip: MENLO PARK, CA 94025  
EPA ID: CAC001105104  
Inactive Date: 10/25/2000  
Create Date: 07/21/1995  
Last Act Date: Not reported  
Mailing Name: Not reported  
Mailing Address: 26062 EDEN LANDING ROAD  
Mailing Address 2: Not reported  
Mailing City,State,Zip: HAYWARD, CA 945450000  
Owner Name: B S G ASSOCIATES  
Owner Address: BERT S GOWDY/PRES  
Owner Address 2: Not reported  
Owner City,State,Zip: Not reported  
Contact Name: JOSEPH BERGERON ATTORNEY  
Contact Address: 840 MALCOLM ROAD  
Contact Address 2: Not reported  
City,State,Zip: BURLINGAME, CA 940100000  
Facility Status: Inactive  
Facility Type: TEMPORARY  
Category: STATE  
Latitude: 37.485349  
Longitude: -122.181965

**A6  
Target  
Property**

**THYSEN MGMT. CO.  
3705 HAVEN AVENUE  
MENLO PARK, CA 94025**

**CA HWTS S124546888  
N/A**

**Site 6 of 30 in cluster A**

**Actual:  
10 ft.**

HWTS:  
Name: THYSEN MGMT. CO.  
Address: 3705 HAVEN AVENUE  
Address 2: Not reported  
City,State,Zip: MENLO PARK, CA 94025  
EPA ID: CAC001008368  
Inactive Date: 10/25/2000  
Create Date: 01/12/1995  
Last Act Date: Not reported  
Mailing Name: Not reported  
Mailing Address: 1777 BOREL PLACE  
Mailing Address 2: Not reported  
Mailing City,State,Zip: SAN MATEO, CA 944020000  
Owner Name: TYSEN MGMT. COMPANY  
Owner Address: 1777 BOREL PLACE  
Owner Address 2: Not reported  
Owner City,State,Zip: SAN MATEO, CA 944020000  
Contact Name: MARY DIGNIN  
Contact Address: 1777 BOREL PLACE  
Contact Address 2: Not reported  
City,State,Zip: SAN MATEO, CA 944020000  
Facility Status: Inactive  
Facility Type: TEMPORARY  
Category: STATE  
Latitude: 37.485349  
Longitude: -122.181965

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**A7** **THYSEN MANAGEMENT COMPANY**  
**Target** **3705 HAVEN AVE**  
**Property** **MENLO PARK, CA 94025**

**FINDS** **1023249731**  
**N/A**

**Site 7 of 30 in cluster A**

**Actual:** FINDS:  
**10 ft.** Registry ID: 110065382311

Click Here for FRS Facility Detail Report:  
Environmental Interest/Information System:  
STATE MASTER  
  
Click this hyperlink while viewing on your computer to access  
additional FINDS: detail in the EDR Site Report.

**A8** **SILTEC**  
**Target** **3705-3723 HAVEN AVENUE**  
**Property** **MENLO PARK, CA 94025**

**CA CPS-SLIC** **S102229845**  
**CA CERS** **N/A**

**Site 8 of 30 in cluster A**

**Actual:** SLIC REG 2:  
**10 ft.** Region: 2  
Facility ID: SL18322742  
Facility Status: Post remedial action monitoring  
Date Closed: Not reported  
Local Case #: Not reported  
How Discovered: DVA  
Leak Cause: Not reported  
Leak Source: Not reported  
Date Confirmed: Not reported  
Date Prelim Site Assmnt Workplan Submitted: Not reported  
Date Preliminary Site Assessment Began: Not reported  
Date Pollution Characterization Began: Not reported  
Date Remediation Plan Submitted: Not reported  
Date Remedial Action Underway: Not reported  
Date Post Remedial Action Monitoring Began: Not reported

CPS-SLIC:  
Name: SILTEC  
Address: 3705-3723 HAVEN AVENUE  
City,State,Zip: MENLO PARK, CA 94025  
Region: STATE  
**Facility Status: Open - Site Assessment**  
Status Date: 06/11/2019  
Global Id: SL18322742  
Lead Agency: SAN FRANCISCO BAY RWQCB (REGION 2)  
Lead Agency Case Number: Not reported  
Latitude: 37.4862746095851  
Longitude: -122.181849003983  
Case Type: Cleanup Program Site  
Case Worker: NF  
Local Agency: Not reported  
RB Case Number: 41S0105  
File Location: Regional Board  
Potential Media Affected: Other Groundwater (uses other than drinking water), Soil  
Potential Contaminants of Concern: Other Chlorinated Hydrocarbons, Trichloroethylene (TCE), Vinyl chloride, \* Volatile Organic Compounds (VOC)  
Site History: This case was closed in 2014 under the low-threat closure policy.

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**SILTEC (Continued)**

**S102229845**

[Click here to access the California GeoTracker records for this facility:](#)

**CERS:**

Name: SILTEC  
 Address: 3705-3723 HAVEN AVENUE  
 City,State,Zip: MENLO PARK, CA 94025  
 Site ID: 238995  
 CERS ID: SL18322742  
 CERS Description: Cleanup Program Site

**Affiliation:**

Affiliation Type Desc: Regional Board Caseworker  
 Entity Name: NICOLE FRY - SAN FRANCISCO BAY RWQCB (REGION 2)  
 Entity Title: Not reported  
 Affiliation Address: 1515 Clay St.  
 Affiliation City: OAKLAND  
 Affiliation State: CA  
 Affiliation Country: Not reported  
 Affiliation Zip: Not reported  
 Affiliation Phone: 5106225047,

**A9  
 Target  
 Property**

**SILTECH  
 3705-3723 HAVEN AVE  
 REDWOOD CITY, CA 94063**

**CA SPILLS 90 S112286176  
 N/A**

**Site 9 of 30 in cluster A**

**Actual:  
 10 ft.**

**Spills:**  
 Status: INACTIVE  
 Contact Name: Not reported  
 Contact Phone: Not reported  
 Site ID: SLC241S0105  
 Secondary ID: Not reported  
 Cross Street: Not reported  
 County: SAN MATEO  
 Longitude: -122182129  
 Latitude: 37485217  
 Elevation: 10

Last Agency Update: 5/23/96  
 Staff: RL  
 Status: INACTIVE  
 Facility Description: Not reported  
 Status: INACTIVE  
 Comment: Not reported  
 Npl Site: Not reported  
 Is This A Leaking Underground Tank  
 NON TANK

Date Disclosed: Not reported  
 Contamination Source: Not reported  
 Sample Date: Not reported  
 Lead: Not reported  
 # Of Municipal Wells: 0  
 # Of Private Wells: 0  
 Agency Comments: Not reported  
 Soil Remediation: Not reported

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**SILTECH (Continued)**

**S112286176**

Date Soil Removal Or Containment Action Started  
 Was Onsite Groundwater Extraction Or Containment Action Needed At Site  
 Date On-Site Gw Extraction Or Containment Action Was Started Or Is Due To Start  
 Was Off-Site Groundwater Extraction Or Containment Action Needed  
 Date Off-Site Gw Extraction Or Containment Action Was Started Or Is Due To Start  
 Most Current Estimate In Gpm S Of The Rate Of Gw Extraction  
 0  
 Most Recent Date Gw Extraction Flow Rate Was Monitored  
 Estimated % Of Contaminants Contained &  
 Contamination Plume Length (In Feet)  
 0  
 Contamination Plume Depth (In Feet)  
 0  
 Contamination Level If Any Of The Nearest Drinking Water Well  
 Wells Closed Due To Contamination From The Site  
 Date Of Well Closures: Not reported  
 Distance To Nearest Public Or Private Drinking Water Well To Site (In Feet)  
 0  
 Latitude & Longitude Provided By Facility  
 00  
 Date Site Name Under Preview By Lead Agency

**A10  
 SW  
 < 1/8  
 0.011 mi.  
 60 ft.**

**INDUSTRIAL GARDEN MAINTENANCE  
 3700 HAVEN AVE  
 MENLO PARK, CA 94025  
 Site 10 of 30 in cluster A**

**CA HIST UST U001594197  
 N/A**

**Relative:  
 Higher  
 Actual:  
 11 ft.**

HIST UST:  
 Name: INDUSTRIAL GARDEN MAINTENANCE  
 Address: 3700 HAVEN AVE  
 City,State,Zip: MENLO PARK, CA 94025  
 File Number: Not reported  
 URL: Not reported  
 Region: STATE  
 Facility ID: 00000011468  
 Facility Type: Other  
 Other Type: LANDSCAPE CONST.  
 Contact Name: GERALD MARKLEIN  
 Telephone: 4153642454  
 Owner Name: HUETTIG & SCHROMM, INC.  
 Owner Address: 3700 HAVEN CT.  
 Owner City,St,Zip: MENLO PARK, CA 94025  
 Total Tanks: 0003

Tank Num: 001  
 Container Num: 1,2,&3  
 Year Installed: Not reported  
 Tank Capacity: 00001000  
 Tank Used for: PRODUCT  
 Type of Fuel: UNLEADED  
 Container Construction Thickness: Not reported  
 Leak Detection: Stock Inventor

Tank Num: 002  
 Container Num: 2

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**INDUSTRIAL GARDEN MAINTENANCE (Continued)**

**U001594197**

Year Installed: Not reported  
Tank Capacity: 00000000  
Tank Used for: PRODUCT  
Type of Fuel: REGULAR  
Container Construction Thickness: Not reported  
Leak Detection: Stock Inventor

Tank Num: 003  
Container Num: 3  
Year Installed: Not reported  
Tank Capacity: 00000000  
Tank Used for: PRODUCT  
Type of Fuel: DIESEL  
Container Construction Thickness: Not reported  
Leak Detection: Stock Inventor

**A11  
NNW  
< 1/8  
0.017 mi.  
91 ft.**

**LUIS VASQUEZ MULCH SUPPLY  
3665 HAVEN AVEUNE  
MENLO PARK, CA 94063  
Site 11 of 30 in cluster A**

**CA SWF/LF S126984348  
N/A**

**Relative:  
Lower  
Actual:  
9 ft.**

SWF/LF (SWIS):  
Name: LUIS VASQUEZ MULCH SUPPLY  
Address: 3665 HAVEN AVEUNE  
City,State,Zip: MENLO PARK, CA 94063  
Region: STATE  
Facility ID: 41-AA-0186  
SWIS Number: 41-AA-0186  
Point of Contact: Kelsey Orr  
Is Archived: Yes  
Is Closed Illegal Abandoned: No  
Is Site Inert Debris Engineered Fill: No  
Is Financial Assurances Responsible: No  
Absorbed On: Not reported  
Operational Status: Closed  
Absorbed By: Not reported  
Closed Illegal Abandoned Category: Not reported  
EPA Federal Registry ID: Not reported  
ARB District: Bay Area  
SWRCB Region: San Francisco Bay  
Local Government: Menlo Park  
Reporting Agency Legal Name: County of San Mateo  
Reporting Agency Department: Health Department, Environmental Health Services Division  
Enforcing Agency Legal Name: County of San Mateo  
Enforcing Agency Department: Health Department, Environmental Health Services Division  
Regulation Status: Notification

Operator:  
SWIS Number: 41-AA-0186  
Site Name: Luis Vasquez Mulch Supply  
Site Operational Status: Closed  
Site Type: Non-Disposal Only  
Site Regulatory Status: Notification  
Latitude: 37.48611  
Longitude: -122.1842  
Is Archived: Yes  
Operator: Vazquez, Luis

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**LUIS VASQUEZ MULCH SUPPLY (Continued)**

**S126984348**

Started On: Not reported  
Contact Name: Not reported  
Contact Title: Not reported  
Contact Email: Not reported  
Contact Phone: (650) 520-3107  
Street Address: 1107 2nd Ave Apt 111  
Operator City: Redwood City  
Operator State: CA  
Operator Zip: 94063

Owner:  
SWIS Number: 41-AA-0186  
Owner: Koblick, Jeanne  
Owner Address: 155 Brookwood Rd  
Owner City: Woodside  
Owner State: CA  
Owner Zip: 94062  
Site Name: Luis Vasquez Mulch Supply  
Site Operational Status: Closed  
Site Type: Non-Disposal Only  
Site Regulatory Status: Notification  
Latitude: 37.48611  
Longitude: -122.1842  
Is Archived: Yes  
Started On: Not reported  
Contact Name: Not reported  
Contact Title: Not reported  
Contact Email: Not reported  
Contact Phone: (650) 888-5465

Waste:  
SWIS Number: 41-AA-0186  
Site Name: Luis Vasquez Mulch Supply  
Activity: Chipping and Grinding Facility/Operation  
Waste Type: Agricultural  
Site Is Archived: Yes  
Site Operational Status: Closed  
Site Regulatory Status: Notification  
Site Type: Non-Disposal Only  
Point of Contact: Kelsey Orr  
Activity Is Archived: Yes  
Activity Operational Status: Closed  
Activity Regulatory Status: Notification  
Activity Category: Composting  
Activity Classification: Solid Waste Facility

SWIS Number: 41-AA-0186  
Site Name: Luis Vasquez Mulch Supply  
Activity: Chipping and Grinding Facility/Operation  
Waste Type: Green Materials  
Site Is Archived: Yes  
Site Operational Status: Closed  
Site Regulatory Status: Notification  
Site Type: Non-Disposal Only  
Point of Contact: Kelsey Orr  
Activity Is Archived: Yes

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**LUIS VASQUEZ MULCH SUPPLY (Continued)**

**S126984348**

Activity Operational Status:	Closed
Activity Regulatory Status:	Notification
Activity Category:	Composting
Activity Classification:	Solid Waste Facility
SWIS Number:	41-AA-0186
Site Name:	Luis Vasquez Mulch Supply
Activity:	Chipping and Grinding Facility/Operation
Waste Type:	Wood waste
Site Is Archived:	Yes
Site Operational Status:	Closed
Site Regulatory Status:	Notification
Site Type:	Non-Disposal Only
Point of Contact:	Kelsey Orr
Activity Is Archived:	Yes
Activity Operational Status:	Closed
Activity Regulatory Status:	Notification
Activity Category:	Composting
Activity Classification:	Solid Waste Facility

**A12**  
**WSW**  
 < 1/8  
 0.025 mi.  
 131 ft.

**ACHELOIS BIOPHARMA**  
**3698 HAVEN AVE STE A**  
**REDWOOD CITY, CA 94063**

**RCRA NonGen / NLR**

**1024852004**  
**CAL000410886**

**Site 12 of 30 in cluster A**

**Relative:**  
**Higher**  
**Actual:**  
**11 ft.**

RCRA Listings:		
Date Form Received by Agency:		20220502
Handler Name:	ACHELOIS BIOPHARMA	
Handler Address:		3698 HAVEN AVE STE A
Handler City,State,Zip:		REDWOOD CITY, CA 94063-4604
EPA ID:		CAL000410886
Contact Name:		CHANG ZHENG (ERIC)
Contact Address:		3698 HAVEN AVE STE A
Contact City,State,Zip:		REDWOOD CITY, CA 94063
Contact Telephone:		650-279-7468
Contact Fax:		Not reported
Contact Email:		Not reported
Contact Title:		Not reported
EPA Region:		09
Land Type:		Not reported
Federal Waste Generator Description:		Not a generator, verified
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Handler Activities
State District Owner:		Not reported
State District:		Not reported
Mailing Address:		3698 HAVEN AVE STE A
Mailing City,State,Zip:		REDWOOD CITY, CA 94063-4604
Owner Name:	Not reported	
Owner Type:		Not reported
Operator Name:	ACHELOIS BIOPHARMA INC	
Operator Type:		Other
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**ACHELOIS BIOPHARMA (Continued)**

**1024852004**

Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	Yes
Universal Waste Destination Facility:	Yes
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRC Permit Baseline:	Not on the Baseline
2018 GPRC Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRC Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDs Where RCRA CA has Been Imposed Universe:	No
TSDs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20220504
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:  
 Owner/Operator Indicator: Operator  
 Owner/Operator Name: ACHELOIS BIOPHARMA INC



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ACHELOIS BIOPHARMA (Continued)**

**1024852004**

Legal Status: Other  
Date Became Current: Not reported  
Date Ended Current: Not reported  
Owner/Operator Address: 3698 HAVEN AVE STE A  
Owner/Operator City,State,Zip: REDWOOD CITY, CA 94063-4604  
Owner/Operator Telephone: 650-279-7468  
Owner/Operator Telephone Ext: Not reported  
Owner/Operator Fax: Not reported  
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner  
Owner/Operator Name: ACHELOIS ONCOLOGY, INC.  
Legal Status: Other  
Date Became Current: Not reported  
Date Ended Current: Not reported  
Owner/Operator Address: 3698 HAVEN AVE STE A  
Owner/Operator City,State,Zip: REDWOOD CITY, CA 94063-4604  
Owner/Operator Telephone: 650-279-7468  
Owner/Operator Telephone Ext: Not reported  
Owner/Operator Fax: Not reported  
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator  
Owner/Operator Name: CHANG ZHENG (ERIC) CHEN  
Legal Status: Other  
Date Became Current: Not reported  
Date Ended Current: Not reported  
Owner/Operator Address: 3698 HAVEN AVE STE A  
Owner/Operator City,State,Zip: REDWOOD CITY, CA 94063  
Owner/Operator Telephone: 650-279-7468  
Owner/Operator Telephone Ext: Not reported  
Owner/Operator Fax: Not reported  
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner  
Owner/Operator Name: CHANG-ZHENG (ERIC) CHEN  
Legal Status: Private  
Date Became Current: 20220425  
Date Ended Current: Not reported  
Owner/Operator Address: 3698, #A HAVEN AVE.  
Owner/Operator City,State,Zip: REDWOOD CITY, CA 94063  
Owner/Operator Telephone: 650-279-7468  
Owner/Operator Telephone Ext: Not reported  
Owner/Operator Fax: Not reported  
Owner/Operator Email: CHEN@ACHELOISPHARMA.COM

Owner/Operator Indicator: Operator  
Owner/Operator Name: ACHELOIS BIOPHARMA INC  
Legal Status: Other  
Date Became Current: Not reported  
Date Ended Current: Not reported  
Owner/Operator Address: 3698 HAVEN AVE STE A  
Owner/Operator City,State,Zip: REDWOOD CITY, CA 94063-4604  
Owner/Operator Telephone: 650-279-7468  
Owner/Operator Telephone Ext: Not reported  
Owner/Operator Fax: Not reported  
Owner/Operator Email: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ACHELOIS BIOPHARMA (Continued)**

**1024852004**

Owner/Operator Indicator: Operator  
Owner/Operator Name: ACHELOIS BIOPHARMA INC  
Legal Status: Private  
Date Became Current: 20220425  
Date Ended Current: Not reported  
Owner/Operator Address: 3698, #A HAVEN AVE  
Owner/Operator City,State,Zip: REDWOOD CITY, CA 94063-4604  
Owner/Operator Telephone: 650-279-7468  
Owner/Operator Telephone Ext: Not reported  
Owner/Operator Fax: Not reported  
Owner/Operator Email: ERIC@ACHELOISPHARMA.COM

Historic Generators:

Receive Date: 20220502  
Handler Name: ACHELOIS ONCOLOGY, INC.  
Federal Waste Generator Description: Not a generator, verified  
State District Owner: Not reported  
Large Quantity Handler of Universal Waste: No  
Recognized Trader Importer: No  
Recognized Trader Exporter: No  
Spent Lead Acid Battery Importer: No  
Spent Lead Acid Battery Exporter: No  
Current Record: No  
Non Storage Recycler Activity: No  
Electronic Manifest Broker: No

Receive Date: 20151002  
Handler Name: ACHELOIS ONCOLOGY, INC.  
Federal Waste Generator Description: Not a generator, verified  
State District Owner: Not reported  
Large Quantity Handler of Universal Waste: No  
Recognized Trader Importer: No  
Recognized Trader Exporter: No  
Spent Lead Acid Battery Importer: No  
Spent Lead Acid Battery Exporter: No  
Current Record: No  
Non Storage Recycler Activity: Not reported  
Electronic Manifest Broker: Not reported

Receive Date: 20220228  
Handler Name: ACHELOIS ONCOLOGY, INC.  
Federal Waste Generator Description: Not a generator, verified  
State District Owner: Not reported  
Large Quantity Handler of Universal Waste: No  
Recognized Trader Importer: No  
Recognized Trader Exporter: No  
Spent Lead Acid Battery Importer: No  
Spent Lead Acid Battery Exporter: No  
Current Record: No  
Non Storage Recycler Activity: No  
Electronic Manifest Broker: No

Receive Date: 20220502  
Handler Name: ACHELOIS BIOPHARMA  
Federal Waste Generator Description: Not a generator, verified  
State District Owner: Not reported  
Large Quantity Handler of Universal Waste: No

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**ACHELOIS BIOPHARMA (Continued)**

**1024852004**

Recognized Trader Importer: No  
 Recognized Trader Exporter: No  
 Spent Lead Acid Battery Importer: No  
 Spent Lead Acid Battery Exporter: No  
 Current Record: Yes  
 Non Storage Recycler Activity: No  
 Electronic Manifest Broker: No

List of NAICS Codes and Descriptions:

NAICS Code: 541711  
 NAICS Description: RESEARCH AND DEVELOPMENT IN BIOTECHNOLOGY

NAICS Code: 541714  
 NAICS Description: RESEARCH AND DEVELOPMENT IN BIOTECHNOLOGY (EXCEPT NANOBIOLOGY)

NAICS Code: 54172  
 NAICS Description: RESEARCH AND DEVELOPMENT IN THE SOCIAL SCIENCES AND HUMANITIES

Facility Has Received Notices of Violations:

Violations: No Violations Found

Evaluation Action Summary:

Evaluations: No Evaluations Found

**A13  
 WSW  
 < 1/8  
 0.025 mi.  
 131 ft.**

**ACHELOIS ONCOLOGY INC  
 3698 HAVEN  
 REDWOOD CITY, CA 94063  
 Site 13 of 30 in cluster A**

**CA San Mateo Co. BI S119781821  
 N/A**

**Relative:  
 Higher  
 Actual:  
 11 ft.**

San Mateo Co. BI:  
 Name: ACHELOIS ONCOLOGY INC  
 Address: 3698 HAVEN  
 City,State,Zip: REDWOOD CITY, CA 94063  
 Region: SAN MATEO  
 Facility ID: FA0060928  
 Prog Element Code: STORMWATER ANNUAL INSPECTION FEE  
 Record Id: PR0083542  
 Description: STORMWATER ANNUAL FEE - INSP FREQ EVERY 2 YRS  
 Facility Status: Inactive, non-billable  
 Program Category: STORMWATER

Name: ACHELOIS ONCOLOGY INC  
 Address: 3698 HAVEN  
 City,State,Zip: REDWOOD CITY, CA 94063  
 Region: SAN MATEO  
 Facility ID: FA0060928  
 Prog Element Code: GENERATES <27 GAL/YEAR  
 Record Id: PR0083541  
 Description: GENERATES <27 GAL/YEAR  
 Facility Status: Active, billable  
 Program Category: HAZARDOUS WASTE PROGRAM

Name: ACHELOIS ONCOLOGY INC  
 Address: 3698 HAVEN

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ACHELOIS ONCOLOGY INC (Continued)**

**S119781821**

City,State,Zip: REDWOOD CITY, CA 94063  
Region: SAN MATEO  
Facility ID: FA0060928  
Prog Element Code: STORES HAZ MAT <219GAL,1,999LB, 879FT3  
Record Id: PR0083610  
Description: STORES HAZ MAT <219GAL,1,999LB, 879CF  
Facility Status: Active, billable  
Program Category: BUSINESS PLAN PROGRAM

**A14**  
**WSW**  
**< 1/8**  
**0.025 mi.**  
**131 ft.**

**SILTEC CORPORATION (BLDG 5)**  
**3698 HAVEN AVE**  
**REDWOOD CITY, CA 94063**  
**Site 14 of 30 in cluster A**

**CA HIST UST** **U001594606**  
**N/A**

**Relative:**  
**Higher**  
**Actual:**  
**11 ft.**

HIST UST:  
Name: SILTEC CORPORATION (BLDG 5)  
Address: 3698 HAVEN AVE  
City,State,Zip: REDWOOD CITY, CA 94063  
File Number: 0002C2F7  
URL: <http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002C2F7.pdf>  
Region: STATE  
Facility ID: 00000001827  
Facility Type: Other  
Other Type: MANUFACTURE  
Contact Name: ART PEREIRA  
Telephone: 4153658600  
Owner Name: SILTEC CORPORATION  
Owner Address: 190 INDEPENDENCE DRIVE  
Owner City,St,Zip: MENLO PARK, CA 94025  
Total Tanks: 0002  
  
Tank Num: 001  
Container Num: 05-001  
Year Installed: 1983  
Tank Capacity: 00001500  
Tank Used for: WASTE  
Type of Fuel: Not reported  
Container Construction Thickness: 1/4  
Leak Detection: None  
  
Tank Num: 002  
Container Num: 05-002  
Year Installed: 1978  
Tank Capacity: 00000420  
Tank Used for: WASTE  
Type of Fuel: Not reported  
Container Construction Thickness: 1/4  
Leak Detection: Visual

Click here for Geo Tracker PDF:

MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Site

Database(s)

EDR ID Number  
EPA ID Number

**A15**  
**WSW**  
**< 1/8**  
**0.025 mi.**  
**131 ft.**

**CARDIOKINETIX INC**  
**3698 HAVEN**  
**REDWOOD CITY, CA 94063**

**Site 15 of 30 in cluster A**

**CA San Mateo Co. BI**    **S113758187**  
**N/A**

**Relative:**  
**Higher**

**Actual:**  
**11 ft.**

San Mateo Co. BI:  
Name: CARDIOKINETIX INC  
Address: 3698 HAVEN  
City,State,Zip: REDWOOD CITY, CA 94063  
Region: SAN MATEO  
Facility ID: FA0029706  
Prog Element Code: STORMWATER ANNUAL INSPECTION FEE  
Record Id: PR0051106  
Description: STORMWATER ANNUAL FEE - INSP FREQ EVERY 2 YRS  
Facility Status: Inactive, non-billable  
Program Category: STORMWATER

Name: CARDIOKINETIX INC  
Address: 3698 HAVEN  
City,State,Zip: REDWOOD CITY, CA 94063  
Region: SAN MATEO  
Facility ID: FA0029706  
Prog Element Code: GENERATES <27 GAL/YEAR  
Record Id: PR0051105  
Description: GENERATES <27 GAL/YEAR  
Facility Status: Inactive, non-billable  
Program Category: HAZARDOUS WASTE PROGRAM

**A16**  
**WSW**  
**< 1/8**  
**0.025 mi.**  
**131 ft.**

**BAROSENSE INC**  
**3698 HAVEN**  
**REDWOOD CITY, CA 94063**

**Site 16 of 30 in cluster A**

**CA San Mateo Co. BI**    **S113758486**  
**N/A**

**Relative:**  
**Higher**

**Actual:**  
**11 ft.**

San Mateo Co. BI:  
Name: BAROSENSE INC  
Address: 3698 HAVEN  
City,State,Zip: REDWOOD CITY, CA 94063  
Region: SAN MATEO  
Facility ID: FA0039009  
Prog Element Code: STORMWATER ANNUAL INSPECTION FEE  
Record Id: PR0055267  
Description: STORMWATER ANNUAL FEE - INSP FREQ EVERY 2 YRS  
Facility Status: Inactive, non-billable  
Program Category: STORMWATER

Name: BAROSENSE INC  
Address: 3698 HAVEN  
City,State,Zip: REDWOOD CITY, CA 94063  
Region: SAN MATEO  
Facility ID: FA0039009  
Prog Element Code: STORES MV FUELS OR WASTE ONLY  
Record Id: PR0056608  
Description: STORES MV FUELS OR WASTE ONLY  
Facility Status: Inactive, non-billable  
Program Category: BUSINESS PLAN PROGRAM

Name: BAROSENSE INC  
Address: 3698 HAVEN

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BAROSENSE INC (Continued)**

**S113758486**

City,State,Zip: REDWOOD CITY, CA 94063  
Region: SAN MATEO  
Facility ID: FA0039009  
Prog Element Code: GENERATES and RECYCLES WASTE OIL/SOLVENT  
Record Id: PR0055266  
Description: GENERATES & RECYCLES WASTE OIL/SOLVENT  
Facility Status: Inactive, non-billable  
Program Category: HAZARDOUS WASTE PROGRAM

Name: BAROSENSE INC  
Address: 3698 HAVEN  
City,State,Zip: REDWOOD CITY, CA 94063  
Region: SAN MATEO  
Facility ID: FA0040952  
Prog Element Code: SML QUANTITY GENERATOR(1-199lbs/Mo) OFF-SITE  
Record Id: PR0056876  
Description: SQG OFF-SITE TREATMENT (1-199 LB/MO)  
Facility Status: Inactive, non-billable  
Program Category: MEDICAL WASTE

**A17**  
**WSW**  
**< 1/8**  
**0.025 mi.**  
**131 ft.**

**EOPLEX TECHNOLOGIES INC**  
**3698 HAVEN**  
**REDWOOD CITY, CA 94063**

**CA San Mateo Co. BI S113758189**  
**N/A**

**Site 17 of 30 in cluster A**

**Relative:**  
**Higher**  
**Actual:**  
**11 ft.**

San Mateo Co. BI:  
Name: EOPLEX TECHNOLOGIES INC  
Address: 3698 HAVEN  
City,State,Zip: REDWOOD CITY, CA 94063  
Region: SAN MATEO  
Facility ID: FA0029708  
Prog Element Code: STORMWATER ANNUAL INSPECTION FEE  
Record Id: PR0051113  
Description: STORMWATER ANNUAL FEE - INSP FREQ EVERY 2 YRS  
Facility Status: Inactive, non-billable  
Program Category: STORMWATER

Name: EOPLEX TECHNOLOGIES INC  
Address: 3698 HAVEN  
City,State,Zip: REDWOOD CITY, CA 94063  
Region: SAN MATEO  
Facility ID: FA0029708  
Prog Element Code: GENERATES <27 GAL/YEAR  
Record Id: PR0051112  
Description: GENERATES <27 GAL/YEAR  
Facility Status: Inactive, non-billable  
Program Category: HAZARDOUS WASTE PROGRAM

Name: EOPLEX TECHNOLOGIES INC  
Address: 3698 HAVEN  
City,State,Zip: REDWOOD CITY, CA 94063  
Region: SAN MATEO  
Facility ID: FA0029708  
Prog Element Code: STORES HAZ MAT <219GAL,1,999LB, 879FT3  
Record Id: PR0068389  
Description: STORES HAZ MAT <219GAL,1,999LB, 879CF  
Facility Status: Inactive, non-billable

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**EOPLEX TECHNOLOGIES INC (Continued)**

**S113758189**

Program Category: BUSINESS PLAN PROGRAM

**A18**  
**WSW**  
**< 1/8**  
**0.028 mi.**  
**148 ft.**

**CHEMO CENTRYX**  
**3696 HAVEN**  
**REDWOOD CITY, CA 94063**

**CA San Mateo Co. BI**

**S113757960**  
**N/A**

**Site 18 of 30 in cluster A**

**Relative:**  
**Higher**  
**Actual:**  
**11 ft.**

San Mateo Co. BI:  
Name: CHEMO CENTRYX  
Address: 3696 HAVEN  
City,State,Zip: REDWOOD CITY, CA 94063  
Region: SAN MATEO  
Facility ID: FA0028278  
Prog Element Code: STORMWATER ANNUAL INSPECTION FEE  
Record Id: PR0046811  
Description: STORMWATER ANNUAL FEE - INSP FREQ EVERY 2 YRS  
Facility Status: Inactive, non-billable  
Program Category: STORMWATER

Name: CHEMO CENTRYX  
Address: 3696 HAVEN  
City,State,Zip: REDWOOD CITY, CA 94063  
Region: SAN MATEO  
Facility ID: FA0028278  
Prog Element Code: STORES HAZ MAT <219GAL,1,999LB, 879FT3  
Record Id: PR0046809  
Description: STORES HAZ MAT <219GAL,1,999LB, 879CF  
Facility Status: Inactive, non-billable  
Program Category: BUSINESS PLAN PROGRAM

Name: CHEMO CENTRYX  
Address: 3696 HAVEN  
City,State,Zip: REDWOOD CITY, CA 94063  
Region: SAN MATEO  
Facility ID: FA0028278  
Prog Element Code: GEN <1 TONS HAZ WASTE/YR  
Record Id: PR0046810  
Description: GEN <1 TONS HAZ WASTE/YR  
Facility Status: Inactive, non-billable  
Program Category: HAZARDOUS WASTE PROGRAM

**A19**  
**WSW**  
**< 1/8**  
**0.028 mi.**  
**148 ft.**

**ADVANCED POLYMER SYSTEMS INC**  
**3696 HAVEN**  
**REDWOOD CITY, CA 94063**

**CA San Mateo Co. BI**

**S113756426**  
**N/A**

**Site 19 of 30 in cluster A**

**Relative:**  
**Higher**  
**Actual:**  
**11 ft.**

San Mateo Co. BI:  
Name: ADVANCED POLYMER SYSTEMS INC  
Address: 3696 HAVEN  
City,State,Zip: REDWOOD CITY, CA 94063  
Region: SAN MATEO  
Facility ID: FA0017463  
Prog Element Code: GEN 1-5 TONS HAZ WASTE/YR  
Record Id: PR0011123

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**ADVANCED POLYMER SYSTEMS INC (Continued)**

**S113756426**

Description: GEN 1-5 TONS HAZ WASTE/YR  
 Facility Status: Inactive, non-billable  
 Program Category: HAZARDOUS WASTE PROGRAM

Name: ADVANCED POLYMER SYSTEMS INC  
 Address: 3696 HAVEN  
 City,State,Zip: REDWOOD CITY, CA 94063  
 Region: SAN MATEO  
 Facility ID: FA0017463  
 Prog Element Code: STORES HAZ MAT <1,199GAL,9,999LB,4,799FT3  
 Record Id: PR0003779  
 Description: STORES HAZ MAT <1,199GAL,9,999LB,4,799CF  
 Facility Status: Inactive, non-billable  
 Program Category: BUSINESS PLAN PROGRAM

**A20**  
**WSW**  
 < 1/8  
 0.028 mi.  
 148 ft.

**SYNTHEGO CORP**  
**3696 HAVEN AVE STE A**  
**REDWOOD CITY, CA 94063**  
 Site 20 of 30 in cluster A

**CA CERS HAZ WASTE**  
**CA HAZNET**  
**CA CERS**  
**CA HWTS**

**S118234074**  
**N/A**

**Relative:**  
**Higher**

CERS HAZ WASTE:  
 Name: SYNTHEGO CORP  
 Address: 3696 HAVEN AVE STE A  
 City,State,Zip: REDWOOD CITY, CA 94063  
 Site ID: 369939  
 CERS ID: 10507609  
 CERS Description: Hazardous Waste Generator

**Actual:**  
**11 ft.**

HAZNET:  
 Name: SYNTHEGO CORP  
 Address: 3696 HAVEN AVE STE A  
 Address 2: Not reported  
 City,State,Zip: REDWOOD CITY, CA 940634604  
 Contact: TREVOR LONGBOTTOM  
 Telephone: 6502245207  
 Mailing Name: Not reported  
 Mailing Address: 3696 HAVEN AVE SUITE A

Year: 2021  
 Gepaid: CAL000389888  
 TSD EPA ID: NED981723513  
 CA Waste Code: 343 - Unspecified organic liquid mixture  
 Disposal Method: H040 - Incineration--Thermal Destruction Other Than Use As A Fuel  
 Tons: 0.935

Year: 2021  
 Gepaid: CAL000389888  
 TSD EPA ID: NED981723513  
 CA Waste Code: 212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.)  
 Disposal Method: H040 - Incineration--Thermal Destruction Other Than Use As A Fuel  
 Tons: 5.841

Year: 2020  
 Gepaid: CAL000389888  
 TSD EPA ID: CAD059494310  
 CA Waste Code: 212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.)



Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**SYNTHEGO CORP (Continued)**

**S118234074**

Disposal Method:  Tons:  Year: Gepaid: TSD EPA ID: CA Waste Code: Disposal Method:  Tons:  Year: Gepaid: TSD EPA ID: CA Waste Code: Disposal Method:  Tons:  Year: Gepaid: TSD EPA ID: CA Waste Code: Disposal Method:  Tons:  Year: Gepaid: TSD EPA ID: CA Waste Code: Disposal Method:  Tons:  Year: Gepaid: TSD EPA ID: CA Waste Code: Disposal Method:  Tons:  Year: Gepaid: TSD EPA ID: CA Waste Code: Disposal Method:  Tons:  Year: Gepaid: TSD EPA ID: CA Waste Code: Disposal Method:  Tons:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) 50.2045  2020 CAL000389888 CAD059494310 513 - Empty containers less than 30 gallons H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) 12.35  2020 CAL000389888 NED981723513 212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.) H040 - Incineration--Thermal Destruction Other Than Use As A Fuel 11.365  2020 CAL000389888 NED981723513 343 - Unspecified organic liquid mixture H040 - Incineration--Thermal Destruction Other Than Use As A Fuel 1.496  2020 CAL000389888 CAD059494310 343 - Unspecified organic liquid mixture H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) 2.057  2019 CAL000389888 CAD008302903 212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.) H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) 2.35950  2019 CAL000389888 CAD059494310 513 - Empty containers less than 30 gallons H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) 12.87500  2019 CAL000389888 KSD980633259 343 - Unspecified organic liquid mixture H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) 0.18700
---	--

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SYNTHEGO CORP (Continued)**

**S118234074**

[Click this hyperlink](#) while viewing on your computer to access 25 additional CA HAZNET: record(s) in the EDR Site Report.

Detail Two:

Year: 2020  
EM Manifest ID: a1feefa1-3735-49bd-8ce2-4e447af6c02a  
Shipment Date: 8/4/2020  
Receipt Date: 8/7/2020  
Manifest Number: 015172793FLE  
Generator EPA ID: CAL000389888  
Name: SYNTHEGO CORP.  
Address: 3696 HAVEN AVENUE  
Address 2: Not reported  
City: REDWOOD CITY  
Zip: 94063  
Telephone: 800-483-3718  
Contact: Omar Kurdi  
Contact Telephone: 888-611-6883  
Transporter 1 EPA ID: MAD039322250  
Transporter 1 Emergency Number: Not reported  
Transporter 2 EPA ID: MAD039322250  
Transporter 2 Emergency Number: Not reported  
TSDf EPA ID: NED981723513  
TSDf Name: Clean Harbors Environmental Services, Inc.  
TSDf Address 1: 2247 South Highway 71  
TSDf Address 2: Not reported  
TSDf City: Kimball  
TSDf Zip: 69145  
TSDf Telephone: 800-483-3718

Federal:

Year: 2020  
EM Manifest ID: a1feefa1-3735-49bd-8ce2-4e447af6c02a  
Generator EPA ID: CAL000389888  
Shipment Date: 2020-08-04  
Manifest Number: 015172793FLE  
Line Number: 1  
Method Code: H040  
Quantity Tons: 1.81500  
Quantity Waste: 550.000000  
Quantity Unit: G  
Number of Containers: 2  
Type of Container: Portable tanks  
Quantity Type: Gallons  
Federal Code: D001

Year: 2020  
EM Manifest ID: a1feefa1-3735-49bd-8ce2-4e447af6c02a  
Generator EPA ID: CAL000389888  
Shipment Date: 2020-08-04  
Manifest Number: 015172793FLE  
Line Number: 1  
Method Code: H040  
Quantity Tons: 1.81500  
Quantity Waste: 550.000000  
Quantity Unit: G

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SYNTHEGO CORP (Continued)**

**S118234074**

Number of Containers: 2  
Type of Container: Portable tanks  
Quantity Type: Gallons  
Federal Code: D038  
  
Year: 2020  
EM Manifest ID: a1feefa1-3735-49bd-8ce2-4e447af6c02a  
Generator EPA ID: CAL000389888  
Shipment Date: 2020-08-04  
Manifest Number: 015172793FLE  
Line Number: 1  
Method Code: H040  
Quantity Tons: 1.81500  
Quantity Waste: 550.000000  
Quantity Unit: G  
Number of Containers: 2  
Type of Container: Portable tanks  
Quantity Type: Gallons  
Federal Code: F005

State:

Year: 2020  
EM Manifest ID: a1feefa1-3735-49bd-8ce2-4e447af6c02a  
Generator EPA ID: CAL000389888  
Shipment Date: 2020-08-04  
Manifest Number: 015172793FLE  
Line Number: 1  
Method Code: H040  
Quantity Tons: 1.81500  
Quantity Waste: 550.000000  
Quantity Unit: G  
Number of Containers: 2  
Type of Container: Portable tanks  
Quantity Type: Gallons  
State Code: 212

Year: 2020  
EM Manifest ID: 146aee8d-7655-4e4e-8f3f-e14882cc8234  
Shipment Date: 8/18/2020  
Receipt Date: 8/27/2020  
Manifest Number: 015171275FLE  
Generator EPA ID: CAL000389888  
Name: SYNTHEGO CORP.  
Address: 3696 HAVEN AVENUE  
Address 2: Not reported  
City: REDWOOD CITY  
Zip: 94063  
Telephone: 800-483-3718  
Contact: Isaias Martinez  
Contact Telephone: 602-829-2402  
Transporter 1 EPA ID: MAD039322250  
Transporter 1 Emergency Number: Not reported  
Transporter 2 EPA ID: MAD039322250  
Transporter 2 Emergency Number: Not reported  
TSDF EPA ID: NED981723513  
TSDF Name: Clean Harbors Environmental Services, Inc.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SYNTHEGO CORP (Continued)**

**S118234074**

TSDF Address 1: 2247 South Highway 71  
TSDF Address 2: Not reported  
TSDF City: Kimball  
TSDF Zip: 69145  
TSDF Telephone: 800-483-3718

Federal:

Year: 2020  
EM Manifest ID: 146aee8d-7655-4e4e-8f3f-e14882cc8234  
Generator EPA ID: CAL000389888  
Shipment Date: 2020-08-18  
Manifest Number: 015171275FLE  
Line Number: 1  
Method Code: H040  
Quantity Tons: 1.65000  
Quantity Waste: 500.000000  
Quantity Unit: G  
Number of Containers: 2  
Type of Container: Portable tanks  
Quantity Type: Gallons  
Federal Code: D001

Year: 2020  
EM Manifest ID: 146aee8d-7655-4e4e-8f3f-e14882cc8234  
Generator EPA ID: CAL000389888  
Shipment Date: 2020-08-18  
Manifest Number: 015171275FLE  
Line Number: 1  
Method Code: H040  
Quantity Tons: 1.65000  
Quantity Waste: 500.000000  
Quantity Unit: G  
Number of Containers: 2  
Type of Container: Portable tanks  
Quantity Type: Gallons  
Federal Code: D038

Year: 2020  
EM Manifest ID: 146aee8d-7655-4e4e-8f3f-e14882cc8234  
Generator EPA ID: CAL000389888  
Shipment Date: 2020-08-18  
Manifest Number: 015171275FLE  
Line Number: 1  
Method Code: H040  
Quantity Tons: 1.65000  
Quantity Waste: 500.000000  
Quantity Unit: G  
Number of Containers: 2  
Type of Container: Portable tanks  
Quantity Type: Gallons  
Federal Code: F005

State:

Year: 2020  
EM Manifest ID: 146aee8d-7655-4e4e-8f3f-e14882cc8234  
Generator EPA ID: CAL000389888  
Shipment Date: 2020-08-18

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SYNTHEGO CORP (Continued)**

**S118234074**

Manifest Number: 015171275FLE  
Line Number: 1  
Method Code: H040  
Quantity Tons: 1.65000  
Quantity Waste: 500.000000  
Quantity Unit: G  
Number of Containers: 2  
Type of Container: Portable tanks  
Quantity Type: Gallons  
State Code: 212

Year: 2020  
EM Manifest ID: 4b41a9c9-3cb8-46d2-86ae-af4b5a0aea95  
Shipment Date: 8/11/2020  
Receipt Date: 8/18/2020  
Manifest Number: 015171104FLE  
Generator EPA ID: CAL000389888  
Name: SYNTHEGO CORP.  
Address: 3696 HAVEN AVENUE  
Address 2: Not reported  
City: REDWOOD CITY  
Zip: 94063  
Telephone: 800-483-3718  
Contact: Isaias Martinez  
Contact Telephone: 602-829-2402  
Transporter 1 EPA ID: MAD039322250  
Transporter 1 Emergency Number: Not reported  
Transporter 2 EPA ID: MAD039322250  
Transporter 2 Emergency Number: Not reported  
TSDf EPA ID: NED981723513  
TSDf Name: Clean Harbors Environmental Services, Inc.  
TSDf Address 1: 2247 South Highway 71  
TSDf Address 2: Not reported  
TSDf City: Kimball  
TSDf Zip: 69145  
TSDf Telephone: 800-483-3718

**Federal:**

Year: 2020  
EM Manifest ID: 4b41a9c9-3cb8-46d2-86ae-af4b5a0aea95  
Generator EPA ID: CAL000389888  
Shipment Date: 2020-08-11  
Manifest Number: 015171104FLE  
Line Number: 1  
Method Code: H040  
Quantity Tons: 1.65000  
Quantity Waste: 500.000000  
Quantity Unit: G  
Number of Containers: 2  
Type of Container: Portable tanks  
Quantity Type: Gallons  
Federal Code: D001

Year: 2020  
EM Manifest ID: 4b41a9c9-3cb8-46d2-86ae-af4b5a0aea95  
Generator EPA ID: CAL000389888  
Shipment Date: 2020-08-11

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SYNTHEGO CORP (Continued)**

**S118234074**

Manifest Number: 015171104FLE  
Line Number: 1  
Method Code: H040  
Quantity Tons: 1.65000  
Quantity Waste: 500.000000  
Quantity Unit: G  
Number of Containers: 2  
Type of Container: Portable tanks  
Quantity Type: Gallons  
Federal Code: D038

Year: 2020  
EM Manifest ID: 4b41a9c9-3cb8-46d2-86ae-af4b5a0aea95  
Generator EPA ID: CAL000389888  
Shipment Date: 2020-08-11  
Manifest Number: 015171104FLE  
Line Number: 1  
Method Code: H040  
Quantity Tons: 1.65000  
Quantity Waste: 500.000000  
Quantity Unit: G  
Number of Containers: 2  
Type of Container: Portable tanks  
Quantity Type: Gallons  
Federal Code: F005

State:

Year: 2020  
EM Manifest ID: 4b41a9c9-3cb8-46d2-86ae-af4b5a0aea95  
Generator EPA ID: CAL000389888  
Shipment Date: 2020-08-11  
Manifest Number: 015171104FLE  
Line Number: 1  
Method Code: H040  
Quantity Tons: 1.65000  
Quantity Waste: 500.000000  
Quantity Unit: G  
Number of Containers: 2  
Type of Container: Portable tanks  
Quantity Type: Gallons  
State Code: 212

Year: 2020  
EM Manifest ID: f9bb7a2c-7b36-4714-932c-a696d383b2fa  
Shipment Date: 7/9/2020  
Receipt Date: 7/23/2020  
Manifest Number: 014449694FLE  
Generator EPA ID: CAL000389888  
Name: SYNTHEGO CORP.  
Address: 3696 HAVEN AVENUE  
Address 2: Not reported  
City: REDWOOD CITY  
Zip: 94063  
Telephone: 800-483-3718  
Contact: Omar Kurdi  
Contact Telephone: 888-611-6883

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SYNTHEGO CORP (Continued)**

**S118234074**

Transporter 1 EPA ID: MAD039322250  
Transporter 1 Emergency Number: Not reported  
Transporter 2 EPA ID: MAD039322250  
Transporter 2 Emergency Number: Not reported  
TSDf EPA ID: NED981723513  
TSDf Name: Clean Harbors Environmental Services, Inc.  
TSDf Address 1: 2247 South Highway 71  
TSDf Address 2: Not reported  
TSDf City: Kimball  
TSDf Zip: 69145  
TSDf Telephone: 800-483-3718

Federal:

Year: 2020  
EM Manifest ID: f9bb7a2c-7b36-4714-932c-a696d383b2fa  
Generator EPA ID: CAL000389888  
Shipment Date: 2020-07-09  
Manifest Number: 014449694FLE  
Line Number: 1  
Method Code: H040  
Quantity Tons: 1.65000  
Quantity Waste: 500.000000  
Quantity Unit: G  
Number of Containers: 2  
Type of Container: Portable tanks  
Quantity Type: Gallons  
Federal Code: D001

Year: 2020  
EM Manifest ID: f9bb7a2c-7b36-4714-932c-a696d383b2fa  
Generator EPA ID: CAL000389888  
Shipment Date: 2020-07-09  
Manifest Number: 014449694FLE  
Line Number: 1  
Method Code: H040  
Quantity Tons: 1.65000  
Quantity Waste: 500.000000  
Quantity Unit: G  
Number of Containers: 2  
Type of Container: Portable tanks  
Quantity Type: Gallons  
Federal Code: D038

Year: 2020  
EM Manifest ID: f9bb7a2c-7b36-4714-932c-a696d383b2fa  
Generator EPA ID: CAL000389888  
Shipment Date: 2020-07-09  
Manifest Number: 014449694FLE  
Line Number: 1  
Method Code: H040  
Quantity Tons: 1.65000  
Quantity Waste: 500.000000  
Quantity Unit: G  
Number of Containers: 2  
Type of Container: Portable tanks  
Quantity Type: Gallons  
Federal Code: F005

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SYNTHEGO CORP (Continued)**

**S118234074**

State:

Year: 2020  
EM Manifest ID: f9bb7a2c-7b36-4714-932c-a696d383b2fa  
Generator EPA ID: CAL000389888  
Shipment Date: 2020-07-09  
Manifest Number: 014449694FLE  
Line Number: 1  
Method Code: H040  
Quantity Tons: 1.65000  
Quantity Waste: 500.000000  
Quantity Unit: G  
Number of Containers: 2  
Type of Container: Portable tanks  
Quantity Type: Gallons  
State Code: 212

Year: 2020  
EM Manifest ID: 09e3fcca-57bd-4e61-ad62-a3850c7f5135  
Shipment Date: 7/28/2020  
Receipt Date: 8/4/2020  
Manifest Number: 015172529FLE  
Generator EPA ID: CAL000389888  
Name: SYNTHEGO CORP.  
Address: 3696 HAVEN AVENUE  
Address 2: Not reported  
City: REDWOOD CITY  
Zip: 94063  
Telephone: 800-483-3718  
Contact: Omar Kurdi  
Contact Telephone: 888-611-6883  
Transporter 1 EPA ID: MAD039322250  
Transporter 1 Emergency Number: Not reported  
Transporter 2 EPA ID: MAD039322250  
Transporter 2 Emergency Number: Not reported  
TSDf EPA ID: NED981723513  
TSDf Name: Clean Harbors Environmental Services, Inc.  
TSDf Address 1: 2247 South Highway 71  
TSDf Address 2: Not reported  
TSDf City: Kimball  
TSDf Zip: 69145  
TSDf Telephone: 800-483-3718

Federal:

Year: 2020  
EM Manifest ID: 09e3fcca-57bd-4e61-ad62-a3850c7f5135  
Generator EPA ID: CAL000389888  
Shipment Date: 2020-07-28  
Manifest Number: 015172529FLE  
Line Number: 1  
Method Code: H040  
Quantity Tons: 1.65000  
Quantity Waste: 500.000000  
Quantity Unit: G  
Number of Containers: 2  
Type of Container: Portable tanks  
Quantity Type: Gallons



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SYNTHEGO CORP (Continued)**

**S118234074**

Federal Code: D001

Year: 2020  
EM Manifest ID: 09e3fcca-57bd-4e61-ad62-a3850c7f5135  
Generator EPA ID: CAL000389888  
Shipment Date: 2020-07-28  
Manifest Number: 015172529FLE  
Line Number: 1  
Method Code: H040  
Quantity Tons: 1.65000  
Quantity Waste: 500.000000  
Quantity Unit: G  
Number of Containers: 2  
Type of Container: Portable tanks  
Quantity Type: Gallons  
Federal Code: D038

Year: 2020  
EM Manifest ID: 09e3fcca-57bd-4e61-ad62-a3850c7f5135  
Generator EPA ID: CAL000389888  
Shipment Date: 2020-07-28  
Manifest Number: 015172529FLE  
Line Number: 1  
Method Code: H040  
Quantity Tons: 1.65000  
Quantity Waste: 500.000000  
Quantity Unit: G  
Number of Containers: 2  
Type of Container: Portable tanks  
Quantity Type: Gallons  
Federal Code: F005

State:

Year: 2020  
EM Manifest ID: 09e3fcca-57bd-4e61-ad62-a3850c7f5135  
Generator EPA ID: CAL000389888  
Shipment Date: 2020-07-28  
Manifest Number: 015172529FLE  
Line Number: 1  
Method Code: H040  
Quantity Tons: 1.65000  
Quantity Waste: 500.000000  
Quantity Unit: G  
Number of Containers: 2  
Type of Container: Portable tanks  
Quantity Type: Gallons  
State Code: 212

Year: 2020  
EM Manifest ID: eebac0b0-6c0d-48ef-b2b0-df1e3f341d20  
Shipment Date: 7/21/2020  
Receipt Date: 8/1/2020  
Manifest Number: 015172359FLE  
Generator EPA ID: CAL000389888  
Name: SYNTHEGO CORP.  
Address: 3696 HAVEN AVENUE

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SYNTHEGO CORP (Continued)**

**S118234074**

Address 2: Not reported  
City: REDWOOD CITY  
Zip: 94063  
Telephone: 800-483-3718  
Contact: Omar Kurdi  
Contact Telephone: 888-611-6883  
Transporter 1 EPA ID: MAD039322250  
Transporter 1 Emergency Number: Not reported  
Transporter 2 EPA ID: MOD095038998  
Transporter 2 Emergency Number: Not reported  
TSDf EPA ID: NED981723513  
TSDf Name: Clean Harbors Environmental Services, Inc.  
TSDf Address 1: 2247 South Highway 71  
TSDf Address 2: Not reported  
TSDf City: Kimball  
TSDf Zip: 69145  
TSDf Telephone: 800-483-3718

**Federal:**

Year: 2020  
EM Manifest ID: eebac0b0-6c0d-48ef-b2b0-df1e3f341d20  
Generator EPA ID: CAL000389888  
Shipment Date: 2020-07-21  
Manifest Number: 015172359FLE  
Line Number: 1  
Method Code: H040  
Quantity Tons: 1.65000  
Quantity Waste: 500.000000  
Quantity Unit: G  
Number of Containers: 2  
Type of Container: Portable tanks  
Quantity Type: Gallons  
Federal Code: D001

Year: 2020  
EM Manifest ID: eebac0b0-6c0d-48ef-b2b0-df1e3f341d20  
Generator EPA ID: CAL000389888  
Shipment Date: 2020-07-21  
Manifest Number: 015172359FLE  
Line Number: 1  
Method Code: H040  
Quantity Tons: 1.65000  
Quantity Waste: 500.000000  
Quantity Unit: G  
Number of Containers: 2  
Type of Container: Portable tanks  
Quantity Type: Gallons  
Federal Code: D038

Year: 2020  
EM Manifest ID: eebac0b0-6c0d-48ef-b2b0-df1e3f341d20  
Generator EPA ID: CAL000389888  
Shipment Date: 2020-07-21  
Manifest Number: 015172359FLE  
Line Number: 1  
Method Code: H040  
Quantity Tons: 1.65000  
Quantity Waste: 500.000000

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SYNTHEGO CORP (Continued)**

**S118234074**

Quantity Unit: G  
Number of Containers: 2  
Type of Container: Portable tanks  
Quantity Type: Gallons  
Federal Code: F005

State:

Year: 2020  
EM Manifest ID: eebac0b0-6c0d-48ef-b2b0-df1e3f341d20  
Generator EPA ID: CAL000389888  
Shipment Date: 2020-07-21  
Manifest Number: 015172359FLE  
Line Number: 1  
Method Code: H040  
Quantity Tons: 1.65000  
Quantity Waste: 500.000000  
Quantity Unit: G  
Number of Containers: 2  
Type of Container: Portable tanks  
Quantity Type: Gallons  
State Code: 212

Year: 2020  
EM Manifest ID: 781508a5-ee51-465d-8234-092ce27facb7  
Shipment Date: 7/14/2020  
Receipt Date: 7/23/2020  
Manifest Number: 014447150FLE  
Generator EPA ID: CAL000389888  
Name: SYNTHEGO CORP.  
Address: 3696 HAVEN AVENUE  
Address 2: Not reported  
City: REDWOOD CITY  
Zip: 94063  
Telephone: 800-483-3718  
Contact: Omar Kurdi  
Contact Telephone: 888-611-6883  
Transporter 1 EPA ID: MAD039322250  
Transporter 1 Emergency Number: Not reported  
Transporter 2 EPA ID: MAD039322250  
Transporter 2 Emergency Number: Not reported  
TSDf EPA ID: NED981723513  
TSDf Name: Clean Harbors Environmental Services, Inc.  
TSDf Address 1: 2247 South Highway 71  
TSDf Address 2: Not reported  
TSDf City: Kimball  
TSDf Zip: 69145  
TSDf Telephone: 800-483-3718

Federal:

Year: 2020  
EM Manifest ID: 781508a5-ee51-465d-8234-092ce27facb7  
Generator EPA ID: CAL000389888  
Shipment Date: 2020-07-14  
Manifest Number: 014447150FLE  
Line Number: 1  
Method Code: H040

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SYNTHEGO CORP (Continued)**

**S118234074**

Quantity Tons: 0.82500  
Quantity Waste: 250.000000  
Quantity Unit: G  
Number of Containers: 1  
Type of Container: Portable tanks  
Quantity Type: Gallons  
Federal Code: D001

Year: 2020  
EM Manifest ID: 781508a5-ee51-465d-8234-092ce27facb7  
Generator EPA ID: CAL000389888  
Shipment Date: 2020-07-14  
Manifest Number: 014447150FLE  
Line Number: 1  
Method Code: H040  
Quantity Tons: 0.82500  
Quantity Waste: 250.000000  
Quantity Unit: G  
Number of Containers: 1  
Type of Container: Portable tanks  
Quantity Type: Gallons  
Federal Code: D038

Year: 2020  
EM Manifest ID: 781508a5-ee51-465d-8234-092ce27facb7  
Generator EPA ID: CAL000389888  
Shipment Date: 2020-07-14  
Manifest Number: 014447150FLE  
Line Number: 1  
Method Code: H040  
Quantity Tons: 0.82500  
Quantity Waste: 250.000000  
Quantity Unit: G  
Number of Containers: 1  
Type of Container: Portable tanks  
Quantity Type: Gallons  
Federal Code: F005

State:  
Year: 2020  
EM Manifest ID: 781508a5-ee51-465d-8234-092ce27facb7  
Generator EPA ID: CAL000389888  
Shipment Date: 2020-07-14  
Manifest Number: 014447150FLE  
Line Number: 1  
Method Code: H040  
Quantity Tons: 0.82500  
Quantity Waste: 250.000000  
Quantity Unit: G  
Number of Containers: 1  
Type of Container: Portable tanks  
Quantity Type: Gallons  
State Code: 212

Year: 2020  
EM Manifest ID: fbd1d3a1-85b3-44a1-b3e3-ba0d43bb791b

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SYNTHEGO CORP (Continued)**

**S118234074**

Shipment Date: 6/9/2020  
Receipt Date: 6/15/2020  
Manifest Number: 014191683FLE  
Generator EPA ID: CAL000389888  
Name: SYNTHEGO CORP.  
Address: 3696 HAVEN AVENUE  
Address 2: Not reported  
City: REDWOOD CITY  
Zip: 94063  
Telephone: 800-483-3718  
Contact: Omar Kurdi  
Contact Telephone: 888-611-6883  
Transporter 1 EPA ID: MAD039322250  
Transporter 1 Emergency Number: Not reported  
Transporter 2 EPA ID: MAD039322250  
Transporter 2 Emergency Number: Not reported  
TSDf EPA ID: CAD059494310  
TSDf Name: Clean Harbors San Jose LLC  
TSDf Address 1: 1021 Berryessa Road  
TSDf Address 2: Not reported  
TSDf City: San Jose  
TSDf Zip: 95133  
TSDf Telephone: 800-483-3718

**Federal:**

Year: 2020  
EM Manifest ID: fbd1d3a1-85b3-44a1-b3e3-ba0d43bb791b  
Generator EPA ID: CAL000389888  
Shipment Date: 2020-06-09  
Manifest Number: 014191683FLE  
Line Number: 1  
Method Code: H141  
Quantity Tons: 0.82500  
Quantity Waste: 250.000000  
Quantity Unit: G  
Number of Containers: 1  
Type of Container: Portable tanks  
Quantity Type: Gallons  
Federal Code: D001

Year: 2020  
EM Manifest ID: fbd1d3a1-85b3-44a1-b3e3-ba0d43bb791b  
Generator EPA ID: CAL000389888  
Shipment Date: 2020-06-09  
Manifest Number: 014191683FLE  
Line Number: 1  
Method Code: H141  
Quantity Tons: 0.82500  
Quantity Waste: 250.000000  
Quantity Unit: G  
Number of Containers: 1  
Type of Container: Portable tanks  
Quantity Type: Gallons  
Federal Code: D038

Year: 2020  
EM Manifest ID: fbd1d3a1-85b3-44a1-b3e3-ba0d43bb791b  
Generator EPA ID: CAL000389888

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SYNTHEGO CORP (Continued)**

**S118234074**

Shipment Date: 2020-06-09  
Manifest Number: 014191683FLE  
Line Number: 1  
Method Code: H141  
Quantity Tons: 0.82500  
Quantity Waste: 250.000000  
Quantity Unit: G  
Number of Containers: 1  
Type of Container: Portable tanks  
Quantity Type: Gallons  
Federal Code: F005

State:

Year: 2020  
EM Manifest ID: fbd1d3a1-85b3-44a1-b3e3-ba0d43bb791b  
Generator EPA ID: CAL000389888  
Shipment Date: 2020-06-09  
Manifest Number: 014191683FLE  
Line Number: 1  
Method Code: H141  
Quantity Tons: 0.82500  
Quantity Waste: 250.000000  
Quantity Unit: G  
Number of Containers: 1  
Type of Container: Portable tanks  
Quantity Type: Gallons  
State Code: 212

Year: 2020  
EM Manifest ID: 182c6581-edff-417a-a1df-eea08ebf112b  
Shipment Date: 6/30/2020  
Receipt Date: 7/1/2020  
Manifest Number: 014449360FLE  
Generator EPA ID: CAL000389888  
Name: SYNTHEGO CORP.  
Address: 3696 HAVEN AVENUE  
Address 2: Not reported  
City: REDWOOD CITY  
Zip: 94063  
Telephone: 800-483-3718  
Contact: Omar Kurdi  
Contact Telephone: 888-611-6883  
Transporter 1 EPA ID: MAD039322250  
Transporter 1 Emergency Number: Not reported  
Transporter 2 EPA ID: MAD039322250  
Transporter 2 Emergency Number: Not reported  
TSDF EPA ID: CAD059494310  
TSDF Name: Clean Harbors San Jose LLC  
TSDF Address 1: 1021 Berryessa Road  
TSDF Address 2: Not reported  
TSDF City: San Jose  
TSDF Zip: 95133  
TSDF Telephone: 800-483-3718

Federal:  
Year: 2020

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SYNTHEGO CORP (Continued)**

**S118234074**

EM Manifest ID: 182c6581-edff-417a-a1df-eea08ebf112b  
Generator EPA ID: CAL000389888  
Shipment Date: 2020-06-30  
Manifest Number: 014449360FLE  
Line Number: 1  
Method Code: H141  
Quantity Tons: 0.82500  
Quantity Waste: 250.000000  
Quantity Unit: G  
Number of Containers: 1  
Type of Container: Portable tanks  
Quantity Type: Gallons  
Federal Code: D001

Year: 2020  
EM Manifest ID: 182c6581-edff-417a-a1df-eea08ebf112b  
Generator EPA ID: CAL000389888  
Shipment Date: 2020-06-30  
Manifest Number: 014449360FLE  
Line Number: 1  
Method Code: H141  
Quantity Tons: 0.82500  
Quantity Waste: 250.000000  
Quantity Unit: G  
Number of Containers: 1  
Type of Container: Portable tanks  
Quantity Type: Gallons  
Federal Code: D038

Year: 2020  
EM Manifest ID: 182c6581-edff-417a-a1df-eea08ebf112b  
Generator EPA ID: CAL000389888  
Shipment Date: 2020-06-30  
Manifest Number: 014449360FLE  
Line Number: 1  
Method Code: H141  
Quantity Tons: 0.82500  
Quantity Waste: 250.000000  
Quantity Unit: G  
Number of Containers: 1  
Type of Container: Portable tanks  
Quantity Type: Gallons  
Federal Code: F005

State:  
Year: 2020  
EM Manifest ID: 182c6581-edff-417a-a1df-eea08ebf112b  
Generator EPA ID: CAL000389888  
Shipment Date: 2020-06-30  
Manifest Number: 014449360FLE  
Line Number: 1  
Method Code: H141  
Quantity Tons: 0.82500  
Quantity Waste: 250.000000  
Quantity Unit: G  
Number of Containers: 1  
Type of Container: Portable tanks

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SYNTHEGO CORP (Continued)**

**S118234074**

Quantity Type:	Gallons
State Code:	212
Year:	2020
EM Manifest ID:	5469eeaa-94e1-4572-bb6a-119cf64db320
Shipment Date:	6/23/2020
Receipt Date:	6/30/2020
Manifest Number:	014454626FLE
Generator EPA ID:	CAL000389888
Name:	SYNTHEGO CORP.
Address:	3696 HAVEN AVENUE
Address 2:	Not reported
City:	REDWOOD CITY
Zip:	94063
Telephone:	800-483-3718
Contact:	Omar Kurdi
Contact Telephone:	888-611-6883
Transporter 1 EPA ID:	MAD039322250
Transporter 1 Emergency Number:	Not reported
Transporter 2 EPA ID:	MAD039322250
Transporter 2 Emergency Number:	Not reported
TSDf EPA ID:	CAD059494310
TSDf Name:	Clean Harbors San Jose LLC
TSDf Address 1:	1021 Berryessa Road
TSDf Address 2:	Not reported
TSDf City:	San Jose
TSDf Zip:	95133
TSDf Telephone:	800-483-3718
Federal:	
Year:	2020
EM Manifest ID:	5469eeaa-94e1-4572-bb6a-119cf64db320
Generator EPA ID:	CAL000389888
Shipment Date:	2020-06-23
Manifest Number:	014454626FLE
Line Number:	1
Method Code:	H141
Quantity Tons:	0.74250
Quantity Waste:	225.000000
Quantity Unit:	G
Number of Containers:	1
Type of Container:	Portable tanks
Quantity Type:	Gallons
Federal Code:	D001
Year:	2020
EM Manifest ID:	5469eeaa-94e1-4572-bb6a-119cf64db320
Generator EPA ID:	CAL000389888
Shipment Date:	2020-06-23
Manifest Number:	014454626FLE
Line Number:	1
Method Code:	H141
Quantity Tons:	0.74250
Quantity Waste:	225.000000
Quantity Unit:	G
Number of Containers:	1
Type of Container:	Portable tanks



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SYNTHEGO CORP (Continued)**

**S118234074**

Quantity Type: Gallons  
Federal Code: D038  
  
Year: 2020  
EM Manifest ID: 5469eeaa-94e1-4572-bb6a-119cf64db320  
Generator EPA ID: CAL000389888  
Shipment Date: 2020-06-23  
Manifest Number: 014454626FLE  
Line Number: 1  
Method Code: H141  
Quantity Tons: 0.74250  
Quantity Waste: 225.000000  
Quantity Unit: G  
Number of Containers: 1  
Type of Container: Portable tanks  
Quantity Type: Gallons  
Federal Code: F005

State:  
Year: 2020  
EM Manifest ID: 5469eeaa-94e1-4572-bb6a-119cf64db320  
Generator EPA ID: CAL000389888  
Shipment Date: 2020-06-23  
Manifest Number: 014454626FLE  
Line Number: 1  
Method Code: H141  
Quantity Tons: 0.74250  
Quantity Waste: 225.000000  
Quantity Unit: G  
Number of Containers: 1  
Type of Container: Portable tanks  
Quantity Type: Gallons  
State Code: 212

Detail Two:  
Year: 2019  
EM Manifest ID: 649406  
Shipment Date: 9/4/2019  
Receipt Date: 9/17/2019  
Manifest Number: 020566393JJK  
Generator EPA ID: CAL000389888  
Name: SYNTHEGO CORP.  
Address: 3696 HAVEN AVENUE STE A  
Address 2: Not reported  
City: REDWOOD CITY  
Zip: 94063  
Telephone: 800-535-5053  
Contact: Not reported  
Contact Telephone: 888-611-6883  
Transporter 1 EPA ID: CAD010925576  
Transporter 1 Emergency Number: Not reported  
Transporter 2 EPA ID: AZD982403586  
Transporter 2 Emergency Number: Not reported  
TSDf EPA ID: IND000646943  
TSDf Name: TRADEBE TREATMENT & RECYCLING LLC

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SYNTHEGO CORP (Continued)**

**S118234074**

TSDf Address 1: 4343 KENNEDY AVE  
TSDf Address 2: Not reported  
TSDf City: EAST CHICAGO  
TSDf Zip: 46312  
TSDf Telephone: 219-397-3951

Federal:

Year: 2019  
EM Manifest ID: 649406  
Generator EPA ID: CAL000389888  
Shipment Date: 2019-09-04  
Manifest Number: 020566393JJK  
Line Number: 1  
Method Code: H020  
Quantity Tons: 0.50000  
Quantity Waste: 1000.000000  
Quantity Unit: P  
Number of Containers: 10  
Type of Container: Fiberboard or plastic drums, barrels, kegs  
Quantity Type: Pounds  
Federal Code: D001

Year: 2019  
EM Manifest ID: 649406  
Generator EPA ID: CAL000389888  
Shipment Date: 2019-09-04  
Manifest Number: 020566393JJK  
Line Number: 1  
Method Code: H020  
Quantity Tons: 0.50000  
Quantity Waste: 1000.000000  
Quantity Unit: P  
Number of Containers: 10  
Type of Container: Fiberboard or plastic drums, barrels, kegs  
Quantity Type: Pounds  
Federal Code: D038

Year: 2019  
EM Manifest ID: 649406  
Generator EPA ID: CAL000389888  
Shipment Date: 2019-09-04  
Manifest Number: 020566393JJK  
Line Number: 1  
Method Code: H020  
Quantity Tons: 0.50000  
Quantity Waste: 1000.000000  
Quantity Unit: P  
Number of Containers: 10  
Type of Container: Fiberboard or plastic drums, barrels, kegs  
Quantity Type: Pounds  
Federal Code: F002

Year: 2019  
EM Manifest ID: 649406  
Generator EPA ID: CAL000389888  
Shipment Date: 2019-09-04  
Manifest Number: 020566393JJK  
Line Number: 1

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SYNTHEGO CORP (Continued)**

**S118234074**

Method Code: H020  
Quantity Tons: 0.50000  
Quantity Waste: 1000.000000  
Quantity Unit: P  
Number of Containers: 10  
Type of Container: Fiberboard or plastic drums, barrels, kegs  
Quantity Type: Pounds  
Federal Code: F003

Year: 2019  
EM Manifest ID: 649406  
Generator EPA ID: CAL000389888  
Shipment Date: 2019-09-04  
Manifest Number: 020566393JJK  
Line Number: 1  
Method Code: H020  
Quantity Tons: 0.50000  
Quantity Waste: 1000.000000  
Quantity Unit: P  
Number of Containers: 10  
Type of Container: Fiberboard or plastic drums, barrels, kegs  
Quantity Type: Pounds  
Federal Code: F005

Year: 2019  
EM Manifest ID: 649405  
Shipment Date: 9/4/2019  
Receipt Date: 9/19/2019  
Manifest Number: 020566392JJK  
Generator EPA ID: CAL000389888  
Name: SYNTHEGO CORP.  
Address: 3696 HAVEN AVENUE  
Address 2: Not reported  
City: REDWOOD CITY  
Zip: 94063  
Telephone: 800-483-3718  
Contact: Omar Kurdi  
Contact Telephone: 888-611-6883  
Transporter 1 EPA ID: CAD010925576  
Transporter 1 Emergency Number: Not reported  
Transporter 2 EPA ID: MAD039322250  
Transporter 2 Emergency Number: Not reported  
TSDf EPA ID: CAD059494310  
TSDf Name: Clean Harbors San Jose LLC  
TSDf Address 1: 1021 Berryessa Road  
TSDf Address 2: Not reported  
TSDf City: San Jose  
TSDf Zip: 95133  
TSDf Telephone: 800-483-3718

Federal:  
Year: 2019  
EM Manifest ID: 649405  
Generator EPA ID: CAL000389888  
Shipment Date: 2019-09-04  
Manifest Number: 020566392JJK  
Line Number: 1

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SYNTHEGO CORP (Continued)**

**S118234074**

Method Code: H141  
Quantity Tons: 1.81500  
Quantity Waste: 550.000000  
Quantity Unit: G  
Number of Containers: 10  
Type of Container: Metal drums, barrels, kegs  
Quantity Type: Gallons  
Federal Code: D001

Year: 2019  
EM Manifest ID: 649405  
Generator EPA ID: CAL000389888  
Shipment Date: 2019-09-04  
Manifest Number: 020566392JJK  
Line Number: 1  
Method Code: H141  
Quantity Tons: 1.81500  
Quantity Waste: 550.000000  
Quantity Unit: G  
Number of Containers: 10  
Type of Container: Metal drums, barrels, kegs  
Quantity Type: Gallons  
Federal Code: D038

Year: 2019  
EM Manifest ID: 649405  
Generator EPA ID: CAL000389888  
Shipment Date: 2019-09-04  
Manifest Number: 020566392JJK  
Line Number: 1  
Method Code: H141  
Quantity Tons: 1.81500  
Quantity Waste: 550.000000  
Quantity Unit: G  
Number of Containers: 10  
Type of Container: Metal drums, barrels, kegs  
Quantity Type: Gallons  
Federal Code: F005

State:  
Year: 2019  
EM Manifest ID: 649405  
Generator EPA ID: CAL000389888  
Shipment Date: 2019-09-04  
Manifest Number: 020566392JJK  
Line Number: 1  
Method Code: H141  
Quantity Tons: 1.81500  
Quantity Waste: 550.000000  
Quantity Unit: G  
Number of Containers: 10  
Type of Container: Metal drums, barrels, kegs  
Quantity Type: Gallons  
State Code: 212

Year: 2019  
EM Manifest ID: 649405

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SYNTHEGO CORP (Continued)**

**S118234074**

Generator EPA ID: CAL000389888  
Shipment Date: 2019-09-04  
Manifest Number: 020566392JJK  
Line Number: 3  
Method Code: H141  
Quantity Tons: 0.75000  
Quantity Waste: 1500.000000  
Quantity Unit: P  
Number of Containers: 1  
Type of Container: Fiber or plastic boxes, cartons, cases  
Quantity Type: Pounds  
State Code: 513

Year: 2019  
EM Manifest ID: 24011  
Shipment Date: 9/25/2019  
Receipt Date: 10/11/2019  
Manifest Number: 020565842JJK  
Generator EPA ID: CAL000389888  
Name: SYNTHEGO CORP.  
Address: 3696 HAVEN AVENUE  
Address 2: Not reported  
City: REDWOOD CITY  
Zip: 94063  
Telephone: 800-483-3718  
Contact: Omar Kurdi  
Contact Telephone: 888-611-6883  
Transporter 1 EPA ID: CAD010925576  
Transporter 1 Emergency Number: Not reported  
Transporter 2 EPA ID: MAD039322250  
Transporter 2 Emergency Number: Not reported  
TSDF EPA ID: CAD059494310  
TSDF Name: Clean Harbors San Jose LLC  
TSDF Address 1: 1021 Berryessa Road  
TSDF Address 2: Not reported  
TSDF City: San Jose  
TSDF Zip: 95133  
TSDF Telephone: 800-483-3718

Federal:  
Year: 2019  
EM Manifest ID: 24011  
Generator EPA ID: CAL000389888  
Shipment Date: 2019-09-25  
Manifest Number: 020565842JJK  
Line Number: 2  
Method Code: H141  
Quantity Tons: 1.99650  
Quantity Waste: 605.000000  
Quantity Unit: G  
Number of Containers: 11  
Type of Container: Metal drums, barrels, kegs  
Quantity Type: Gallons  
Federal Code: D001

Year: 2019  
EM Manifest ID: 24011

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SYNTHEGO CORP (Continued)**

**S118234074**

Generator EPA ID:	CAL000389888
Shipment Date:	2019-09-25
Manifest Number:	020565842JJK
Line Number:	2
Method Code:	H141
Quantity Tons:	1.99650
Quantity Waste:	605.000000
Quantity Unit:	G
Number of Containers:	11
Type of Container:	Metal drums, barrels, kegs
Quantity Type:	Gallons
Federal Code:	D038
Year:	2019
EM Manifest ID:	24011
Generator EPA ID:	CAL000389888
Shipment Date:	2019-09-25
Manifest Number:	020565842JJK
Line Number:	2
Method Code:	H141
Quantity Tons:	1.99650
Quantity Waste:	605.000000
Quantity Unit:	G
Number of Containers:	11
Type of Container:	Metal drums, barrels, kegs
Quantity Type:	Gallons
Federal Code:	F005
State:	
Year:	2019
EM Manifest ID:	24011
Generator EPA ID:	CAL000389888
Shipment Date:	2019-09-25
Manifest Number:	020565842JJK
Line Number:	1
Method Code:	H141
Quantity Tons:	0.25000
Quantity Waste:	500.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	Fiber or plastic boxes, cartons, cases
Quantity Type:	Pounds
State Code:	513
Year:	2019
EM Manifest ID:	24011
Generator EPA ID:	CAL000389888
Shipment Date:	2019-09-25
Manifest Number:	020565842JJK
Line Number:	2
Method Code:	H141
Quantity Tons:	1.99650
Quantity Waste:	605.000000
Quantity Unit:	G
Number of Containers:	11
Type of Container:	Metal drums, barrels, kegs
Quantity Type:	Gallons

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SYNTHEGO CORP (Continued)**

**S118234074**

State Code: 212

Year: 2019  
EM Manifest ID: 667382  
Shipment Date: 9/25/2019  
Receipt Date: 10/8/2019  
Manifest Number: 020565843JJK  
Generator EPA ID: CAL000389888  
Name: SYNTHEGO CORP.  
Address: 3696 HAVEN AVENUE STE A  
Address 2: Not reported  
City: REDWOOD CITY  
Zip: 94063  
Telephone: 800-535-5053  
Contact: Not reported  
Contact Telephone: 888-611-6883  
Transporter 1 EPA ID: CAD010925576  
Transporter 1 Emergency Number: Not reported  
Transporter 2 EPA ID: AZD982403586  
Transporter 2 Emergency Number: Not reported  
TSDf EPA ID: IND000646943  
TSDf Name: TRADEBE TREATMENT & RECYCLING LLC  
TSDf Address 1: 4343 KENNEDY AVE  
TSDf Address 2: Not reported  
TSDf City: EAST CHICAGO  
TSDf Zip: 46312  
TSDf Telephone: 219-397-3951

Federal:

Year: 2019  
EM Manifest ID: 667382  
Generator EPA ID: CAL000389888  
Shipment Date: 2019-09-25  
Manifest Number: 020565843JJK  
Line Number: 1  
Method Code: H020  
Quantity Tons: 0.65000  
Quantity Waste: 1300.000000  
Quantity Unit: P  
Number of Containers: 13  
Type of Container: Fiberboard or plastic drums, barrels, kegs  
Quantity Type: Pounds  
Federal Code: D001

Year: 2019  
EM Manifest ID: 667382  
Generator EPA ID: CAL000389888  
Shipment Date: 2019-09-25  
Manifest Number: 020565843JJK  
Line Number: 1  
Method Code: H020  
Quantity Tons: 0.65000  
Quantity Waste: 1300.000000  
Quantity Unit: P  
Number of Containers: 13  
Type of Container: Fiberboard or plastic drums, barrels, kegs  
Quantity Type: Pounds

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SYNTHEGO CORP (Continued)**

**S118234074**

Federal Code: D038  
  
Year: 2019  
EM Manifest ID: 667382  
Generator EPA ID: CAL000389888  
Shipment Date: 2019-09-25  
Manifest Number: 020565843JJK  
Line Number: 1  
Method Code: H020  
Quantity Tons: 0.65000  
Quantity Waste: 1300.000000  
Quantity Unit: P  
Number of Containers: 13  
Type of Container: Fiberboard or plastic drums, barrels, kegs  
Quantity Type: Pounds  
Federal Code: F002

Year: 2019  
EM Manifest ID: 667382  
Generator EPA ID: CAL000389888  
Shipment Date: 2019-09-25  
Manifest Number: 020565843JJK  
Line Number: 1  
Method Code: H020  
Quantity Tons: 0.65000  
Quantity Waste: 1300.000000  
Quantity Unit: P  
Number of Containers: 13  
Type of Container: Fiberboard or plastic drums, barrels, kegs  
Quantity Type: Pounds  
Federal Code: F003

Year: 2019  
EM Manifest ID: 667382  
Generator EPA ID: CAL000389888  
Shipment Date: 2019-09-25  
Manifest Number: 020565843JJK  
Line Number: 1  
Method Code: H020  
Quantity Tons: 0.65000  
Quantity Waste: 1300.000000  
Quantity Unit: P  
Number of Containers: 13  
Type of Container: Fiberboard or plastic drums, barrels, kegs  
Quantity Type: Pounds  
Federal Code: F005

Year: 2019  
EM Manifest ID: 667364  
Shipment Date: 9/18/2019  
Receipt Date: 10/1/2019  
Manifest Number: 020565728JJK  
Generator EPA ID: CAL000389888  
Name: SYNTHEGO CORP.  
Address: 3696 HAVEN AVENUE STE A  
Address 2: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SYNTHEGO CORP (Continued)**

**S118234074**

City: REDWOOD CITY  
Zip: 94063  
Telephone: 800-535-5053  
Contact: Not reported  
Contact Telephone: 888-611-6883  
Transporter 1 EPA ID: CAD010925576  
Transporter 1 Emergency Number: Not reported  
Transporter 2 EPA ID: AZD982403586  
Transporter 2 Emergency Number: Not reported  
TSDF EPA ID: IND000646943  
TSDF Name: TRADEBE TREATMENT & RECYCLING LLC  
TSDF Address 1: 4343 KENNEDY AVE  
TSDF Address 2: Not reported  
TSDF City: EAST CHICAGO  
TSDF Zip: 46312  
TSDF Telephone: 219-397-3951

Federal:

Year: 2019  
EM Manifest ID: 667364  
Generator EPA ID: CAL000389888  
Shipment Date: 2019-09-18  
Manifest Number: 020565728JJK  
Line Number: 1  
Method Code: H020  
Quantity Tons: 2.25000  
Quantity Waste: 4500.000000  
Quantity Unit: P  
Number of Containers: 15  
Type of Container: Fiberboard or plastic drums, barrels, kegs  
Quantity Type: Pounds  
Federal Code: D001

Year: 2019  
EM Manifest ID: 667364  
Generator EPA ID: CAL000389888  
Shipment Date: 2019-09-18  
Manifest Number: 020565728JJK  
Line Number: 1  
Method Code: H020  
Quantity Tons: 2.25000  
Quantity Waste: 4500.000000  
Quantity Unit: P  
Number of Containers: 15  
Type of Container: Fiberboard or plastic drums, barrels, kegs  
Quantity Type: Pounds  
Federal Code: D038

Year: 2019  
EM Manifest ID: 667364  
Generator EPA ID: CAL000389888  
Shipment Date: 2019-09-18  
Manifest Number: 020565728JJK  
Line Number: 1  
Method Code: H020  
Quantity Tons: 2.25000  
Quantity Waste: 4500.000000  
Quantity Unit: P

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SYNTHEGO CORP (Continued)**

**S118234074**

Number of Containers: 15  
Type of Container: Fiberboard or plastic drums, barrels, kegs  
Quantity Type: Pounds  
Federal Code: F002

Year: 2019  
EM Manifest ID: 667364  
Generator EPA ID: CAL000389888  
Shipment Date: 2019-09-18  
Manifest Number: 020565728JJK  
Line Number: 1  
Method Code: H020  
Quantity Tons: 2.25000  
Quantity Waste: 4500.000000  
Quantity Unit: P  
Number of Containers: 15  
Type of Container: Fiberboard or plastic drums, barrels, kegs  
Quantity Type: Pounds  
Federal Code: F003

Year: 2019  
EM Manifest ID: 667364  
Generator EPA ID: CAL000389888  
Shipment Date: 2019-09-18  
Manifest Number: 020565728JJK  
Line Number: 1  
Method Code: H020  
Quantity Tons: 2.25000  
Quantity Waste: 4500.000000  
Quantity Unit: P  
Number of Containers: 15  
Type of Container: Fiberboard or plastic drums, barrels, kegs  
Quantity Type: Pounds  
Federal Code: F005

Year: 2019  
EM Manifest ID: 676168  
Shipment Date: 9/18/2019  
Receipt Date: 10/2/2019  
Manifest Number: 020565727JJK  
Generator EPA ID: CAL000389888  
Name: SYNTHEGO CORP.  
Address: 3696 HAVEN AVENUE  
Address 2: Not reported  
City: REDWOOD CITY  
Zip: 94063  
Telephone: 800-483-3718  
Contact: Omar Kurdi  
Contact Telephone: 888-611-6883  
Transporter 1 EPA ID: CAD010925576  
Transporter 1 Emergency Number: Not reported  
Transporter 2 EPA ID: MAD039322250  
Transporter 2 Emergency Number: Not reported  
TSDf EPA ID: CAD059494310  
TSDf Name: Clean Harbors San Jose LLC  
TSDf Address 1: 1021 Berryessa Road

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SYNTHEGO CORP (Continued)**

**S118234074**

TSDf Address 2:	Not reported
TSDf City:	San Jose
TSDf Zip:	95133
TSDf Telephone:	800-483-3718
Federal:	
Year:	2019
EM Manifest ID:	676168
Generator EPA ID:	CAL000389888
Shipment Date:	2019-09-18
Manifest Number:	020565727JJK
Line Number:	2
Method Code:	H141
Quantity Tons:	2.35950
Quantity Waste:	715.000000
Quantity Unit:	G
Number of Containers:	13
Type of Container:	Metal drums, barrels, kegs
Quantity Type:	Gallons
Federal Code:	D001
Year:	2019
EM Manifest ID:	676168
Generator EPA ID:	CAL000389888
Shipment Date:	2019-09-18
Manifest Number:	020565727JJK
Line Number:	2
Method Code:	H141
Quantity Tons:	2.35950
Quantity Waste:	715.000000
Quantity Unit:	G
Number of Containers:	13
Type of Container:	Metal drums, barrels, kegs
Quantity Type:	Gallons
Federal Code:	D038
Year:	2019
EM Manifest ID:	676168
Generator EPA ID:	CAL000389888
Shipment Date:	2019-09-18
Manifest Number:	020565727JJK
Line Number:	2
Method Code:	H141
Quantity Tons:	2.35950
Quantity Waste:	715.000000
Quantity Unit:	G
Number of Containers:	13
Type of Container:	Metal drums, barrels, kegs
Quantity Type:	Gallons
Federal Code:	F005
State:	
Year:	2019
EM Manifest ID:	676168
Generator EPA ID:	CAL000389888
Shipment Date:	2019-09-18
Manifest Number:	020565727JJK

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SYNTHEGO CORP (Continued)**

**S118234074**

Line Number: 1  
Method Code: H141  
Quantity Tons: 0.35000  
Quantity Waste: 700.000000  
Quantity Unit: P  
Number of Containers: 1  
Type of Container: Fiber or plastic boxes, cartons, cases  
Quantity Type: Pounds  
State Code: 513

Year: 2019  
EM Manifest ID: 676168  
Generator EPA ID: CAL000389888  
Shipment Date: 2019-09-18  
Manifest Number: 020565727JJK  
Line Number: 2  
Method Code: H141  
Quantity Tons: 2.35950  
Quantity Waste: 715.000000  
Quantity Unit: G  
Number of Containers: 13  
Type of Container: Metal drums, barrels, kegs  
Quantity Type: Gallons  
State Code: 212

Year: 2019  
EM Manifest ID: 667348  
Shipment Date: 9/11/2019  
Receipt Date: 9/26/2019  
Manifest Number: 020565540JJK  
Generator EPA ID: CAL000389888  
Name: SYNTHEGO CORP.  
Address: 3696 HAVEN AVENUE  
Address 2: Not reported  
City: REDWOOD CITY  
Zip: 94063  
Telephone: 800-483-3718  
Contact: Omar Kurdi  
Contact Telephone: 888-611-6883  
Transporter 1 EPA ID: CAD010925576  
Transporter 1 Emergency Number: Not reported  
Transporter 2 EPA ID: MAD039322250  
Transporter 2 Emergency Number: Not reported  
TSDF EPA ID: CAD059494310  
TSDF Name: Clean Harbors San Jose LLC  
TSDF Address 1: 1021 Berryessa Road  
TSDF Address 2: Not reported  
TSDF City: San Jose  
TSDF Zip: 95133  
TSDF Telephone: 800-483-3718

Federal:  
Year: 2019  
EM Manifest ID: 667348  
Generator EPA ID: CAL000389888  
Shipment Date: 2019-09-11  
Manifest Number: 020565540JJK

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SYNTHEGO CORP (Continued)**

**S118234074**

Line Number: 2  
Method Code: H141  
Quantity Tons: 2.90400  
Quantity Waste: 880.000000  
Quantity Unit: G  
Number of Containers: 16  
Type of Container: Metal drums, barrels, kegs  
Quantity Type: Gallons  
Federal Code: D001

Year: 2019  
EM Manifest ID: 667348  
Generator EPA ID: CAL000389888  
Shipment Date: 2019-09-11  
Manifest Number: 020565540JJK  
Line Number: 2  
Method Code: H141  
Quantity Tons: 2.90400  
Quantity Waste: 880.000000  
Quantity Unit: G  
Number of Containers: 16  
Type of Container: Metal drums, barrels, kegs  
Quantity Type: Gallons  
Federal Code: D038

Year: 2019  
EM Manifest ID: 667348  
Generator EPA ID: CAL000389888  
Shipment Date: 2019-09-11  
Manifest Number: 020565540JJK  
Line Number: 2  
Method Code: H141  
Quantity Tons: 2.90400  
Quantity Waste: 880.000000  
Quantity Unit: G  
Number of Containers: 16  
Type of Container: Metal drums, barrels, kegs  
Quantity Type: Gallons  
Federal Code: F005

State:  
Year: 2019  
EM Manifest ID: 667348  
Generator EPA ID: CAL000389888  
Shipment Date: 2019-09-11  
Manifest Number: 020565540JJK  
Line Number: 1  
Method Code: H141  
Quantity Tons: 0.75000  
Quantity Waste: 1500.000000  
Quantity Unit: P  
Number of Containers: 1  
Type of Container: Fiber or plastic boxes, cartons, cases  
Quantity Type: Pounds  
State Code: 513

Year: 2019

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SYNTHEGO CORP (Continued)**

**S118234074**

EM Manifest ID: 667348  
Generator EPA ID: CAL000389888  
Shipment Date: 2019-09-11  
Manifest Number: 020565540JJK  
Line Number: 2  
Method Code: H141  
Quantity Tons: 2.90400  
Quantity Waste: 880.000000  
Quantity Unit: G  
Number of Containers: 16  
Type of Container: Metal drums, barrels, kegs  
Quantity Type: Gallons  
State Code: 212

Year: 2019  
EM Manifest ID: 649366  
Shipment Date: 9/11/2019  
Receipt Date: 9/24/2019  
Manifest Number: 020565544JJK  
Generator EPA ID: CAL000389888  
Name: SYNTHEGO CORP.  
Address: 3696 HAVEN AVENUE STE A  
Address 2: Not reported  
City: REDWOOD CITY  
Zip: 94063  
Telephone: 800-535-5053  
Contact: Not reported  
Contact Telephone: 888-611-6883  
Transporter 1 EPA ID: CAD010925576  
Transporter 1 Emergency Number: Not reported  
Transporter 2 EPA ID: AZD982403586  
Transporter 2 Emergency Number: Not reported  
TSDf EPA ID: IND000646943  
TSDf Name: TRADEBE TREATMENT & RECYCLING LLC  
TSDf Address 1: 4343 KENNEDY AVE  
TSDf Address 2: Not reported  
TSDf City: EAST CHICAGO  
TSDf Zip: 46312  
TSDf Telephone: 219-397-3951

Federal:  
Year: 2019  
EM Manifest ID: 649366  
Generator EPA ID: CAL000389888  
Shipment Date: 2019-09-11  
Manifest Number: 020565544JJK  
Line Number: 1  
Method Code: H020  
Quantity Tons: 0.70000  
Quantity Waste: 1400.000000  
Quantity Unit: P  
Number of Containers: 14  
Type of Container: Fiberboard or plastic drums, barrels, kegs  
Quantity Type: Pounds  
Federal Code: D001

Year: 2019

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SYNTHEGO CORP (Continued)**

**S118234074**

EM Manifest ID: 649366  
Generator EPA ID: CAL000389888  
Shipment Date: 2019-09-11  
Manifest Number: 020565544JJK  
Line Number: 1  
Method Code: H020  
Quantity Tons: 0.70000  
Quantity Waste: 1400.000000  
Quantity Unit: P  
Number of Containers: 14  
Type of Container: Fiberboard or plastic drums, barrels, kegs  
Quantity Type: Pounds  
Federal Code: D038

Year: 2019  
EM Manifest ID: 649366  
Generator EPA ID: CAL000389888  
Shipment Date: 2019-09-11  
Manifest Number: 020565544JJK  
Line Number: 1  
Method Code: H020  
Quantity Tons: 0.70000  
Quantity Waste: 1400.000000  
Quantity Unit: P  
Number of Containers: 14  
Type of Container: Fiberboard or plastic drums, barrels, kegs  
Quantity Type: Pounds  
Federal Code: F002

Year: 2019  
EM Manifest ID: 649366  
Generator EPA ID: CAL000389888  
Shipment Date: 2019-09-11  
Manifest Number: 020565544JJK  
Line Number: 1  
Method Code: H020  
Quantity Tons: 0.70000  
Quantity Waste: 1400.000000  
Quantity Unit: P  
Number of Containers: 14  
Type of Container: Fiberboard or plastic drums, barrels, kegs  
Quantity Type: Pounds  
Federal Code: F003

Year: 2019  
EM Manifest ID: 649366  
Generator EPA ID: CAL000389888  
Shipment Date: 2019-09-11  
Manifest Number: 020565544JJK  
Line Number: 1  
Method Code: H020  
Quantity Tons: 0.70000  
Quantity Waste: 1400.000000  
Quantity Unit: P  
Number of Containers: 14  
Type of Container: Fiberboard or plastic drums, barrels, kegs  
Quantity Type: Pounds

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SYNTHEGO CORP (Continued)**

**S118234074**

Federal Code: F005

Year: 2019  
EM Manifest ID: 634f0503-c55d-4a7d-afbf-de293906691d  
Shipment Date: 8/7/2019  
Receipt Date: 8/22/2019  
Manifest Number: 020567762JJK  
Generator EPA ID: CAL000389888  
Name: SYNTHEGO CORP.  
Address: 3696 HAVEN AVENUE  
Address 2: Not reported  
City: REDWOOD CITY  
Zip: 94063  
Telephone: 800-483-3718  
Contact: Omar Kurdi  
Contact Telephone: 888-611-6883  
Transporter 1 EPA ID: CAD010925576  
Transporter 1 Emergency Number: Not reported  
Transporter 2 EPA ID: MAD039322250  
Transporter 2 Emergency Number: Not reported  
TSDf EPA ID: CAD059494310  
TSDf Name: Clean Harbors San Jose LLC  
TSDf Address 1: 1021 Berryessa Road  
TSDf Address 2: Not reported  
TSDf City: San Jose  
TSDf Zip: 95133  
TSDf Telephone: 800-483-3718

Federal:

Year: 2019  
EM Manifest ID: 634f0503-c55d-4a7d-afbf-de293906691d  
Generator EPA ID: CAL000389888  
Shipment Date: 2019-08-07  
Manifest Number: 020567762JJK  
Line Number: 2  
Method Code: H141  
Quantity Tons: 1.99650  
Quantity Waste: 605.000000  
Quantity Unit: G  
Number of Containers: 11  
Type of Container: Metal drums, barrels, kegs  
Quantity Type: Gallons  
Federal Code: D001

Year: 2019  
EM Manifest ID: 634f0503-c55d-4a7d-afbf-de293906691d  
Generator EPA ID: CAL000389888  
Shipment Date: 2019-08-07  
Manifest Number: 020567762JJK  
Line Number: 2  
Method Code: H141  
Quantity Tons: 1.99650  
Quantity Waste: 605.000000  
Quantity Unit: G  
Number of Containers: 11  
Type of Container: Metal drums, barrels, kegs  
Quantity Type: Gallons



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SYNTHEGO CORP (Continued)**

**S118234074**

Federal Code: D038  
  
Year: 2019  
EM Manifest ID: 634f0503-c55d-4a7d-afbf-de293906691d  
Generator EPA ID: CAL000389888  
Shipment Date: 2019-08-07  
Manifest Number: 020567762JJK  
Line Number: 2  
Method Code: H141  
Quantity Tons: 1.99650  
Quantity Waste: 605.000000  
Quantity Unit: G  
Number of Containers: 11  
Type of Container: Metal drums, barrels, kegs  
Quantity Type: Gallons  
Federal Code: F005

State:  
Year: 2019  
EM Manifest ID: 634f0503-c55d-4a7d-afbf-de293906691d  
Generator EPA ID: CAL000389888  
Shipment Date: 2019-08-07  
Manifest Number: 020567762JJK  
Line Number: 1  
Method Code: H141  
Quantity Tons: 0.75000  
Quantity Waste: 1500.000000  
Quantity Unit: P  
Number of Containers: 1  
Type of Container: Fiber or plastic boxes, cartons, cases  
Quantity Type: Pounds  
State Code: 513

Year: 2019  
EM Manifest ID: 634f0503-c55d-4a7d-afbf-de293906691d  
Generator EPA ID: CAL000389888  
Shipment Date: 2019-08-07  
Manifest Number: 020567762JJK  
Line Number: 2  
Method Code: H141  
Quantity Tons: 1.99650  
Quantity Waste: 605.000000  
Quantity Unit: G  
Number of Containers: 11  
Type of Container: Metal drums, barrels, kegs  
Quantity Type: Gallons  
State Code: 212

Year: 2019  
EM Manifest ID: 541279  
Shipment Date: 8/7/2019  
Receipt Date: 8/20/2019  
Manifest Number: 020567767JJK  
Generator EPA ID: CAL000389888  
Name: SYNTHEGO CORP.  
Address: 3696 HAVEN AVENUE STE A

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SYNTHEGO CORP (Continued)**

**S118234074**

Address 2: Not reported  
City: REDWOOD CITY  
Zip: 94063  
Telephone: 800-535-5053  
Contact: Not reported  
Contact Telephone: 888-611-6883  
Transporter 1 EPA ID: CAD010925576  
Transporter 1 Emergency Number: Not reported  
Transporter 2 EPA ID: AZD982403586  
Transporter 2 Emergency Number: Not reported  
TSDF EPA ID: IND000646943  
TSDF Name: TRADEBE TREATMENT & RECYCLING LLC  
TSDF Address 1: 4343 KENNEDY AVE  
TSDF Address 2: Not reported  
TSDF City: EAST CHICAGO  
TSDF Zip: 46312  
TSDF Telephone: 219-397-3951

Federal:

Year: 2019  
EM Manifest ID: 541279  
Generator EPA ID: CAL000389888  
Shipment Date: 2019-08-07  
Manifest Number: 020567767JJK  
Line Number: 1  
Method Code: H020  
Quantity Tons: 0.55000  
Quantity Waste: 1100.000000  
Quantity Unit: P  
Number of Containers: 11  
Type of Container: Fiberboard or plastic drums, barrels, kegs  
Quantity Type: Pounds  
Federal Code: D001

Year: 2019  
EM Manifest ID: 541279  
Generator EPA ID: CAL000389888  
Shipment Date: 2019-08-07  
Manifest Number: 020567767JJK  
Line Number: 1  
Method Code: H020  
Quantity Tons: 0.55000  
Quantity Waste: 1100.000000  
Quantity Unit: P  
Number of Containers: 11  
Type of Container: Fiberboard or plastic drums, barrels, kegs  
Quantity Type: Pounds  
Federal Code: D038

Year: 2019  
EM Manifest ID: 541279  
Generator EPA ID: CAL000389888  
Shipment Date: 2019-08-07  
Manifest Number: 020567767JJK  
Line Number: 1  
Method Code: H020  
Quantity Tons: 0.55000  
Quantity Waste: 1100.000000

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SYNTHEGO CORP (Continued)**

**S118234074**

Quantity Unit: P  
Number of Containers: 11  
Type of Container: Fiberboard or plastic drums, barrels, kegs  
Quantity Type: Pounds  
Federal Code: F002

Year: 2019  
EM Manifest ID: 541279  
Generator EPA ID: CAL000389888  
Shipment Date: 2019-08-07  
Manifest Number: 020567767JJK  
Line Number: 1  
Method Code: H020  
Quantity Tons: 0.55000  
Quantity Waste: 1100.000000  
Quantity Unit: P  
Number of Containers: 11  
Type of Container: Fiberboard or plastic drums, barrels, kegs  
Quantity Type: Pounds  
Federal Code: F003

Year: 2019  
EM Manifest ID: 541279  
Generator EPA ID: CAL000389888  
Shipment Date: 2019-08-07  
Manifest Number: 020567767JJK  
Line Number: 1  
Method Code: H020  
Quantity Tons: 0.55000  
Quantity Waste: 1100.000000  
Quantity Unit: P  
Number of Containers: 11  
Type of Container: Fiberboard or plastic drums, barrels, kegs  
Quantity Type: Pounds  
Federal Code: F005

**Detail Two:**

Year: 2018  
EM Manifest ID: 010430799FLE20170908\_D\_1  
Shipment Date: 9/8/2017  
Receipt Date: 9/18/2017  
Manifest Number: 010430799FLE  
Generator EPA ID: CAL000389888  
Name: SYNTHEGO CORP  
Address: Not reported  
Address 2: Not reported  
City: Not reported  
Zip: Not reported  
Telephone: Not reported  
Contact: Not reported  
Contact Telephone: Not reported  
Transporter 1 EPA ID: CAD010925576  
Transporter 1 Emergency Number: Not reported  
Transporter 2 EPA ID: AZD982403586  
Transporter 2 Emergency Number: Not reported  
TSDf EPA ID: CAD008302903

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SYNTHEGO CORP (Continued)**

**S118234074**

TSD Name: VEOLIA ES TECH SOLUTIONS-AZUSA  
TSD Address 1: Not reported  
TSD Address 2: Not reported  
TSD City: Not reported  
TSD Zip: Not reported  
TSD Telephone: Not reported

Federal:

Year: 2018  
EM Manifest ID: 010430799FLE20170908\_D\_1  
Generator EPA ID: CAL000389888  
Shipment Date: 2017-09-08  
Manifest Number: 010430799FLE  
Line Number: 1  
Method Code: H020  
Quantity Tons: 0.18150  
Quantity Waste: 55.000000  
Quantity Unit: G  
Number of Containers: 1  
Type of Container: NULL  
Quantity Type: NULL  
Federal Code: D001

Year: 2018  
EM Manifest ID: 010430799FLE20170908\_D\_1  
Generator EPA ID: CAL000389888  
Shipment Date: 2017-09-08  
Manifest Number: 010430799FLE  
Line Number: 1  
Method Code: H020  
Quantity Tons: 0.18150  
Quantity Waste: 55.000000  
Quantity Unit: G  
Number of Containers: 1  
Type of Container: NULL  
Quantity Type: NULL  
Federal Code: F005

Year: 2018  
EM Manifest ID: 010430799FLE20170908\_D\_1  
Generator EPA ID: CAL000389888  
Shipment Date: 2017-09-08  
Manifest Number: 010430799FLE  
Line Number: 2  
Method Code: H061  
Quantity Tons: 0.18150  
Quantity Waste: 55.000000  
Quantity Unit: G  
Number of Containers: 1  
Type of Container: NULL  
Quantity Type: NULL  
Federal Code: D001

Year: 2018  
EM Manifest ID: 010430799FLE20170908\_D\_1  
Generator EPA ID: CAL000389888  
Shipment Date: 2017-09-08  
Manifest Number: 010430799FLE

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SYNTHEGO CORP (Continued)**

**S118234074**

Line Number: 2  
Method Code: H061  
Quantity Tons: 0.18150  
Quantity Waste: 55.000000  
Quantity Unit: G  
Number of Containers: 1  
Type of Container: NULL  
Quantity Type: NULL  
Federal Code: F005

State:

Year: 2018  
EM Manifest ID: 010430799FLE20170908\_D\_1  
Generator EPA ID: CAL000389888  
Shipment Date: 2017-09-08  
Manifest Number: 010430799FLE  
Line Number: 1  
Method Code: H020  
Quantity Tons: 0.18150  
Quantity Waste: 55.000000  
Quantity Unit: G  
Number of Containers: 1  
Type of Container: NULL  
Quantity Type: NULL  
State Code: 212

Year: 2018  
EM Manifest ID: 010430799FLE20170908\_D\_1  
Generator EPA ID: CAL000389888  
Shipment Date: 2017-09-08  
Manifest Number: 010430799FLE  
Line Number: 2  
Method Code: H061  
Quantity Tons: 0.18150  
Quantity Waste: 55.000000  
Quantity Unit: G  
Number of Containers: 1  
Type of Container: NULL  
Quantity Type: NULL  
State Code: 212

Year: 2018  
EM Manifest ID: 166630  
Shipment Date: 9/7/2018  
Receipt Date: 9/18/2018  
Manifest Number: 018753128JJK  
Generator EPA ID: CAL000389888  
Name: SYNTHEGO CORP.  
Address: 3696 HAVEN AVENUE STE A  
Address 2: Not reported  
City: REDWOOD CITY  
Zip: 94063  
Telephone: 800-535-5053  
Contact: Not reported  
Contact Telephone: 888-611-6883  
Transporter 1 EPA ID: CAD010925576

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SYNTHEGO CORP (Continued)**

**S118234074**

Transporter 1 Emergency Number:	Not reported
Transporter 2 EPA ID:	AZD982403586
Transporter 2 Emergency Number:	Not reported
TSDf EPA ID:	IND000646943
TSDf Name:	TRADEBE TREATMENT & RECYCLING LLC
TSDf Address 1:	4343 KENNEDY AVE
TSDf Address 2:	Not reported
TSDf City:	EAST CHICAGO
TSDf Zip:	46312
TSDf Telephone:	219-397-3951
Federal:	
Year:	2018
EM Manifest ID:	166630
Generator EPA ID:	CAL000389888
Shipment Date:	2018-09-07
Manifest Number:	018753128JJK
Line Number:	1
Method Code:	H020
Quantity Tons:	0.50000
Quantity Waste:	1000.000000
Quantity Unit:	P
Number of Containers:	10
Type of Container:	Fiberboard or plastic drums, barrels, kegs
Quantity Type:	Pounds
Federal Code:	D001
Year:	2018
EM Manifest ID:	166630
Generator EPA ID:	CAL000389888
Shipment Date:	2018-09-07
Manifest Number:	018753128JJK
Line Number:	1
Method Code:	H020
Quantity Tons:	0.50000
Quantity Waste:	1000.000000
Quantity Unit:	P
Number of Containers:	10
Type of Container:	Fiberboard or plastic drums, barrels, kegs
Quantity Type:	Pounds
Federal Code:	D038
Year:	2018
EM Manifest ID:	166630
Generator EPA ID:	CAL000389888
Shipment Date:	2018-09-07
Manifest Number:	018753128JJK
Line Number:	1
Method Code:	H020
Quantity Tons:	0.50000
Quantity Waste:	1000.000000
Quantity Unit:	P
Number of Containers:	10
Type of Container:	Fiberboard or plastic drums, barrels, kegs
Quantity Type:	Pounds
Federal Code:	F002
Year:	2018

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SYNTHEGO CORP (Continued)**

**S118234074**

EM Manifest ID: 166630  
Generator EPA ID: CAL000389888  
Shipment Date: 2018-09-07  
Manifest Number: 018753128JJK  
Line Number: 1  
Method Code: H020  
Quantity Tons: 0.50000  
Quantity Waste: 1000.000000  
Quantity Unit: P  
Number of Containers: 10  
Type of Container: Fiberboard or plastic drums, barrels, kegs  
Quantity Type: Pounds  
Federal Code: F003

Year: 2018  
EM Manifest ID: 166630  
Generator EPA ID: CAL000389888  
Shipment Date: 2018-09-07  
Manifest Number: 018753128JJK  
Line Number: 1  
Method Code: H020  
Quantity Tons: 0.50000  
Quantity Waste: 1000.000000  
Quantity Unit: P  
Number of Containers: 10  
Type of Container: Fiberboard or plastic drums, barrels, kegs  
Quantity Type: Pounds  
Federal Code: F005

Year: 2018  
EM Manifest ID: 181233  
Shipment Date: 9/7/2018  
Receipt Date: 9/26/2018  
Manifest Number: 018752502JJK  
Generator EPA ID: CAL000389888  
Name: SYNTHEGO CORP.  
Address: 3696 HAVEN AVENUE  
Address 2: Not reported  
City: REDWOOD CITY  
Zip: 94063  
Telephone: 800-483-3718  
Contact: Omar Kurdi  
Contact Telephone: 888-611-6883  
Transporter 1 EPA ID: CAD010925576  
Transporter 1 Emergency Number: Not reported  
Transporter 2 EPA ID: MAD039322250  
Transporter 2 Emergency Number: Not reported  
TSDf EPA ID: UTD981552177  
TSDf Name: Clean Harbors Aragonite LLC  
TSDf Address 1: PO Box 1339  
TSDf Address 2: Not reported  
TSDf City: Grantsville  
TSDf Zip: 84029  
TSDf Telephone: 800-483-3718

Federal:  
Year: 2018

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SYNTHEGO CORP (Continued)**

**S118234074**

EM Manifest ID: 181233  
Generator EPA ID: CAL000389888  
Shipment Date: 2018-09-07  
Manifest Number: 018752502JJK  
Line Number: 1  
Method Code: H040  
Quantity Tons: 0.06250  
Quantity Waste: 125.000000  
Quantity Unit: P  
Number of Containers: 1  
Type of Container: Metal drums, barrels, kegs  
Quantity Type: Pounds  
Federal Code: D001

Year: 2018  
EM Manifest ID: 181233  
Generator EPA ID: CAL000389888  
Shipment Date: 2018-09-07  
Manifest Number: 018752502JJK  
Line Number: 1  
Method Code: H040  
Quantity Tons: 0.06250  
Quantity Waste: 125.000000  
Quantity Unit: P  
Number of Containers: 1  
Type of Container: Metal drums, barrels, kegs  
Quantity Type: Pounds  
Federal Code: U003

Year: 2018  
EM Manifest ID: 181233  
Generator EPA ID: CAL000389888  
Shipment Date: 2018-09-07  
Manifest Number: 018752502JJK  
Line Number: 1  
Method Code: H040  
Quantity Tons: 0.06250  
Quantity Waste: 125.000000  
Quantity Unit: P  
Number of Containers: 1  
Type of Container: Metal drums, barrels, kegs  
Quantity Type: Pounds  
Federal Code: U154

Year: 2018  
EM Manifest ID: 181233  
Generator EPA ID: CAL000389888  
Shipment Date: 2018-09-07  
Manifest Number: 018752502JJK  
Line Number: 1  
Method Code: H040  
Quantity Tons: 0.06250  
Quantity Waste: 125.000000  
Quantity Unit: P  
Number of Containers: 1  
Type of Container: Metal drums, barrels, kegs  
Quantity Type: Pounds



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SYNTHEGO CORP (Continued)**

**S118234074**

Federal Code:	U196
Year:	2018
EM Manifest ID:	181233
Generator EPA ID:	CAL000389888
Shipment Date:	2018-09-07
Manifest Number:	018752502JJK
Line Number:	1
Method Code:	H040
Quantity Tons:	0.06250
Quantity Waste:	125.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	Metal drums, barrels, kegs
Quantity Type:	Pounds
Federal Code:	U220
Year:	2018
EM Manifest ID:	181233
Generator EPA ID:	CAL000389888
Shipment Date:	2018-09-07
Manifest Number:	018752502JJK
Line Number:	3
Method Code:	H040
Quantity Tons:	0.07500
Quantity Waste:	150.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	Fiberboard or plastic drums, barrels, kegs
Quantity Type:	Pounds
Federal Code:	D002
Year:	2018
EM Manifest ID:	181233
Generator EPA ID:	CAL000389888
Shipment Date:	2018-09-07
Manifest Number:	018752502JJK
Line Number:	4
Method Code:	H040
Quantity Tons:	0.06250
Quantity Waste:	125.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	Metal drums, barrels, kegs
Quantity Type:	Pounds
Federal Code:	D001
Year:	2018
EM Manifest ID:	181233
Generator EPA ID:	CAL000389888
Shipment Date:	2018-09-07
Manifest Number:	018752502JJK
Line Number:	4
Method Code:	H040
Quantity Tons:	0.06250
Quantity Waste:	125.000000
Quantity Unit:	P

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SYNTHEGO CORP (Continued)**

**S118234074**

Number of Containers:	1
Type of Container:	Metal drums, barrels, kegs
Quantity Type:	Pounds
Federal Code:	D002
Year:	2018
EM Manifest ID:	181233
Generator EPA ID:	CAL000389888
Shipment Date:	2018-09-07
Manifest Number:	018752502JJK
Line Number:	5
Method Code:	H040
Quantity Tons:	0.03750
Quantity Waste:	75.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	Fiberboard or plastic drums, barrels, kegs
Quantity Type:	Pounds
Federal Code:	D001
Year:	2018
EM Manifest ID:	181233
Generator EPA ID:	CAL000389888
Shipment Date:	2018-09-07
Manifest Number:	018752502JJK
Line Number:	5
Method Code:	H040
Quantity Tons:	0.03750
Quantity Waste:	75.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	Fiberboard or plastic drums, barrels, kegs
Quantity Type:	Pounds
Federal Code:	D002
Year:	2018
EM Manifest ID:	181233
Generator EPA ID:	CAL000389888
Shipment Date:	2018-09-07
Manifest Number:	018752502JJK
Line Number:	7
Method Code:	H040
Quantity Tons:	0.00500
Quantity Waste:	10.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	Fiberboard or plastic drums, barrels, kegs
Quantity Type:	Pounds
Federal Code:	D001
Year:	2018
EM Manifest ID:	181233
Generator EPA ID:	CAL000389888
Shipment Date:	2018-09-07
Manifest Number:	018752502JJK
Line Number:	7
Method Code:	H040

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SYNTHEGO CORP (Continued)**

**S118234074**

Quantity Tons: 0.00500  
Quantity Waste: 10.000000  
Quantity Unit: P  
Number of Containers: 1  
Type of Container: Fiberboard or plastic drums, barrels, kegs  
Quantity Type: Pounds  
Federal Code: D002

Year: 2018  
EM Manifest ID: 181233  
Generator EPA ID: CAL000389888  
Shipment Date: 2018-09-07  
Manifest Number: 018752502JJK  
Line Number: 8  
Method Code: H040  
Quantity Tons: 0.00350  
Quantity Waste: 7.000000  
Quantity Unit: P  
Number of Containers: 1  
Type of Container: Fiberboard or plastic drums, barrels, kegs  
Quantity Type: Pounds  
Federal Code: D002

Year: 2018  
EM Manifest ID: 181233  
Generator EPA ID: CAL000389888  
Shipment Date: 2018-09-07  
Manifest Number: 018752502JJK  
Line Number: 9  
Method Code: H040  
Quantity Tons: 0.00750  
Quantity Waste: 15.000000  
Quantity Unit: P  
Number of Containers: 1  
Type of Container: Fiberboard or plastic drums, barrels, kegs  
Quantity Type: Pounds  
Federal Code: D002

Year: 2018  
EM Manifest ID: 181233  
Generator EPA ID: CAL000389888  
Shipment Date: 2018-09-07  
Manifest Number: 018752502JJK  
Line Number: 16  
Method Code: H040  
Quantity Tons: 0.00250  
Quantity Waste: 5.000000  
Quantity Unit: P  
Number of Containers: 1  
Type of Container: Fiberboard or plastic drums, barrels, kegs  
Quantity Type: Pounds  
Federal Code: D001

Year: 2018  
EM Manifest ID: 181233  
Generator EPA ID: CAL000389888  
Shipment Date: 2018-09-07

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SYNTHEGO CORP (Continued)**

**S118234074**

Manifest Number: 018752502JJK  
Line Number: 16  
Method Code: H040  
Quantity Tons: 0.00250  
Quantity Waste: 5.000000  
Quantity Unit: P  
Number of Containers: 1  
Type of Container: Fiberboard or plastic drums, barrels, kegs  
Quantity Type: Pounds  
Federal Code: D003

State:

Year: 2018  
EM Manifest ID: 181233  
Generator EPA ID: CAL000389888  
Shipment Date: 2018-09-07  
Manifest Number: 018752502JJK  
Line Number: 1  
Method Code: H040  
Quantity Tons: 0.06250  
Quantity Waste: 125.000000  
Quantity Unit: P  
Number of Containers: 1  
Type of Container: Metal drums, barrels, kegs  
Quantity Type: Pounds  
State Code: 551

Year: 2018  
EM Manifest ID: 181233  
Generator EPA ID: CAL000389888  
Shipment Date: 2018-09-07  
Manifest Number: 018752502JJK  
Line Number: 2  
Method Code: H040  
Quantity Tons: 0.05000  
Quantity Waste: 100.000000  
Quantity Unit: P  
Number of Containers: 1  
Type of Container: Fiberboard or plastic drums, barrels, kegs  
Quantity Type: Pounds  
State Code: 551

Year: 2018  
EM Manifest ID: 181233  
Generator EPA ID: CAL000389888  
Shipment Date: 2018-09-07  
Manifest Number: 018752502JJK  
Line Number: 4  
Method Code: H040  
Quantity Tons: 0.06250  
Quantity Waste: 125.000000  
Quantity Unit: P  
Number of Containers: 1  
Type of Container: Metal drums, barrels, kegs  
Quantity Type: Pounds  
State Code: 551

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SYNTHEGO CORP (Continued)**

**S118234074**

Year: 2018  
EM Manifest ID: 181233  
Generator EPA ID: CAL000389888  
Shipment Date: 2018-09-07  
Manifest Number: 018752502JJK  
Line Number: 5  
Method Code: H040  
Quantity Tons: 0.03750  
Quantity Waste: 75.000000  
Quantity Unit: P  
Number of Containers: 1  
Type of Container: Fiberboard or plastic drums, barrels, kegs  
Quantity Type: Pounds  
State Code: 551

Year: 2018  
EM Manifest ID: 181233  
Generator EPA ID: CAL000389888  
Shipment Date: 2018-09-07  
Manifest Number: 018752502JJK  
Line Number: 6  
Method Code: H040  
Quantity Tons: 0.00500  
Quantity Waste: 10.000000  
Quantity Unit: P  
Number of Containers: 1  
Type of Container: Fiberboard or plastic drums, barrels, kegs  
Quantity Type: Pounds  
State Code: 551

Year: 2018  
EM Manifest ID: 181233  
Generator EPA ID: CAL000389888  
Shipment Date: 2018-09-07  
Manifest Number: 018752502JJK  
Line Number: 7  
Method Code: H040  
Quantity Tons: 0.00500  
Quantity Waste: 10.000000  
Quantity Unit: P  
Number of Containers: 1  
Type of Container: Fiberboard or plastic drums, barrels, kegs  
Quantity Type: Pounds  
State Code: 551

Year: 2018  
EM Manifest ID: 181233  
Generator EPA ID: CAL000389888  
Shipment Date: 2018-09-07  
Manifest Number: 018752502JJK  
Line Number: 8  
Method Code: H040  
Quantity Tons: 0.00350  
Quantity Waste: 7.000000  
Quantity Unit: P  
Number of Containers: 1  
Type of Container: Fiberboard or plastic drums, barrels, kegs

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SYNTHEGO CORP (Continued)**

**S118234074**

Quantity Type:	Pounds
State Code:	551
Year:	2018
EM Manifest ID:	181233
Generator EPA ID:	CAL000389888
Shipment Date:	2018-09-07
Manifest Number:	018752502JJK
Line Number:	9
Method Code:	H040
Quantity Tons:	0.00750
Quantity Waste:	15.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	Fiberboard or plastic drums, barrels, kegs
Quantity Type:	Pounds
State Code:	551
Year:	2018
EM Manifest ID:	181233
Generator EPA ID:	CAL000389888
Shipment Date:	2018-09-07
Manifest Number:	018752502JJK
Line Number:	10
Method Code:	H040
Quantity Tons:	0.00250
Quantity Waste:	5.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	Fiberboard or plastic drums, barrels, kegs
Quantity Type:	Pounds
State Code:	551
Year:	2018
EM Manifest ID:	181233
Generator EPA ID:	CAL000389888
Shipment Date:	2018-09-07
Manifest Number:	018752502JJK
Line Number:	15
Method Code:	H040
Quantity Tons:	0.05000
Quantity Waste:	100.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	Metal drums, barrels, kegs
Quantity Type:	Pounds
State Code:	551
Year:	2018
EM Manifest ID:	181233
Generator EPA ID:	CAL000389888
Shipment Date:	2018-09-07
Manifest Number:	018752502JJK
Line Number:	16
Method Code:	H040
Quantity Tons:	0.00250
Quantity Waste:	5.000000

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SYNTHEGO CORP (Continued)**

**S118234074**

Quantity Unit: P  
Number of Containers: 1  
Type of Container: Fiberboard or plastic drums, barrels, kegs  
Quantity Type: Pounds  
State Code: 551

Year: 2018  
EM Manifest ID: 009831693FLE20170929\_D\_1  
Shipment Date: 9/29/2017  
Receipt Date: 10/16/2017  
Manifest Number: 009831693FLE  
Generator EPA ID: CAL000389888  
Name: SYNTHEGO CORP  
Address: Not reported  
Address 2: Not reported  
City: Not reported  
Zip: Not reported  
Telephone: Not reported  
Contact: Not reported  
Contact Telephone: Not reported  
Transporter 1 EPA ID: CAD010925576  
Transporter 1 Emergency Number: Not reported  
Transporter 2 EPA ID: AZD982403586  
Transporter 2 Emergency Number: Not reported  
TSDF EPA ID: IND000646943  
TSDF Name: TRADEBE TREATMENT AND RECYCLING LLC  
TSDF Address 1: Not reported  
TSDF Address 2: Not reported  
TSDF City: Not reported  
TSDF Zip: Not reported  
TSDF Telephone: Not reported

Federal:  
Year: 2018  
EM Manifest ID: 009831693FLE20170929\_D\_1  
Generator EPA ID: CAL000389888  
Shipment Date: 2017-09-29  
Manifest Number: 009831693FLE  
Line Number: 1  
Method Code: H020  
Quantity Tons: 0.18750  
Quantity Waste: 375.000000  
Quantity Unit: P  
Number of Containers: 3  
Type of Container: NULL  
Quantity Type: NULL  
Federal Code: D001

Year: 2018  
EM Manifest ID: 009831693FLE20170929\_D\_1  
Generator EPA ID: CAL000389888  
Shipment Date: 2017-09-29  
Manifest Number: 009831693FLE  
Line Number: 1  
Method Code: H020  
Quantity Tons: 0.18750  
Quantity Waste: 375.000000

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SYNTHEGO CORP (Continued)**

**S118234074**

Quantity Unit:	P
Number of Containers:	3
Type of Container:	NULL
Quantity Type:	NULL
Federal Code:	D038
Year:	2018
EM Manifest ID:	009831693FLE20170929_D_1
Generator EPA ID:	CAL000389888
Shipment Date:	2017-09-29
Manifest Number:	009831693FLE
Line Number:	1
Method Code:	H020
Quantity Tons:	0.18750
Quantity Waste:	375.000000
Quantity Unit:	P
Number of Containers:	3
Type of Container:	NULL
Quantity Type:	NULL
Federal Code:	F002
Year:	2018
EM Manifest ID:	009831693FLE20170929_D_1
Generator EPA ID:	CAL000389888
Shipment Date:	2017-09-29
Manifest Number:	009831693FLE
Line Number:	1
Method Code:	H020
Quantity Tons:	0.18750
Quantity Waste:	375.000000
Quantity Unit:	P
Number of Containers:	3
Type of Container:	NULL
Quantity Type:	NULL
Federal Code:	F003
Year:	2018
EM Manifest ID:	009831693FLE20170929_D_1
Generator EPA ID:	CAL000389888
Shipment Date:	2017-09-29
Manifest Number:	009831693FLE
Line Number:	1
Method Code:	H020
Quantity Tons:	0.18750
Quantity Waste:	375.000000
Quantity Unit:	P
Number of Containers:	3
Type of Container:	NULL
Quantity Type:	NULL
Federal Code:	F005
State:	
Year:	2018
EM Manifest ID:	009831693FLE20170929_D_1
Generator EPA ID:	CAL000389888
Shipment Date:	2017-09-29
Manifest Number:	009831693FLE



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SYNTHEGO CORP (Continued)**

**S118234074**

Line Number: 1  
Method Code: H020  
Quantity Tons: 0.18750  
Quantity Waste: 375.000000  
Quantity Unit: P  
Number of Containers: 3  
Type of Container: NULL  
Quantity Type: NULL  
State Code: 351

Year: 2018  
EM Manifest ID: 009831686FLE20170929\_D\_1  
Shipment Date: 9/29/2017  
Receipt Date: 10/9/2017  
Manifest Number: 009831686FLE  
Generator EPA ID: CAL000389888  
Name: SYNTHEGO CORP  
Address: Not reported  
Address 2: Not reported  
City: Not reported  
Zip: Not reported  
Telephone: Not reported  
Contact: Not reported  
Contact Telephone: Not reported  
Transporter 1 EPA ID: CAD010925576  
Transporter 1 Emergency Number: Not reported  
Transporter 2 EPA ID: AZD982403586  
Transporter 2 Emergency Number: Not reported  
TSDf EPA ID: CAD008302903  
TSDf Name: VEOLIA ES TECHNICAL SOLUTIONS-AZUSA  
TSDf Address 1: Not reported  
TSDf Address 2: Not reported  
TSDf City: Not reported  
TSDf Zip: Not reported  
TSDf Telephone: Not reported

**Federal:**

Year: 2018  
EM Manifest ID: 009831686FLE20170929\_D\_1  
Generator EPA ID: CAL000389888  
Shipment Date: 2017-09-29  
Manifest Number: 009831686FLE  
Line Number: 1  
Method Code: H020  
Quantity Tons: 1.08900  
Quantity Waste: 330.000000  
Quantity Unit: G  
Number of Containers: 6  
Type of Container: NULL  
Quantity Type: NULL  
Federal Code: D001

Year: 2018  
EM Manifest ID: 009831686FLE20170929\_D\_1  
Generator EPA ID: CAL000389888  
Shipment Date: 2017-09-29  
Manifest Number: 009831686FLE

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SYNTHEGO CORP (Continued)**

**S118234074**

Line Number:	1
Method Code:	H020
Quantity Tons:	1.08900
Quantity Waste:	330.000000
Quantity Unit:	G
Number of Containers:	6
Type of Container:	NULL
Quantity Type:	NULL
Federal Code:	F005
State:	
Year:	2018
EM Manifest ID:	009831686FLE20170929_D_1
Generator EPA ID:	CAL000389888
Shipment Date:	2017-09-29
Manifest Number:	009831686FLE
Line Number:	1
Method Code:	H020
Quantity Tons:	1.08900
Quantity Waste:	330.000000
Quantity Unit:	G
Number of Containers:	6
Type of Container:	NULL
Quantity Type:	NULL
State Code:	212
Year:	
Year:	2018
EM Manifest ID:	009831550FLE20170922_D_1
Shipment Date:	9/22/2017
Receipt Date:	10/2/2017
Manifest Number:	009831550FLE
Generator EPA ID:	CAL000389888
Name:	SYNTHEGO CORP
Address:	Not reported
Address 2:	Not reported
City:	Not reported
Zip:	Not reported
Telephone:	Not reported
Contact:	Not reported
Contact Telephone:	Not reported
Transporter 1 EPA ID:	CAD010925576
Transporter 1 Emergency Number:	Not reported
Transporter 2 EPA ID:	AZD982403586
Transporter 2 Emergency Number:	Not reported
TSDF EPA ID:	CAD008302903
TSDF Name:	VEOLIA ES TECH SOLUTIONS-AZUSA
TSDF Address 1:	Not reported
TSDF Address 2:	Not reported
TSDF City:	Not reported
TSDF Zip:	Not reported
TSDF Telephone:	Not reported
Federal:	
Year:	2018
EM Manifest ID:	009831550FLE20170922_D_1
Generator EPA ID:	CAL000389888

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SYNTHEGO CORP (Continued)**

**S118234074**

Shipment Date:	2017-09-22
Manifest Number:	009831550FLE
Line Number:	1
Method Code:	H020
Quantity Tons:	0.54450
Quantity Waste:	165.000000
Quantity Unit:	G
Number of Containers:	3
Type of Container:	NULL
Quantity Type:	NULL
Federal Code:	D001
Year:	2018
EM Manifest ID:	009831550FLE20170922_D_1
Generator EPA ID:	CAL000389888
Shipment Date:	2017-09-22
Manifest Number:	009831550FLE
Line Number:	1
Method Code:	H020
Quantity Tons:	0.54450
Quantity Waste:	165.000000
Quantity Unit:	G
Number of Containers:	3
Type of Container:	NULL
Quantity Type:	NULL
Federal Code:	F005
Year:	2018
EM Manifest ID:	009831550FLE20170922_D_1
Generator EPA ID:	CAL000389888
Shipment Date:	2017-09-22
Manifest Number:	009831550FLE
Line Number:	2
Method Code:	H061
Quantity Tons:	0.54450
Quantity Waste:	165.000000
Quantity Unit:	G
Number of Containers:	1
Type of Container:	NULL
Quantity Type:	NULL
Federal Code:	D001
Year:	2018
EM Manifest ID:	009831550FLE20170922_D_1
Generator EPA ID:	CAL000389888
Shipment Date:	2017-09-22
Manifest Number:	009831550FLE
Line Number:	2
Method Code:	H061
Quantity Tons:	0.54450
Quantity Waste:	165.000000
Quantity Unit:	G
Number of Containers:	1
Type of Container:	NULL
Quantity Type:	NULL
Federal Code:	F005

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SYNTHEGO CORP (Continued)**

**S118234074**

State:  
Year: 2018  
EM Manifest ID: 009831550FLE20170922\_D\_1  
Generator EPA ID: CAL000389888  
Shipment Date: 2017-09-22  
Manifest Number: 009831550FLE  
Line Number: 1  
Method Code: H020  
Quantity Tons: 0.54450  
Quantity Waste: 165.000000  
Quantity Unit: G  
Number of Containers: 3  
Type of Container: NULL  
Quantity Type: NULL  
State Code: 212

Year: 2018  
EM Manifest ID: 009831550FLE20170922\_D\_1  
Generator EPA ID: CAL000389888  
Shipment Date: 2017-09-22  
Manifest Number: 009831550FLE  
Line Number: 2  
Method Code: H061  
Quantity Tons: 0.54450  
Quantity Waste: 165.000000  
Quantity Unit: G  
Number of Containers: 1  
Type of Container: NULL  
Quantity Type: NULL  
State Code: 212

Year: 2018  
EM Manifest ID: 009831552FLE20170922\_D\_1  
Shipment Date: 9/22/2017  
Receipt Date: 10/3/2017  
Manifest Number: 009831552FLE  
Generator EPA ID: CAL000389888  
Name: SYNTHEGO CORP  
Address: Not reported  
Address 2: Not reported  
City: Not reported  
Zip: Not reported  
Telephone: Not reported  
Contact: Not reported  
Contact Telephone: Not reported  
Transporter 1 EPA ID: CAD010925576  
Transporter 1 Emergency Number: Not reported  
Transporter 2 EPA ID: AZD982403586  
Transporter 2 Emergency Number: Not reported  
TSDf EPA ID: IND000646943  
TSDf Name: TRADEBE TREATMENT AND RECYCLING LLC  
TSDf Address 1: Not reported  
TSDf Address 2: Not reported  
TSDf City: Not reported  
TSDf Zip: Not reported  
TSDf Telephone: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SYNTHEGO CORP (Continued)**

**S118234074**

Federal:  
Year: 2018  
EM Manifest ID: 009831552FLE20170922\_D\_1  
Generator EPA ID: CAL000389888  
Shipment Date: 2017-09-22  
Manifest Number: 009831552FLE  
Line Number: 1  
Method Code: H020  
Quantity Tons: 0.18750  
Quantity Waste: 375.000000  
Quantity Unit: P  
Number of Containers: 3  
Type of Container: NULL  
Quantity Type: NULL  
Federal Code: D001

Year: 2018  
EM Manifest ID: 009831552FLE20170922\_D\_1  
Generator EPA ID: CAL000389888  
Shipment Date: 2017-09-22  
Manifest Number: 009831552FLE  
Line Number: 1  
Method Code: H020  
Quantity Tons: 0.18750  
Quantity Waste: 375.000000  
Quantity Unit: P  
Number of Containers: 3  
Type of Container: NULL  
Quantity Type: NULL  
Federal Code: F002

Year: 2018  
EM Manifest ID: 009831552FLE20170922\_D\_1  
Generator EPA ID: CAL000389888  
Shipment Date: 2017-09-22  
Manifest Number: 009831552FLE  
Line Number: 1  
Method Code: H020  
Quantity Tons: 0.18750  
Quantity Waste: 375.000000  
Quantity Unit: P  
Number of Containers: 3  
Type of Container: NULL  
Quantity Type: NULL  
Federal Code: F003

Year: 2018  
EM Manifest ID: 009831552FLE20170922\_D\_1  
Generator EPA ID: CAL000389888  
Shipment Date: 2017-09-22  
Manifest Number: 009831552FLE  
Line Number: 1  
Method Code: H020  
Quantity Tons: 0.18750  
Quantity Waste: 375.000000  
Quantity Unit: P  
Number of Containers: 3

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SYNTHEGO CORP (Continued)**

**S118234074**

Type of Container:	NULL
Quantity Type:	NULL
Federal Code:	F005
State:	
Year:	2018
EM Manifest ID:	009831552FLE20170922_D_1
Generator EPA ID:	CAL000389888
Shipment Date:	2017-09-22
Manifest Number:	009831552FLE
Line Number:	1
Method Code:	H020
Quantity Tons:	0.18750
Quantity Waste:	375.000000
Quantity Unit:	P
Number of Containers:	3
Type of Container:	NULL
Quantity Type:	NULL
State Code:	351
Year:	
EM Manifest ID:	2018
Shipment Date:	191556
Receipt Date:	9/21/2018
Manifest Number:	10/2/2018
Generator EPA ID:	018753441JJK
Name:	CAL000389888
Address:	SYNTHEGO CORP.
Address 2:	3696 HAVEN AVENUE STE A
City:	Not reported
Zip:	REDWOOD CITY
Telephone:	94063
Contact:	800-535-5053
Contact Telephone:	Not reported
Transporter 1 EPA ID:	888-611-6883
Transporter 1 Emergency Number:	CAD010925576
Transporter 2 EPA ID:	Not reported
Transporter 2 Emergency Number:	AZD982403586
TSDF EPA ID:	Not reported
TSDF Name:	IND000646943
TSDF Address 1:	TRADEBE TREATMENT & RECYCLING LLC
TSDF Address 2:	4343 KENNEDY AVE
TSDF City:	Not reported
TSDF Zip:	EAST CHICAGO
TSDF Telephone:	46312
Federal:	219-397-3951
Year:	2018
EM Manifest ID:	191556
Generator EPA ID:	CAL000389888
Shipment Date:	2018-09-21
Manifest Number:	018753441JJK
Line Number:	1
Method Code:	H020
Quantity Tons:	1.40000
Quantity Waste:	2800.000000

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SYNTHEGO CORP (Continued)**

**S118234074**

Quantity Unit: P  
Number of Containers: 8  
Type of Container: Fiberboard or plastic drums, barrels, kegs  
Quantity Type: Pounds  
Federal Code: D001

Year: 2018  
EM Manifest ID: 191556  
Generator EPA ID: CAL000389888  
Shipment Date: 2018-09-21  
Manifest Number: 018753441JJK  
Line Number: 1  
Method Code: H020  
Quantity Tons: 1.40000  
Quantity Waste: 2800.000000  
Quantity Unit: P  
Number of Containers: 8  
Type of Container: Fiberboard or plastic drums, barrels, kegs  
Quantity Type: Pounds  
Federal Code: D038

Year: 2018  
EM Manifest ID: 191556  
Generator EPA ID: CAL000389888  
Shipment Date: 2018-09-21  
Manifest Number: 018753441JJK  
Line Number: 1  
Method Code: H020  
Quantity Tons: 1.40000  
Quantity Waste: 2800.000000  
Quantity Unit: P  
Number of Containers: 8  
Type of Container: Fiberboard or plastic drums, barrels, kegs  
Quantity Type: Pounds  
Federal Code: F002

Year: 2018  
EM Manifest ID: 191556  
Generator EPA ID: CAL000389888  
Shipment Date: 2018-09-21  
Manifest Number: 018753441JJK  
Line Number: 1  
Method Code: H020  
Quantity Tons: 1.40000  
Quantity Waste: 2800.000000  
Quantity Unit: P  
Number of Containers: 8  
Type of Container: Fiberboard or plastic drums, barrels, kegs  
Quantity Type: Pounds  
Federal Code: F003

Year: 2018  
EM Manifest ID: 191556  
Generator EPA ID: CAL000389888  
Shipment Date: 2018-09-21  
Manifest Number: 018753441JJK  
Line Number: 1

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SYNTHEGO CORP (Continued)**

**S118234074**

Method Code: H020  
Quantity Tons: 1.40000  
Quantity Waste: 2800.000000  
Quantity Unit: P  
Number of Containers: 8  
Type of Container: Fiberboard or plastic drums, barrels, kegs  
Quantity Type: Pounds  
Federal Code: F005

Year: 2018  
EM Manifest ID: 009831414FLE20170915\_D\_1  
Shipment Date: 9/15/2017  
Receipt Date: 9/25/2017  
Manifest Number: 009831414FLE  
Generator EPA ID: CAL000389888  
Name: SYNTHEGO CORP  
Address: Not reported  
Address 2: Not reported  
City: Not reported  
Zip: Not reported  
Telephone: Not reported  
Contact: Not reported  
Contact Telephone: Not reported  
Transporter 1 EPA ID: CAD010925576  
Transporter 1 Emergency Number: Not reported  
Transporter 2 EPA ID: AZD982403586  
Transporter 2 Emergency Number: Not reported  
TSDf EPA ID: CAD008302903  
TSDf Name: VEOLIA ES TECH SOLUTIONS-AZUSA  
TSDf Address 1: Not reported  
TSDf Address 2: Not reported  
TSDf City: Not reported  
TSDf Zip: Not reported  
TSDf Telephone: Not reported

**Federal:**

Year: 2018  
EM Manifest ID: 009831414FLE20170915\_D\_1  
Generator EPA ID: CAL000389888  
Shipment Date: 2017-09-15  
Manifest Number: 009831414FLE  
Line Number: 1  
Method Code: H020  
Quantity Tons: 0.54450  
Quantity Waste: 165.000000  
Quantity Unit: G  
Number of Containers: 3  
Type of Container: NULL  
Quantity Type: NULL  
Federal Code: D001

Year: 2018  
EM Manifest ID: 009831414FLE20170915\_D\_1  
Generator EPA ID: CAL000389888  
Shipment Date: 2017-09-15  
Manifest Number: 009831414FLE  
Line Number: 1



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SYNTHEGO CORP (Continued)**

**S118234074**

Method Code:	H020
Quantity Tons:	0.54450
Quantity Waste:	165.000000
Quantity Unit:	G
Number of Containers:	3
Type of Container:	NULL
Quantity Type:	NULL
Federal Code:	F005
State:	
Year:	2018
EM Manifest ID:	009831414FLE20170915_D_1
Generator EPA ID:	CAL000389888
Shipment Date:	2017-09-15
Manifest Number:	009831414FLE
Line Number:	1
Method Code:	H020
Quantity Tons:	0.54450
Quantity Waste:	165.000000
Quantity Unit:	G
Number of Containers:	3
Type of Container:	NULL
Quantity Type:	NULL
State Code:	212
Year:	
Year:	2018
EM Manifest ID:	009831413FLE20170915_D_1
Shipment Date:	9/15/2017
Receipt Date:	9/26/2017
Manifest Number:	009831413FLE
Generator EPA ID:	CAL000389888
Name:	SYNTHEGO CORP
Address:	Not reported
Address 2:	Not reported
City:	Not reported
Zip:	Not reported
Telephone:	Not reported
Contact:	Not reported
Contact Telephone:	Not reported
Transporter 1 EPA ID:	CAD010925576
Transporter 1 Emergency Number:	Not reported
Transporter 2 EPA ID:	AZD982403586
Transporter 2 Emergency Number:	Not reported
TSDF EPA ID:	IND000646943
TSDF Name:	TRADEBE TREATMENT AND RECYCLING LLC
TSDF Address 1:	Not reported
TSDF Address 2:	Not reported
TSDF City:	Not reported
TSDF Zip:	Not reported
TSDF Telephone:	Not reported
Federal:	
Year:	2018
EM Manifest ID:	009831413FLE20170915_D_1
Generator EPA ID:	CAL000389888
Shipment Date:	2017-09-15

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SYNTHEGO CORP (Continued)**

**S118234074**

Manifest Number: 009831413FLE  
Line Number: 1  
Method Code: H020  
Quantity Tons: 0.15000  
Quantity Waste: 300.000000  
Quantity Unit: P  
Number of Containers: 3  
Type of Container: NULL  
Quantity Type: NULL  
Federal Code: D001

Year: 2018  
EM Manifest ID: 009831413FLE20170915\_D\_1  
Generator EPA ID: CAL000389888  
Shipment Date: 2017-09-15  
Manifest Number: 009831413FLE  
Line Number: 1  
Method Code: H020  
Quantity Tons: 0.15000  
Quantity Waste: 300.000000  
Quantity Unit: P  
Number of Containers: 3  
Type of Container: NULL  
Quantity Type: NULL  
Federal Code: D038

Year: 2018  
EM Manifest ID: 009831413FLE20170915\_D\_1  
Generator EPA ID: CAL000389888  
Shipment Date: 2017-09-15  
Manifest Number: 009831413FLE  
Line Number: 1  
Method Code: H020  
Quantity Tons: 0.15000  
Quantity Waste: 300.000000  
Quantity Unit: P  
Number of Containers: 3  
Type of Container: NULL  
Quantity Type: NULL  
Federal Code: F002

Year: 2018  
EM Manifest ID: 009831413FLE20170915\_D\_1  
Generator EPA ID: CAL000389888  
Shipment Date: 2017-09-15  
Manifest Number: 009831413FLE  
Line Number: 1  
Method Code: H020  
Quantity Tons: 0.15000  
Quantity Waste: 300.000000  
Quantity Unit: P  
Number of Containers: 3  
Type of Container: NULL  
Quantity Type: NULL  
Federal Code: F003

Year: 2018

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SYNTHEGO CORP (Continued)**

**S118234074**

EM Manifest ID: 009831413FLE20170915\_D\_1  
Generator EPA ID: CAL000389888  
Shipment Date: 2017-09-15  
Manifest Number: 009831413FLE  
Line Number: 1  
Method Code: H020  
Quantity Tons: 0.15000  
Quantity Waste: 300.000000  
Quantity Unit: P  
Number of Containers: 3  
Type of Container: NULL  
Quantity Type: NULL  
Federal Code: F005

State:

Year: 2018  
EM Manifest ID: 009831413FLE20170915\_D\_1  
Generator EPA ID: CAL000389888  
Shipment Date: 2017-09-15  
Manifest Number: 009831413FLE  
Line Number: 1  
Method Code: H020  
Quantity Tons: 0.15000  
Quantity Waste: 300.000000  
Quantity Unit: P  
Number of Containers: 3  
Type of Container: NULL  
Quantity Type: NULL  
State Code: 351

Additional Info:

Year: 2017  
Gen EPA ID: CAL000389888  
  
Shipment Date: 20171229  
Creation Date: 8/7/2018 18:30:18  
Receipt Date: 20180108  
Manifest ID: 010985225FLE  
Trans EPA ID: CAD010925576  
Trans Name: UNIVAR USA INC  
Trans 2 EPA ID: AZD982403586  
Trans 2 Name: ENGLUND EQUIPMENT CO  
TSDf EPA ID: CAD008302903  
Trans Name: VEOLIA ES TECHNICAL SOLUTIONS-AZUSA  
TSDf Alt EPA ID: Not reported  
TSDf Alt Name: Not reported  
Waste Code Description: 212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.  
RCRA Code: F005  
Meth Code: H020 - Solvents Recovery  
Quantity Tons: 0.363  
Waste Quantity: 110  
Quantity Unit: G  
Additional Code 1: D001  
Additional Code 2: Not reported  
Additional Code 3: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SYNTHEGO CORP (Continued)**

**S118234074**

Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20171229
Creation Date:	10/27/2018 18:30:13
Receipt Date:	20180116
Manifest ID:	010985221FLE
Trans EPA ID:	CAD010925576
Trans Name:	UNIVAR USA INC
Trans 2 EPA ID:	AZD982403586
Trans 2 Name:	ENGLUND EQUIPMENT CO
TSDf EPA ID:	IND000646943
Trans Name:	TRADEBE TREATMENT AND RECYCLING LLC
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	351 - Organic solids with halogens
RCRA Code:	F005
Meth Code:	H020 - Solvents Recovery
Quantity Tons:	0.25
Waste Quantity:	500
Quantity Unit:	P
Additional Code 1:	F003
Additional Code 2:	F002
Additional Code 3:	D038
Additional Code 4:	D001
Additional Code 5:	Not reported
Shipment Date:	20171229
Creation Date:	8/7/2018 18:30:18
Receipt Date:	20180108
Manifest ID:	010985225FLE
Trans EPA ID:	CAD010925576
Trans Name:	UNIVAR USA INC
Trans 2 EPA ID:	AZD982403586
Trans 2 Name:	ENGLUND EQUIPMENT CO
TSDf EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS-AZUSA
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.
RCRA Code:	F005
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.1815
Waste Quantity:	55
Quantity Unit:	G
Additional Code 1:	D001
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20171222
Creation Date:	10/27/2018 18:30:26
Receipt Date:	20180108
Manifest ID:	010985150FLE
Trans EPA ID:	CAD010925576
Trans Name:	UNIVAR USA INC

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SYNTHEGO CORP (Continued)**

**S118234074**

Trans 2 EPA ID:	AZD982403586
Trans 2 Name:	ENGLUND EQUIPMENT CO
TSDf EPA ID:	IND000646943
Trans Name:	TRADEBE TREATMENT AND RECYCLING LLC
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	351 - Organic solids with halogens
RCRA Code:	F005
Meth Code:	H020 - Solvents Recovery
Quantity Tons:	0.3
Waste Quantity:	600
Quantity Unit:	P
Additional Code 1:	F003
Additional Code 2:	F002
Additional Code 3:	D038
Additional Code 4:	D001
Additional Code 5:	Not reported
Shipment Date:	20171222
Creation Date:	8/27/2018 18:30:21
Receipt Date:	20180102
Manifest ID:	010985149FLE
Trans EPA ID:	CAD010925576
Trans Name:	UNIVAR USA INC
Trans 2 EPA ID:	AZD982403586
Trans 2 Name:	ENGLUND EQUIPMENT CO
TSDf EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECH SOLUTIONS-AZUSA
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.
RCRA Code:	F005
Meth Code:	H020 - Solvents Recovery
Quantity Tons:	0.9075
Waste Quantity:	275
Quantity Unit:	G
Additional Code 1:	D001
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20171222
Creation Date:	8/27/2018 18:30:21
Receipt Date:	20180102
Manifest ID:	010985149FLE
Trans EPA ID:	CAD010925576
Trans Name:	UNIVAR USA INC
Trans 2 EPA ID:	AZD982403586
Trans 2 Name:	ENGLUND EQUIPMENT CO
TSDf EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECH SOLUTIONS-AZUSA
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.
RCRA Code:	F005
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SYNTHEGO CORP (Continued)**

**S118234074**

Quantity Tons:	0.1815
Waste Quantity:	55
Quantity Unit:	G
Additional Code 1:	D001
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20171215
Creation Date:	11/2/2018 18:30:36
Receipt Date:	20180102
Manifest ID:	010985013FLE
Trans EPA ID:	CAD010925576
Trans Name:	UNIVAR USA INC
Trans 2 EPA ID:	AZD982403586
Trans 2 Name:	ENGLUND EQUIPMENT CO
TSDf EPA ID:	IND000646943
Trans Name:	TRADEBE TREATMENT AND RECYCLING LLC
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	351 - Organic solids with halogens
RCRA Code:	F005
Meth Code:	H020 - Solvents Recovery
Quantity Tons:	0.35
Waste Quantity:	700
Quantity Unit:	P
Additional Code 1:	F003
Additional Code 2:	F002
Additional Code 3:	D038
Additional Code 4:	D001
Additional Code 5:	Not reported
Shipment Date:	20171215
Creation Date:	8/23/2018 18:30:16
Receipt Date:	20171228
Manifest ID:	010985032FLE
Trans EPA ID:	CAD010925576
Trans Name:	UNIVAR USA INC
Trans 2 EPA ID:	AZD982403586
Trans 2 Name:	ENGLUND EQUIPMENT CO
TSDf EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECH SOLUTIONS-AZUSA
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.
RCRA Code:	F005
Meth Code:	H020 - Solvents Recovery
Quantity Tons:	0.363
Waste Quantity:	110
Quantity Unit:	G
Additional Code 1:	D001
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SYNTHEGO CORP (Continued)**

**S118234074**

Shipment Date: 20171208  
Creation Date: 6/27/2018 18:30:40  
Receipt Date: 20171218  
Manifest ID: 010983908FLE  
Trans EPA ID: CAD010925576  
Trans Name: UNIVAR USA INC  
Trans 2 EPA ID: AZD982403586  
Trans 2 Name: ENGLUND EQUIPMENT CO  
TSDf EPA ID: CAD008302903  
Trans Name: VEOLIA ES TECH SOLUTIONS-AZUSA  
TSDf Alt EPA ID: Not reported  
TSDf Alt Name: Not reported  
Waste Code Description: 212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.  
RCRA Code: F005  
Meth Code: H061 - Fuel Blending Prior To Energy Recovery At Another Site  
Quantity Tons: 0.1815  
Waste Quantity: 55  
Quantity Unit: G  
Additional Code 1: D001  
Additional Code 2: Not reported  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported

Shipment Date: 20171208  
Creation Date: 6/27/2018 18:30:40  
Receipt Date: 20171218  
Manifest ID: 010983908FLE  
Trans EPA ID: CAD010925576  
Trans Name: UNIVAR USA INC  
Trans 2 EPA ID: AZD982403586  
Trans 2 Name: ENGLUND EQUIPMENT CO  
TSDf EPA ID: CAD008302903  
Trans Name: VEOLIA ES TECH SOLUTIONS-AZUSA  
TSDf Alt EPA ID: Not reported  
TSDf Alt Name: Not reported  
Waste Code Description: 212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.  
RCRA Code: F005  
Meth Code: H020 - Solvents Recovery  
Quantity Tons: 0.726  
Waste Quantity: 220  
Quantity Unit: G  
Additional Code 1: D001  
Additional Code 2: Not reported  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported

Additional Info:  
Year: 2016  
Gen EPA ID: CAL000389888

Shipment Date: 20151230  
Creation Date: 2/10/2016 22:15:31  
Receipt Date: 20160105  
Manifest ID: 014369207JJK  
Trans EPA ID: CAD010925576

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SYNTHEGO CORP (Continued)**

**S118234074**

Trans Name: UNIVAR USA INC  
Trans 2 EPA ID: AZD982403586  
Trans 2 Name: ENGLUND EQUIPMENT CO  
TSDf EPA ID: CAD008302903  
Trans Name: VEOLIA ES TECH SOLUTIONS-AZUSA  
TSDf Alt EPA ID: Not reported  
TSDf Alt Name: Not reported  
Waste Code Description: 212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.)  
RCRA Code: F005  
Meth Code: H020 - Solvents Recovery  
Quantity Tons: 0.363  
Waste Quantity: 110  
Quantity Unit: G  
Additional Code 1: D001  
Additional Code 2: Not reported  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported

Shipment Date: 20151230  
Creation Date: 9/30/2016 18:31:31  
Receipt Date: 20160112  
Manifest ID: 014369208JJK  
Trans EPA ID: CAD010925576  
Trans Name: UNIVAR USA INC  
Trans 2 EPA ID: AZD982403586  
Trans 2 Name: ENGLUND EQUIPMENT CO  
TSDf EPA ID: IND000646943  
Trans Name: TRADEBE TREATMENT AND RECYCLING LLC  
TSDf Alt EPA ID: Not reported  
TSDf Alt Name: Not reported  
Waste Code Description: 351 - Organic solids with halogens  
RCRA Code: F005  
Meth Code: H020 - Solvents Recovery  
Quantity Tons: 0.15  
Waste Quantity: 300  
Quantity Unit: P  
Additional Code 1: F003  
Additional Code 2: F002  
Additional Code 3: D038  
Additional Code 4: D001  
Additional Code 5: Not reported

Shipment Date: 20151214  
Creation Date: 2/9/2016 22:16:04  
Receipt Date: 20151222  
Manifest ID: 014367396JJK  
Trans EPA ID: CAD010925576  
Trans Name: UNIVAR USA INC  
Trans 2 EPA ID: AZD982403586  
Trans 2 Name: ENGLUND EQUIPMENT CO  
TSDf EPA ID: CAD008302903  
Trans Name: VEOLIA ES TECH SOLUTIONS-AZUSA  
TSDf Alt EPA ID: Not reported  
TSDf Alt Name: Not reported  
Waste Code Description: 212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.)  
RCRA Code: F005



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SYNTHEGO CORP (Continued)**

**S118234074**

Meth Code: H061 - Fuel Blending Prior To Energy Recovery At Another Site  
Quantity Tons: 0.363  
Waste Quantity: 110  
Quantity Unit: G  
Additional Code 1: D001  
Additional Code 2: Not reported  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported

Shipment Date: 20151204  
Creation Date: 2/9/2016 22:16:04  
Receipt Date: 20151208  
Manifest ID: 014367199JJK  
Trans EPA ID: CAD010925576  
Trans Name: UNIVAR USA INC  
Trans 2 EPA ID: AZD982403586  
Trans 2 Name: ENGLUND EQUIPMENT CO  
TSDf EPA ID: CAD008302903  
Trans Name: VEOLIA ES TECH SOLUTIONS-AZUSA  
TSDf Alt EPA ID: Not reported  
TSDf Alt Name: Not reported  
Waste Code Description: 212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.  
RCRA Code: F005  
Meth Code: H061 - Fuel Blending Prior To Energy Recovery At Another Site  
Quantity Tons: 0.363  
Waste Quantity: 110  
Quantity Unit: G  
Additional Code 1: D001  
Additional Code 2: Not reported  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported

Shipment Date: 20150407  
Creation Date: 5/12/2018 18:31:33  
Receipt Date: 20170418  
Manifest ID: 010435287FLE  
Trans EPA ID: CAD010925576  
Trans Name: UNIVAR USA INC  
Trans 2 EPA ID: AZD982403586  
Trans 2 Name: ENGLUND EQUIPMENT CO  
TSDf EPA ID: IND000646943  
Trans Name: TRADEBE TREATMENT AND RECYCLING LLC  
TSDf Alt EPA ID: Not reported  
TSDf Alt Name: Not reported  
Waste Code Description: 351 - Organic solids with halogens  
RCRA Code: F005  
Meth Code: H020 - Solvents Recovery  
Quantity Tons: 0.25  
Waste Quantity: 500  
Quantity Unit: P  
Additional Code 1: F003  
Additional Code 2: F002  
Additional Code 3: D038  
Additional Code 4: D001  
Additional Code 5: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SYNTHEGO CORP (Continued)**

**S118234074**

Additional Info:

Year:	2015
Gen EPA ID:	CAL000389888
Shipment Date:	20151230
Creation Date:	9/30/2016 18:31:31
Receipt Date:	20160112
Manifest ID:	014369208JJK
Trans EPA ID:	CAD010925576
Trans Name:	UNIVAR USA INC
Trans 2 EPA ID:	AZD982403586
Trans 2 Name:	ENGLUND EQUIPMENT CO
TSDF EPA ID:	IND000646943
Trans Name:	TRADEBE TREATMENT AND RECYCLING LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	351 - Organic solids with halogens
RCRA Code:	F005
Meth Code:	H020 - Solvents Recovery
Quantity Tons:	0.15
Waste Quantity:	300
Quantity Unit:	P
Additional Code 1:	F003
Additional Code 2:	F002
Additional Code 3:	D038
Additional Code 4:	D001
Additional Code 5:	Not reported
Shipment Date:	20151230
Creation Date:	2/10/2016 22:15:31
Receipt Date:	20160105
Manifest ID:	014369207JJK
Trans EPA ID:	CAD010925576
Trans Name:	UNIVAR USA INC
Trans 2 EPA ID:	AZD982403586
Trans 2 Name:	ENGLUND EQUIPMENT CO
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECH SOLUTIONS-AZUSA
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.
RCRA Code:	F005
Meth Code:	H020 - Solvents Recovery
Quantity Tons:	0.363
Waste Quantity:	110
Quantity Unit:	G
Additional Code 1:	D001
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20151214
Creation Date:	2/9/2016 22:16:04
Receipt Date:	20151222
Manifest ID:	014367396JJK
Trans EPA ID:	CAD010925576

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SYNTHEGO CORP (Continued)**

**S118234074**

Trans Name: UNIVAR USA INC  
Trans 2 EPA ID: AZD982403586  
Trans 2 Name: ENGLUND EQUIPMENT CO  
TSDf EPA ID: CAD008302903  
Trans Name: VEOLIA ES TECH SOLUTIONS-AZUSA  
TSDf Alt EPA ID: Not reported  
TSDf Alt Name: Not reported  
Waste Code Description: 212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.  
RCRA Code: F005  
Meth Code: H061 - Fuel Blending Prior To Energy Recovery At Another Site  
Quantity Tons: 0.363  
Waste Quantity: 110  
Quantity Unit: G  
Additional Code 1: D001  
Additional Code 2: Not reported  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported

Shipment Date: 20151204  
Creation Date: 2/9/2016 22:16:04  
Receipt Date: 20151208  
Manifest ID: 014367199JJK  
Trans EPA ID: CAD010925576  
Trans Name: UNIVAR USA INC  
Trans 2 EPA ID: AZD982403586  
Trans 2 Name: ENGLUND EQUIPMENT CO  
TSDf EPA ID: CAD008302903  
Trans Name: VEOLIA ES TECH SOLUTIONS-AZUSA  
TSDf Alt EPA ID: Not reported  
TSDf Alt Name: Not reported  
Waste Code Description: 212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.  
RCRA Code: F005  
Meth Code: H061 - Fuel Blending Prior To Energy Recovery At Another Site  
Quantity Tons: 0.363  
Waste Quantity: 110  
Quantity Unit: G  
Additional Code 1: D001  
Additional Code 2: Not reported  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported

Shipment Date: 20150407  
Creation Date: 5/12/2018 18:31:33  
Receipt Date: 20170418  
Manifest ID: 010435287FLE  
Trans EPA ID: CAD010925576  
Trans Name: UNIVAR USA INC  
Trans 2 EPA ID: AZD982403586  
Trans 2 Name: ENGLUND EQUIPMENT CO  
TSDf EPA ID: IND000646943  
Trans Name: TRADEBE TREATMENT AND RECYCLING LLC  
TSDf Alt EPA ID: Not reported  
TSDf Alt Name: Not reported  
Waste Code Description: 351 - Organic solids with halogens  
RCRA Code: F005

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SYNTHEGO CORP (Continued)**

**S118234074**

Meth Code: H020 - Solvents Recovery  
Quantity Tons: 0.25  
Waste Quantity: 500  
Quantity Unit: P  
Additional Code 1: F003  
Additional Code 2: F002  
Additional Code 3: D038  
Additional Code 4: D001  
Additional Code 5: Not reported

Additional Info:

Year: 2014  
Gen EPA ID: CAL000389888

Shipment Date: 20141001  
Creation Date: 3/31/2015 22:15:05  
Receipt Date: 20141010  
Manifest ID: 007602696FLE  
Trans EPA ID: CAR000206086  
Trans Name: NORTH STATE ENVIRONMENTAL  
Trans 2 EPA ID: Not reported  
Trans 2 Name: Not reported  
TSDf EPA ID: TXD982560294  
Trans Name: NSSI/RECOVERY SERVICES INC  
TSDf Alt EPA ID: Not reported  
TSDf Alt Name: Not reported  
Waste Code Description: 551 - Laboratory waste chemicals 561 Detergent and soap  
RCRA Code: F003  
Meth Code: H040 - Incineration--Thermal Destruction Other Than Use As A Fuel  
Quantity Tons: 0.0625  
Waste Quantity: 125  
Quantity Unit: P  
Additional Code 1: F002  
Additional Code 2: D038  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported

Shipment Date: 20141001  
Creation Date: 3/31/2015 22:15:05  
Receipt Date: 20141010  
Manifest ID: 007602696FLE  
Trans EPA ID: CAR000206086  
Trans Name: NORTH STATE ENVIRONMENTAL  
Trans 2 EPA ID: Not reported  
Trans 2 Name: Not reported  
TSDf EPA ID: TXD982560294  
Trans Name: NSSI/RECOVERY SERVICES INC  
TSDf Alt EPA ID: Not reported  
TSDf Alt Name: Not reported  
Waste Code Description: - Not reported  
RCRA Code: F002  
Meth Code: H040 - Incineration--Thermal Destruction Other Than Use As A Fuel  
Quantity Tons: 0.22935  
Waste Quantity: 55  
Quantity Unit: G  
Additional Code 1: D038

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SYNTHEGO CORP (Continued)**

**S118234074**

Additional Code 2:	D002
Additional Code 3:	D001
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20140721
Creation Date:	10/16/2018 18:30:37
Receipt Date:	20170801
Manifest ID:	010984581FLE
Trans EPA ID:	CAD010925576
Trans Name:	UNIVAR USA INC
Trans 2 EPA ID:	AZD982403586
Trans 2 Name:	ENGLUND EQUIPMENT CO
TSDF EPA ID:	IND000646943
Trans Name:	TRADEBE TREATMENT AND RECYCLING LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	351 - Organic solids with halogens
RCRA Code:	F005
Meth Code:	H020 - Solvents Recovery
Quantity Tons:	0.4
Waste Quantity:	800
Quantity Unit:	P
Additional Code 1:	F003
Additional Code 2:	F002
Additional Code 3:	D038
Additional Code 4:	D001
Additional Code 5:	Not reported
Shipment Date:	20140508
Creation Date:	3/31/2015 22:15:05
Receipt Date:	20140523
Manifest ID:	007600565FLE
Trans EPA ID:	CAR000206086
Trans Name:	NORTH STATE ENVIRONMENTAL
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	TXD982560294
Trans Name:	NSSI/RECOVERY SERVICES INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	- Not reported
RCRA Code:	F002
Meth Code:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons:	0.22935
Waste Quantity:	55
Quantity Unit:	G
Additional Code 1:	D038
Additional Code 2:	D002
Additional Code 3:	D001
Additional Code 4:	Not reported
Additional Code 5:	Not reported

**CERS:**

Name:	SYNTHEGO CORP
Address:	3696 HAVEN AVE STE A
City,State,Zip:	REDWOOD CITY, CA 94063

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SYNTHEGO CORP (Continued)**

**S118234074**

Site ID: 369939  
CERS ID: 10507609  
CERS Description: Chemical Storage Facilities

Violations:

Site ID: 369939  
Site Name: SYNTHEGO CORP  
Violation Date: 10-18-2018  
Citation: HSC 6.95 25505.1 - California Health and Safety Code, Chapter 6.95, Section(s) 25505.1

Violation Description: Failure to notify property owner in writing that the business is subject to the business plan program and has complied with its provisions.

Violation Notes: Returned to compliance on 11/18/2018. Please notify property owner that the facility is subject to the HMBP reporting requirement within 30 days.

Violation Division: San Mateo County Environmental Health  
Violation Program: HMRRP  
Violation Source: CERS,

Site ID: 369939  
Site Name: SYNTHEGO CORP  
Violation Date: 03-01-2022  
Citation: 22 CCR 15 66265.35 - California Code of Regulations, Title 22, Chapter 15, Section(s) 66265.35

Violation Description: Failure to maintain aisle space to allow the unobstructed movement of personnel, fire protection equipment, spill control equipment, and decontamination equipment to any area of facility operation in an emergency, unless it can be demonstrated to the Department that aisle space is not needed for any of these purposes.

Violation Notes: Aisle space was tight in Suite C synthesis and the suite with the Hamiltons.

Violation Division: San Mateo County Environmental Health  
Violation Program: HW  
Violation Source: CERS,

Site ID: 369939  
Site Name: SYNTHEGO CORP  
Violation Date: 03-01-2022  
Citation: 22 CCR 15 66265.174 - California Code of Regulations, Title 22, Chapter 15, Section(s) 66265.174

Violation Description: Failure to inspect weekly, areas where hazardous waste containers are stored or transferred. The owner or operator shall look for leaking containers and for deterioration of containers and the containment system caused by corrosion or other factors.

Violation Notes: Weekly inspection records for all hazardous waste (HW) storage containers and areas inadequate to identify issues per HW storage area and/or container. Adequate inspections would have identified some of the issues observed as violations during the inspection (unlabeled, illegible, and open HW containers). Revise inspection checklists to identify separate areas and individual containers with issues, ensure issues are addressed. Immediately begin proper inspection of all HW containers; provide verification (copies of inspection reports) to inspector within 15 days.

Violation Division: San Mateo County Environmental Health  
Violation Program: HW  
Violation Source: CERS,

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SYNTHEGO CORP (Continued)**

**S118234074**

Site ID: 369939  
Site Name: SYNTHEGO CORP  
Violation Date: 10-18-2018  
Citation: 22 CCR 15 66265.51 - California Code of Regulations, Title 22, Chapter 15, Section(s) 66265.51  
Violation Description: Failure to prepare and implement a written Contingency Plan to minimize hazards to human health or the environment from fires, explosions, or any unplanned sudden or non-sudden release of hazardous waste or hazardous waste constituents to air, soil, or surface water.  
Violation Notes: Returned to compliance on 11/18/2018. Please prepare a Contingency Plan for the facility within 30 days.  
Violation Division: San Mateo County Environmental Health  
Violation Program: HW  
Violation Source: CERS,

Site ID: 369939  
Site Name: SYNTHEGO CORP  
Violation Date: 01-04-2021  
Citation: 22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)  
Violation Description: Failure to properly label hazardous waste accumulation containers and portable tanks with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.  
Violation Notes: Returned to compliance on 01/25/2021. Multiple containers and the above ground waste tank (i.e. marking it as continuous is not sufficient. The accumulation start date should start every time after the hauler empty the content of the tank) did not meet the marking of accumulation start dates requirement. Please correct the violations within 30 days.  
Violation Division: San Mateo County Environmental Health  
Violation Program: HW  
Violation Source: CERS,

Site ID: 369939  
Site Name: SYNTHEGO CORP  
Violation Date: 10-18-2018  
Citation: 22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)  
Violation Description: Failure to properly label hazardous waste accumulation containers and portable tanks with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.  
Violation Notes: Returned to compliance on 11/18/2018. All hazardous waste containers must be properly labeled regardless of size or the waste contained within it. Please label all hazardous waste containers with proper labels within 30 days. Within 30 days, implement a system to empty out all the hazardous waste accumulation in the hazardous waste tote store the tote kept in the shed to avoid the possibility that the oldest waste enter the tote exceeds 90 days since the point of generation.  
Violation Division: San Mateo County Environmental Health  
Violation Program: HW  
Violation Source: CERS,

Site ID: 369939

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SYNTHEGO CORP (Continued)**

**S118234074**

Site Name: SYNTHEGO CORP  
Violation Date: 03-01-2022  
Citation: 22 CCR 15 66265.195(c) - California Code of Regulations, Title 22, Chapter 15, Section(s) 66265.195(c)  
Violation Description: Failure to conduct and document inspections of hazardous waste tank systems each operating day and retain records of those inspections at the facility.  
Violation Notes: Returned to compliance on 07/12/2022. Observed tank system daily inspections for the 3 tanks in the building behind the facility but not for the "torpedo" tanks. Please provide a copy of the last 10 inspection reports within 30 days.  
Violation Division: San Mateo County Environmental Health  
Violation Program: HW  
Violation Source: CERS,

Site ID: 369939  
Site Name: SYNTHEGO CORP  
Violation Date: 03-01-2022  
Citation: 22 CCR 15 66265.192(h) - California Code of Regulations, Title 22, Chapter 15, Section(s) 66265.192(h)  
Violation Description: Failure of generator to obtain assessment or reassessment every five (5) years or the remaining service life of the tank system, as stated in the engineer's assessment, whichever is less. This assessment applies to onground or aboveground tank systems containing only non-RCRA hazardous wastes generated onsite, or for a small quantity generator onground or aboveground tank systems containing RCRA hazardous wastes generated onsite.  
Violation Notes: HW tank assessments have not been conducted for the tanks in the building behind Suite C and inside Suite C synthesis. Please complete these assessments and provide inspector copies of the reports within 30 days. Inspector previously received verification of a plan to have these assessments completed (copy of a contract).  
Violation Division: San Mateo County Environmental Health  
Violation Program: HW  
Violation Source: CERS,

Site ID: 369939  
Site Name: SYNTHEGO CORP  
Violation Date: 03-01-2022  
Citation: HSC 6.11 25404(e)(4) - California Health and Safety Code, Chapter 6.11, Section(s) 25404(e)(4)  
Violation Description: Failure to report, and report accurately, program data (such as hazardous waste generation activities) electronically.  
Violation Notes: A large quantity RCRA generator must prepare the Biennial report (for 2021) (Form 8700), and submit to DTSC by March 1st (2022) on even numbered years and maintain it onsite for 3 years. RCRAInfo data indicate that Synthego should have generated this report for the years 2018 and 2020. Records are unclear for 2022 due to the use of 2 different EPAID#s. Synthego is currently in communication with DTSC about how best to consolidate information for the 2022 report. Please provide copies of the 2018 and 2020 reports and report on the status of 2022 report within 30 days.  
Violation Division: San Mateo County Environmental Health  
Violation Program: HW  
Violation Source: CERS,

Site ID: 369939



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SYNTHEGO CORP (Continued)**

**S118234074**

Site Name: SYNTHEGO CORP  
Violation Date: 10-18-2018  
Citation: 22 CCR 15 66265.16 - California Code of Regulations, Title 22, Chapter 15, Section(s) 66265.16  
Violation Description: Failure to provide employees with hazardous waste training program of class room instructions or on-the-job training within the first six months after the date of their employment or assignment to a facility, or to a new position at a facility and annually thereafter. Training records on current personnel shall be kept until closure of the facility and for former employees the record shall be kept for at least three years from the date the employee last worked at the facility. The records shall include the following: the job title for each position at the facility related to hazardous waste management, and the name of the employee filling each job; a written job description for each position, duties of facility personnel assigned to each position, and a written description of the type and amount of both introductory and continuing training that will be given to each person filling a position.  
Violation Notes: Returned to compliance on 11/18/2018. The employee training record must show the title of the jobs, their tasks associated with hazardous waste and the training received for their positions. Please document employee training records according to the Large Quantity Generator requirement within 30 days.  
Violation Division: San Mateo County Environmental Health  
Violation Program: HW  
Violation Source: CERS,

Site ID: 369939  
Site Name: SYNTHEGO CORP  
Violation Date: 03-01-2022  
Citation: HSC 6.5 25244.19 - California Health and Safety Code, Chapter 6.5, Section(s) 25244.19  
Violation Description: Failure of a generator to conduct, when required, a source reduction evaluation review and plan every four years, and/or failure of the review and plan to contain all required information.  
Violation Notes: As a large quantity generator in 2018, Synthego was subject to SB 14 and should have prepared documents that describe the source reduction program the generator has developed and is implementing in submissions submitted by the following September 2019. (Every 4 years, starting in the year 2014, a facility that is a large quantity generator must evaluate its source reduction program and prepare and submit the relevant documents by September of the following year.) Within 30 days, submit to the inspector documents that reflect the status of this effort.  
Violation Division: San Mateo County Environmental Health  
Violation Program: HW  
Violation Source: CERS,

Site ID: 369939  
Site Name: SYNTHEGO CORP  
Violation Date: 10-18-2018  
Citation: 22 CCR 15 66265.53 - California Code of Regulations, Title 22, Chapter 15, Section(s) 66265.53  
Violation Description: Failure to maintain a copy of the contingency plan and all its revisions at the facility and to submit a copy to all local police departments, fire departments, hospitals, and State and local emergency response teams that may be called upon to provide emergency

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SYNTHEGO CORP (Continued)**

**S118234074**

Violation Notes: services.  
Returned to compliance on 11/09/2018. Please prepare a Contingency Plan for the facility within 30 days and keep it on plan.

Violation Division: San Mateo County Environmental Health  
Violation Program: HW  
Violation Source: CERS,

Site ID: 369939  
Site Name: SYNTHEGO CORP  
Violation Date: 03-01-2022  
Citation: HSC 6.5 25244.21 - California Health and Safety Code, Chapter 6.5, Section(s) 25244.21

Violation Description: Failure to adequately complete, and maintain for review, all requirements of the source reduction evaluation review and plan (SB-14).

Violation Notes: See previous.  
Violation Division: San Mateo County Environmental Health  
Violation Program: HW  
Violation Source: CERS,

Site ID: 369939  
Site Name: SYNTHEGO CORP  
Violation Date: 01-04-2021  
Citation: HSC 6.95 25508(a)(3) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(3)

Violation Description: Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.

Violation Notes: Returned to compliance on 01/25/2021. Please add the 55 gallon drum containing waste flammable liquid as well as the tote situated next to the above ground waste liquid tank (served as a mean for the waste transporter to transfer the waste in the above ground tank for disposal) to the chemical inventory of the HMBP and re-submit the HMBP. If the tote is completely empty all the time except during transfer, then it is not necessary to be included. But this is not always the case.

Violation Division: San Mateo County Environmental Health  
Violation Program: HMRRP  
Violation Source: CERS,

Site ID: 369939  
Site Name: SYNTHEGO CORP  
Violation Date: 03-01-2022  
Citation: 22 CCR 15 66265.193 - California Code of Regulations, Title 22, Chapter 15, Section(s) 66265.193

Violation Description: Failure to meet required secondary containment requirements for hazardous waste tank systems or components.

Violation Notes: "Torpedo" tanks in Suite A Synthesis lack secondary containment. Within 30 days provide inspector with a plan to install secondary containment compliant with CCR 66265.193.

Violation Division: San Mateo County Environmental Health  
Violation Program: HW  
Violation Source: CERS,

Site ID: 369939  
Site Name: SYNTHEGO CORP  
Violation Date: 03-01-2022

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SYNTHEGO CORP (Continued)**

**S118234074**

Citation: 22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)  
Violation Description: Failure to properly label hazardous waste accumulation containers and portable tanks with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.  
Violation Notes: Returned to compliance on 07/12/2022. On 3-1 observed in the waste tank building that the 3 large ACN HW tanks are not marked with contents. Please add contents, ensure labels indicate the filling sequence (first, second, and third), frequency of waste removal, and reference the label on the pump for accumulation start and pickup dates; send inspector photo-verification in 30 days. For hazardous waste (HW) containers that are emptied daily, Accumulation Start Date must be written "Emptied Daily," not "Daily" to avoid confusion. On 3-4 in Suite C, observed accumulation start times as either "emptied daily" or blank. Many labels were illegible. For those labeled "emptied daily" ensure the container is truly emptied daily (several had very old labels and seemed to hold more waste than might be generated through the morning). For those with no date, mark the correct start date and ensure all labels are legible. Send photo verification to inspector within 30 days. For the Hamilton instruments in Suite C's [Truncated]  
Violation Division: San Mateo County Environmental Health  
Violation Program: HW  
Violation Source: CERS,

Site ID: 369939  
Site Name: SYNTHEGO CORP  
Violation Date: 03-01-2022  
Citation: 22 CCR 31 67100.9 - California Code of Regulations, Title 22, Chapter 31, Section(s) 67100.9  
Violation Description: Failure of a large quantity generator to prepare a summary progress report every four years, using DTSC s Form # 1262 (3/99) titled "Summary Progress Report".  
Violation Notes: See previous.  
Violation Division: San Mateo County Environmental Health  
Violation Program: HW  
Violation Source: CERS,

Site ID: 369939  
Site Name: SYNTHEGO CORP  
Violation Date: 03-01-2022  
Citation: 22 CCR 11 66261.7 - California Code of Regulations, Title 22, Chapter 11, Section(s) 66261.7  
Violation Description: Failure to manage empty containers greater than 5 gallons in capacity that previously held a hazardous material/waste in accordance with 22 CCR 11 66261.7 including but not limited to the following: (e)(2)By reclaiming its scrap value onsite or shipping the container or inner liner to a person who reclaims its scrap value; or (3) By reconditioning or re manufacturing the container or inner liner onsite for subsequent reuse, or shipping the container or inner liner to a person who reconditions or re-manufactures the container or inner liner; or (4) By shipping the container or inner liner to a supplier or to another intermediate collection location for accumulation prior to managing the container or inner liner pursuant to subsections (e)(2) or (e)(3) of 22 CCR 11 66261.7; or (i) By shipping the

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SYNTHEGO CORP (Continued)**

**S118234074**

Violation Notes: container or inner liner back to the supplier for the purpose of being refilled. (f) A container or an inner liner removed from a container larger than five gallons in capacity which is managed pursuant to subsection (e) of 22 CCR 11 66261.7 shall be marked with the date it has been emptied and shall be managed within one year of being emptied.

In the bottle cleaning area off the main synthesis lab, small bottles with a drying trap were cleaned with solvent and rinsate stored in plastic HW labeled containers (like transfer containers only some were not empty), or it was disposed in larger HW storage container. The bottles were inverted to drain and dry before disposal. These containers are not considered HW if they meet DTSC s definition of an Empty Container: if the waste is pourable, empty is when nothing but a few drops fall from the inverted container. If the waste is non-pourable, empty is when all contents are removed that can feasibly be removed by physical methods, including scraping and chipping, but not rinsing. See guidance attached to inspection report. Note that the procedure is different for containers that held extremely acutely hazardous waste (See <https://www.ecfr.gov/current/title-40/chapter-I/subchapter-J/part-355>. ) Note that the pad under the inverted bottles are contaminated with whatever [Truncated]

Violation Division: San Mateo County Environmental Health  
Violation Program: HW  
Violation Source: CERS,

Site ID: 369939  
Site Name: SYNTHEGO CORP  
Violation Date: 03-01-2022  
Citation: 22 CCR 15 66265.31 - California Code of Regulations, Title 22, Chapter 15, Section(s) 66265.31

Violation Description: Failure to maintain and operate the facility to minimize the possibility of a fire, explosion, or any unplanned sudden or non-sudden release of hazardous waste or hazardous waste constituents to air, soil, or surface water which could threaten human health or the environment.

Violation Notes: Housekeeping could be improved. Observed the following: pipette tips on a lower shelf next to HW container in the Hamilton area of Suite C; spray bottle on the ground in synthesis next to the window between synthesis and the Hamilton area in Suite C; spill stains on floor and waste containers in bottle cleaning room off synthesis lab, materials stored in a haphazard manner under the bottle-cleaning hood and in the open closet near the cartridge cleaning alcove. Develop a plan to ensure HW is placed in proper containers, chemical and other supplies are put away, and spills are cleaned up immediately; inform inspector within 30 days.

Violation Division: San Mateo County Environmental Health  
Violation Program: HW  
Violation Source: CERS,

Site ID: 369939  
Site Name: SYNTHEGO CORP  
Violation Date: 10-18-2018  
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)

Violation Description: Failure to complete and electronically submit a site map with all required content.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SYNTHEGO CORP (Continued)**

**S118234074**

Violation Notes: Returned to compliance on 11/18/2018. Please mark evacuation assembly area on facility map in the HMBP and please change the word shed to HM and Hazardous Waste Storage shed then resubmit the HMBP,  
Violation Division: San Mateo County Environmental Health  
Violation Program: HMRRP  
Violation Source: CERS,

Site ID: 369939  
Site Name: SYNTHEGO CORP  
Violation Date: 03-01-2022  
Citation: 22 CCR 12 66262.11 - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.11

Violation Description: Failure to determine if wastes generated are hazardous waste by using generator knowledge or applying testing method.

Violation Notes: Returned to compliance on 07/12/2022. In the cartridge cleaning alcove in Suite C, observed a container with a HW label under the frit filter that may not contain HW, in Suite A observed one container in the main lab labeled "waste" with an NFPA diamond and one in the quality lab marked "waste." Determine whether these are HW and if so, label properly and send photo-verification; if not, inform the inspector of the waste determination within 30 days. In general, ensure all wastes generated are evaluated for whether the contents are hazardous.

Violation Division: San Mateo County Environmental Health  
Violation Program: HW  
Violation Source: CERS,

Site ID: 369939  
Site Name: SYNTHEGO CORP  
Violation Date: 03-01-2022  
Citation: 22 CCR 15 66265.173 - California Code of Regulations, Title 22, Chapter 15, Section(s) 66265.173

Violation Description: Failure to meet the following container management requirements: (a) A container holding hazardous waste must always be closed during storage, except when it is necessary to add or remove waste. (b) A container holding hazardous waste must not be opened, handled, or stored in a manner which may rupture the container or cause it to leak.

Violation Notes: Observed many containers using parafilm to "close" HW containers. Observed in the main Suite C lab and in the "clean room" in Suite C on a centrifuge tube being used to prepare the instrument for use and standard carboys connected to analytical instruments. Please replace the parafilm with proper caps with adaptors for the lines and tubes leading to the container. Provide photo-verification within 30 days. Funnel for hazardous waste tank in bottle-cleaning room off the synthesis lab closed during inspection. Large gray bins containing contaminated tips under the Hamilton instruments in Suite C were unlabeled and open. Immediately close and properly label these containers; provide inspector photo-verification within 30 days.

Violation Division: San Mateo County Environmental Health  
Violation Program: HW  
Violation Source: CERS,

Site ID: 369939  
Site Name: SYNTHEGO CORP  
Violation Date: 03-01-2022  
Citation: 22 CCR 15 66265.192(a) - California Code of Regulations, Title 22, Chapter 15, Section(s) 66265.192(a)

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SYNTHEGO CORP (Continued)**

**S118234074**

Violation Description: Failure to obtain and maintain a written assessment reviewed and certified by an independent, qualified, professional engineer prior to placing the tank system in service. The written assessment shall state that, the new hazardous waste tank system has sufficient structural integrity, is acceptable for the transferring, storing and treating of hazardous waste, and that the tanks and containment system including the foundation, structural support, seams, connections, and pressure controls (if applicable) are suitably designed to meet the regulation.

Violation Notes: All HW tanks must receive a written assessment by a PE before use. An assessment was not available for any of the HW tanks at the facility.

Violation Division: San Mateo County Environmental Health  
Violation Program: HW  
Violation Source: CERS,

Site ID: 369939  
Site Name: SYNTHEGO CORP  
Violation Date: 03-01-2022  
Citation: 22 CCR 12 66262.12 - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.12

Violation Description: Failure to obtain an Identification Number prior to treating, storing, disposing of, transporting or offering for transportation any hazardous waste.

Violation Notes: Returned to compliance on 03/04/2022. Federal EPAID# has expired. Re-activate this number and de-activate your state number. See previous mention of this issue in email dated 1-26-22 for link. Completed (3-2) during multi-day inspection.

Violation Division: San Mateo County Environmental Health  
Violation Program: HW  
Violation Source: CERS,

Site ID: 369939  
Site Name: SYNTHEGO CORP  
Violation Date: 03-01-2022  
Citation: 22 CCR 15 66265.16 - California Code of Regulations, Title 22, Chapter 15, Section(s) 66265.16

Violation Description: Failure to provide employees with hazardous waste training program of class room instructions or on-the-job training within the first six months after the date of their employment or assignment to a facility, or to a new position at a facility and annually thereafter. Training records on current personnel shall be kept until closure of the facility and for former employees the record shall be kept for at least three years from the date the employee last worked at the facility. The records shall include the following: the job title for each position at the facility related to hazardous waste management, and the name of the employee filling each job; a written job description for each position, duties of facility personnel assigned to each position, and a written description of the type and amount of both introductory and continuing training that will be given to each person filling a position.

Violation Notes: Training records for hazardous waste generators/handlers not available or inadequate. Provide training records for all employees involved in hazardous waste management (this includes generation) within 30 days. All employees must be thoroughly familiar with proper waste handling and emergency procedures, relevant to their responsibilities during normal facility operations and emergencies. Requirements can be found at CCR 66265.16.

Violation Division: San Mateo County Environmental Health

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

EDR ID Number  
 EPA ID Number

Site

Database(s)

**SYNTHEGO CORP (Continued)**

**S118234074**

<p>Violation Program:          Violation Source:</p> <p>Site ID:          Site Name:          Violation Date:          Citation:</p> <p>Violation Description:</p> <p>Violation Notes:</p> <p>Violation Division:          Violation Program:          Violation Source:</p> <p>Site ID:          Site Name:          Violation Date:          Citation:</p> <p>Violation Description:</p> <p>Violation Notes:</p> <p>Violation Division:          Violation Program:          Violation Source:</p> <p>Evaluation:          Eval General Type:          Eval Date:          Violations Found:          Eval Type:          Eval Notes:          Eval Division:          Eval Program:          Eval Source:</p> <p>Eval General Type:          Eval Date:          Violations Found:          Eval Type:</p>	<p>HW          CERS,</p> <p>369939          SYNTHEGO CORP          03-01-2022          HSC 6.5 25123.3(b)(1) - California Health and Safety Code, Chapter 6.5, Section(s) 25123.3(b)(1)</p> <p>Failure to send hazardous waste offsite for treatment, storage, or disposal within 90 days for a generator who generates 1000 kilograms or more per month.</p> <p>The great majority of HW containers at Synthego were marked "emptied daily." However, some of these were obviously not emptied daily. Determine which containers are not being emptied daily and ensure proper labeling of accumulation start date as the date the first drop/piece of HW was placed in the container. For containers where "emptied daily" is appropriate, develop a system to ensure containers are emptied daily. Within 30 days, provide a description of the waste streams that are emptied daily and those that are not and send inspector a list and representative photo-verification; also provide a plan for ensuring that where required, containers are emptied daily.</p> <p>San Mateo County Environmental Health          HW          CERS,</p> <p>369939          SYNTHEGO CORP          10-18-2018          22 CCR 15 66265.173 - California Code of Regulations, Title 22, Chapter 15, Section(s) 66265.173</p> <p>Failure to meet the following container management requirements: (a) A container holding hazardous waste must always be closed during storage, except when it is necessary to add or remove waste. (b) A container holding hazardous waste must not be opened, handled, or stored in a manner which may rupture the container or cause it to leak.</p> <p>Returned to compliance on 03/06/2019. There were two 5 gallon glass bottle containers holding waste acetonitrile does not meet the closed container definition. Please modify the cap within 30 days.</p> <p>San Mateo County Environmental Health          HW          CERS,</p> <p>Compliance Evaluation Inspection          01-04-2021          Yes          Routine done by local agency          The latest HMBP submitted was on 8/26/2020 via san county portal          San Mateo County Environmental Health          HMRRP          CERS,</p> <p>Other/Unknown          01-08-2015          No          Other, not routine, done by local agency</p>
---	--

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SYNTHEGO CORP (Continued)**

**S118234074**

Eval Notes: Not reported  
Eval Division: San Mateo County Environmental Health  
Eval Program: HMRRP  
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection  
Eval Date: 02-18-2016  
Violations Found: No  
Eval Type: Routine done by local agency  
Eval Notes: paul.dabrowski@synthego.com  
Eval Division: San Mateo County Environmental Health  
Eval Program: HMRRP  
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection  
Eval Date: 12-05-2013  
Violations Found: No  
Eval Type: Routine done by local agency  
Eval Notes: Not reported  
Eval Division: San Mateo County Environmental Health  
Eval Program: HW  
Eval Source: CERS,

Eval General Type: Other/Unknown  
Eval Date: 12-16-2020  
Violations Found: No  
Eval Type: Other, not routine, done by local agency  
Eval Notes: Not reported  
Eval Division: San Mateo County Environmental Health  
Eval Program: HW  
Eval Source: CERS,

Eval General Type: Other/Unknown  
Eval Date: 12-30-2020  
Violations Found: No  
Eval Type: Other, not routine, done by local agency  
Eval Notes: Not reported  
Eval Division: San Mateo County Environmental Health  
Eval Program: HMRRP  
Eval Source: CERS,

Eval General Type: Other/Unknown  
Eval Date: 01-25-2021  
Violations Found: No  
Eval Type: Other, not routine, done by local agency  
Eval Notes: email request MP and add'l RWC HMBP access  
Eval Division: San Mateo County Environmental Health  
Eval Program: HW  
Eval Source: CERS,

Eval General Type: Other/Unknown  
Eval Date: 01-30-2019  
Violations Found: No  
Eval Type: Other, not routine, done by local agency  
Eval Notes: Not reported  
Eval Division: San Mateo County Environmental Health  
Eval Program: HMRRP



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SYNTHEGO CORP (Continued)**

**S118234074**

Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection  
Eval Date: 03-04-2022  
Violations Found: Yes  
Eval Type: Routine done by local agency  
Eval Notes: Inspection began on 3-1, completed on 3-4. Facility is a RCRA large quantity generator. Waste includes liquid ACN, IPA, dichloroacetic acid, ammonia compounds, methanol, toluene, hexafluoroisopropanol, hexylamine, ammonium hydroxide, and methylamine and solids contaminated with these wastes.

Eval Division: San Mateo County Environmental Health  
Eval Program: HW  
Eval Source: CERS,

Eval General Type: Other/Unknown  
Eval Date: 04-13-2020  
Violations Found: No  
Eval Type: Other, not routine, done by local agency  
Eval Notes: Not reported  
Eval Division: San Mateo County Environmental Health  
Eval Program: HMRRP  
Eval Source: CERS,

Eval General Type: Other/Unknown  
Eval Date: 05-14-2021  
Violations Found: No  
Eval Type: Other, not routine, done by local agency  
Eval Notes: Not reported  
Eval Division: San Mateo County Environmental Health  
Eval Program: HMRRP  
Eval Source: CERS,

Eval General Type: Other/Unknown  
Eval Date: 06-17-2017  
Violations Found: No  
Eval Type: Other, not routine, done by local agency  
Eval Notes: Jun 16 2017, 3:58 PM HMBP submittal accepted.  
Eval Division: San Mateo County Environmental Health  
Eval Program: HMRRP  
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection  
Eval Date: 10-18-2018  
Violations Found: Yes  
Eval Type: Routine done by local agency  
Eval Notes: Last HMBP inspection was conducted in 2016. Facility gas expanded substantially since 2016  
Eval Division: San Mateo County Environmental Health  
Eval Program: HMRRP  
Eval Source: CERS,

Eval General Type: Other/Unknown  
Eval Date: 11-28-2022  
Violations Found: No  
Eval Type: Other, not routine, done by local agency  
Eval Notes: rww tank assessment. contact rwc fd for latest insp - from 2015(!)

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SYNTHEGO CORP (Continued)**

**S118234074**

Eval Division: San Mateo County Environmental Health  
Eval Program: HW  
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection  
Eval Date: 12-05-2013  
Violations Found: No  
Eval Type: Routine done by local agency

Eval Notes: Not reported  
Eval Division: San Mateo County Environmental Health  
Eval Program: HMRRP  
Eval Source: CERS,

Eval General Type: Other/Unknown  
Eval Date: 12-21-2018  
Violations Found: No  
Eval Type: Other, not routine, done by local agency  
Eval Notes: Not reported  
Eval Division: San Mateo County Environmental Health  
Eval Program: HMRRP  
Eval Source: CERS,

Eval General Type: Other/Unknown  
Eval Date: 01-30-2019  
Violations Found: No  
Eval Type: Other, not routine, done by local agency  
Eval Notes: Not reported  
Eval Division: San Mateo County Environmental Health  
Eval Program: HW  
Eval Source: CERS,

Eval General Type: Other/Unknown  
Eval Date: 03-02-2021  
Violations Found: No  
Eval Type: Other, not routine, done by local agency  
Eval Notes: Not reported  
Eval Division: San Mateo County Environmental Health  
Eval Program: HMRRP  
Eval Source: CERS,

Eval General Type: Other/Unknown  
Eval Date: 03-10-2016  
Violations Found: No  
Eval Type: Other, not routine, done by local agency  
Eval Notes: Not reported  
Eval Division: San Mateo County Environmental Health  
Eval Program: HMRRP  
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection  
Eval Date: 10-18-2018  
Violations Found: Yes  
Eval Type: Routine done by local agency  
Eval Notes: Waste generated at the facility: - Flammable liquid waste - very small amount of used oil generated in the LCMS room. - Solid lab waste Univar's employee transfers the waste from the bulk waste storage tank into the 55 gallon drums. Facility generates 42 tons of waste. The

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SYNTHEGO CORP (Continued)**

**S118234074**

program elements needs to be adjusted.

Eval Division: San Mateo County Environmental Health  
Eval Program: HW  
Eval Source: CERS,

Eval General Type: Other/Unknown  
Eval Date: 10-29-2018  
Violations Found: No  
Eval Type: Other, not routine, done by local agency  
Eval Notes: Not reported

Eval Division: San Mateo County Environmental Health  
Eval Program: HMRRP  
Eval Source: CERS,

Eval General Type: Other/Unknown  
Eval Date: 11-23-2020  
Violations Found: No  
Eval Type: Other, not routine, done by local agency  
Eval Notes: HMBP

Eval Division: San Mateo County Environmental Health  
Eval Program: HMRRP  
Eval Source: CERS,

Eval General Type: Other/Unknown  
Eval Date: 12-10-2020  
Violations Found: No  
Eval Type: Other, not routine, done by local agency  
Eval Notes: Not reported

Eval Division: San Mateo County Environmental Health  
Eval Program: HW  
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection  
Eval Date: 01-04-2021  
Violations Found: Yes  
Eval Type: Routine done by local agency  
Eval Notes: Waste generated at the facility: flammable liquid, waste acetonitrile, solid lab debris.

Eval Division: San Mateo County Environmental Health  
Eval Program: HW  
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection  
Eval Date: 02-18-2016  
Violations Found: No  
Eval Type: Routine done by local agency  
Eval Notes: paul.dabrowski@synthego.com

Eval Division: San Mateo County Environmental Health  
Eval Program: HW  
Eval Source: CERS,

Eval General Type: Other/Unknown  
Eval Date: 03-06-2019  
Violations Found: No  
Eval Type: Other, not routine, done by local agency  
Eval Notes: Not reported

Eval Division: San Mateo County Environmental Health

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SYNTHEGO CORP (Continued)**

**S118234074**

Eval Program: HMRRP  
Eval Source: CERS,  
  
Eval General Type: Other/Unknown  
Eval Date: 10-18-2018  
Violations Found: No  
Eval Type: Other, not routine, done by local agency  
Eval Notes: Not reported  
Eval Division: San Mateo County Environmental Health  
Eval Program: HMRRP  
Eval Source: CERS,

Eval General Type: Other/Unknown  
Eval Date: 10-18-2018  
Violations Found: No  
Eval Type: Other, not routine, done by local agency  
Eval Notes: Facility has been a LQG since 2016 according to manifest records.  
Eval Division: San Mateo County Environmental Health  
Eval Program: HW  
Eval Source: CERS,

Eval General Type: Other/Unknown  
Eval Date: 12-15-2022  
Violations Found: No  
Eval Type: Other, not routine, done by local agency  
Eval Notes: Not reported  
Eval Division: San Mateo County Environmental Health  
Eval Program: HMRRP  
Eval Source: CERS,

Affiliation:  
Affiliation Type Desc: Environmental Contact  
Entity Name: Jake Johnson  
Entity Title: Not reported  
Affiliation Address: 3696 HAVEN AVE STE A  
Affiliation City: REDWOOD CITY  
Affiliation State: CA  
Affiliation Country: Not reported  
Affiliation Zip: 94063  
Affiliation Phone: ,

Affiliation Type Desc: Operator  
Entity Name: Paul Dabrowski  
Entity Title: Not reported  
Affiliation Address: Not reported  
Affiliation City: Not reported  
Affiliation State: Not reported  
Affiliation Country: Not reported  
Affiliation Zip: Not reported  
Affiliation Phone: (815) 342-3066,

Affiliation Type Desc: Document Preparer  
Entity Name: Trevor Longbottom  
Entity Title: Not reported  
Affiliation Address: Not reported  
Affiliation City: Not reported  
Affiliation State: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SYNTHEGO CORP (Continued)**

**S118234074**

Affiliation Country: Not reported  
Affiliation Zip: Not reported  
Affiliation Phone: ,

Affiliation Type Desc: Legal Owner  
Entity Name: SYNTHEGO CORP  
Entity Title: Not reported  
Affiliation Address: 3696 HAVEN  
Affiliation City: REDWOOD CITY  
Affiliation State: CA  
Affiliation Country: United States  
Affiliation Zip: 94063  
Affiliation Phone: (888) 611-6883,

Affiliation Type Desc: Facility Mailing Address  
Entity Name: Mailing Address  
Entity Title: Not reported  
Affiliation Address: 3696 HAVEN AVE STE A  
Affiliation City: REDWOOD CITY  
Affiliation State: CA  
Affiliation Country: Not reported  
Affiliation Zip: 94063  
Affiliation Phone: ,

Affiliation Type Desc: CUPA District  
Entity Name: San Mateo County Environmental Health  
Entity Title: Not reported  
Affiliation Address: 2000 Alameda de las Pulgas, Suite 100  
Affiliation City: San Mateo  
Affiliation State: CA  
Affiliation Country: Not reported  
Affiliation Zip: 94403  
Affiliation Phone: (650) 372-6200,

Affiliation Type Desc: Identification Signer  
Entity Name: Paul Dabrowski  
Entity Title: CEO  
Affiliation Address: Not reported  
Affiliation City: Not reported  
Affiliation State: Not reported  
Affiliation Country: Not reported  
Affiliation Zip: Not reported  
Affiliation Phone: ,

Affiliation Type Desc: Parent Corporation  
Entity Name: SYNTHEGO CORP  
Entity Title: Not reported  
Affiliation Address: Not reported  
Affiliation City: Not reported  
Affiliation State: Not reported  
Affiliation Country: Not reported  
Affiliation Zip: Not reported  
Affiliation Phone: ,

HWTS:

Name: SYNTHEGO CORP

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**SYNTHEGO CORP (Continued)**

**S118234074**

Address: 3696 HAVEN AVE STE A  
 Address 2: Not reported  
 City,State,Zip: REDWOOD CITY, CA 94063  
 EPA ID: CAL000389888  
 Inactive Date: Not reported  
 Create Date: 10/03/2013  
 Last Act Date: Not reported  
 Mailing Name: Not reported  
 Mailing Address: 3696 HAVEN AVE SUITE A  
 Mailing Address 2: Not reported  
 Mailing City,State,Zip: REDWOOD CITY, CA 940634604  
 Owner Name: PAUL DABROWSKI  
 Owner Address: 3696 HAVEN AVE SUITE A  
 Owner Address 2: Not reported  
 Owner City,State,Zip: REDWOOD CITY, CA 940634604  
 Contact Name: TREVOR LONGBOTTOM  
 Contact Address: 3696 HAVEN AVENUE SUITE A  
 Contact Address 2: Not reported  
 City,State,Zip: REDWOOD CITY, CA 94063  
 Facility Status: Active  
 Facility Type: PERMANENT  
 Category: STATE  
 Latitude: 37.484847  
 Longitude: -122.182641

**NAICS:**

EPA ID: CAL000389888  
 Create Date: 2013-10-03 16:07:47.697  
 NAICS Code: 54171  
 NAICS Description: Research and Development in the Physical, Engineering, and Life Sciences  
 Issued EPA ID Date: 2013-10-03 16:07:47.69000  
 Inactive Date: Not reported  
 Facility Name: SYNTHEGO CORP  
 Facility Address: 3696 HAVEN AVE STE A  
 Facility Address 2: Not reported  
 Facility City: REDWOOD CITY  
 Facility County: Not reported  
 Facility State: CA  
 Facility Zip: 940634604

**A21**  
**WSW**  
 < 1/8  
 0.028 mi.  
 148 ft.

**KOVIO, INC**  
**3696 HAVEN**  
**REDWOOD CITY, CA 94063**  
 Site 21 of 30 in cluster A

**CA San Mateo Co. BI S113757412**  
**N/A**

**Relative:**  
**Higher**  
**Actual:**  
 11 ft.

San Mateo Co. BI:  
 Name: KOVIO, INC  
 Address: 3696 HAVEN  
 City,State,Zip: REDWOOD CITY, CA 940634695  
 Region: SAN MATEO  
 Facility ID: FA0025915  
 Prog Element Code: STORMWATER ANNUAL INSPECTION FEE  
 Record Id: PR0041058  
 Description: STORMWATER ANNUAL FEE - INSP FREQ EVERY 2 YRS  
 Facility Status: Inactive, non-billable

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**KOVIO, INC (Continued)**

**S113757412**

Program Category: STORMWATER  
  
Name: KOVIO, INC  
Address: 3696 HAVEN  
City,State,Zip: REDWOOD CITY, CA 940634695  
Region: SAN MATEO  
Facility ID: FA0025915  
Prog Element Code: GENERATES and RECYCLES WASTE OIL/SOLVENT  
Record Id: PR0036565  
Description: GENERATES & RECYCLES WASTE OIL/SOLVENT  
Facility Status: Inactive, non-billable  
Program Category: HAZARDOUS WASTE PROGRAM

Name: KOVIO, INC  
Address: 3696 HAVEN  
City,State,Zip: REDWOOD CITY, CA 940634695  
Region: SAN MATEO  
Facility ID: FA0025915  
Prog Element Code: STORES HAZ MAT <1,199GAL,9,999LB,4,799FT3  
Record Id: PR0036566  
Description: STORES HAZ MAT <1,199GAL,9,999LB,4,799CF  
Facility Status: Inactive, non-billable  
Program Category: BUSINESS PLAN PROGRAM

**A22**  
**WSW**  
**< 1/8**  
**0.028 mi.**  
**148 ft.**

**SYNTHEGO HAVEN**  
**3696 HAVEN AVENUE**  
**REDWOOD CITY, CA 94063**

**RCRA-LQG 1007091386**  
**CA HAZNET CAR000148700**

**Site 22 of 30 in cluster A**

**Relative:**  
**Higher**  
**Actual:**  
**11 ft.**

RCRA Listings:  
Date Form Received by Agency: 20220927  
Handler Name: SYNTHEGO HAVEN  
Handler Address: 3696 HAVEN AVENUE  
Handler City,State,Zip: REDWOOD CITY, CA 94063  
EPA ID: CAR000148700  
Contact Name: TREVOR LONGBOTTOM  
Contact Address: 3696 HAVEN AVENUE  
Contact City,State,Zip: REDWOOD CITY, CA 94063  
Contact Telephone: 650-224-5207  
Contact Fax: Not reported  
Contact Email: TREVOR.LONGBOTTOM@SYNTHEGO.COM  
Contact Title: Not reported  
EPA Region: 09  
Land Type: Private  
Federal Waste Generator Description: Large Quantity Generator  
Non-Notifier: Not reported  
Biennial Report Cycle: Not reported  
Accessibility: Not reported  
Active Site Indicator: Handler Activities  
State District Owner: Not reported  
State District: Not reported  
Mailing Address: 3696 HAVEN AVENUE  
Mailing City,State,Zip: REDWOOD CITY, CA 94063  
Owner Name: PAUL DABROWSKI  
Owner Type: Private  
Operator Name: PAUL DABROWSKI  
Operator Type: Private

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**SYNTHEGO HAVEN (Continued)**

**1007091386**

Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20220928
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SYNTHEGO HAVEN (Continued)**

**1007091386**

Hazardous Waste Summary:

Waste Code: D001  
Waste Description: IGNITABLE WASTE

Waste Code: D002  
Waste Description: CORROSIVE WASTE

Waste Code: D003  
Waste Description: REACTIVE WASTE

Waste Code: D009  
Waste Description: MERCURY

Waste Code: D011  
Waste Description: SILVER

Waste Code: D019  
Waste Description: CARBON TETRACHLORIDE

Waste Code: D022  
Waste Description: CHLOROFORM

Waste Code: D038  
Waste Description: PYRIDINE

Waste Code: F002  
Waste Description: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2, TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste Code: F003  
Waste Description: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste Code: F005  
Waste Description: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SYNTHEGO HAVEN (Continued)**

**1007091386**

Handler - Owner Operator:

Owner/Operator Indicator: Owner  
Owner/Operator Name: CHEMOCENTRYX  
Legal Status: Private  
Date Became Current: 20030915  
Date Ended Current: Not reported  
Owner/Operator Address: Not reported  
Owner/Operator City,State,Zip: Not reported  
Owner/Operator Telephone: Not reported  
Owner/Operator Telephone Ext: Not reported  
Owner/Operator Fax: Not reported  
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner  
Owner/Operator Name: PAUL DABROWSKI  
Legal Status: Private  
Date Became Current: 20220228  
Date Ended Current: Not reported  
Owner/Operator Address: 3696 HAVEN AVENUE  
Owner/Operator City,State,Zip: REDWOOD CITY, CA 94063  
Owner/Operator Telephone: 650-549-1154  
Owner/Operator Telephone Ext: Not reported  
Owner/Operator Fax: Not reported  
Owner/Operator Email: PAUL.DABROWSKI@SYNTHEGO.COM

Owner/Operator Indicator: Operator  
Owner/Operator Name: PAUL DABROWSKI  
Legal Status: Private  
Date Became Current: 20220228  
Date Ended Current: Not reported  
Owner/Operator Address: 3696 HAVEN AVENUE  
Owner/Operator City,State,Zip: REDWOOD CITY, CA 94063  
Owner/Operator Telephone: 650-549-1154  
Owner/Operator Telephone Ext: Not reported  
Owner/Operator Fax: Not reported  
Owner/Operator Email: PAUL.DABROWSKI@SYNTHEGO.COM

Owner/Operator Indicator: Owner  
Owner/Operator Name: PAUL DABROWSKI  
Legal Status: Private  
Date Became Current: Not reported  
Date Ended Current: Not reported  
Owner/Operator Address: 3696 HAVEN AVENUE  
Owner/Operator City,State,Zip: REDWOOD CITY, CA 94063  
Owner/Operator Telephone: Not reported  
Owner/Operator Telephone Ext: Not reported  
Owner/Operator Fax: Not reported  
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator  
Owner/Operator Name: PAUL DABROWSKI  
Legal Status: Private  
Date Became Current: Not reported  
Date Ended Current: Not reported  
Owner/Operator Address: 3696 HAVEN AVENUE  
Owner/Operator City,State,Zip: REDWOOD CITY, CA 94063  
Owner/Operator Telephone: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SYNTHEGO HAVEN (Continued)**

**1007091386**

Owner/Operator Telephone Ext: Not reported  
Owner/Operator Fax: Not reported  
Owner/Operator Email: Not reported  
  
Owner/Operator Indicator: Operator  
Owner/Operator Name: CHEMOCENTRYX  
Legal Status: Private  
Date Became Current: 20030915  
Date Ended Current: Not reported  
Owner/Operator Address: Not reported  
Owner/Operator City,State,Zip: Not reported  
Owner/Operator Telephone: Not reported  
Owner/Operator Telephone Ext: Not reported  
Owner/Operator Fax: Not reported  
Owner/Operator Email: Not reported

Historic Generators:

Receive Date: 20030826  
Handler Name: CHEMOCENTRYX  
Federal Waste Generator Description: Small Quantity Generator  
State District Owner: Not reported  
Large Quantity Handler of Universal Waste: No  
Recognized Trader Importer: No  
Recognized Trader Exporter: No  
Spent Lead Acid Battery Importer: No  
Spent Lead Acid Battery Exporter: No  
Current Record: No  
Non Storage Recycler Activity: Not reported  
Electronic Manifest Broker: Not reported

Receive Date: 20200826  
Handler Name: SYNTHEGO HAVEN  
Federal Waste Generator Description: Large Quantity Generator  
State District Owner: Not reported  
Large Quantity Handler of Universal Waste: No  
Recognized Trader Importer: No  
Recognized Trader Exporter: No  
Spent Lead Acid Battery Importer: No  
Spent Lead Acid Battery Exporter: No  
Current Record: No  
Non Storage Recycler Activity: No  
Electronic Manifest Broker: No

Receive Date: 20220927  
Handler Name: SYNTHEGO HAVEN  
Federal Waste Generator Description: Large Quantity Generator  
State District Owner: Not reported  
Large Quantity Handler of Universal Waste: No  
Recognized Trader Importer: No  
Recognized Trader Exporter: No  
Spent Lead Acid Battery Importer: No  
Spent Lead Acid Battery Exporter: No  
Current Record: Yes  
Non Storage Recycler Activity: No  
Electronic Manifest Broker: No

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SYNTHEGO HAVEN (Continued)**

**1007091386**

List of NAICS Codes and Descriptions:

NAICS Code: 54171  
NAICS Description: RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES

Facility Has Received Notices of Violations:

Violations: No Violations Found

Evaluation Action Summary:

Evaluations: No Evaluations Found

HAZNET:

Name: CHEMOCENTRYX  
Address: 3696 HAVEN AVE STE B  
Address 2: Not reported  
City,State,Zip: REDWOOD CITY, CA 940630000  
Contact: DALE NEWLAND  
Telephone: 6504134831  
Mailing Name: Not reported  
Mailing Address: 850 MAUDE AVE

Year: 2004  
Gepaid: CAR000148700  
TSD EPA ID: CAD044429835  
CA Waste Code: 212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.)  
Disposal Method: R01 - Recycler  
Tons: 0.231

Year: 2004  
Gepaid: CAR000148700  
TSD EPA ID: CAD980884183  
CA Waste Code: 551 - Laboratory waste chemicals  
Disposal Method: -  
Tons: 0.0055

Year: 2004  
Gepaid: CAR000148700  
TSD EPA ID: CAD980884183  
CA Waste Code: 551 - Laboratory waste chemicals  
Disposal Method: H01 - Transfer Station  
Tons: 0.0055

Additional Info:

Year: 2004  
Gen EPA ID: CAR000148700

Shipment Date: Not reported  
Creation Date: Not reported  
Receipt Date: Not reported  
Manifest ID: 24275712  
Trans EPA ID: CAD983649880  
Trans Name: GENERAL ENVIRONMENTAL MANAGEMENT  
Trans 2 EPA ID: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SYNTHEGO HAVEN (Continued)**

**1007091386**

Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980884183
Trans Name:	GENERAL ENVIRONMENTAL MANAGEMENT
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	CA55 - Not reported
RCRA Code:	U044
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.0125
Waste Quantity:	25
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	Not reported
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	24275712
Trans EPA ID:	CAD983649880
Trans Name:	GENERAL ENVIRONMENTAL MANAGEMENT
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980884183
Trans Name:	GENERAL ENVIRONMENTAL MANAGEMENT
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	CA55 - Not reported
RCRA Code:	D001
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.005
Waste Quantity:	10
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	Not reported
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	24275712
Trans EPA ID:	CAD983649880
Trans Name:	GENERAL ENVIRONMENTAL MANAGEMENT
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980884183
Trans Name:	GENERAL ENVIRONMENTAL MANAGEMENT
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	CA55 - Not reported
RCRA Code:	D001
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.0035

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SYNTHEGO HAVEN (Continued)**

**1007091386**

Waste Quantity:	7
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	Not reported
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	24275712
Trans EPA ID:	CAD983649880
Trans Name:	GENERAL ENVIRONMENTAL MANAGEMENT
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDf EPA ID:	CAD980884183
Trans Name:	GENERAL ENVIRONMENTAL MANAGEMENT
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	CA55 - Not reported
RCRA Code:	D001
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.0325
Waste Quantity:	65
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	Not reported
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	24275712
Trans EPA ID:	CAD983649880
Trans Name:	GENERAL ENVIRONMENTAL MANAGEMENT
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDf EPA ID:	CAD980884183
Trans Name:	GENERAL ENVIRONMENTAL MANAGEMENT
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	CA55 - Not reported
RCRA Code:	D002
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.004
Waste Quantity:	8
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SYNTHEGO HAVEN (Continued)**

**1007091386**

Creation Date: Not reported  
Receipt Date: Not reported  
Manifest ID: 24275712  
Trans EPA ID: CAD983649880  
Trans Name: GENERAL ENVIRONMENTAL MANAGEMENT  
Trans 2 EPA ID: Not reported  
Trans 2 Name: Not reported  
TSDf EPA ID: CAD980884183  
Trans Name: GENERAL ENVIRONMENTAL MANAGEMENT  
TSDf Alt EPA ID: Not reported  
TSDf Alt Name: Not reported  
Waste Code Description: CA55 - Not reported  
RCRA Code: D003  
Meth Code: H01 - Transfer Station  
Quantity Tons: 0.005  
Waste Quantity: 10  
Quantity Unit: P  
Additional Code 1: Not reported  
Additional Code 2: Not reported  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported

Shipment Date: Not reported  
Creation Date: Not reported  
Receipt Date: Not reported  
Manifest ID: 24275712  
Trans EPA ID: CAD983649880  
Trans Name: GENERAL ENVIRONMENTAL MANAGEMENT  
Trans 2 EPA ID: Not reported  
Trans 2 Name: Not reported  
TSDf EPA ID: CAD980884183  
Trans Name: GENERAL ENVIRONMENTAL MANAGEMENT  
TSDf Alt EPA ID: Not reported  
TSDf Alt Name: Not reported  
Waste Code Description: CA55 - Not reported  
RCRA Code: D001  
Meth Code: H01 - Transfer Station  
Quantity Tons: 0.004  
Waste Quantity: 8  
Quantity Unit: P  
Additional Code 1: Not reported  
Additional Code 2: Not reported  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported

Shipment Date: Not reported  
Creation Date: Not reported  
Receipt Date: Not reported  
Manifest ID: 24275712  
Trans EPA ID: CAD983649880  
Trans Name: GENERAL ENVIRONMENTAL MANAGEMENT  
Trans 2 EPA ID: Not reported  
Trans 2 Name: Not reported  
TSDf EPA ID: CAD980884183  
Trans Name: GENERAL ENVIRONMENTAL MANAGEMENT

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SYNTHEGO HAVEN (Continued)**

**1007091386**

TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	CA55 - Not reported
RCRA Code:	D001
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.0025
Waste Quantity:	5
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	Not reported
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	24275712
Trans EPA ID:	CAD983649880
Trans Name:	GENERAL ENVIRONMENTAL MANAGEMENT
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDf EPA ID:	CAD980884183
Trans Name:	GENERAL ENVIRONMENTAL MANAGEMENT
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	CA55 - Not reported
RCRA Code:	NONE
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.0025
Waste Quantity:	5
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20040919
Creation Date:	1/11/2005 18:31:27
Receipt Date:	20040923
Manifest ID:	24275712
Trans EPA ID:	CAD983649880
Trans Name:	GENERAL ENVIRONMENTAL MANAGEMENT
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDf EPA ID:	CAD980884183
Trans Name:	GENERAL ENVIRONMENTAL MANAGEMENT
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D002
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.0005
Waste Quantity:	1
Quantity Unit:	P
Additional Code 1:	Not reported



Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**SYNTHEGO HAVEN (Continued)**

**1007091386**

Additional Code 2: Not reported  
 Additional Code 3: Not reported  
 Additional Code 4: Not reported  
 Additional Code 5: Not reported

**A23**  
**WSW**  
**< 1/8**  
**0.028 mi.**  
**148 ft.**

**SYNTHEGO CORP**  
**3696 HAVEN AVE, SUITE A**  
**REDWOOD CITY, CA 94063**

**RCRA-LQG**

**1024840730**  
**CAL000389888**

**Site 23 of 30 in cluster A**

**Relative:**  
**Higher**  
**Actual:**  
**11 ft.**

RCRA Listings:  
 Date Form Received by Agency: 20181114  
 Handler Name: SYNTHEGO CORP  
 Handler Address: 3696 HAVEN AVE, SUITE A  
 Handler City,State,Zip: REDWOOD CITY, CA 94063-4604  
 EPA ID: CAL000389888  
 Contact Name: OMAR KURDI  
 Contact Address: HAVEN AVE, SUITE A  
 Contact City,State,Zip: REDWOOD CITY, CA 94063-4604  
 Contact Telephone: 888-611-6883 x708  
 Contact Fax: Not reported  
 Contact Email: OMAR.KURDI@SYNTHEGO.COM  
 Contact Title: VP OPERATIONS  
 EPA Region: 09  
 Land Type: Private  
 Federal Waste Generator Description: Large Quantity Generator  
 Non-Notifier: Not reported  
 Biennial Report Cycle: 2017  
 Accessibility: Not reported  
 Active Site Indicator: Handler Activities  
 State District Owner: Not reported  
 State District: Not reported  
 Mailing Address: HAVEN AVE, SUITE A  
 Mailing City,State,Zip: REDWOOD CITY, CA 94063-4604  
 Owner Name: HAVEN AVE, LLC C/O H&S INC.  
 Owner Type: Private  
 Operator Name: SYNTHEGO CORP  
 Operator Type: Private  
 Short-Term Generator Activity: No  
 Importer Activity: No  
 Mixed Waste Generator: No  
 Transporter Activity: No  
 Transfer Facility Activity: No  
 Recycler Activity with Storage: No  
 Small Quantity On-Site Burner Exemption: No  
 Smelting Melting and Refining Furnace Exemption: No  
 Underground Injection Control: No  
 Off-Site Waste Receipt: No  
 Universal Waste Indicator: No  
 Universal Waste Destination Facility: No  
 Federal Universal Waste: No  
 Active Site Fed-Reg Treatment Storage and Disposal Facility: Not reported  
 Active Site Converter Treatment storage and Disposal Facility: Not reported  
 Active Site State-Reg Treatment Storage and Disposal Facility: Not reported  
 Active Site State-Reg Handler: ---  
 Federal Facility Indicator: Not reported  
 Hazardous Secondary Material Indicator: N

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**SYNTHEGO CORP (Continued)**

**1024840730**

Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20181126
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Biennial: List of Years

Year: 2017

[Click Here for Biennial Reporting System Data:](#)

Hazardous Waste Summary:

Waste Code:	D001
Waste Description:	IGNITABLE WASTE
Waste Code:	D002
Waste Description:	CORROSIVE WASTE
Waste Code:	D038
Waste Description:	PYRIDINE
Waste Code:	F002
Waste Description:	THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE,

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SYNTHEGO CORP (Continued)**

**1024840730**

ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2, TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste Code: F003  
Waste Description: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste Code: F005  
Waste Description: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Handler - Owner Operator:  
Owner/Operator Indicator: Owner  
Owner/Operator Name: HAVEN AVE, LLC C/O H&S INC.  
Legal Status: Private  
Date Became Current: 20171201  
Date Ended Current: Not reported  
Owner/Operator Address: 431 BURGESS DR, SUITE 200  
Owner/Operator City,State,Zip: MENLO PARK, CA 94025  
Owner/Operator Telephone: 650-322-2121  
Owner/Operator Telephone Ext: Not reported  
Owner/Operator Fax: Not reported  
Owner/Operator Email: MARCI@HSPROPERTIES.COM

Owner/Operator Indicator: Operator  
Owner/Operator Name: SYNTHEGO CORP  
Legal Status: Private  
Date Became Current: 20130606  
Date Ended Current: Not reported  
Owner/Operator Address: 3696 HAVEN AVE, SUITE A  
Owner/Operator City,State,Zip: REDWOOD CITY, CA 94063-4604  
Owner/Operator Telephone: 888-611-6883  
Owner/Operator Telephone Ext: 708  
Owner/Operator Fax: Not reported  
Owner/Operator Email: OMAR.KURDI@SYNTHEGO.COM

Historic Generators:  
Receive Date: 20181114  
Handler Name: SYNTHEGO CORP

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**SYNTHEGO CORP (Continued)**

**1024840730**

Federal Waste Generator Description:	Large Quantity Generator
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	No
Electronic Manifest Broker:	No

List of NAICS Codes and Descriptions:

NAICS Code:	541714
NAICS Description:	RESEARCH AND DEVELOPMENT IN BIOTECHNOLOGY (EXCEPT NANOBIOLOGY)

Facility Has Received Notices of Violations:

Violations:	No Violations Found
-------------	---------------------

Evaluation Action Summary:

Evaluations:	No Evaluations Found
--------------	----------------------

**A24**  
**WSW**  
**< 1/8**  
**0.028 mi.**  
**148 ft.**

**ENVIVO PHARMACEUTICALS**  
**3696C HAVEN**  
**REDWOOD CITY, CA 94063**  
**Site 24 of 30 in cluster A**

**CA San Mateo Co. BI S113757674**  
**N/A**

**Relative:**  
**Higher**  
**Actual:**  
**11 ft.**

San Mateo Co. BI:	
Name:	ENVIVO PHARMACEUTICALS
Address:	3696C HAVEN
City,State,Zip:	REDWOOD CITY, CA 94063
Region:	SAN MATEO
Facility ID:	FA0027179
Prog Element Code:	STORMWATER ANNUAL INSPECTION FEE
Record Id:	PR0042854
Description:	STORMWATER ANNUAL FEE - INSP FREQ EVERY 2 YRS
Facility Status:	Inactive, non-billable
Program Category:	STORMWATER
Name:	ENVIVO PHARMACEUTICALS
Address:	3696C HAVEN
City,State,Zip:	REDWOOD CITY, CA 94063
Region:	SAN MATEO
Facility ID:	FA0027179
Prog Element Code:	GENERATES and RECYCLES WASTE OIL/SOLVENT
Record Id:	PR0042852
Description:	GENERATES & RECYCLES WASTE OIL/SOLVENT
Facility Status:	Inactive, non-billable
Program Category:	HAZARDOUS WASTE PROGRAM

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**A25**  
**WSW**  
**< 1/8**  
**0.028 mi.**  
**148 ft.**

**NANOSTELLAR INC**  
**3696 HAVEN**  
**REDWOOD CITY, CA 94063**

**Site 25 of 30 in cluster A**

**CA San Mateo Co. BI**    **S113758185**  
**N/A**

**Relative:**  
**Higher**

**Actual:**  
**11 ft.**

San Mateo Co. BI:  
Name: NANOSTELLAR INC  
Address: 3696 HAVEN  
City,State,Zip: REDWOOD CITY, CA 94063  
Region: SAN MATEO  
Facility ID: FA0029703  
Prog Element Code: STORMWATER ANNUAL INSPECTION FEE  
Record Id: PR0051097  
Description: STORMWATER ANNUAL FEE - INSP FREQ EVERY 2 YRS  
Facility Status: Inactive, non-billable  
Program Category: STORMWATER

Name: NANOSTELLAR INC  
Address: 3696 HAVEN  
City,State,Zip: REDWOOD CITY, CA 94063  
Region: SAN MATEO  
Facility ID: FA0029703  
Prog Element Code: GENERATES <27 GAL/YEAR  
Record Id: PR0051096  
Description: GENERATES <27 GAL/YEAR  
Facility Status: Inactive, non-billable  
Program Category: HAZARDOUS WASTE PROGRAM

Name: NANOSTELLAR INC  
Address: 3696 HAVEN  
City,State,Zip: REDWOOD CITY, CA 94063  
Region: SAN MATEO  
Facility ID: FA0029703  
Prog Element Code: STORES HAZ MAT <1,199GAL,9,999LB,4,799FT3  
Record Id: PR0051095  
Description: STORES HAZ MAT <1,199GAL,9,999LB,4,799CF  
Facility Status: Inactive, non-billable  
Program Category: BUSINESS PLAN PROGRAM

**A26**  
**WSW**  
**< 1/8**  
**0.028 mi.**  
**148 ft.**

**UBIQUITOUS ENERGY**  
**3696 HAVEN**  
**REDWOOD CITY, CA 94063**

**Site 26 of 30 in cluster A**

**CA San Mateo Co. BI**    **S119781839**  
**N/A**

**Relative:**  
**Higher**

**Actual:**  
**11 ft.**

San Mateo Co. BI:  
Name: UBIQUITOUS ENERGY  
Address: 3696 HAVEN  
City,State,Zip: REDWOOD CITY, CA 94063  
Region: SAN MATEO  
Facility ID: FA0061020  
Prog Element Code: STORMWATER ANNUAL INSPECTION FEE  
Record Id: PR0083658  
Description: STORMWATER ANNUAL FEE - INSP FREQ EVERY 2 YRS  
Facility Status: Inactive, non-billable  
Program Category: STORMWATER

Name: UBIQUITOUS ENERGY  
Address: 3696 HAVEN

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**UBIQUITOUS ENERGY (Continued)**

**S119781839**

City,State,Zip: REDWOOD CITY, CA 94063  
Region: SAN MATEO  
Facility ID: FA0061020  
Prog Element Code: STORES HAZ MAT <1,199GAL,9,999LB,4,799FT3  
Record Id: PR0083657  
Description: STORES HAZ MAT <1,199GAL,9,999LB,4,799CF  
Facility Status: Active, billable  
Program Category: BUSINESS PLAN PROGRAM

Name: UBIQUITOUS ENERGY  
Address: 3696 HAVEN  
City,State,Zip: REDWOOD CITY, CA 94063  
Region: SAN MATEO  
Facility ID: FA0061020  
Prog Element Code: GEN <1 TONS HAZ WASTE/YR  
Record Id: PR0083656  
Description: GEN <1 TONS HAZ WASTE/YR  
Facility Status: Active, billable  
Program Category: HAZARDOUS WASTE PROGRAM

**A27**  
**WSW**  
**< 1/8**  
**0.028 mi.**  
**148 ft.**

**ALDEA PHARMACEUTICALS**  
**3696 HAVEN**  
**REDWOOD CITY, CA 94063**

**CA San Mateo Co. BI S113759096**  
**N/A**

**Site 27 of 30 in cluster A**

**Relative:**  
**Higher**  
**Actual:**  
**11 ft.**

San Mateo Co. BI:  
Name: ALDEA PHARMACEUTICALS  
Address: 3696 HAVEN  
City,State,Zip: REDWOOD CITY, CA 94063  
Region: SAN MATEO  
Facility ID: FA0052607  
Prog Element Code: STORMWATER ANNUAL INSPECTION FEE  
Record Id: PR0072924  
Description: STORMWATER ANNUAL FEE - INSP FREQ EVERY 2 YRS  
Facility Status: Inactive, non-billable  
Program Category: STORMWATER

Name: ALDEA PHARMACEUTICALS  
Address: 3696 HAVEN  
City,State,Zip: REDWOOD CITY, CA 94063  
Region: SAN MATEO  
Facility ID: FA0052607  
Prog Element Code: SML QUANTITY GENERATOR(1-199lbs/Mo) OFF-SITE  
Record Id: PR0072932  
Description: SQG OFF-SITE TREATMENT (1-199 LB/MO)  
Facility Status: Inactive, non-billable  
Program Category: MEDICAL WASTE

Name: ALDEA PHARMACEUTICALS  
Address: 3696 HAVEN  
City,State,Zip: REDWOOD CITY, CA 94063  
Region: SAN MATEO  
Facility ID: FA0052607  
Prog Element Code: GENERATES <27 GAL/YEAR  
Record Id: PR0072923  
Description: GENERATES <27 GAL/YEAR  
Facility Status: Inactive, non-billable

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ALDEA PHARMACEUTICALS (Continued)**

**S113759096**

Program Category: HAZARDOUS WASTE PROGRAM

Name: ALDEA PHARMACEUTICALS  
Address: 3696 HAVEN  
City,State,Zip: REDWOOD CITY, CA 94063  
Region: SAN MATEO  
Facility ID: FA0052607  
Prog Element Code: STORES HAZ MAT <219GAL,1,999LB, 879FT3  
Record Id: PR0072922  
Description: STORES HAZ MAT <219GAL,1,999LB, 879CF  
Facility Status: Inactive, non-billable  
Program Category: BUSINESS PLAN PROGRAM

Name: SYNTHEGO CORP  
Address: 3696 HAVEN  
City,State,Zip: REDWOOD CITY, CA 94063  
Region: SAN MATEO  
Facility ID: FA0054063  
Prog Element Code: STORMWATER ANNUAL INSPECTION FEE  
Record Id: PR0074701  
Description: STORMWATER ANNUAL FEE - INSP FREQ EVERY 2 YRS  
Facility Status: Inactive, non-billable  
Program Category: STORMWATER

Name: SYNTHEGO CORP  
Address: 3696 HAVEN  
City,State,Zip: REDWOOD CITY, CA 94063  
Region: SAN MATEO  
Facility ID: FA0054063  
Prog Element Code: STORES HAZ MAT <1,199GAL,9,999LB,4,799FT3  
Record Id: PR0074699  
Description: STORES HAZ MAT <1,199GAL,9,999LB,4,799CF  
Facility Status: Active, billable  
Program Category: BUSINESS PLAN PROGRAM

Name: SYNTHEGO CORP  
Address: 3696 HAVEN  
City,State,Zip: REDWOOD CITY, CA 94063  
Region: SAN MATEO  
Facility ID: FA0054063  
Prog Element Code: GEN 26-50 TONS HAZ WASTE /YR  
Record Id: PR0074700  
Description: GEN 26-50 TONS HAZ WASTE /YR  
Facility Status: Active, billable  
Program Category: HAZARDOUS WASTE PROGRAM

**A28**  
**WSW**  
**< 1/8**  
**0.028 mi.**  
**148 ft.**

**UBIQUITOUS ENERGY INC**  
**3696 HAVEN AVE STE B**  
**REDWOOD CITY, CA 94063**  
**Site 28 of 30 in cluster A**

**RCRA NonGen / NLR** **1024848236**  
**CAL000403676**

**Relative:**  
**Higher**  
**Actual:**  
**11 ft.**

RCRA Listings:  
Date Form Received by Agency: 20150114  
Handler Name: UBIQUITOUS ENERGY INC  
Handler Address: 3696 HAVEN AVE STE B  
Handler City,State,Zip: REDWOOD CITY, CA 94063-4604  
EPA ID: CAL000403676

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**UBIQUITOUS ENERGY INC (Continued)**

**1024848236**

Contact Name:	SASHA GO PAO
Contact Address:	3696 HAVEN AVE STE B
Contact City,State,Zip:	REDWOOD CITY, CA 94063
Contact Telephone:	650-257-3847
Contact Fax:	Not reported
Contact Email:	ADMIN@UBIQUITOUS.ENERGY
Contact Title:	Not reported
EPA Region:	09
Land Type:	Not reported
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	3696 HAVEN AVE STE B
Mailing City,State,Zip:	REDWOOD CITY, CA 94063-4604
Owner Name:	UBIQUITOUS ENERGY INC
Owner Type:	Other
Operator Name:	SASHA GO PAO
Operator Type:	Other
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	Yes
Universal Waste Destination Facility:	Yes
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**UBIQUITOUS ENERGY INC (Continued)**

**1024848236**

Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20180906
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

**Handler - Owner Operator:**

Owner/Operator Indicator:	Operator
Owner/Operator Name:	SASHA GO PAO
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	3696 HAVEN AVE STE B
Owner/Operator City,State,Zip:	REDWOOD CITY, CA 94063
Owner/Operator Telephone:	650-257-3847
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	UBIQUITOUS ENERGY INC
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	3696 HAVEN AVE STE B
Owner/Operator City,State,Zip:	REDWOOD CITY, CA 94063-4604
Owner/Operator Telephone:	650-257-3847
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

**Historic Generators:**

Receive Date:	20150114
Handler Name:	UBIQUITOUS ENERGY INC
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**UBIQUITOUS ENERGY INC (Continued)**

**1024848236**

Spent Lead Acid Battery Exporter: No  
 Current Record: Yes  
 Non Storage Recycler Activity: Not reported  
 Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:

NAICS Code: 334413  
 NAICS Description: SEMICONDUCTOR AND RELATED DEVICE MANUFACTURING

Facility Has Received Notices of Violations:

Violations: No Violations Found

Evaluation Action Summary:

Evaluations: No Evaluations Found

**A29**  
**WSW**  
**< 1/8**  
**0.028 mi.**  
**148 ft.**

**SUNESIS PHARMACEUTICAL**  
**3696C HAVEN AVE**  
**REDWOOD CITY, CA 94063**

**RCRA-SQG 1000151475**  
**NY MANIFEST CAD981398563**

**Site 29 of 30 in cluster A**

**Relative:**  
**Higher**  
**Actual:**  
**11 ft.**

RCRA Listings:  
 Date Form Received by Agency: 19980701  
 Handler Name: SUNESIS PHARMACEUTICAL  
 Handler Address: 3696C HAVEN AVE  
 Handler City,State,Zip: REDWOOD CITY, CA 94063-4695  
 EPA ID: CAD981398563  
 Contact Name: MATT PLUNKETT  
 Contact Address: 3696 HAVEN AVE STE C  
 Contact City,State,Zip: REDWOOD CITY, CA 94063-4695  
 Contact Telephone: 650-556-8800  
 Contact Fax: Not reported  
 Contact Email: Not reported  
 Contact Title: Not reported  
 EPA Region: 09  
 Land Type: Private  
 Federal Waste Generator Description: Small Quantity Generator  
 Non-Notifier: Not reported  
 Biennial Report Cycle: Not reported  
 Accessibility: Not reported  
 Active Site Indicator: Handler Activities  
 State District Owner: Not reported  
 State District: Not reported  
 Mailing Address: 3696 HAVEN AVE STE C  
 Mailing City,State,Zip: REDWOOD CITY, CA 94063-4695  
 Owner Name: SUNESIS PHARMACEUTICAL  
 Owner Type: Private  
 Operator Name: Not reported  
 Operator Type: Not reported  
 Short-Term Generator Activity: No  
 Importer Activity: No  
 Mixed Waste Generator: No  
 Transporter Activity: No  
 Transfer Facility Activity: No  
 Recycler Activity with Storage: No

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**SUNESIS PHARMACEUTICAL (Continued)**

**1000151475**

Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20021007
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Hazardous Waste Summary:

Waste Code:	D001
Waste Description:	IGNITABLE WASTE
Waste Code:	D002
Waste Description:	CORROSIVE WASTE

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SUNESIS PHARMACEUTICAL (Continued)**

**1000151475**

Waste Code: D011  
Waste Description: SILVER

Waste Code: F001  
Waste Description: THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLOROETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE AND CHLORINATED FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste Code: F002  
Waste Description: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2, TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste Code: F003  
Waste Description: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste Code: F005  
Waste Description: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name: NOT REQUIRED	
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	NOT REQUIRED
Owner/Operator City,State,Zip:	NOT REQUIRED, ME 99999
Owner/Operator Telephone:	415-555-1212
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SUNESIS PHARMACEUTICAL (Continued)**

1000151475

Owner/Operator Indicator: Owner  
Owner/Operator Name: SUNESIS PHARMACEUTICAL  
Legal Status: Private  
Date Became Current: Not reported  
Date Ended Current: Not reported  
Owner/Operator Address: 3696 HAVEN AVE STE C  
Owner/Operator City,State,Zip: REDWOOD CITY, CA 94063-4695  
Owner/Operator Telephone: 650-556-8800  
Owner/Operator Telephone Ext: Not reported  
Owner/Operator Fax: Not reported  
Owner/Operator Email: Not reported

Historic Generators:

Receive Date: 19960901  
Handler Name: SUNESIS PHARMACEUTICAL  
Federal Waste Generator Description: Small Quantity Generator  
State District Owner: Not reported  
Large Quantity Handler of Universal Waste: No  
Recognized Trader Importer: No  
Recognized Trader Exporter: No  
Spent Lead Acid Battery Importer: No  
Spent Lead Acid Battery Exporter: No  
Current Record: No  
Non Storage Recycler Activity: Not reported  
Electronic Manifest Broker: Not reported

Receive Date: 19980701  
Handler Name: SUNESIS PHARMACEUTICAL  
Federal Waste Generator Description: Small Quantity Generator  
State District Owner: Not reported  
Large Quantity Handler of Universal Waste: No  
Recognized Trader Importer: No  
Recognized Trader Exporter: No  
Spent Lead Acid Battery Importer: No  
Spent Lead Acid Battery Exporter: No  
Current Record: Yes  
Non Storage Recycler Activity: Not reported  
Electronic Manifest Broker: Not reported

Receive Date: 19910805  
Handler Name: ADVANCE POLYMER SYSTEMS, INC  
Federal Waste Generator Description: Large Quantity Generator  
State District Owner: Not reported  
Large Quantity Handler of Universal Waste: No  
Recognized Trader Importer: No  
Recognized Trader Exporter: No  
Spent Lead Acid Battery Importer: No  
Spent Lead Acid Battery Exporter: No  
Current Record: No  
Non Storage Recycler Activity: Not reported  
Electronic Manifest Broker: Not reported

Receive Date: 19920306  
Handler Name: ADVANCED POLYMER SYSTEMS, INC  
Federal Waste Generator Description: Large Quantity Generator  
State District Owner: Not reported  
Large Quantity Handler of Universal Waste: No

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SUNESIS PHARMACEUTICAL (Continued)**

1000151475

Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:

NAICS Code:	325211
NAICS Description:	PLASTICS MATERIAL AND RESIN MANUFACTURING
NAICS Code:	325212
NAICS Description:	SYNTHETIC RUBBER MANUFACTURING
NAICS Code:	325412
NAICS Description:	PHARMACEUTICAL PREPARATION MANUFACTURING
NAICS Code:	325414
NAICS Description:	BIOLOGICAL PRODUCT (EXCEPT DIAGNOSTIC) MANUFACTURING

Facility Has Received Notices of Violation:

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SUNESIS PHARMACEUTICAL (Continued)**

**1000151475**

Paid Amount: Not reported  
Final Count: Not reported  
Final Amount: Not reported

Evaluation Action Summary:

Evaluation Date: 19930824  
Evaluation Responsible Agency: State Contractor/Grantee  
Found Violation: No  
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Evaluation Responsible Person Identifier: R9  
Evaluation Responsible Sub-Organization: Not reported  
Actual Return to Compliance Date: Not reported  
Scheduled Compliance Date: Not reported  
Date of Request: Not reported  
Date Response Received: Not reported  
Request Agency: Not reported  
Former Citation: Not reported

NY MANIFEST:

Name: ADVANCED POLYMER SYSTEMS  
Address: 3696 HAVEN AVE.  
City,State,Zip: REDWOOD CITY, CA 94063  
Country: USA  
EPA ID: CAD981398563  
Facility Status: Not reported  
Location Address 1: 3696 HAVEN AVENUE  
Code: BP  
Location Address 2: Not reported  
Total Tanks: Not reported  
Location City: REDWOOD CITY  
Location State: CA  
Location Zip: 94063  
Location Zip 4: Not reported

NY MANIFEST:

EPAID: CAD981398563  
Mailing Name: ADVANCED POLYMER SYSTEMS  
Mailing Contact: ADVANCED POLYMER SYSTEMS  
Mailing Address 1: 3696 HAVEN AVENUE  
Mailing Address 2: Not reported  
Mailing City: REDWOOD CITY  
Mailing State: CA  
Mailing Zip: 94063  
Mailing Zip 4: Not reported  
Mailing Country: USA  
Mailing Phone: 4153662626

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**A30**  
**NE**  
 < 1/8  
 0.030 mi.  
 160 ft.

**KOB AUTO INC**  
**37.48609/-122.18156**  
**MENLO PARK, CA**  
**Site 30 of 30 in cluster A**

**PFAS ECHO 1027379347**  
**N/A**

**Relative:**  
**Lower**  
**Actual:**  
**9 ft.**

PFAS ECHO:

Name:	KOB AUTO INC
Address:	37.48609/-122.18156
City,State,Zip:	MENLO PARK, CA
Latitude:	37.48609
Longitude:	-122.18156
Count:	-1
County:	SAN MATEO
Status:	Active
Region:	09
Industry:	Electronics Industry
ECHO Facility Report:	<a href="https://echo.epa.gov/detailed-facility-report?fid=110002412540">https://echo.epa.gov/detailed-facility-report?fid=110002412540</a>
Facility Percent Minority:	66.259
Facility Derived Tribes:	Not reported
Facility Population:	4640.1
EJSCREEN Flag US:	N
EJSCREEN Report:	<a href="https://ejscreen.epa.gov/mapper/mobile/EJSCREEN_mobile.aspx?geometry=%7B%22x%22:-122.18156,%22y%22:37.48609,%22spatialReference%22:%7B%22wkid%22:4326%7D%7D&amp;unit=9035&amp;areatype=&amp;areaid=&amp;basemap=streets&amp;distance=1">https://ejscreen.epa.gov/mapper/mobile/EJSCREEN_mobile.aspx?geometry=%7B%22x%22:-122.18156,%22y%22:37.48609,%22spatialReference%22:%7B%22wkid%22:4326%7D%7D&amp;unit=9035&amp;areatype=&amp;areaid=&amp;basemap=streets&amp;distance=1</a>
EPA Programs:	RCRA
Federal Facility:	No
Federal Agency:	Not reported
Facility FIPS Code:	06081
Facility Indian Country Flag:	N
Facility Collection Method:	ADDRESS MATCHING-HOUSE NUMBER
Facility Derived HUC:	18050004
Facility Derived WBD:	180500040902
Facility Derived CD113:	14
Facility Derived CB2010:	060816117004019
Facility Major Flag:	Not reported
Facility Active Flag:	Y
Facility Inspection Count:	0
Facility Date Last Inspection:	3/15/1985
Facility Days Last Inspection:	13,441
Facility Informal Count:	0
Facility Date Last Informal Action:	9/26/1984
Facility Formal Action Count:	0
Facility Date Last Formal Action:	Not reported
Facility Total Penalties:	0
Facility Penalty Count:	Not reported
Facility Date Last Penalty:	Not reported
Facility Last Penalty AMT:	Not reported
Facility QTRS With NC:	0
Facility Programs With SNC:	0
Facility Compliance Status:	No Violation Identified
Facility SNC Flag:	N
AIR Flag:	N
NPDES Flag:	N
SDWIS Flag:	N
RCRA Flag:	Y
TRI Flag:	N
GHG Flag:	N
AIR IDS:	Not reported



Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**KOB AUTO INC (Continued)**

**1027379347**

CAA Permit Types:	Not reported
CAA NAICS:	Not reported
CAA SICS:	Not reported
NPDES IDS:	Not reported
CWA Permit Types:	Not reported
CWA NAICS:	Not reported
CWA SICS:	Not reported
RCRA IDS:	CAD047388236 CAD982324931
RCRA Permit Types:	SQG
RCRA NAICS:	331419 333298 334419
SDWA IDS:	Not reported
SDWA System Types:	Not reported
SDWA Compliance Status:	Not reported
SDWA SNC Flag:	N
TRI IDS:	Not reported
TRI Releases Transfers:	Not reported
TRI On Site Releases:	Not reported
TRI Off Site Transfers:	Not reported
TRI Reporter:	Not reported
Facility IMP Water Flag:	Not reported

**B31**  
**West**  
**< 1/8**  
**0.040 mi.**  
**209 ft.**

**ROOTES GROUP DEPOT**  
**3651 HAVEN**  
**MENLO PARK, CA 94025**  
**Site 1 of 17 in cluster B**

**CA San Mateo Co. BI S109521261**  
**N/A**

**Relative:**  
**Higher**  
**Actual:**  
**11 ft.**

San Mateo Co. BI:	
Name:	ROOTES GROUP DEPOT
Address:	3651 HAVEN
City,State,Zip:	MENLO PARK, CA 94025
Region:	SAN MATEO
Facility ID:	FA0040769
Prog Element Code:	STORMWATER ANNUAL INSPECTION FEE
Record Id:	PR0056593
Description:	STORMWATER ANNUAL FEE - INSP FREQ EVERY 2 YRS
Facility Status:	Inactive, non-billable
Program Category:	STORMWATER
Name:	ROOTES GROUP DEPOT
Address:	3651 HAVEN
City,State,Zip:	MENLO PARK, CA 94025
Region:	SAN MATEO
Facility ID:	FA0040769
Prog Element Code:	GENERATES <27 GAL/YEAR
Record Id:	PR0056592
Description:	GENERATES <27 GAL/YEAR
Facility Status:	Inactive, non-billable
Program Category:	HAZARDOUS WASTE PROGRAM

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

C32  
SSE  
< 1/8  
0.044 mi.  
234 ft.

STANFORD HEALTH CARE - HAVEN CT  
3700 HAVEN CT  
MENLO PARK, CA 94025

CA CERS HAZ WASTE  
CA HWTS

S121777986  
N/A

Site 1 of 6 in cluster C

Relative:  
Lower

CERS HAZ WASTE:

Actual:  
9 ft.

Name: STANFORD HOSPITAL AND CLINICS  
Address: 3700 HAVEN CT  
City,State,Zip: MENLO PARK, CA 94025  
Site ID: 409118  
CERS ID: 10707763  
CERS Description: Hazardous Waste Generator

Violations:

Site ID: 409118  
Site Name: Stanford Hospital and Clinics  
Violation Date: 01-08-2020  
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)  
Violation Description: Failure to complete and electronically submit a site map with all required content.  
Violation Notes: Returned to compliance on 02/27/2020. Please add the heat transfer fluids and engine oil to the HMBP map.  
Violation Division: San Mateo County Environmental Health  
Violation Program: HMRRP  
Violation Source: CERS,

Site ID: 409118  
Site Name: Stanford Hospital and Clinics  
Violation Date: 08-05-2022  
Citation: HSC 6.95 25508.2 - California Health and Safety Code, Chapter 6.95, Section(s) 25508.2  
Violation Description: Failure to annually review and electronically certify that the business plan is complete and accurate on or before the annual due date.  
Violation Notes: Not reported  
Violation Division: San Mateo County Environmental Health  
Violation Program: HMRRP  
Violation Source: CERS,

Site ID: 409118  
Site Name: Stanford Hospital and Clinics  
Violation Date: 01-08-2020  
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)  
Violation Description: Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.  
Violation Notes: Returned to compliance on 02/27/2020. Please add the heat transfer fluids and engine oil to the HMBP inventory.  
Violation Division: San Mateo County Environmental Health  
Violation Program: HMRRP  
Violation Source: CERS,

Evaluation:

Eval General Type: Other/Unknown  
Eval Date: 01-07-2022  
Violations Found: No

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

STANFORD HEALTH CARE - HAVEN CT (Continued)

S121777986

Eval Type: Other, not routine, done by local agency  
Eval Notes: Not reported  
Eval Division: San Mateo County Environmental Health  
Eval Program: HMRRP  
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection  
Eval Date: 01-08-2020  
Violations Found: Yes  
Eval Type: Routine done by local agency  
Eval Notes: Not reported  
Eval Division: San Mateo County Environmental Health  
Eval Program: HMRRP  
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection  
Eval Date: 01-08-2020  
Violations Found: No  
Eval Type: Routine done by local agency  
Eval Notes: Not reported  
Eval Division: San Mateo County Environmental Health  
Eval Program: HW  
Eval Source: CERS,

Eval General Type: Other/Unknown  
Eval Date: 02-21-2020  
Violations Found: No  
Eval Type: Other, not routine, done by local agency  
Eval Notes: Not reported  
Eval Division: San Mateo County Environmental Health  
Eval Program: HMRRP  
Eval Source: CERS,

Eval General Type: Other/Unknown  
Eval Date: 03-23-2020  
Violations Found: No  
Eval Type: Other, not routine, done by local agency  
Eval Notes: corrections made  
Eval Division: San Mateo County Environmental Health  
Eval Program: HMRRP  
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection  
Eval Date: 01-07-2022  
Violations Found: No  
Eval Type: Routine done by local agency  
Eval Notes: Facility receives materials and equipment for the work of the facilities department at Stanford health care facilities. No records of hazardous waste disposal were found at facility or in California or Federal records. Compressed gas cylinders are still in the locked HW storage room (since the last inspection) along with fluorescent tubes, other equipment and a shelf storing flammables and other chemical products. Batteries stored in a white labeled bucket outside the closet. No apparent storage of hazardous waste or activities that generate hazardous waste were observed. Please confirm with facilities staff whether hazardous waste is generated onsite and provide the information to the inspector within 30 days. If no hazardous waste is

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**STANFORD HEALTH CARE - HAVEN CT (Continued)**

**S121777986**

generated, this facility should be removed from the hazardous waste generator program and the signage for hazardous waste storage should be removed. The room with the hazardous waste storage sign was locked. Considering the flammable [Truncated]

Eval Division: San Mateo County Environmental Health  
Eval Program: HW  
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection  
Eval Date: 01-07-2022  
Violations Found: No  
Eval Type: Routine done by local agency  
Eval Notes: Last accepted business plan submitted on 5-18-2021. Facility receives materials and equipment for the work of the facilities department at Stanford health care facilities. No longer stores heat transfer oil and engine oil. Storage above threshold is limited to refrigerants.

Eval Division: San Mateo County Environmental Health  
Eval Program: HMRRP  
Eval Source: CERS,

Eval General Type: Other/Unknown  
Eval Date: 08-05-2022  
Violations Found: Yes  
Eval Type: Other, not routine, done by local agency  
Eval Notes: Not reported  
Eval Division: San Mateo County Environmental Health  
Eval Program: HMRRP  
Eval Source: CERS,

Eval General Type: Other/Unknown  
Eval Date: 10-09-2020  
Violations Found: No  
Eval Type: Other, not routine, done by local agency  
Eval Notes: Not reported  
Eval Division: San Mateo County Environmental Health  
Eval Program: HMRRP  
Eval Source: CERS,

Coordinates:  
Site ID: 409118  
Facility Name: Stanford Hospital and Clinics  
Env Int Type Code: HWG  
Program ID: 10707763  
Coord Name: Not reported  
Ref Point Type Desc: Center of a facility or station.,  
Latitude: 37.484660  
Longitude: -122.182370

Affiliation:  
Affiliation Type Desc: CUPA District  
Entity Name: San Mateo County Environmental Health  
Entity Title: Not reported  
Affiliation Address: 2000 Alameda de las Pulgas, Suite 100  
Affiliation City: San Mateo  
Affiliation State: CA  
Affiliation Country: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**STANFORD HEALTH CARE - HAVEN CT (Continued)**

**S121777986**

Affiliation Zip: 94403  
Affiliation Phone: (650) 372-6200,

Affiliation Type Desc: Document Preparer  
Entity Name: BSI  
Entity Title: Not reported  
Affiliation Address: Not reported  
Affiliation City: Not reported  
Affiliation State: Not reported  
Affiliation Country: Not reported  
Affiliation Zip: Not reported  
Affiliation Phone: ,

Affiliation Type Desc: Environmental Contact  
Entity Name: Matt Wolfinger  
Entity Title: Not reported  
Affiliation Address: 300 Pasteur Dr, MC 5788  
Affiliation City: Palo Alto  
Affiliation State: CA  
Affiliation Country: Not reported  
Affiliation Zip: 94305  
Affiliation Phone: ,

Affiliation Type Desc: Legal Owner  
Entity Name: Stanford Health Care  
Entity Title: Not reported  
Affiliation Address: 300 Pasteur Dr, MC 5788  
Affiliation City: Palo Alto  
Affiliation State: CA  
Affiliation Country: United States  
Affiliation Zip: 94305  
Affiliation Phone: (650) 723-8143,

Affiliation Type Desc: Identification Signer  
Entity Name: Michele Blazek  
Entity Title: Director Environmental Health & Safety  
Affiliation Address: Not reported  
Affiliation City: Not reported  
Affiliation State: Not reported  
Affiliation Country: Not reported  
Affiliation Zip: Not reported  
Affiliation Phone: ,

Affiliation Type Desc: Property Owner  
Entity Name: Stanford Health Care  
Entity Title: Not reported  
Affiliation Address: 300 Pasteur Dr, MC 5788  
Affiliation City: Palo Alto  
Affiliation State: CA  
Affiliation Country: United States  
Affiliation Zip: 94035  
Affiliation Phone: (650) 723-4000,

Affiliation Type Desc: Facility Mailing Address  
Entity Name: Mailing Address  
Entity Title: Not reported  
Affiliation Address: 300 Pasteur Dr, MC 5788

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**STANFORD HEALTH CARE - HAVEN CT (Continued)**

**S121777986**

Affiliation City: Palo Alto  
Affiliation State: CA  
Affiliation Country: Not reported  
Affiliation Zip: 94305  
Affiliation Phone: ,

Affiliation Type Desc: Operator  
Entity Name: Stanford Health Care  
Entity Title: Not reported  
Affiliation Address: Not reported  
Affiliation City: Not reported  
Affiliation State: Not reported  
Affiliation Country: Not reported  
Affiliation Zip: Not reported  
Affiliation Phone: (650) 724-8633,

Affiliation Type Desc: Parent Corporation  
Entity Name: Stanford Hospital and Clinics  
Entity Title: Not reported  
Affiliation Address: Not reported  
Affiliation City: Not reported  
Affiliation State: Not reported  
Affiliation Country: Not reported  
Affiliation Zip: Not reported  
Affiliation Phone: ,

**HWTS:**

Name: STANFORD HEALTH CARE - HAVEN CT  
Address: 3700 HAVEN CT  
Address 2: Not reported  
City,State,Zip: MENLO PARK, CA 94025  
EPA ID: CAL000420076  
Inactive Date: 06/30/2017  
Create Date: 09/06/2016  
Last Act Date: Not reported  
Mailing Name: Not reported  
Mailing Address: 300 PASTEUR DR M/L 5788  
Mailing Address 2: Not reported  
Mailing City,State,Zip: PALO ALTO, CA 94305  
Owner Name: STANFORD HEALTH CARE  
Owner Address: 300 PASTEUR DR  
Owner Address 2: Not reported  
Owner City,State,Zip: PALO ALTO, CA 94305  
Contact Name: MICHELE BLAZEK  
Contact Address: 300 PASTEUR DR M/L 5788  
Contact Address 2: Not reported  
City,State,Zip: PALO ALTO, CA 94305  
Facility Status: Inactive  
Facility Type: PERMANENT  
Category: STATE  
Latitude: -90  
Longitude: 180

**NAICS:**

EPA ID: CAL000420076  
Create Date: 2016-09-06 15:58:36.093

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**STANFORD HEALTH CARE - HAVEN CT (Continued)**

**S121777986**

NAICS Code:	23332
NAICS Description:	Commercial and Institutional Building Construction
Issued EPA ID Date:	2016-09-06 15:58:36.05700
Inactive Date:	2017-06-30 00:00:00
Facility Name:	STANFORD HEALTH CARE - HAVEN CT
Facility Address:	3700 HAVEN CT
Facility Address 2:	Not reported
Facility City:	MENLO PARK
Facility County:	Not reported
Facility State:	CA
Facility Zip:	94025

**C33**  
**SSE**  
 < 1/8  
 0.044 mi.  
 234 ft.

**STANFORD HEALTH CARE PENINSULA HUB**  
**3700 HAVEN CT M/C 5788**  
**MENLO PARK, CA 94025**

**RCRA NonGen / NLR**

**1026056459**  
**CAL000452646**

**Site 2 of 6 in cluster C**

**Relative:**  
**Lower**  
**Actual:**  
**9 ft.**

<b>RCRA Listings:</b>		20200212
Date Form Received by Agency:		
Handler Name:	STANFORD HEALTH CARE	PENINSULA HUB
Handler Address:		3700 HAVEN CT M/C 5788
Handler City,State,Zip:		MENLO PARK, CA 94025
EPA ID:		CAL000452646
Contact Name:		MATTHEW WOLFINGER
Contact Address:		3700 HAVEN CT M/C 5788
Contact City,State,Zip:		MENLO PARK, CA 94025
Contact Telephone:		650-721-8384
Contact Fax:		650-721-4164
Contact Email:		MWOLFINGER@STANFORDHEALTHCARE.ORG
Contact Title:		Not reported
EPA Region:		09
Land Type:		Not reported
Federal Waste Generator Description:		Not a generator, verified
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Not reported
State District Owner:		Not reported
State District:		Not reported
Mailing Address:		3700 HAVEN CT M/C 5788
Mailing City,State,Zip:		MENLO PARK, CA 94025
Owner Name:	STANFORD HEALTH CARE	
Owner Type:		Other
Operator Name:	MATTHEW WOLFINGER	
Operator Type:		Other
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No
Smelting Melting and Refining Furnace Exemption:		No
Underground Injection Control:		No
Off-Site Waste Receipt:		No
Universal Waste Indicator:		No

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**STANFORD HEALTH CARE PENINSULA HUB (Continued)**

**1026056459**

Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDs Where RCRA CA has Been Imposed Universe:	No
TSDs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20200306
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

**Handler - Owner Operator:**

Owner/Operator Indicator:	Owner
Owner/Operator Name:	STANFORD HEALTH CARE
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	300 PASTEUR DR
Owner/Operator City,State,Zip:	STANFORD, CA 94305
Owner/Operator Telephone:	650-721-8384
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported



Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**STANFORD HEALTH CARE PENINSULA HUB (Continued)**

**1026056459**

Owner/Operator Email: Not reported  
 Owner/Operator Indicator: Operator  
 Owner/Operator Name: MATTHEW WOLFINGER  
 Legal Status: Other  
 Date Became Current: Not reported  
 Date Ended Current: Not reported  
 Owner/Operator Address: 3700 HAVEN CT M/C 5788  
 Owner/Operator City,State,Zip: MENLO PARK, CA 94025  
 Owner/Operator Telephone: 650-721-8384  
 Owner/Operator Telephone Ext: Not reported  
 Owner/Operator Fax: Not reported  
 Owner/Operator Email: Not reported

Historic Generators:

Receive Date: 20200212  
 Handler Name: STANFORD HEALTH CARE PENINSULA HUB  
 Federal Waste Generator Description: Not a generator, verified  
 State District Owner: Not reported  
 Large Quantity Handler of Universal Waste: No  
 Recognized Trader Importer: No  
 Recognized Trader Exporter: No  
 Spent Lead Acid Battery Importer: No  
 Spent Lead Acid Battery Exporter: No  
 Current Record: Yes  
 Non Storage Recycler Activity: Not reported  
 Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:

NAICS Code: 622110  
 NAICS Description: GENERAL MEDICAL AND SURGICAL HOSPITALS

Facility Has Received Notices of Violations:

Violations: No Violations Found

Evaluation Action Summary:

Evaluations: No Evaluations Found

**C34**  
**SSE**  
 < 1/8  
 0.044 mi.  
 234 ft.

**BAY MATERIALS LLC**  
**3700 HAVEN CT**  
**MENLO PARK, CA 94025**  
 Site 3 of 6 in cluster C

RCRA NonGen / NLR

**1024813868**  
**CAL000306116**

**Relative:**  
**Lower**  
**Actual:**  
**9 ft.**

RCRA Listings:  
 Date Form Received by Agency: 20060501  
 Handler Name: BAY MATERIALS LLC  
 Handler Address: 3700 HAVEN CT  
 Handler City,State,Zip: MENLO PARK, CA 94025-1043  
 EPA ID: CAL000306116  
 Contact Name: AIMEE LUTHRINGER  
 Contact Address: 48450 LAKEVIEW BLVD  
 Contact City,State,Zip: FREMONT, CA 94538-0000  
 Contact Telephone: 650-566-0800  
 Contact Fax: 650-566-0800

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**BAY MATERIALS LLC (Continued)**

**1024813868**

Contact Email:	AIMEE@BAYMATERIALS.COM
Contact Title:	Not reported
EPA Region:	09
Land Type:	Not reported
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	48450 LAKEVIEW BLVD
Mailing City, State, Zip:	FREMONT, CA 94538
Owner Name:	BAY MATERIALS, LLC
Owner Type:	Other
Operator Name:	AIMEE LUTHRINGER
Operator Type:	Other
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	Yes
Universal Waste Destination Facility:	Yes
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**BAY MATERIALS LLC (Continued)**

**1024813868**

Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20180905
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name: BAY MATERIALS, LLC	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	48450 LAKEVIEW BLVD
Owner/Operator City,State,Zip:	FREMONT, CA 94538-0000
Owner/Operator Telephone:	650-566-0800
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name: AIMEE LUTHRINGER	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	48450 LAKEVIEW BLVD
Owner/Operator City,State,Zip:	FREMONT, CA 94538-0000
Owner/Operator Telephone:	650-566-0800
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	20060501
Handler Name: BAY MATERIALS LLC	
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

EDR ID Number  
 EPA ID Number

Site

Database(s)

**BAY MATERIALS LLC (Continued)**

**1024813868**

List of NAICS Codes and Descriptions:

NAICS Code: 325211  
 NAICS Description: PLASTICS MATERIAL AND RESIN MANUFACTURING

Facility Has Received Notices of Violations:

Violations: No Violations Found

Evaluation Action Summary:

Evaluations: No Evaluations Found

**C35**  
**SSE**  
 < 1/8  
 0.044 mi.  
 234 ft.

**BAY MATERIALS LLC**  
**3700 HAVEN**  
**MENLO PARK, CA 94025**  
**Site 4 of 6 in cluster C**

**CA LUST**  
**CA San Mateo Co. BI**  
**CA HIST CORTESE**  
**CA CERS**

**S104581201**  
**N/A**

**Relative:**  
**Lower**  
**Actual:**  
**9 ft.**

**SAN MATEO CO. LUST:**  
 Name: HUETTIG & SCHROMM  
 Address: 3700-3704 HAVEN CT  
 City,State,Zip: MENLO PARK, CA  
 Region: SAN MATEO  
 Facility ID: 440033  
 Facility Status: 9- Case Closed  
 Global ID: T0608100629  
 APN Number: 055232110  
 Case Type: MENLO PARK, CA  
 EDR Link ID: MENLO PARK, CA

**LUST:**

Name: HUETTIG & SCHROMM  
 Address: 3700 HAVEN  
 City,State,Zip: MENLO PARK, CA 94025  
 Lead Agency: SAN MATEO COUNTY LOP  
 Case Type: LUST Cleanup Site  
 Geo Track: [http://geotracker.waterboards.ca.gov/profile\\_report.asp?global\\_id=T0608100629](http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0608100629)  
 Global Id: T0608100629  
 Latitude: 37.4851674  
 Longitude: -122.1821504  
 Status: Completed - Case Closed  
 Status Date: 09/16/1994  
 Case Worker: Not reported  
 RB Case Number: 41-0661  
 Local Agency: Not reported  
 File Location: Local Agency  
 Local Case Number: 440033  
 Potential Media Affect: Other Groundwater (uses other than drinking water)  
 Potential Contaminants of Concern: Gasoline  
 Site History: Not reported

**LUST:**

Global Id: T0608100629  
 Contact Type: Regional Board Caseworker  
 Contact Name: Regional Water Board  
 Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)  
 Address: 1515 CLAY ST SUITE 1400

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BAY MATERIALS LLC (Continued)**

**S104581201**

City: OAKLAND  
Email: Not reported  
Phone Number: Not reported

LUST:

Global Id: T0608100629  
Action Type: Other  
Date: 12/20/1990  
Action: Leak Discovery

Global Id: T0608100629  
Action Type: Other  
Date: 12/20/1990  
Action: Leak Reported

Global Id: T0608100629  
Action Type: ENFORCEMENT  
Date: 05/09/1991  
Action: Notice of Responsibility - #1

LUST:

Global Id: T0608100629  
Status: Open - Case Begin Date  
Status Date: 12/20/1990

Global Id: T0608100629  
Status: Completed - Case Closed  
Status Date: 09/16/1994

San Mateo Co. BI:

Name: BAY MATERIALS LLC  
Address: 3700 HAVEN  
City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0031593  
Prog Element Code: STORMWATER ANNUAL INSPECTION FEE  
Record Id: PR0051761  
Description: STORMWATER ANNUAL FEE - INSP FREQ EVERY 2 YRS  
Facility Status: Inactive, non-billable  
Program Category: STORMWATER

Name: BAY MATERIALS LLC  
Address: 3700 HAVEN  
City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0031593  
Prog Element Code: STORES HAZ MAT <219GAL,1,999LB, 879FT3  
Record Id: PR0051759  
Description: STORES HAZ MAT <219GAL,1,999LB, 879CF  
Facility Status: Inactive, non-billable  
Program Category: BUSINESS PLAN PROGRAM

Name: BAY MATERIALS LLC  
Address: 3700 HAVEN  
City,State,Zip: MENLO PARK, CA 94025

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BAY MATERIALS LLC (Continued)**

**S104581201**

Region: SAN MATEO  
Facility ID: FA0031593  
Prog Element Code: GENERATES <27 GAL/YEAR  
Record Id: PR0051760  
Description: GENERATES <27 GAL/YEAR  
Facility Status: Inactive, non-billable  
Program Category: HAZARDOUS WASTE PROGRAM

**HIST CORTESE:**

edr\_fname: HEUTTIG & SCHROMM  
edr\_fadd1: 3700 HAVEN  
City,State,Zip: MENLO PARK, CA  
Region: CORTESE  
Facility County Code: 41  
Reg By: LTNKA  
Reg Id: 41-0661

**CERS:**

Name: HUETTIG & SCHROMM  
Address: 3700 HAVEN  
City,State,Zip: MENLO PARK, CA 94025  
Site ID: 228107  
CERS ID: T0608100629  
CERS Description: Leaking Underground Storage Tank Cleanup Site

**Affiliation:**

Affiliation Type Desc: Regional Board Caseworker  
Entity Name: Regional Water Board - SAN FRANCISCO BAY RWQCB (REGION 2)  
Entity Title: Not reported  
Affiliation Address: 1515 CLAY ST SUITE 1400  
Affiliation City: OAKLAND  
Affiliation State: CA  
Affiliation Country: Not reported  
Affiliation Zip: Not reported  
Affiliation Phone: ,

Affiliation Type Desc: Regional Board Caseworker  
Entity Name: UUU - SAN FRANCISCO BAY RWQCB (REGION 2)  
Entity Title: Not reported  
Affiliation Address: 1515 CLAY ST SUITE 1400  
Affiliation City: OAKLAND  
Affiliation State: CA  
Affiliation Country: Not reported  
Affiliation Zip: Not reported  
Affiliation Phone: ,

**C36 IGH CORPORATION**  
**SSE 3700 HAVEN CT**  
**< 1/8 MENLO PARK, CA 94025**  
**0.044 mi.**  
**234 ft. Site 5 of 6 in cluster C**

**CA SWEEPS UST S101593803**  
**CA HIST UST N/A**  
**CA FID UST**  
**CA HAZNET**  
**CA HWTS**

**Relative: SWEEPS UST:**  
**Lower Name: IGH CORPORATION**  
**Actual: Address: 3700 HAVEN CT**  
**9 ft. City: MENLO PARK**

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**IGH CORPORATION (Continued)**

**S101593803**

Status: Active  
Comp Number: 440058  
Number: 1  
Board Of Equalization: Not reported  
Referral Date: 11-01-93  
Action Date: 11-01-93  
Created Date: 10-13-88  
Owner Tank Id: Not reported  
SWRCB Tank Id: 41-000-440058-000001  
Tank Status: A  
Capacity: 1000  
Active Date: 05-15-91  
Tank Use: M.V. FUEL  
STG: P  
Content: REG UNLEADED  
Number Of Tanks: 3

Name: IGH CORPORATION  
Address: 3700 HAVEN CT  
City: MENLO PARK  
Status: Active  
Comp Number: 440058  
Number: 1  
Board Of Equalization: Not reported  
Referral Date: 11-01-93  
Action Date: 11-01-93  
Created Date: 10-13-88  
Owner Tank Id: Not reported  
SWRCB Tank Id: 41-000-440058-000002  
Tank Status: A  
Capacity: 1000  
Active Date: 05-15-91  
Tank Use: M.V. FUEL  
STG: P  
Content: LEADED  
Number Of Tanks: Not reported

Name: IGH CORPORATION  
Address: 3700 HAVEN CT  
City: MENLO PARK  
Status: Active  
Comp Number: 440058  
Number: 1  
Board Of Equalization: Not reported  
Referral Date: 11-01-93  
Action Date: 11-01-93  
Created Date: 10-13-88  
Owner Tank Id: Not reported  
SWRCB Tank Id: 41-000-440058-000003  
Tank Status: A  
Capacity: 1000  
Active Date: 05-15-91  
Tank Use: M.V. FUEL  
STG: P  
Content: DIESEL  
Number Of Tanks: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**IGH CORPORATION (Continued)**

**S101593803**

**HIST UST:**

Name: INDUSTRIAL GARDEN MAINTENANCE  
Address: 3700 HAVEN CT  
City,State,Zip: MENLO PARK, CA 94025  
File Number: 0002BF37  
URL: <http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002BF37.pdf>  
Region: Not reported  
Facility ID: Not reported  
Facility Type: Not reported  
Other Type: Not reported  
Contact Name: Not reported  
Telephone: Not reported  
Owner Name: Not reported  
Owner Address: Not reported  
Owner City,St,Zip: Not reported  
Total Tanks: Not reported

Tank Num: Not reported  
Container Num: Not reported  
Year Installed: Not reported  
Tank Capacity: Not reported  
Tank Used for: Not reported  
Type of Fuel: Not reported  
Container Construction Thickness: Not reported  
Leak Detection: Not reported

[Click here for Geo Tracker PDF:](#)

**CA FID UST:**

Facility ID: 41000607  
Regulated By: UTNKA  
Regulated ID: Not reported  
Cortese Code: Not reported  
SIC Code: Not reported  
Facility Phone: 4153642455  
Mail To: Not reported  
Mailing Address: 3700 HAVEN CRT  
Mailing Address 2: Not reported  
Mailing City,St,Zip: MENLO PARK 94025  
Contact: Not reported  
Contact Phone: Not reported  
DUNS Number: Not reported  
NPDES Number: Not reported  
EPA ID: Not reported  
Comments: Not reported  
Status: Active

**HAZNET:**

Name: HUETTIG & SCHROMM, INC.  
Address: 3700 HAVEN CT.  
Address 2: Not reported  
City,State,Zip: MENLO PARK, CA 94025  
Contact: KEN PRICE  
Telephone: 6503222121  
Mailing Name: Not reported  
Mailing Address: 431 BURGESS DR STE 200



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**IGH CORPORATION (Continued)**

**S101593803**

Year: 2016  
Gepaid: CAC002851330  
TSD EPA ID: CAD981382732  
CA Waste Code: 151 - Asbestos containing waste  
Disposal Method: H132 - Landfill Or Surface Impoundment That Will Be Closed As  
Landfill( To Include On-Site Treatment And/Or Stabilization)  
Tons: 1.38

**HWTS:**

Name: HUETTIG & SCHROMM, INC.  
Address: 3700 HAVEN CT.  
Address 2: Not reported  
City,State,Zip: MENLO PARK, CA 94025  
EPA ID: CAC002851330  
Inactive Date: 06/02/2016  
Create Date: 03/02/2016  
Last Act Date: Not reported  
Mailing Name: Not reported  
Mailing Address: 431 BURGESS DR STE 200  
Mailing Address 2: Not reported  
Mailing City,State,Zip: MENLO PARK, CA 940253478  
Owner Name: HUETTIG & SCHROMM, INC.  
Owner Address: 431 BURGESS DR STE 200  
Owner Address 2: Not reported  
Owner City,State,Zip: MENLO PARK, CA 940253478  
Contact Name: KEN PRICE  
Contact Address: 431 BURGESS DR STE 200  
Contact Address 2: Not reported  
City,State,Zip: MENLO PARK, CA 940253478  
Facility Status: Inactive  
Facility Type: TEMPORARY  
Category: STATE  
Latitude: 37.48507  
Longitude: -122.182138

**C37**  
**SSE**  
**< 1/8**  
**0.049 mi.**  
**260 ft.**

**BAY MATERIALS LLC**  
**37.48458/-122.18182**  
**MENLO PARK, CA**  
**Site 6 of 6 in cluster C**

**PFAS ECHO 1027329663**  
**N/A**

**Relative:**  
**Lower**  
**Actual:**  
**9 ft.**

**PFAS ECHO:**  
Name: BAY MATERIALS LLC  
Address: 37.48458/-122.18182  
City,State,Zip: MENLO PARK, CA  
Latitude: 37.48458  
Longitude: -122.18182  
Count: -1  
County: SAN MATEO  
Status: Active  
Region: 09  
Industry: Plastics and Resins  
ECHO Facility Report: <https://echo.epa.gov/detailed-facility-report?fid=110065053783>  
Facility Percent Minority: 65.274  
Facility Derived Tribes: Not reported  
Facility Population: 4709.52

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BAY MATERIALS LLC (Continued)**

**1027329663**

EJSCREEN Flag US:	N
EJSCREEN Report:	<a href="https://ejscreen.epa.gov/mapper/mobile/EJSCREEN_mobile.aspx?geometry=%7B%22x%22:-122.18182,%22y%22:37.48458,%22spatialReference%22:%7B%22wkid%22:4326%7D%7D&amp;unit=9035&amp;areatype=&amp;areaid=&amp;basemap=streets&amp;distance=1">https://ejscreen.epa.gov/mapper/mobile/EJSCREEN_mobile.aspx?geometry=%7B%22x%22:-122.18182,%22y%22:37.48458,%22spatialReference%22:%7B%22wkid%22:4326%7D%7D&amp;unit=9035&amp;areatype=&amp;areaid=&amp;basemap=streets&amp;distance=1</a>
EPA Programs:	RCRA
Federal Facility:	No
Federal Agency:	Not reported
Facility FIPS Code:	06081
Facility Indian Country Flag:	N
Facility Collection Method:	ADDRESS MATCHING-HOUSE NUMBER
Facility Derived HUC:	18050004
Facility Derived WBD:	180500040902
Facility Derived CD113:	14
Facility Derived CB2010:	060816117004029
Facility Major Flag:	Not reported
Facility Active Flag:	Y
Facility Inspection Count:	0
Facility Date Last Inspection:	Not reported
Facility Days Last Inspection:	Not reported
Facility Informal Count:	0
Facility Date Last Informal Action:	Not reported
Facility Formal Action Count:	0
Facility Date Last Formal Action:	Not reported
Facility Total Penalties:	0
Facility Penalty Count:	Not reported
Facility Date Last Penalty:	Not reported
Facility Last Penalty AMT:	Not reported
Facility QTRS With NC:	0
Facility Programs With SNC:	0
Facility Compliance Status:	No Violation Identified
Facility SNC Flag:	N
AIR Flag:	N
NPDES Flag:	N
SDWIS Flag:	N
RCRA Flag:	Y
TRI Flag:	N
GHG Flag:	N
AIR IDS:	Not reported
CAA Permit Types:	Not reported
CAA NAICS:	Not reported
CAA SICs:	Not reported
NPDES IDS:	Not reported
CWA Permit Types:	Not reported
CWA NAICS:	Not reported
CWA SICs:	Not reported
RCRA IDS:	CAL000306116
RCRA Permit Types:	Other
RCRA NAICS:	325211
SDWA IDS:	Not reported
SDWA System Types:	Not reported
SDWA Compliance Status:	Not reported
SDWA SNC Flag:	N
TRI IDS:	Not reported
TRI Releases Transfers:	Not reported
TRI On Site Releases:	Not reported
TRI Off Site Transfers:	Not reported
TRI Reporter:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BAY MATERIALS LLC (Continued)**

**1027329663**

Facility IMP Water Flag: Not reported

**B38**  
**West**  
**< 1/8**  
**0.053 mi.**  
**282 ft.**

**CORRELL PROPERTIES**  
**3641 HAVEN AVENUE**  
**MENLO PARK, CA 94025**  
  
**Site 2 of 17 in cluster B**

**CA HIST UST** **S113118442**  
**CA HAZNET** **N/A**  
**CA HWTS**

**Relative:**  
**Higher**  
  
**Actual:**  
**11 ft.**

HIST UST:  
Name: CORRELL PROPERTIES  
Address: 3641 HAVEN AVENUE  
City,State,Zip: MENLO PARK, CA 94025  
File Number: 0002BDB3  
URL: <http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002BDB3.pdf>  
Region: Not reported  
Facility ID: Not reported  
Facility Type: Not reported  
Other Type: Not reported  
Contact Name: Not reported  
Telephone: Not reported  
Owner Name: Not reported  
Owner Address: Not reported  
Owner City,St,Zip: Not reported  
Total Tanks: Not reported  
  
Tank Num: Not reported  
Container Num: Not reported  
Year Installed: Not reported  
Tank Capacity: Not reported  
Tank Used for: Not reported  
Type of Fuel: Not reported  
Container Construction Thickness: Not reported  
Leak Detection: Not reported

Click here for Geo Tracker PDF:

HAZNET:  
Name: DESIGNCO  
Address: 3641 HAVEN AVE  
Address 2: Not reported  
City,State,Zip: MENLO PARK, CA 94025  
Contact: PAT SCARLETT  
Telephone: 6503656505  
Mailing Name: Not reported  
Mailing Address: PO BOX 693  
  
Year: 2020  
Gepaid: CAL000249462  
TSD EPA ID: UTD991301748  
CA Waste Code: 352 - Other organic solids  
Disposal Method: H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill( To Include On-Site Treatment And/Or Stabilization)  
Tons: 0.025  
  
Year: 2019  
Gepaid: CAL000249462  
TSD EPA ID: NED981723513

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CORRELL PROPERTIES (Continued)**

**S113118442**

CA Waste Code: 352 - Other organic solids  
Disposal Method: H040 - Incineration--Thermal Destruction Other Than Use As A Fuel  
Tons: 0.05000

Year: 2019  
Gepaid: CAL000249462  
TSD EPA ID: AZD049318009  
CA Waste Code: 223 - Unspecified oil-containing waste  
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)  
Tons: 0.22935

Year: 2018  
Gepaid: CAL000249462  
TSD EPA ID: NED981723513  
CA Waste Code: 352 - Other organic solids  
Disposal Method: H040 - Incineration--Thermal Destruction Other Than Use As A Fuel  
Tons: 0.03000

Year: 2018  
Gepaid: CAL000249462  
TSD EPA ID: CAD044429835  
CA Waste Code: 223 - Unspecified oil-containing waste  
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)  
Tons: 0.22935

Year: 2017  
Gepaid: CAL000249462  
TSD EPA ID: UTD981552177  
CA Waste Code: 352 - Other organic solids  
Disposal Method: H040 - Incineration--Thermal Destruction Other Than Use As A Fuel  
Tons: 0.025

Year: 2016  
Gepaid: CAL000249462  
TSD EPA ID: UTD981552177  
CA Waste Code: 352 - Other organic solids  
Disposal Method: H040 - Incineration--Thermal Destruction Other Than Use As A Fuel  
Tons: 0.05

Year: 2015  
Gepaid: CAL000249462  
TSD EPA ID: CAD059494310  
CA Waste Code: 133 - Aqueous solution with total organic residues 10 percent or more  
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)  
Tons: 0.2

Year: 2015  
Gepaid: CAL000249462  
TSD EPA ID: UTD981552177  
CA Waste Code: 352 - Other organic solids  
Disposal Method: H040 - Incineration--Thermal Destruction Other Than Use As A Fuel  
Tons: 0.0425

Year: 2015

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CORRELL PROPERTIES (Continued)**

**S113118442**

Gepaid: CAL000249462  
TSD EPA ID: NED981723513  
CA Waste Code: 223 - Unspecified oil-containing waste  
Disposal Method: H040 - Incineration--Thermal Destruction Other Than Use As A Fuel  
Tons: 0.22935

[Click this hyperlink](#) while viewing on your computer to access  
6 additional CA HAZNET: record(s) in the EDR Site Report.

Detail Two:

Year: 2020  
EM Manifest ID: eabf2886-b2f6-4667-bea1-78fad1c9ddfd  
Shipment Date: 3/20/2020  
Receipt Date: 4/2/2020  
Manifest Number: 007443028SKS  
Generator EPA ID: CAL000249462  
Name: DESIGNCO  
Address: 3641 HAVEN AVE  
Address 2: Not reported  
City: MENLO PARK  
Zip: 94025  
Telephone: 800-483-3718  
Contact: Evan McIntosh  
Contact Telephone: 650-365-6505  
Transporter 1 EPA ID: TXR000081205  
Transporter 1 Emergency Number: Not reported  
Transporter 2 EPA ID: MAD039322250  
Transporter 2 Emergency Number: Not reported  
TSDF EPA ID: UTD991301748  
TSDF Name: Clean Harbors Grassy Mountain LLC  
TSDF Address 1: 3 Miles East 7 Miles North of Knolls  
TSDF Address 2: Exit 41 off I-80  
TSDF City: Grantsville  
TSDF Zip: 84029  
TSDF Telephone: 800-483-3718

State:

Year: 2020  
EM Manifest ID: eabf2886-b2f6-4667-bea1-78fad1c9ddfd  
Generator EPA ID: CAL000249462  
Shipment Date: 2020-03-20  
Manifest Number: 007443028SKS  
Line Number: 1  
Method Code: H132  
Quantity Tons: 0.02500  
Quantity Waste: 50.000000  
Quantity Unit: P  
Number of Containers: 1  
Type of Container: Metal drums, barrels, kegs  
Quantity Type: Pounds  
State Code: 352

Detail Two:

Year: 2019  
EM Manifest ID: 181da1a0-c7e8-493d-9ec2-4a3c19197795

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CORRELL PROPERTIES (Continued)**

**S113118442**

Shipment Date: 2/4/2019  
Receipt Date: 2/21/2019  
Manifest Number: 006925999SKS  
Generator EPA ID: CAL000249462  
Name: DESIGNCO  
Address: 3641 HAVEN AVE  
Address 2: Not reported  
City: MENLO PARK  
Zip: 94025  
Telephone: 800-483-3718  
Contact: Evan McIntosh  
Contact Telephone: 650-365-6505  
Transporter 1 EPA ID: TXR000081205  
Transporter 1 Emergency Number: Not reported  
Transporter 2 EPA ID: MAD039322250  
Transporter 2 Emergency Number: Not reported  
TSDf EPA ID: NED981723513  
TSDf Name: Clean Harbors Environmental Services, Inc.  
TSDf Address 1: 2247 South Highway 71  
TSDf Address 2: Not reported  
TSDf City: Kimball  
TSDf Zip: 69145  
TSDf Telephone: 800-483-3718

**Federal:**

Year: 2019  
EM Manifest ID: 181da1a0-c7e8-493d-9ec2-4a3c19197795  
Generator EPA ID: CAL000249462  
Shipment Date: 2019-02-04  
Manifest Number: 006925999SKS  
Line Number: 1  
Method Code: H040  
Quantity Tons: 0.05000  
Quantity Waste: 100.000000  
Quantity Unit: P  
Number of Containers: 1  
Type of Container: Metal drums, barrels, kegs  
Quantity Type: Pounds  
Federal Code: D001

Year: 2019  
EM Manifest ID: 181da1a0-c7e8-493d-9ec2-4a3c19197795  
Generator EPA ID: CAL000249462  
Shipment Date: 2019-02-04  
Manifest Number: 006925999SKS  
Line Number: 1  
Method Code: H040  
Quantity Tons: 0.05000  
Quantity Waste: 100.000000  
Quantity Unit: P  
Number of Containers: 1  
Type of Container: Metal drums, barrels, kegs  
Quantity Type: Pounds  
Federal Code: D035

Year: 2019  
EM Manifest ID: 181da1a0-c7e8-493d-9ec2-4a3c19197795  
Generator EPA ID: CAL000249462

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CORRELL PROPERTIES (Continued)**

**S113118442**

Shipment Date: 2019-02-04  
Manifest Number: 006925999SKS  
Line Number: 1  
Method Code: H040  
Quantity Tons: 0.05000  
Quantity Waste: 100.000000  
Quantity Unit: P  
Number of Containers: 1  
Type of Container: Metal drums, barrels, kegs  
Quantity Type: Pounds  
Federal Code: F005

State:

Year: 2019  
EM Manifest ID: 181da1a0-c7e8-493d-9ec2-4a3c19197795  
Generator EPA ID: CAL000249462  
Shipment Date: 2019-02-04  
Manifest Number: 006925999SKS  
Line Number: 1  
Method Code: H040  
Quantity Tons: 0.05000  
Quantity Waste: 100.000000  
Quantity Unit: P  
Number of Containers: 1  
Type of Container: Metal drums, barrels, kegs  
Quantity Type: Pounds  
State Code: 352

Detail Two:

Year: 2018  
EM Manifest ID: 006162513SKS20170807\_D\_1  
Shipment Date: 8/7/2017  
Receipt Date: 9/2/2017  
Manifest Number: 006162513SKS  
Generator EPA ID: CAL000249462  
Name: DESIGNCO  
Address: Not reported  
Address 2: Not reported  
City: Not reported  
Zip: Not reported  
Telephone: Not reported  
Contact: Not reported  
Contact Telephone: Not reported  
Transporter 1 EPA ID: TXR000081205  
Transporter 1 Emergency Number: Not reported  
Transporter 2 EPA ID: MAD039322250  
Transporter 2 Emergency Number: Not reported  
TSDf EPA ID: NED981723513  
TSDf Name: CLEAN HARBORS  
TSDf Address 1: Not reported  
TSDf Address 2: Not reported  
TSDf City: Not reported  
TSDf Zip: Not reported  
TSDf Telephone: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CORRELL PROPERTIES (Continued)**

**S113118442**

Federal:

Year: 2018  
EM Manifest ID: 006162513SKS20170807\_D\_1  
Generator EPA ID: CAL000249462  
Shipment Date: 2017-08-07  
Manifest Number: 006162513SKS  
Line Number: 1  
Method Code: H040  
Quantity Tons: 0.01500  
Quantity Waste: 30.000000  
Quantity Unit: P  
Number of Containers: 1  
Type of Container: NULL  
Quantity Type: NULL  
Federal Code: D001

State:

Year: 2018  
EM Manifest ID: 006162513SKS20170807\_D\_1  
Generator EPA ID: CAL000249462  
Shipment Date: 2017-08-07  
Manifest Number: 006162513SKS  
Line Number: 1  
Method Code: H040  
Quantity Tons: 0.01500  
Quantity Waste: 30.000000  
Quantity Unit: P  
Number of Containers: 1  
Type of Container: NULL  
Quantity Type: NULL  
State Code: 213

Year: 2018  
EM Manifest ID: 005901596SKS20170324\_D\_1  
Shipment Date: 3/24/2017  
Receipt Date: 4/6/2017  
Manifest Number: 005901596SKS  
Generator EPA ID: CAL000249462  
Name: DESIGNCO  
Address: Not reported  
Address 2: Not reported  
City: Not reported  
Zip: Not reported  
Telephone: Not reported  
Contact: Not reported  
Contact Telephone: Not reported  
Transporter 1 EPA ID: TXR000081205  
Transporter 1 Emergency Number: Not reported  
Transporter 2 EPA ID: MAD039322250  
Transporter 2 Emergency Number: Not reported  
TSDf EPA ID: UTD981552177  
TSDf Name: CLEAN HARBORS ARAGONITE LLC  
TSDf Address 1: Not reported  
TSDf Address 2: Not reported  
TSDf City: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CORRELL PROPERTIES (Continued)**

**S113118442**

TSDf Zip:	Not reported
TSDf Telephone:	Not reported
Federal:	
Year:	2018
EM Manifest ID:	005901596SKS20170324_D_1
Generator EPA ID:	CAL000249462
Shipment Date:	2017-03-24
Manifest Number:	005901596SKS
Line Number:	1
Method Code:	H040
Quantity Tons:	0.02500
Quantity Waste:	50.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	NULL
Quantity Type:	NULL
Federal Code:	D001
Year:	2018
EM Manifest ID:	005901596SKS20170324_D_1
Generator EPA ID:	CAL000249462
Shipment Date:	2017-03-24
Manifest Number:	005901596SKS
Line Number:	1
Method Code:	H040
Quantity Tons:	0.02500
Quantity Waste:	50.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	NULL
Quantity Type:	NULL
Federal Code:	D035
Year:	2018
EM Manifest ID:	005901596SKS20170324_D_1
Generator EPA ID:	CAL000249462
Shipment Date:	2017-03-24
Manifest Number:	005901596SKS
Line Number:	1
Method Code:	H040
Quantity Tons:	0.02500
Quantity Waste:	50.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	NULL
Quantity Type:	NULL
Federal Code:	F005
State:	
Year:	2018
EM Manifest ID:	005901596SKS20170324_D_1
Generator EPA ID:	CAL000249462
Shipment Date:	2017-03-24
Manifest Number:	005901596SKS
Line Number:	1
Method Code:	H040

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CORRELL PROPERTIES (Continued)**

**S113118442**

Quantity Tons:	0.02500
Quantity Waste:	50.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	NULL
Quantity Type:	NULL
State Code:	352
Year:	2018
EM Manifest ID:	006339458SKS20180222_D_1
Shipment Date:	2/22/2018
Receipt Date:	3/22/2018
Manifest Number:	006339458SKS
Generator EPA ID:	CAL000249462
Name:	DESIGNCO
Address:	Not reported
Address 2:	Not reported
City:	Not reported
Zip:	Not reported
Telephone:	Not reported
Contact:	Not reported
Contact Telephone:	Not reported
Transporter 1 EPA ID:	TXR000081205
Transporter 1 Emergency Number:	Not reported
Transporter 2 EPA ID:	MAD039322250
Transporter 2 Emergency Number:	Not reported
TSDF EPA ID:	NED981723513
TSDF Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES IN
TSDF Address 1:	Not reported
TSDF Address 2:	Not reported
TSDF City:	Not reported
TSDF Zip:	Not reported
TSDF Telephone:	Not reported
Federal:	
Year:	2018
EM Manifest ID:	006339458SKS20180222_D_1
Generator EPA ID:	CAL000249462
Shipment Date:	2018-02-22
Manifest Number:	006339458SKS
Line Number:	1
Method Code:	H040
Quantity Tons:	0.03000
Quantity Waste:	60.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	NULL
Quantity Type:	NULL
Federal Code:	D001
Year:	2018
EM Manifest ID:	006339458SKS20180222_D_1
Generator EPA ID:	CAL000249462
Shipment Date:	2018-02-22
Manifest Number:	006339458SKS
Line Number:	1
Method Code:	H040

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CORRELL PROPERTIES (Continued)**

**S113118442**

Quantity Tons: 0.03000  
Quantity Waste: 60.000000  
Quantity Unit: P  
Number of Containers: 1  
Type of Container: NULL  
Quantity Type: NULL  
Federal Code: D035

Year: 2018  
EM Manifest ID: 006339458SKS20180222\_D\_1  
Generator EPA ID: CAL000249462  
Shipment Date: 2018-02-22  
Manifest Number: 006339458SKS  
Line Number: 1  
Method Code: H040  
Quantity Tons: 0.03000  
Quantity Waste: 60.000000  
Quantity Unit: P  
Number of Containers: 1  
Type of Container: NULL  
Quantity Type: NULL  
Federal Code: F005

State:  
Year: 2018  
EM Manifest ID: 006339458SKS20180222\_D\_1  
Generator EPA ID: CAL000249462  
Shipment Date: 2018-02-22  
Manifest Number: 006339458SKS  
Line Number: 1  
Method Code: H040  
Quantity Tons: 0.03000  
Quantity Waste: 60.000000  
Quantity Unit: P  
Number of Containers: 1  
Type of Container: NULL  
Quantity Type: NULL  
State Code: 352

Additional Info:  
Year: 2017  
Gen EPA ID: CAL000249462  
  
Shipment Date: 20170807  
Creation Date: 10/11/2018 18:31:58  
Receipt Date: 20170902  
Manifest ID: 006162513SKS  
Trans EPA ID: TXR000081205  
Trans Name: SAFETY-KLEEN SYSTEMS INC  
Trans 2 EPA ID: MAD039322250  
Trans 2 Name: CLEAN HARBORS ENVIRONMENTAL SVC INC  
TSDf EPA ID: NED981723513  
Trans Name: CLEAN HARBORS  
TSDf Alt EPA ID: Not reported  
TSDf Alt Name: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CORRELL PROPERTIES (Continued)**

**S113118442**

Waste Code Description: 213 - Hydrocarbon solvents (benzene, hexane, Stoddard, etc.  
RCRA Code: D001  
Meth Code: H040 - Incineration--Thermal Destruction Other Than Use As A Fuel  
Quantity Tons: 0.015  
Waste Quantity: 30  
Quantity Unit: P  
Additional Code 1: Not reported  
Additional Code 2: Not reported  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported

Shipment Date: 20170324  
Creation Date: 5/11/2018 18:33:30  
Receipt Date: 20170406  
Manifest ID: 005901596SKS  
Trans EPA ID: TXR000081205  
Trans Name: SAFETY-KLEEN SYSTEMS INC  
Trans 2 EPA ID: MAD039322250  
Trans 2 Name: CLEAN HARBORS ENVIRONMENTAL SERVICES INC  
TSDf EPA ID: UTD981552177  
Trans Name: CLEAN HARBORS ARAGONITE LLC  
TSDf Alt EPA ID: Not reported  
TSDf Alt Name: Not reported  
Waste Code Description: 352 - Other organic solids  
RCRA Code: F005  
Meth Code: H040 - Incineration--Thermal Destruction Other Than Use As A Fuel  
Quantity Tons: 0.025  
Waste Quantity: 50  
Quantity Unit: P  
Additional Code 1: D035  
Additional Code 2: D001  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported

Additional Info:  
Year: 2016  
Gen EPA ID: CAL000249462

Shipment Date: 20151207  
Creation Date: 3/2/2016 22:15:29  
Receipt Date: 20151216  
Manifest ID: 005132398SKS  
Trans EPA ID: TXR000081205  
Trans Name: SAFETY-KLEEN SYSTEMS INC  
Trans 2 EPA ID: MAD039322250  
Trans 2 Name: CLEAN HARBORS  
TSDf EPA ID: CAD059494310  
Trans Name: CLEAN HARBORS SAN JOSE LLC  
TSDf Alt EPA ID: Not reported  
TSDf Alt Name: Not reported  
Waste Code Description: 133 - Aqueous solution with 10% or more total organic residues  
RCRA Code: D039  
Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Recovery (H010-H129) Or (H131-H135)  
Quantity Tons: 0.2

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CORRELL PROPERTIES (Continued)**

**S113118442**

Waste Quantity:	400
Quantity Unit:	P
Additional Code 1:	D018
Additional Code 2:	D008
Additional Code 3:	D007
Additional Code 4:	D006
Additional Code 5:	Not reported
Shipment Date:	20150519
Creation Date:	11/9/2015 22:15:07
Receipt Date:	20150529
Manifest ID:	007031571FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	AZR000513770
Trans 2 Name:	SLT
TSDf EPA ID:	NED981723513
Trans Name:	CLEAN HARBORS ENV SERVICES INC
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons:	0.22935
Waste Quantity:	55
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150323
Creation Date:	9/3/2015 22:15:26
Receipt Date:	20150403
Manifest ID:	004772286SKS
Trans EPA ID:	TXR000081205
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	AZR000513770
Trans 2 Name:	SLT
TSDf EPA ID:	UTD981552177
Trans Name:	CLEAN HARBORS ARAGONITE LLC
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	F005
Meth Code:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons:	0.0425
Waste Quantity:	85
Quantity Unit:	P
Additional Code 1:	D035
Additional Code 2:	D001
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CORRELL PROPERTIES (Continued)**

**S113118442**

Additional Info:

Year:	2015
Gen EPA ID:	CAL000249462
Shipment Date:	20151207
Creation Date:	3/2/2016 22:15:29
Receipt Date:	20151216
Manifest ID:	005132398SKS
Trans EPA ID:	TXR000081205
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	MAD039322250
Trans 2 Name:	CLEAN HARBORS
TSDf EPA ID:	CAD059494310
Trans Name:	CLEAN HARBORS SAN JOSE LLC
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	133 - Aqueous solution with 10% or more total organic residues
RCRA Code:	D039
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.2
Waste Quantity:	400
Quantity Unit:	P
Additional Code 1:	D018
Additional Code 2:	D008
Additional Code 3:	D007
Additional Code 4:	D006
Additional Code 5:	Not reported
Shipment Date:	20150519
Creation Date:	11/9/2015 22:15:07
Receipt Date:	20150529
Manifest ID:	007031571FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	AZR000513770
Trans 2 Name:	SLT
TSDf EPA ID:	NED981723513
Trans Name:	CLEAN HARBORS ENV SERVICES INC
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons:	0.22935
Waste Quantity:	55
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150323
Creation Date:	9/3/2015 22:15:26
Receipt Date:	20150403
Manifest ID:	004772286SKS

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CORRELL PROPERTIES (Continued)**

**S113118442**

Trans EPA ID:	TXR000081205
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	AZR000513770
Trans 2 Name:	SLT
TSDF EPA ID:	UTD981552177
Trans Name:	CLEAN HARBORS ARAGONITE LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	F005
Meth Code:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons:	0.0425
Waste Quantity:	85
Quantity Unit:	P
Additional Code 1:	D035
Additional Code 2:	D001
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Additional Info:	
Year:	2014
Gen EPA ID:	CAL000249462
Shipment Date: 20140826	
Creation Date: 2/11/2015 22:15:10	
Receipt Date: 20140829	
Manifest ID: 007788264FLE	
Trans EPA ID: MAD039322250	
Trans Name: CLEAN HARBORS ENVIRONMENTAL SERVICES INC	
Trans 2 EPA ID: AZR000513770	
Trans 2 Name: SLT	
TSDF EPA ID: NED981723513	
Trans Name: CLEAN HARBORS ENV SERVICES INC	
TSDF Alt EPA ID: Not reported	
TSDF Alt Name: Not reported	
Waste Code Description: 223 - Unspecified oil-containing waste	
RCRA Code: Not reported	
Meth Code: H040 - Incineration--Thermal Destruction Other Than Use As A Fuel	
Quantity Tons: 0.2085	
Waste Quantity: 50	
Quantity Unit: G	
Additional Code 1: Not reported	
Additional Code 2: Not reported	
Additional Code 3: Not reported	
Additional Code 4: Not reported	
Additional Code 5: Not reported	
Additional Info:	
Year:	2013
Gen EPA ID:	CAL000249462
Shipment Date: 20130419	
Creation Date: 9/28/2013 22:15:14	
Receipt Date: 20130503	
Manifest ID: 003619463SKS	

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CORRELL PROPERTIES (Continued)**

**S113118442**

Trans EPA ID:	TXR000081205
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	MOD095038998
Trans 2 Name:	TSMT
TSDf EPA ID:	TXD077603371
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	F005
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.02
Waste Quantity:	40
Quantity Unit:	P
Additional Code 1:	D035
Additional Code 2:	D001
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Additional Info:	
Year:	2012
Gen EPA ID:	CAL000249462
Shipment Date: 20120217	
Creation Date: 8/22/2012 22:15:08	
Receipt Date: 20120306	
Manifest ID: 003136475SKS	
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	OKD981588791
Trans 2 Name:	TRIAD TRANSPORT INC
TSDf EPA ID:	TXD077603371
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	D001
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.025
Waste Quantity:	50
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Additional Info:	
Year:	2010
Gen EPA ID:	CAL000249462
Shipment Date: 20101207	
Creation Date: 5/19/2011 18:30:18	
Receipt Date: 20101221	
Manifest ID: 003891938FLE	



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CORRELL PROPERTIES (Continued)**

**S113118442**

Trans EPA ID: MAD039322250  
Trans Name: CLEAN HARBORS ENVIRONMENTAL SERVICES INC  
Trans 2 EPA ID: MAD039322250  
Trans 2 Name: CLEAN HARBORS ENV SVC  
TSDf EPA ID: CAD044429835  
Trans Name: CLEAN HARBORS WILMINGTON LLC  
TSDf Alt EPA ID: Not reported  
TSDf Alt Name: Not reported  
Waste Code Description: 221 - Waste oil and mixed oil  
RCRA Code: Not reported  
Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)  
  
Quantity Tons: 0.209  
Waste Quantity: 55  
Quantity Unit: G  
Additional Code 1: Not reported  
Additional Code 2: Not reported  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported

**HWTS:**

Name: DESIGNCO  
Address: 3641 HAVEN AVE  
Address 2: Not reported  
City,State,Zip: MENLO PARK, CA 94025  
EPA ID: CAC002213249  
Inactive Date: 09/11/2001  
Create Date: 01/09/2001  
Last Act Date: Not reported  
Mailing Name: Not reported  
Mailing Address: 3641 HAVEN AVE  
Mailing Address 2: Not reported  
Mailing City,State,Zip: MENLO PARK, CA 940250000  
Owner Name: HANK SCARLETT  
Owner Address: 3641 HAVEN AVE  
Owner Address 2: Not reported  
Owner City,State,Zip: MENLO PARK, CA 940250000  
Contact Name: MIKE PICCOLOTTI  
Contact Address: 3641 HAVEN AVE  
Contact Address 2: Not reported  
City,State,Zip: MENLO PARK, CA 940250000  
Facility Status: Inactive  
Facility Type: TEMPORARY  
Category: STATE  
Latitude: 37.485793  
Longitude: -122.184525

Name: DESIGNCO  
Address: 3641 HAVEN AVE  
Address 2: Not reported  
City,State,Zip: MENLO PARK, CA 94025  
EPA ID: CAL000249462  
Inactive Date: Not reported  
Create Date: 04/05/2002  
Last Act Date: Not reported  
Mailing Name: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CORRELL PROPERTIES (Continued)**

**S113118442**

Mailing Address: PO BOX 693  
Mailing Address 2: Not reported  
Mailing City,State,Zip: REDWOOD CITY, CA 940640693  
Owner Name: PATRICIA SCARLETT  
Owner Address: PO BOX 693  
Owner Address 2: Not reported  
Owner City,State,Zip: REDWOOD CITY, CA 940640000  
Contact Name: PAT SCARLETT  
Contact Address: PO BOX 693  
Contact Address 2: Not reported  
City,State,Zip: REDWOOD CITY, CA 94064  
Facility Status: Active  
Facility Type: PERMANENT  
Category: STATE  
Latitude: 37.485793  
Longitude: -122.184525

**NAICS:**

EPA ID: CAL000249462  
Create Date: 2004-10-20 10:23:57.043  
NAICS Code: 332999  
NAICS Description: All Other Miscellaneous Fabricated Metal Product Manufacturing  
Issued EPA ID Date: 2002-04-05 16:35:31.87300  
Inactive Date: Not reported  
Facility Name: DESIGNCO  
Facility Address: 3641 HAVEN AVE  
Facility Address 2: Not reported  
Facility City: MENLO PARK  
Facility County: Not reported  
Facility State: CA  
Facility Zip: 94025

EPA ID: CAL000249462  
Create Date: 2004-10-20 10:23:57.043  
NAICS Code: 332999  
NAICS Description: All Other Miscellaneous Fabricated Metal Product Manufacturing  
Issued EPA ID Date: 2002-04-05 16:35:31.87300  
Inactive Date: Not reported  
Facility Name: DESIGNCO  
Facility Address: 3641 HAVEN AVE  
Facility Address 2: Not reported  
Facility City: MENLO PARK  
Facility County: Not reported  
Facility State: CA  
Facility Zip: 94025

**B39**  
**West**  
**< 1/8**  
**0.053 mi.**  
**282 ft.**

**CORRELL PROPERTIES**  
**3641 HAVEN AVE**  
**MENLO PARK, CA 94025**  
**Site 3 of 17 in cluster B**

**CA HIST UST** **U001594181**  
**N/A**

**Relative:**  
**Higher**  
**Actual:**  
**11 ft.**

HIST UST:  
Name: CORRELL PROPERTIES  
Address: 3641 HAVEN AVE  
City,State,Zip: MENLO PARK, CA 94025  
File Number: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CORRELL PROPERTIES (Continued)**

**U001594181**

URL: Not reported  
Region: STATE  
Facility ID: 00000038150  
Facility Type: Gas Station  
Other Type: Not reported  
Contact Name: OWNERS  
Telephone: 4153217595  
Owner Name: CORRELL PROPERTIES  
Owner Address: 2 MAPLE AVENUE  
Owner City,St,Zip: ATHERTON, CA 94025  
Total Tanks: 0002

Tank Num: 001  
Container Num: 1  
Year Installed: 1979  
Tank Capacity: 00002000  
Tank Used for: PRODUCT  
Type of Fuel: DIESEL  
Container Construction Thickness: 1/4"  
Leak Detection: Stock Inventor

Tank Num: 002  
Container Num: 2  
Year Installed: 1979  
Tank Capacity: 00002000  
Tank Used for: PRODUCT  
Type of Fuel: REGULAR  
Container Construction Thickness: 1/2"  
Leak Detection: Stock Inventor

**B40**  
**West**  
**< 1/8**  
**0.053 mi.**  
**282 ft.**

**DESIGNCO**  
**3641 HAVEN AVE**  
**MENLO PARK, CA 94025**

**RCRA NonGen / NLR 1024802804**  
**CAL000249462**

**Site 4 of 17 in cluster B**

**Relative:**  
**Higher**  
**Actual:**  
**11 ft.**

RCRA Listings:  
Date Form Received by Agency: 20020405  
Handler Name: DESIGNCO  
Handler Address: 3641 HAVEN AVE  
Handler City,State,Zip: MENLO PARK, CA 94025  
EPA ID: CAL000249462  
Contact Name: PAT SCARLETT  
Contact Address: PO BOX 693  
Contact City,State,Zip: REDWOOD CITY, CA 94064  
Contact Telephone: 650-365-6505  
Contact Fax: 650-365-5471  
Contact Email: MATT@DESIGNCO.NET  
Contact Title: Not reported  
EPA Region: 09  
Land Type: Not reported  
Federal Waste Generator Description: Not a generator, verified  
Non-Notifier: Not reported  
Biennial Report Cycle: Not reported  
Accessibility: Not reported  
Active Site Indicator: Handler Activities  
State District Owner: Not reported  
State District: Not reported

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**DESIGNCO (Continued)**

**1024802804**

Mailing Address:		PO BOX 693
Mailing City,State,Zip:		REDWOOD CITY, CA 94064-0693
Owner Name:	PATRICIA SCARLETT	
Owner Type:		Other
Operator Name:	PAT SCARLETT	
Operator Type:		Other
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No
Smelting Melting and Refining Furnace Exemption:		No
Underground Injection Control:		No
Off-Site Waste Receipt:		No
Universal Waste Indicator:		Yes
Universal Waste Destination Facility:		Yes
Federal Universal Waste:		No
Active Site Fed-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site Converter Treatment storage and Disposal Facility:		Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site State-Reg Handler:		---
Federal Facility Indicator:		Not reported
Hazardous Secondary Material Indicator:		N
Sub-Part K Indicator:		Not reported
Commercial TSD Indicator:		No
Treatment Storage and Disposal Type:		Not reported
2018 GPRA Permit Baseline:		Not on the Baseline
2018 GPRA Renewals Baseline:		Not on the Baseline
Permit Renewals Workload Universe:		Not reported
Permit Workload Universe:		Not reported
Permit Progress Universe:		Not reported
Post-Closure Workload Universe:		Not reported
Closure Workload Universe:		Not reported
202 GPRA Corrective Action Baseline:		No
Corrective Action Workload Universe:		No
Subject to Corrective Action Universe:		No
Non-TSDFs Where RCRA CA has Been Imposed Universe:		No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:		No
TSDFs Only Subject to CA under Discretionary Auth Universe:		No
Corrective Action Priority Ranking:		No NCAPS ranking
Environmental Control Indicator:		No
Institutional Control Indicator:		No
Human Exposure Controls Indicator:		N/A
Groundwater Controls Indicator:		N/A
Operating TSDF Universe:		Not reported
Full Enforcement Universe:		Not reported
Significant Non-Complier Universe:		No
Unaddressed Significant Non-Complier Universe:		No
Addressed Significant Non-Complier Universe:		No
Significant Non-Complier With a Compliance Schedule Universe:		No
Financial Assurance Required:	Not reported	
Handler Date of Last Change:		20180905
Recognized Trader-Importer:		No
Recognized Trader-Exporter:		No
Importer of Spent Lead Acid Batteries:		No

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DESIGNCO (Continued)**

**1024802804**

Exporter of Spent Lead Acid Batteries: No  
Recycler Activity Without Storage: No  
Manifest Broker: No  
Sub-Part P Indicator: No

Handler - Owner Operator:

Owner/Operator Indicator: Owner  
Owner/Operator Name: PATRICIA SCARLETT  
Legal Status: Other  
Date Became Current: Not reported  
Date Ended Current: Not reported  
Owner/Operator Address: PO BOX 693  
Owner/Operator City,State,Zip: REDWOOD CITY, CA 94064-0000  
Owner/Operator Telephone: 650-365-6505  
Owner/Operator Telephone Ext: Not reported  
Owner/Operator Fax: Not reported  
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator  
Owner/Operator Name: PAT SCARLETT  
Legal Status: Other  
Date Became Current: Not reported  
Date Ended Current: Not reported  
Owner/Operator Address: PO BOX 693  
Owner/Operator City,State,Zip: REDWOOD CITY, CA 94064  
Owner/Operator Telephone: 650-365-6505  
Owner/Operator Telephone Ext: Not reported  
Owner/Operator Fax: Not reported  
Owner/Operator Email: Not reported

Historic Generators:

Receive Date: 20020405  
Handler Name: DESIGNCO  
Federal Waste Generator Description: Not a generator, verified  
State District Owner: Not reported  
Large Quantity Handler of Universal Waste: No  
Recognized Trader Importer: No  
Recognized Trader Exporter: No  
Spent Lead Acid Battery Importer: No  
Spent Lead Acid Battery Exporter: No  
Current Record: Yes  
Non Storage Recycler Activity: Not reported  
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:

NAICS Code: 332999  
NAICS Description: ALL OTHER MISCELLANEOUS FABRICATED METAL PRODUCT MANUFACTURING

Facility Has Received Notices of Violations:

Violations: No Violations Found

Evaluation Action Summary:

Evaluations: No Evaluations Found

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**B41**  
**West**  
**< 1/8**  
**0.053 mi.**  
**282 ft.**

**BARIENT INC**  
**3641 HAVEN AVE**  
**MENLO PARK, CA 94025**

**Site 5 of 17 in cluster B**

**RCRA-SQG** **1000249307**  
**FINDS** **CAD980882690**  
**ECHO**

**Relative:**  
**Higher**  
**Actual:**  
**11 ft.**

RCRA Listings:  
 Date Form Received by Agency: 19960901  
 Handler Name: BARIENT INC  
 Handler Address: 3641 HAVEN AVE  
 Handler City,State,Zip: MENLO PARK, CA 94025  
 EPA ID: CAD980882690  
 Contact Name: Not reported  
 Contact Address: Not reported  
 Contact City,State,Zip: Not reported  
 Contact Telephone: Not reported  
 Contact Fax: Not reported  
 Contact Email: Not reported  
 Contact Title: Not reported  
 EPA Region: 09  
 Land Type: Not reported  
 Federal Waste Generator Description: Small Quantity Generator  
 Non-Notifier: Not reported  
 Biennial Report Cycle: Not reported  
 Accessibility: Not reported  
 Active Site Indicator: Handler Activities  
 State District Owner: CA  
 State District: 2  
 Mailing Address: HAVEN AVE  
 Mailing City,State,Zip: MENLO PARK, CA 94025  
 Owner Name: NOT REQUIRED  
 Owner Type: Private  
 Operator Name: NOT REQUIRED  
 Operator Type: Private  
 Short-Term Generator Activity: No  
 Importer Activity: No  
 Mixed Waste Generator: No  
 Transporter Activity: No  
 Transfer Facility Activity: No  
 Recycler Activity with Storage: No  
 Small Quantity On-Site Burner Exemption: No  
 Smelting Melting and Refining Furnace Exemption: No  
 Underground Injection Control: No  
 Off-Site Waste Receipt: No  
 Universal Waste Indicator: No  
 Universal Waste Destination Facility: No  
 Federal Universal Waste: No  
 Active Site Fed-Reg Treatment Storage and Disposal Facility: Not reported  
 Active Site Converter Treatment storage and Disposal Facility: Not reported  
 Active Site State-Reg Treatment Storage and Disposal Facility: Not reported  
 Active Site State-Reg Handler: ---  
 Federal Facility Indicator: Not reported  
 Hazardous Secondary Material Indicator: NN  
 Sub-Part K Indicator: Not reported  
 Commercial TSD Indicator: No  
 Treatment Storage and Disposal Type: Not reported  
 2018 GPRA Permit Baseline: Not on the Baseline  
 2018 GPRA Renewals Baseline: Not on the Baseline  
 Permit Renewals Workload Universe: Not reported

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**BARIENT INC (Continued)**

**1000249307**

Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20000915
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name: NOT REQUIRED	
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	NOT REQUIRED
Owner/Operator City,State,Zip:	NOT REQUIRED, ME 99999
Owner/Operator Telephone:	415-555-1212
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name: NOT REQUIRED	
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	NOT REQUIRED
Owner/Operator City,State,Zip:	NOT REQUIRED, ME 99999
Owner/Operator Telephone:	415-555-1212
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BARIENT INC (Continued)**

**1000249307**

Historic Generators:

Receive Date: 19960901  
Handler Name: BARIENT INC  
Federal Waste Generator Description: Small Quantity Generator  
State District Owner: CA  
Large Quantity Handler of Universal Waste: No  
Recognized Trader Importer: No  
Recognized Trader Exporter: No  
Spent Lead Acid Battery Importer: No  
Spent Lead Acid Battery Exporter: No  
Current Record: Yes  
Non Storage Recycler Activity: Not reported  
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:

NAICS Codes: No NAICS Codes Found

Facility Has Received Notices of Violations:

Violations: No Violations Found

Evaluation Action Summary:

Evaluations: No Evaluations Found

FINDS:

Registry ID: 110002673483

[Click Here for FRS Facility Detail Report:](#)

Environmental Interest/Information System:

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

[Click this hyperlink](#) while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid: 1000249307  
Registry ID: 110002673483  
DFR URL: <http://echo.epa.gov/detailed-facility-report?fid=110002673483>  
Name: BARIENT INC  
Address: 3641 HAVEN AVE  
City,State,Zip: MENLO PARK, CA 94025



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**B42**  
**West**  
**< 1/8**  
**0.053 mi.**  
**282 ft.**

**DESIGNCO**  
**3641 HAVEN**  
**MENLO PARK, CA 94025**

**CA CERS HAZ WASTE**  
**CA San Mateo Co. BI**  
**CA CERS**

**S104972916**  
**N/A**

**Site 6 of 17 in cluster B**

**Relative:**  
**Higher**  
**Actual:**  
**11 ft.**

CERS HAZ WASTE:  
Name: DESIGNCO  
Address: 3641 HAVEN  
City,State,Zip: MENLO PARK, CA 94025  
Site ID: 24902  
CERS ID: 10067728  
CERS Description: Hazardous Waste Generator

San Mateo Co. BI:  
Name: DESIGNCO  
Address: 3641 HAVEN  
City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0026074  
Prog Element Code: GENERATES <27 GAL/YEAR  
Record Id: PR0037583  
Description: GENERATES <27 GAL/YEAR  
Facility Status: Active, billable  
Program Category: HAZARDOUS WASTE PROGRAM

Name: DESIGNCO  
Address: 3641 HAVEN  
City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0026074  
Prog Element Code: STORMWATER ANNUAL INSPECTION FEE  
Record Id: PR0040656  
Description: STORMWATER ANNUAL FEE - INSP FREQ EVERY 2 YRS  
Facility Status: Inactive, non-billable  
Program Category: STORMWATER

Name: DESIGNCO  
Address: 3641 HAVEN  
City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0026074  
Prog Element Code: STORES HAZ MAT <219GAL,1,999LB, 879FT3  
Record Id: PR0037582  
Description: STORES HAZ MAT <219GAL,1,999LB, 879CF  
Facility Status: Active, billable  
Program Category: BUSINESS PLAN PROGRAM

CERS:  
Name: DESIGNCO  
Address: 3641 HAVEN  
City,State,Zip: MENLO PARK, CA 94025  
Site ID: 24902  
CERS ID: 10067728  
CERS Description: Chemical Storage Facilities

Violations:  
Site ID: 24902  
Site Name: DESIGNCO

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DESIGNCO (Continued)**

**S104972916**

Violation Date: 10-23-2015  
Citation: HSC 6.5 25250.19(c) - California Health and Safety Code, Chapter 6.5, Section(s) 25250.19(c)  
Violation Description: Failure to retain paperwork documenting disposal of used oil for three years.  
Violation Notes: Returned to compliance on 01/11/2016. Documents unavailable at time of inspection. Documents must be available upon request by the inspector. Provide documentation to the County within 30 days.  
Violation Division: San Mateo County Environmental Health  
Violation Program: HW  
Violation Source: CERS,

Site ID: 24902  
Site Name: DESIGNCO  
Violation Date: 10-23-2015  
Citation: 40 CFR 1 262.34(d)(5)(iii) - U.S. Code of Federal Regulations, Title 40, Chapter 1, Section(s) 262.34(d)(5)(iii)  
Violation Description: Failure to ensure employees are familiar with the handling and compliance of hazardous waste regulations and emergency response.  
Violation Notes: Returned to compliance on 03/08/2016. Documents unavailable at time of inspection. Documents must be available upon request by the inspector. Provide documentation to the County within 30 days.  
Violation Division: San Mateo County Environmental Health  
Violation Program: HW  
Violation Source: CERS,

Site ID: 24902  
Site Name: DESIGNCO  
Violation Date: 10-23-2015  
Citation: 22 CCR 12 66262.20 - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.20  
Violation Description: Failure to prepare a hazardous waste manifest for the transport of a hazardous waste for off-site transfer, treatment, storage, or disposal.  
Violation Notes: Returned to compliance on 01/11/2016. Documents unavailable at time of inspection. Documents must be available upon request by the inspector. Provide documentation to the County within 30 days.  
Violation Division: San Mateo County Environmental Health  
Violation Program: HW  
Violation Source: CERS,

Site ID: 24902  
Site Name: DESIGNCO  
Violation Date: 10-23-2015  
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)  
Violation Description: Failure to complete and electronically submit a site map with all required content.  
Violation Notes: Returned to compliance on 12/17/2015. Site map lacks the following deficiencies: Emergency equipment, evacuation routes and assembly area, storm drains, and other hazardous material/waste locations. Submit with hazardous materials business plan on the Portal within 30 days.  
Violation Division: San Mateo County Environmental Health  
Violation Program: HMRRP  
Violation Source: CERS,

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DESIGNCO (Continued)**

**S104972916**

Site ID: 24902  
Site Name: DESIGNCO  
Violation Date: 10-23-2015  
Citation: HSC 6.5 25160.2 - California Health and Safety Code, Chapter 6.5, Section(s) 25160.2  
Violation Description: Failure to meet any of the following consolidated manifest requirements: 1) Legible receipts for each quantity of hazardous waste that is received from a generator, 2) The generator's information (name, address, identification number, contact person, telephone number of the generator, the signature of the generator or the generator's representative), 3) Date of the shipment, 4) The manifest number, 5) The volume or quantity of each waste stream received, 6) The name, address, and identification number of the authorized facility to which the hazardous waste will be transported, 7) The transporter's information (name, address, and identification number, the driver's signature), 8) A statement, signed by the generator, certifying that the generator has established a program to reduce the volume or quantity and toxicity of the hazardous waste to the degree economically practicable. 9) The generator shall retain each receipt for at least three years.  
Violation Notes: Returned to compliance on 12/17/2015. Documents unavailable at time of inspection. Documents must be available upon request by the inspector. Provide documentation to the County within 30 days.  
Violation Division: San Mateo County Environmental Health  
Violation Program: HW  
Violation Source: CERS,

Site ID: 24902  
Site Name: DESIGNCO  
Violation Date: 10-23-2015  
Citation: 22 CCR 23 66273.35 - California Code of Regulations, Title 22, Chapter 23, Section(s) 66273.35  
Violation Description: Failure of the universal waste handler to properly process accumulated universal waste within a maximum accumulation time of one year and /or demonstrate the length of time that the universal waste has been accumulated from the date it became a waste or was received. The universal waste handler may make this demonstration by: 1) Placing the universal waste in a container and marking or labeling the container with the earliest date that any universal waste in the container became a waste or was received; 2) Marking or labeling the individual item of universal waste (e.g., each battery or thermostat) with the date it became a waste or was received; 3) Maintaining an inventory system onsite that identifies the date the universal waste being accumulated became a waste or was received; 4) Maintaining an inventory system onsite that identifies the earliest date that any universal waste in a group of items of universal waste or a group of containers of universal waste became a waste or was received; 5) Placing the universal waste in a specific accumulation area and marking or labeling the area to identify the earliest date that any universal waste in the area became a waste or was received; or 6) Any other method which clearly demonstrates the length of time that the universal waste has been accumulated from the date it became a waste or was received.  
Violation Notes: Returned to compliance on 03/08/2016. Documents unavailable at time of inspection. Documents must be available upon request by the inspector. Provide documentation to the County within 30 days.  
Violation Division: San Mateo County Environmental Health

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DESIGNCO (Continued)**

**S104972916**

Violation Program: HW  
Violation Source: CERS,

Site ID: 24902  
Site Name: DESIGNCO  
Violation Date: 10-23-2015  
Citation: 22 CCR 12 66262.23(a) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.23(a)  
Violation Description: Failure to properly complete the Hazardous Waste manifest.  
Violation Notes: Returned to compliance on 01/11/2016. Documents unavailable at time of inspection. Documents must be available upon request by the inspector. Provide documentation to the County within 30 days.

Violation Division: San Mateo County Environmental Health  
Violation Program: HW  
Violation Source: CERS,

Site ID: 24902  
Site Name: DESIGNCO  
Violation Date: 10-19-2021  
Citation: 22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)  
Violation Description: Failure to properly label hazardous waste accumulation containers and portable tanks with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.  
Violation Notes: Returned to compliance on 10/19/2021. Hazardous waste container missing accumulation start date - corrected during inspection. Last hazardous waste pickup March 20, 2020. As a very small quantity generator, please dispose of your hazardous annually.

Violation Division: San Mateo County Environmental Health  
Violation Program: HW  
Violation Source: CERS,

Site ID: 24902  
Site Name: DESIGNCO  
Violation Date: 10-23-2015  
Citation: 40 CFR 1 265.173 - U.S. Code of Federal Regulations, Title 40, Chapter 1, Section(s) 265.173  
Violation Description: Failure to properly close hazardous waste containers when not in active use.  
Violation Notes: Returned to compliance on 12/17/2015. Waste oil/coolant/water container left open. All hazardous waste containers must be closed when not in use. Correct violation and submit documentation to the County within 30 days. (photo ok to correct violation)

Violation Division: San Mateo County Environmental Health  
Violation Program: HW  
Violation Source: CERS,

Site ID: 24902  
Site Name: DESIGNCO  
Violation Date: 10-23-2015  
Citation: 22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)  
Violation Description: Failure to properly label hazardous waste accumulation containers with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DESIGNCO (Continued)**

**S104972916**

Violation Notes: Waste, and starting accumulation date. Returned to compliance on 12/17/2015. Unlabeled waste oil/coolant/water container, multiple 5 gallon waste antifreeze containers in shed unlabeled, waste container that did have a label did not have start accumulation date. All hazardous waste containers must be properly labeled. Correct violation and submit documentation to the County within 30 days. Hazardous Waste label was given to Evan as an example. (photos ok to correct violation).

Violation Division: San Mateo County Environmental Health  
Violation Program: HW  
Violation Source: CERS,

Site ID: 24902  
Site Name: DESIGNCO  
Violation Date: 10-23-2015  
Citation: 22 CCR 12 66262.23(a)(4) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.23(a)(4)

Violation Description: Failure to send hazardous waste manifest copies to DTSC.  
Violation Notes: Returned to compliance on 01/11/2016. Documents unavailable at time of inspection. Documents must be available upon request by the inspector. Provide documentation to the County within 30 days.

Violation Division: San Mateo County Environmental Health  
Violation Program: HW  
Violation Source: CERS,

Site ID: 24902  
Site Name: DESIGNCO  
Violation Date: 10-23-2015  
Citation: 49 CFR 1 172.201(e) - U.S. Code of Federal Regulations, Title 49, Chapter 1, Section(s) 172.201(e)

Violation Description: Failure of the universal waste handler to properly package, label, mark, placard, or prepare and retain shipping papers for all universal waste being shipped to another universal waste handler, destination facility, or foreign facility.

Violation Notes: Returned to compliance on 03/08/2016. Documents unavailable at time of inspection. Documents must be available upon request by the inspector. Provide documentation to the County within 30 days.

Violation Division: San Mateo County Environmental Health  
Violation Program: HW  
Violation Source: CERS,

Site ID: 24902  
Site Name: DESIGNCO  
Violation Date: 10-23-2015  
Citation: 22 CCR 12 66262.40(a) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.40(a)

Violation Description: Failure to maintain uniform hazardous waste manifest, consolidated manifest, or bills of lading copies for three years.

Violation Notes: Returned to compliance on 01/11/2016. Documents unavailable at time of inspection. Documents must be available upon request by the inspector. Provide documentation to the County within 30 days.

Violation Division: San Mateo County Environmental Health  
Violation Program: HW  
Violation Source: CERS,

Site ID: 24902  
Site Name: DESIGNCO

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DESIGNCO (Continued)**

**S104972916**

Violation Date: 10-23-2015  
Citation: 22 CCR 18 66268.7(a) - California Code of Regulations, Title 22, Chapter 18, Section(s) 66268.7(a)  
Violation Description: Failure of the generator to determine if the waste is restricted from land disposal.  
Violation Notes: Returned to compliance on 01/11/2016. Documents unavailable at time of inspection. Documents must be available upon request by the inspector. Provide documentation to the County within 30 days.  
Violation Division: San Mateo County Environmental Health  
Violation Program: HW  
Violation Source: CERS,

Site ID: 24902  
Site Name: DESIGNCO  
Violation Date: 10-23-2015  
Citation: 22 CCR 12 66262.27(b) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.27(b)  
Violation Description: Failure of the hazardous waste generator to certify on the manifest that a good faith effort has been made to reduce hazardous waste.  
Violation Notes: Returned to compliance on 12/17/2015. Documents unavailable at time of inspection. Documents must be available upon request by the inspector. Provide documentation to the County within 30 days.  
Violation Division: San Mateo County Environmental Health  
Violation Program: HW  
Violation Source: CERS,

Site ID: 24902  
Site Name: DESIGNCO  
Violation Date: 10-23-2015  
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)  
Violation Description: Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.  
Violation Notes: Returned to compliance on 12/17/2015. Threshold amounts of chemicals were not included in inventory. All wastes not in inventory. New oil and coolant not in inventory. Ethanol and hydraulic oils not in inventory. Update chemical inventory into hazardous materials business plan on the Portal within 30 days.  
Violation Division: San Mateo County Environmental Health  
Violation Program: HMRRP  
Violation Source: CERS,

Evaluation:  
Eval General Type: Other/Unknown  
Eval Date: 01-11-2016  
Violations Found: No  
Eval Type: Other, not routine, done by local agency  
Eval Notes: met with Evan and cleared up some violations  
Eval Division: San Mateo County Environmental Health  
Eval Program: HW  
Eval Source: CERS,

Eval General Type: Other/Unknown  
Eval Date: 03-30-2022  
Violations Found: No  
Eval Type: Other, not routine, done by local agency

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

DESIGNCO (Continued)

S104972916

Eval Notes: Not reported  
Eval Division: San Mateo County Environmental Health  
Eval Program: HMRRP  
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection  
Eval Date: 10-19-2021  
Violations Found: Yes  
Eval Type: Routine done by local agency  
Eval Notes: Facility generates solid debris contaminated with grease at very small quantity levels.

Eval Division: San Mateo County Environmental Health  
Eval Program: HW  
Eval Source: CERS,

Eval General Type: Other/Unknown  
Eval Date: 10-13-2017  
Violations Found: No  
Eval Type: Other, not routine, done by local agency  
Eval Notes: Not reported  
Eval Division: San Mateo County Environmental Health  
Eval Program: HMRRP  
Eval Source: CERS,

Eval General Type: Other/Unknown  
Eval Date: 10-13-2017  
Violations Found: No  
Eval Type: Other, not routine, done by local agency  
Eval Notes: tried to inspect - could not find  
Eval Division: San Mateo County Environmental Health  
Eval Program: HW  
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection  
Eval Date: 10-16-2019  
Violations Found: No  
Eval Type: Routine done by local agency  
Eval Notes: Not reported  
Eval Division: San Mateo County Environmental Health  
Eval Program: HMRRP  
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection  
Eval Date: 10-16-2019  
Violations Found: No  
Eval Type: Routine done by local agency  
Eval Notes: Not reported  
Eval Division: San Mateo County Environmental Health  
Eval Program: HW  
Eval Source: CERS,

Eval General Type: Other/Unknown  
Eval Date: 04-01-2020  
Violations Found: No  
Eval Type: Other, not routine, done by local agency  
Eval Notes: Not reported  
Eval Division: San Mateo County Environmental Health

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**DESIGNCO (Continued)**

**S104972916**

<p>Eval Program: HMRRP          Eval Source: CERS,</p> <p>Eval General Type: Other/Unknown          Eval Date: 03-08-2016          Violations Found: No          Eval Type: Other, not routine, done by local agency          Eval Notes: Performing follow up inspection to check the status of corrective actions. I met with Evan McIntosh. They have disposed of their Fluorescent tubes via Veolia. Mail program. Documents observed. The staff has also been now trained. Training documents verified.</p> <p>Eval Division: San Mateo County Environmental Health          Eval Program: HW          Eval Source: CERS,</p> <p>Eval General Type: Other/Unknown          Eval Date: 06-04-2018          Violations Found: No          Eval Type: Other, not routine, done by local agency          Eval Notes: Not reported          Eval Division: San Mateo County Environmental Health          Eval Program: HMRRP          Eval Source: CERS,</p> <p>Eval General Type: Other/Unknown          Eval Date: 07-29-2015          Violations Found: No          Eval Type: Other, not routine, done by local agency          Eval Notes: Not reported          Eval Division: San Mateo County Environmental Health          Eval Program: HMRRP          Eval Source: CERS,</p> <p>Eval General Type: Compliance Evaluation Inspection          Eval Date: 10-19-2021          Violations Found: No          Eval Type: Routine done by local agency          Eval Notes: Last accepted HMBP submitted on 2-19-2021.          Eval Division: San Mateo County Environmental Health          Eval Program: HMRRP          Eval Source: CERS,</p> <p>Eval General Type: Compliance Evaluation Inspection          Eval Date: 10-23-2015          Violations Found: Yes          Eval Type: Routine done by local agency          Eval Notes: Not reported          Eval Division: San Mateo County Environmental Health          Eval Program: HMRRP          Eval Source: CERS,</p> <p>Eval General Type: Compliance Evaluation Inspection          Eval Date: 10-23-2015          Violations Found: Yes          Eval Type: Routine done by local agency          Eval Notes: Not reported          Eval Division: San Mateo County Environmental Health</p>	<p>San Mateo County Environmental Health</p>
---	--



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DESIGNCO (Continued)**

**S104972916**

Eval Program: HW  
Eval Source: CERS,  
  
Eval General Type: Compliance Evaluation Inspection  
Eval Date: 11-07-2017  
Violations Found: No  
Eval Type: Routine done by local agency  
Eval Notes: Not reported  
Eval Division: San Mateo County Environmental Health  
Eval Program: HMRRP  
Eval Source: CERS,  
  
Eval General Type: Compliance Evaluation Inspection  
Eval Date: 11-07-2017  
Violations Found: No  
Eval Type: Routine done by local agency  
Eval Notes: Not reported  
Eval Division: San Mateo County Environmental Health  
Eval Program: HW  
Eval Source: CERS,  
  
Eval General Type: Other/Unknown  
Eval Date: 12-30-2015  
Violations Found: No  
Eval Type: Other, not routine, done by local agency  
Eval Notes: Not reported  
Eval Division: San Mateo County Environmental Health  
Eval Program: HMRRP  
Eval Source: CERS,

**Affiliation:**

Affiliation Type Desc: CUPA District  
Entity Name: San Mateo County Environmental Health  
Entity Title: Not reported  
Affiliation Address: 2000 Alameda de las Pulgas, Suite 100  
Affiliation City: San Mateo  
Affiliation State: CA  
Affiliation Country: Not reported  
Affiliation Zip: 94403  
Affiliation Phone: (650) 372-6200,

Affiliation Type Desc: Document Preparer  
Entity Name: Pat Scarlett  
Entity Title: Not reported  
Affiliation Address: Not reported  
Affiliation City: Not reported  
Affiliation State: Not reported  
Affiliation Country: Not reported  
Affiliation Zip: Not reported  
Affiliation Phone: ,

Affiliation Type Desc: Environmental Contact  
Entity Name: Pat Scarlett  
Entity Title: Not reported  
Affiliation Address: 3641 Haven Ave STE B  
Affiliation City: Menlo Park  
Affiliation State: CA

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DESIGNCO (Continued)**

**S104972916**

Affiliation Country: Not reported  
Affiliation Zip: 94025  
Affiliation Phone: ,

Affiliation Type Desc: Legal Owner  
Entity Name: DESIGNCO  
Entity Title: Not reported  
Affiliation Address: 3641 STE B HAVEN  
Affiliation City: MENLO PARK  
Affiliation State: CA  
Affiliation Country: United States  
Affiliation Zip: 94025  
Affiliation Phone: (650) 365-6505,

Affiliation Type Desc: Property Owner  
Entity Name: Designco Inc.  
Entity Title: Not reported  
Affiliation Address: 3641 Haven Ave. Ste B  
Affiliation City: Menlo Park  
Affiliation State: CA  
Affiliation Country: United States  
Affiliation Zip: 94025  
Affiliation Phone: (650) 365-6505,

Affiliation Type Desc: Facility Mailing Address  
Entity Name: Mailing Address  
Entity Title: Not reported  
Affiliation Address: 3641 HAVEN STE B  
Affiliation City: MENLO PARK  
Affiliation State: CA  
Affiliation Country: Not reported  
Affiliation Zip: 94025  
Affiliation Phone: ,

Affiliation Type Desc: Identification Signer  
Entity Name: Pat Scarlett  
Entity Title: Secty/Treas  
Affiliation Address: Not reported  
Affiliation City: Not reported  
Affiliation State: Not reported  
Affiliation Country: Not reported  
Affiliation Zip: Not reported  
Affiliation Phone: ,

Affiliation Type Desc: Parent Corporation  
Entity Name: DESIGNCO  
Entity Title: Not reported  
Affiliation Address: Not reported  
Affiliation City: Not reported  
Affiliation State: Not reported  
Affiliation Country: Not reported  
Affiliation Zip: Not reported  
Affiliation Phone: ,

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**B43**  
**West**  
**< 1/8**  
**0.059 mi.**  
**309 ft.**

**ANTON MENLO**  
**3639 HAVEN AVENUE**  
**MENLO PARK, CA 94025**

**RCRA NonGen / NLR**

**1027457472**  
**CAC003195756**

**Site 7 of 17 in cluster B**

**Relative:**  
**Higher**  
**Actual:**  
**11 ft.**

RCRA Listings:  
 Date Form Received by Agency: 20220920  
 Handler Name: ANTON MENLO  
 Handler Address: 3639 HAVEN AVENUE  
 Handler City,State,Zip: MENLO PARK, CA 94025  
 EPA ID: CAC003195756  
 Contact Name: JORGE ROMAN  
 Contact Address: 3639 HAVEN AVENUE  
 Contact City,State,Zip: MENLO PARK, CA 94025  
 Contact Telephone: 650-413-9900  
 Contact Fax: Not reported  
 Contact Email: MENLOMANAGER@ANTONDEV.COM  
 Contact Title: Not reported  
 EPA Region: 09  
 Land Type: Not reported  
 Federal Waste Generator Description: Not a generator, verified  
 Non-Notifier: Not reported  
 Biennial Report Cycle: Not reported  
 Accessibility: Not reported  
 Active Site Indicator: Not reported  
 State District Owner: Not reported  
 State District: Not reported  
 Mailing Address: 3639 HAVEN AVENUE  
 Mailing City,State,Zip: MENLO PARK, CA 94025  
 Owner Name: ANTON MENLO  
 Owner Type: Other  
 Operator Name: JORGE ROMAN  
 Operator Type: Other  
 Short-Term Generator Activity: No  
 Importer Activity: No  
 Mixed Waste Generator: No  
 Transporter Activity: No  
 Transfer Facility Activity: No  
 Recycler Activity with Storage: No  
 Small Quantity On-Site Burner Exemption: No  
 Smelting Melting and Refining Furnace Exemption: No  
 Underground Injection Control: No  
 Off-Site Waste Receipt: No  
 Universal Waste Indicator: No  
 Universal Waste Destination Facility: No  
 Federal Universal Waste: No  
 Active Site Fed-Reg Treatment Storage and Disposal Facility: Not reported  
 Active Site Converter Treatment storage and Disposal Facility: Not reported  
 Active Site State-Reg Treatment Storage and Disposal Facility: Not reported  
 Active Site State-Reg Handler: ---  
 Federal Facility Indicator: Not reported  
 Hazardous Secondary Material Indicator: N  
 Sub-Part K Indicator: Not reported  
 Commercial TSD Indicator: No  
 Treatment Storage and Disposal Type: Not reported  
 2018 GPRA Permit Baseline: Not on the Baseline  
 2018 GPRA Renewals Baseline: Not on the Baseline  
 Permit Renewals Workload Universe: Not reported

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**ANTON MENLO (Continued)**

**1027457472**

Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20220921
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name: JORGE ROMAN	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	3639 HAVEN AVENUE
Owner/Operator City,State,Zip:	MENLO PARK, CA 94025
Owner/Operator Telephone:	650-413-9900
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name: ANTON MENLO	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	3639 HAVEN AVENUE
Owner/Operator City,State,Zip:	MENLO PARK, CA 94025
Owner/Operator Telephone:	650-413-9900
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ANTON MENLO (Continued)**

**1027457472**

Historic Generators:

Receive Date: 20220920  
Handler Name: ANTON MENLO  
Federal Waste Generator Description: Not a generator, verified  
State District Owner: Not reported  
Large Quantity Handler of Universal Waste: No  
Recognized Trader Importer: No  
Recognized Trader Exporter: No  
Spent Lead Acid Battery Importer: No  
Spent Lead Acid Battery Exporter: No  
Current Record: Yes  
Non Storage Recycler Activity: No  
Electronic Manifest Broker: No

List of NAICS Codes and Descriptions:

NAICS Code: 56299  
NAICS Description: ALL OTHER WASTE MANAGEMENT SERVICES

Facility Has Received Notices of Violations:

Violations: No Violations Found

Evaluation Action Summary:

Evaluations: No Evaluations Found

**B44**  
**West**  
**< 1/8**  
**0.059 mi.**  
**309 ft.**

**CHEVRON SERVICE STATION #**  
**3639 HAVEN**  
**MENLO PARK, CA 94025**  
**Site 8 of 17 in cluster B**

**CA San Mateo Co. BI** **S102268306**  
**CA HIST CORTESE** **N/A**

**Relative:**  
**Higher**  
**Actual:**  
**11 ft.**

San Mateo Co. BI:  
Name: GOODMAN BALL INC  
Address: 3639 HAVEN  
City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0014360  
Prog Element Code: STORMWATER ANNUAL INSPECTION FEE  
Record Id: PR0040547  
Description: STORMWATER ANNUAL FEE - INSP FREQ EVERY 2 YRS  
Facility Status: Inactive, non-billable  
Program Category: STORMWATER

Name: GOODMAN BALL INC  
Address: 3639 HAVEN  
City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0014360  
Prog Element Code: GEN <1 TONS HAZ WASTE/YR  
Record Id: PR0023263  
Description: GEN <1 TONS HAZ WASTE/YR  
Facility Status: Inactive, non-billable  
Program Category: HAZARDOUS WASTE PROGRAM

Name: GOODMAN BALL INC  
Address: 3639 HAVEN

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CHEVRON SERVICE STATION # (Continued)**

**S102268306**

City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0014360  
Prog Element Code: STORES HAZ MAT <1,199GAL,9,999LB,4,799FT3  
Record Id: PR0023262  
Description: STORES HAZ MAT <1,199GAL,9,999LB,4,799CF  
Facility Status: Inactive, non-billable  
Program Category: BUSINESS PLAN PROGRAM

HIST CORTESE:  
edr\_fname: CHEVRON SERVICE STATION #  
edr\_fadd1: 3639 HAVEN  
City,State,Zip: MENLO PARK, CA 94025  
Region: CORTESE  
Facility County Code: 41  
Reg By: LTNKA  
Reg Id: 2831

**D45  
NNW  
< 1/8  
0.062 mi.  
325 ft.**

**CT INTERNATIONAL SALES  
3645 HAVEN  
MENLO PARK, CA 94403  
Site 1 of 2 in cluster D**

**CA LUST  
CA CPS-SLIC  
CA DEED  
CA San Mateo Co. BI  
CA CERS**

**S102445197  
N/A**

**Relative:  
Higher  
Actual:  
10 ft.**

SAN MATEO CO. LUST:  
Name: CT INTERNATIONAL SALES  
Address: 3645 HAVEN AVE  
City,State,Zip: MENLO PARK, CA  
Region: SAN MATEO  
Facility ID: 449077  
Facility Status: 9- Case Closed  
Global ID: SL0608120935  
APN Number: 055170220  
Case Type: MENLO PARK, CA  
EDR Link ID: MENLO PARK, CA

Name: CT INTERNATIONAL SALES  
Address: 3645 HAVEN AVE  
City,State,Zip: MENLO PARK, CA  
Region: SAN MATEO  
Facility ID: 449077  
Facility Status: 9- Case Closed  
Global ID: SL0608120935  
APN Number: 055170220  
Case Type: MENLO PARK, CA  
EDR Link ID: MENLO PARK, CA

CPS-SLIC:  
Name: CT INTERNATIONAL SALES  
Address: 3645 HAVEN  
City,State,Zip: MENLO PARK, CA 94025  
Region: STATE  
**Facility Status: Completed - Case Closed**  
Status Date: 01/21/2014  
Global Id: SL0608120935  
Lead Agency: SAN MATEO COUNTY LOP  
Lead Agency Case Number: 449077

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CT INTERNATIONAL SALES (Continued)**

**S102445197**

Latitude: 37.486917  
Longitude: -122.182041  
Case Type: Cleanup Program Site  
Case Worker: Not reported  
Local Agency: Not reported  
RB Case Number: Not reported  
File Location: Local Agency Warehouse  
Potential Media Affected: Other Groundwater (uses other than drinking water)  
Potential Contaminants of Concern: Gasoline  
Site History: Extracted from Geologica's October 2, 2013 Supplemental Soil Sampling and Remedial Excavation Completion Report. San Mateo County does not take responsibility for the accuracy of the statements made or any professional interpretations made in the referenced report. In April 2013, GEOLOGICA completed a supplemental soil quality sampling investigation of the former CT International site at 3645 Haven Avenue in Menlo Park, CA. The investigation was conducted to evaluate soil quality conditions relative to the current Residential Environmental Screening Levels (ESLs) established by the San Francisco Bay Regional Water Quality Control Board (RWQCB). Between June and August 2013, GEOLOGICA conducted a focused soil excavation program to remove soil containing petroleum hydrocarbons and/or lead at concentrations greater than the RWQCBs Residential ESLs. This scope of work was developed by GEOLOGICA based on discussion with Mr. Charles Ice of the San Mateo County Environmental Health System (SMCEHS). The purpose of the investigation and excavation was to remove the no-residential use deed restriction on the property.

[Click here to access the California GeoTracker records for this facility:](#)

**DEED:**

Name: CT INTERNATIONAL SALES  
Address: 3645 HAVEN  
City,State,Zip: MENLO PARK, CA 94025  
Envirostor ID: SL0608120935  
Area: Not reported  
Sub Area: Not reported  
Site Type: SLIC  
Status: COMPLETED - CASE CLOSED  
Agency: SWRCB  
Covenant Uploaded: Y  
Deed Date(s): 02/03/2005  
File Name: Geotracker Land Use/Deed Restrictions

**San Mateo Co. BI:**

Name: CT INTERNATIONAL SALES  
Address: 3645 HAVEN  
City,State,Zip: MENLO PARK, CA 944031853  
Region: SAN MATEO  
Facility ID: FA0023995  
Prog Element Code: GENERATES and RECYCLES WASTE OIL/SOLVENT  
Record Id: PR0028229  
Description: GENERATES & RECYCLES WASTE OIL/SOLVENT  
Facility Status: Inactive, non-billable  
Program Category: HAZARDOUS WASTE PROGRAM

Name: CT INTERNATIONAL SALES

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CT INTERNATIONAL SALES (Continued)**

**S102445197**

Address: 3645 HAVEN  
City,State,Zip: MENLO PARK, CA 944031853  
Region: SAN MATEO  
Facility ID: FA0023995  
Prog Element Code: STORES MV FUELS OR WASTE ONLY  
Record Id: PR0028230  
Description: STORES MV FUELS OR WASTE ONLY  
Facility Status: Inactive, non-billable  
Program Category: BUSINESS PLAN PROGRAM

Name: CT INTERNATIONAL SALES  
Address: 3645 HAVEN  
City,State,Zip: MENLO PARK, CA 944031853  
Region: SAN MATEO  
Facility ID: FA0023995  
Prog Element Code: STORMWATER ANNUAL INSPECTION FEE  
Record Id: PR0040632  
Description: STORMWATER ANNUAL FEE - INSP FREQ EVERY 2 YRS  
Facility Status: Inactive, non-billable  
Program Category: STORMWATER

Name: MENLO PARK -AMERICNA TOWER CORP  
Address: 3645 HAVEN  
City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0037250  
Prog Element Code: STORMWATER ANNUAL INSPECTION FEE  
Record Id: PR0054113  
Description: STORMWATER ANNUAL FEE - INSP FREQ EVERY 2 YRS  
Facility Status: Inactive, non-billable  
Program Category: STORMWATER

Name: MENLO PARK -AMERICNA TOWER CORP  
Address: 3645 HAVEN  
City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0037250  
Prog Element Code: STORES MV FUELS OR WASTE ONLY  
Record Id: PR0054112  
Description: STORES MV FUELS OR WASTE ONLY  
Facility Status: Inactive, non-billable  
Program Category: BUSINESS PLAN PROGRAM

Name: SPRINT NEXTEL CELL SITE FS04XC093  
Address: 3645 HAVEN  
City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0040930  
Prog Element Code: STORMWATER ANNUAL INSPECTION FEE  
Record Id: PR0056818  
Description: STORMWATER ANNUAL FEE - INSP FREQ EVERY 2 YRS  
Facility Status: Inactive, non-billable  
Program Category: STORMWATER

Name: SPRINT NEXTEL CELL SITE FS04XC093  
Address: 3645 HAVEN  
City,State,Zip: MENLO PARK, CA 94025



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CT INTERNATIONAL SALES (Continued)**

**S102445197**

Region: SAN MATEO  
Facility ID: FA0040930  
Prog Element Code: STORES HAZ MAT <219GAL,1,999LB, 879FT3  
Record Id: PR0056817  
Description: STORES HAZ MAT <219GAL,1,999LB, 879CF  
Facility Status: Inactive, non-billable  
Program Category: BUSINESS PLAN PROGRAM

Name: NEXTEL-SITE ID CA-0698  
Address: 3645 HAVEN  
City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0027110  
Prog Element Code: STORMWATER ANNUAL INSPECTION FEE  
Record Id: PR0042668  
Description: STORMWATER ANNUAL FEE - INSP FREQ EVERY 2 YRS  
Facility Status: Inactive, non-billable  
Program Category: STORMWATER

Name: NEXTEL-SITE ID CA-0698  
Address: 3645 HAVEN  
City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0027110  
Prog Element Code: STORES HAZ MAT <219GAL,1,999LB, 879FT3  
Record Id: PR0042667  
Description: STORES HAZ MAT <219GAL,1,999LB, 879CF  
Facility Status: Inactive, non-billable  
Program Category: BUSINESS PLAN PROGRAM

**CERS:**

Name: CT INTERNATIONAL SALES  
Address: 3645 HAVEN  
City,State,Zip: MENLO PARK, CA 94025  
Site ID: 222065  
CERS ID: SL0608120935  
CERS Description: Cleanup Program Site

**Affiliation:**

Affiliation Type Desc: Regional Board Caseworker  
Entity Name: Regional Water Board - SAN FRANCISCO BAY RWQCB (REGION 2)  
Entity Title: Not reported  
Affiliation Address: 1515 CLAY ST SUITE 1400  
Affiliation City: OAKLAND  
Affiliation State: CA  
Affiliation Country: Not reported  
Affiliation Zip: Not reported  
Affiliation Phone: ,

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**B46**  
**West**  
**< 1/8**  
**0.064 mi.**  
**336 ft.**

**DOUBLE D PAVING**  
**3637 HAVEN**  
**MENLO PARK, CA 94025**  
**Site 9 of 17 in cluster B**

**CA San Mateo Co. BI** **S106982071**  
**N/A**

**Relative:**  
**Higher**  
**Actual:**  
**10 ft.**

San Mateo Co. BI:  
Name: DOUBLE D PAVING  
Address: 3637 HAVEN  
City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0025951  
Prog Element Code: STORMWATER ANNUAL INSPECTION FEE  
Record Id: PR0040653  
Description: STORMWATER ANNUAL FEE - INSP FREQ EVERY 2 YRS  
Facility Status: Inactive, non-billable  
Program Category: STORMWATER

Name: DOUBLE D PAVING  
Address: 3637 HAVEN  
City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0025951  
Prog Element Code: GENERATES and RECYCLES WASTE OIL/SOLVENT  
Record Id: PR0037357  
Description: GENERATES & RECYCLES WASTE OIL/SOLVENT  
Facility Status: Inactive, non-billable  
Program Category: HAZARDOUS WASTE PROGRAM

Name: DOUBLE D PAVING  
Address: 3637 HAVEN  
City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0025951  
Prog Element Code: STORES HAZ MAT <219GAL,1,999LB, 879FT3  
Record Id: PR0037356  
Description: STORES HAZ MAT <219GAL,1,999LB, 879CF  
Facility Status: Inactive, non-billable  
Program Category: BUSINESS PLAN PROGRAM

Name: BAYVIEW WELDING & ENGINEERING  
Address: 3637 HAVEN  
City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0025953  
Prog Element Code: GENERATES <27 GAL/YEAR  
Record Id: PR0037362  
Description: GENERATES <27 GAL/YEAR  
Facility Status: Inactive, non-billable  
Program Category: HAZARDOUS WASTE PROGRAM

Name: BAYVIEW WELDING & ENGINEERING  
Address: 3637 HAVEN  
City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0025953  
Prog Element Code: STORES HAZ MAT <219GAL,1,999LB, 879FT3  
Record Id: PR0037363  
Description: STORES HAZ MAT <219GAL,1,999LB, 879CF

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**DOUBLE D PAVING (Continued)**

**S106982071**

Facility Status: Inactive, non-billable  
 Program Category: BUSINESS PLAN PROGRAM

**B47**  
**West**  
**< 1/8**  
**0.068 mi.**  
**360 ft.**

**GOODMAN BALL, INC**  
**37.4856/-122.18383**  
**MENLO PARK, CA**  
**Site 10 of 17 in cluster B**

**PFAS ECHO 1027364440**  
**N/A**

**Relative:**  
**Higher**  
**Actual:**  
**11 ft.**

PFAS ECHO:  
 Name: GOODMAN BALL, INC  
 Address: 37.4856/-122.18383  
 City,State,Zip: MENLO PARK, CA  
 Latitude: 37.4856  
 Longitude: -122.18383  
 Count: -1  
 County: SAN MATEO  
 Status: Unknown  
 Region: 09  
 Industry: Textiles and Leather  
 ECHO Facility Report: <https://echo.epa.gov/detailed-facility-report?fid=110001166540>  
 Facility Percent Minority: 65.951  
 Facility Derived Tribes: Not reported  
 Facility Population: 4636.76  
 EJSCREEN Flag US: N  
 EJSCREEN Report: [https://ejscreen.epa.gov/mapper/mobile/EJSCREEN\\_mobile.aspx?geometry=%7B%22x%22:-122.18383,%22y%22:37.4856,%22spatialReference%22:%7B%22wkid%22:4326%7D%7D&unit=9035&areatype=&areaid=&basemap=streets&distance=1](https://ejscreen.epa.gov/mapper/mobile/EJSCREEN_mobile.aspx?geometry=%7B%22x%22:-122.18383,%22y%22:37.4856,%22spatialReference%22:%7B%22wkid%22:4326%7D%7D&unit=9035&areatype=&areaid=&basemap=streets&distance=1)  
 EPA Programs: Not reported  
 Federal Facility: No  
 Federal Agency: Not reported  
 Facility FIPS Code: 06081  
 Facility Indian Country Flag: N  
 Facility Collection Method: ADDRESS MATCHING-HOUSE NUMBER  
 Facility Derived HUC: 18050004  
 Facility Derived WBD: 180500040902  
 Facility Derived CD113: 14  
 Facility Derived CB2010: 060816117004019  
 Facility Major Flag: Not reported  
 Facility Active Flag: Not reported  
 Facility Inspection Count: 0  
 Facility Date Last Inspection: Not reported  
 Facility Days Last Inspection: Not reported  
 Facility Informal Count: 0  
 Facility Date Last Informal Action: Not reported  
 Facility Formal Action Count: 0  
 Facility Date Last Formal Action: Not reported  
 Facility Total Penalties: 0  
 Facility Penalty Count: Not reported  
 Facility Date Last Penalty: Not reported  
 Facility Last Penalty AMT: Not reported  
 Facility QTRS With NC: Not reported  
 Facility Programs With SNC: 0  
 Facility Compliance Status: Not reported  
 Facility SNC Flag: N  
 AIR Flag: N  
 NPDES Flag: N  
 SDWIS Flag: N

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**GOODMAN BALL, INC (Continued)**

**1027364440**

RCRA Flag:	N
TRI Flag:	N
GHG Flag:	N
AIR IDS:	Not reported
CAA Permit Types:	Not reported
CAA NAICS:	Not reported
CAA SICS:	Not reported
NPDES IDS:	Not reported
CWA Permit Types:	Not reported
CWA NAICS:	Not reported
CWA SICS:	Not reported
RCRA IDS:	Not reported
RCRA Permit Types:	Not reported
RCRA NAICS:	Not reported
SDWA IDS:	Not reported
SDWA System Types:	Not reported
SDWA Compliance Status:	Not reported
SDWA SNC Flag:	N
TRI IDS:	Not reported
TRI Releases Transfers:	Not reported
TRI On Site Releases:	Not reported
TRI Off Site Transfers:	Not reported
TRI Reporter:	Not reported
Facility IMP Water Flag:	Not reported

**B48**  
**West**  
 < 1/8  
 0.071 mi.  
 373 ft.

**CARLSEN MOTOR CARS, INC.**  
**3636 HAVEN AVE**  
**REDWOOD CITY, CA 94063**  
 Site 11 of 17 in cluster B

**CA CERS HAZ WASTE**  
**CA HAZNET**  
**CA CERS**  
**CA HWTS**

**S121737450**  
**N/A**

**Relative:**  
**Higher**  
**Actual:**  
**11 ft.**

**CERS HAZ WASTE:**  
 Name: CARLSEN MOTOR CARS, INC.  
 Address: 3636 HAVEN AVE  
 City,State,Zip: REDWOOD CITY, CA 94063  
 Site ID: 103227  
 CERS ID: 10068295  
 CERS Description: Hazardous Waste Generator

**HAZNET:**  
 Name: CARLSEN MOTOR CARS INC  
 Address: 3636 HAVEN AVE  
 Address 2: Not reported  
 City,State,Zip: REDWOOD CITY, CA 94063  
 Contact: TODD PARKINSON  
 Telephone: 6507019200  
 Mailing Name: Not reported  
 Mailing Address: 3636 HAVEN AVE  
 Year: 2021  
 Gepaid: CAR000115923  
 TSD EPA ID: CAL000330453  
 CA Waste Code: 352 - Other organic solids  
 Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)  
 Tons: 0.49

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CARLSEN MOTOR CARS, INC. (Continued)**

**S121737450**

Year:	2021
Gepaid:	CAR000115923
TSD EPA ID:	NVT330010000
CA Waste Code:	331 - Off-specification, aged or surplus organics
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.02
Year:	2021
Gepaid:	CAR000115923
TSD EPA ID:	CAL000330453
CA Waste Code:	352 - Other organic solids
Disposal Method:	H010 - Metals Recovery Including Retoring,Smelting,Chemicals,Ect
Tons:	0.09
Year:	2020
Gepaid:	CAR000115923
TSD EPA ID:	CAL000282598
CA Waste Code:	352 - Other organic solids
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.225
Year:	2020
Gepaid:	CAR000115923
TSD EPA ID:	AZD081705402
CA Waste Code:	331 - Off-specification, aged or surplus organics
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.099
Year:	2020
Gepaid:	CAR000115923
TSD EPA ID:	CAL000330453
CA Waste Code:	352 - Other organic solids
Disposal Method:	H010 - Metals Recovery Including Retoring,Smelting,Chemicals,Ect
Tons:	0.1
Year:	2019
Gepaid:	CAR000115923
TSD EPA ID:	CAL000330453
CA Waste Code:	352 - Other organic solids
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.33500
Year:	2018
Gepaid:	CAR000115923
TSD EPA ID:	CAL000330453
CA Waste Code:	352 - Other organic solids
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.53750
Year:	2017
Gepaid:	CAR000115923
TSD EPA ID:	AZD081705402

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CARLSEN MOTOR CARS, INC. (Continued)**

**S121737450**

CA Waste Code: 331 - Off-specification, aged or surplus organics  
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)  
Tons: 0.165  
Year: 2017  
Gepaid: CAR000115923  
TSD EPA ID: CAL000330453  
CA Waste Code: 352 - Other organic solids  
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)  
Tons: 0.5375

[Click this hyperlink](#) while viewing on your computer to access 1 additional CA HAZNET: record(s) in the EDR Site Report.

Detail Two:

Year: 2020  
EM Manifest ID: 16e1d1ce-8b71-4e5b-b14d-1da752afd024  
Shipment Date: 4/1/2020  
Receipt Date: 4/17/2020  
Manifest Number: 020022541JJK  
Generator EPA ID: CAR000115923  
Name: CARLSEN PORSCHE  
Address: HAVEN AVE  
Address 2: Not reported  
City: REDWOOD CITY  
Zip: 94063  
Telephone: 800-326-1221  
Contact: Not reported  
Contact Telephone: 650-701-9200  
Transporter 1 EPA ID: CAL000330453  
Transporter 1 Emergency Number: Not reported  
Transporter 2 EPA ID: IND058484114  
Transporter 2 Emergency Number: Not reported  
TSDF EPA ID: AZD081705402  
TSDF Name: HERITAGE ENVIRONMENTAL SERVICES LLC  
TSDF Address 1: EAST STOREY ROAD  
TSDF Address 2: Not reported  
TSDF City: COOLIDGE  
TSDF Zip: 85128-9205  
TSDF Telephone: Not reported

Federal:

Year: 2020  
EM Manifest ID: 16e1d1ce-8b71-4e5b-b14d-1da752afd024  
Generator EPA ID: CAR000115923  
Shipment Date: 2020-04-01  
Manifest Number: 020022541JJK  
Line Number: 1  
Method Code: H141  
Quantity Tons: 0.09900  
Quantity Waste: 30.000000  
Quantity Unit: G  
Number of Containers: 1  
Type of Container: Metal drums, barrels, kegs

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CARLSEN MOTOR CARS, INC. (Continued)**

**S121737450**

Quantity Type: Gallons  
Federal Code: D001  
  
Year: 2020  
EM Manifest ID: 16e1d1ce-8b71-4e5b-b14d-1da752afd024  
Generator EPA ID: CAR000115923  
Shipment Date: 2020-04-01  
Manifest Number: 020022541JJK  
Line Number: 1  
Method Code: H141  
Quantity Tons: 0.09900  
Quantity Waste: 30.000000  
Quantity Unit: G  
Number of Containers: 1  
Type of Container: Metal drums, barrels, kegs  
Quantity Type: Gallons  
Federal Code: D018

State:  
Year: 2020  
EM Manifest ID: 16e1d1ce-8b71-4e5b-b14d-1da752afd024  
Generator EPA ID: CAR000115923  
Shipment Date: 2020-04-01  
Manifest Number: 020022541JJK  
Line Number: 1  
Method Code: H141  
Quantity Tons: 0.09900  
Quantity Waste: 30.000000  
Quantity Unit: G  
Number of Containers: 1  
Type of Container: Metal drums, barrels, kegs  
Quantity Type: Gallons  
State Code: 331

Year: 2020  
EM Manifest ID: 33f649b2-e30d-496e-8f89-bd7dbd233864  
Shipment Date: 10/27/2020  
Receipt Date: 10/29/2020  
Manifest Number: 006105277GBF  
Generator EPA ID: CAR000115923  
Name: CARLSEN PORSCHE  
Address: HAVEN AVE  
Address 2: Not reported  
City: REDWOOD CITY  
Zip: 94063  
Telephone: 800-255-3924  
Contact: TODD PARKINSON  
Contact Telephone: 650-701-9200  
Transporter 1 EPA ID: CAL000367042  
Transporter 1 Emergency Number: Not reported  
Transporter 2 EPA ID: CAL000327867  
Transporter 2 Emergency Number: Not reported  
TSDf EPA ID: CAL000282598  
TSDf Name: BAKERSFIELD TRANSFER INC DBA COLES ENVIRONMENTAL  
TSDf Address 1: E. BRUNDAGE LN  
TSDf Address 2: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CARLSEN MOTOR CARS, INC. (Continued)**

**S121737450**

TSDf City: BAKERSFIELD  
TSDf Zip: 93307  
TSDf Telephone: Not reported  
State:  
Year: 2020  
EM Manifest ID: 33f649b2-e30d-496e-8f89-bd7dbd233864  
Generator EPA ID: CAR000115923  
Shipment Date: 2020-10-27  
Manifest Number: 006105277GBF  
Line Number: 1  
Method Code: H141  
Quantity Tons: 0.22500  
Quantity Waste: 450.000000  
Quantity Unit: P  
Number of Containers: 3  
Type of Container: Metal drums, barrels, kegs  
Quantity Type: Pounds  
State Code: 352

Detail Two:  
Year: 2018  
EM Manifest ID: 017483973JJK20171107\_D\_1  
Shipment Date: 11/7/2017  
Receipt Date: 11/21/2017  
Manifest Number: 017483973JJK  
Generator EPA ID: CAR000115923  
Name: CARLES PORSCHE (CONTRACT#97709)  
Address: Not reported  
Address 2: Not reported  
City: Not reported  
Zip: Not reported  
Telephone: Not reported  
Contact: Not reported  
Contact Telephone: Not reported  
Transporter 1 EPA ID: CAL000368136  
Transporter 1 Emergency Number: Not reported  
Transporter 2 EPA ID: IND058484114  
Transporter 2 Emergency Number: Not reported  
TSDf EPA ID: AZD081705402  
TSDf Name: HERITAGE ENVIRONMENTAL SVC LLC  
TSDf Address 1: Not reported  
TSDf Address 2: Not reported  
TSDf City: Not reported  
TSDf Zip: Not reported  
TSDf Telephone: Not reported

Federal:  
Year: 2018  
EM Manifest ID: 017483973JJK20171107\_D\_1  
Generator EPA ID: CAR000115923  
Shipment Date: 2017-11-07  
Manifest Number: 017483973JJK  
Line Number: 1  
Method Code: H141  
Quantity Tons: 0.13200  
Quantity Waste: 40.000000



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CARLSEN MOTOR CARS, INC. (Continued)**

**S121737450**

Quantity Unit:	G
Number of Containers:	1
Type of Container:	NULL
Quantity Type:	NULL
Federal Code:	D001
Year:	2018
EM Manifest ID:	017483973JJK20171107_D_1
Generator EPA ID:	CAR000115923
Shipment Date:	2017-11-07
Manifest Number:	017483973JJK
Line Number:	1
Method Code:	H141
Quantity Tons:	0.13200
Quantity Waste:	40.000000
Quantity Unit:	G
Number of Containers:	1
Type of Container:	NULL
Quantity Type:	NULL
Federal Code:	D018
State:	
Year:	2018
EM Manifest ID:	017483973JJK20171107_D_1
Generator EPA ID:	CAR000115923
Shipment Date:	2017-11-07
Manifest Number:	017483973JJK
Line Number:	1
Method Code:	H141
Quantity Tons:	0.13200
Quantity Waste:	40.000000
Quantity Unit:	G
Number of Containers:	1
Type of Container:	NULL
Quantity Type:	NULL
State Code:	331
Additional Info:	
Year:	2017
Gen EPA ID:	CAR000115923
Shipment Date:	20171211
Creation Date:	8/7/2018 18:30:34
Receipt Date:	20171214
Manifest ID:	018044083JJK
Trans EPA ID:	CAL000368136
Trans Name:	CLEANTECH ENVIRONMENTAL
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDf EPA ID:	CAL000330453
Trans Name:	CLEANTECH ENVIRONMENTAL
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CARLSEN MOTOR CARS, INC. (Continued)**

**S121737450**

Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)  
Quantity Tons: 0.075  
Waste Quantity: 150  
Quantity Unit: P  
Additional Code 1: Not reported  
Additional Code 2: Not reported  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported

Shipment Date: 20171107  
Creation Date: 10/11/2018 18:31:48  
Receipt Date: 20171121  
Manifest ID: 017483973JJK  
Trans EPA ID: CAL000368136  
Trans Name: CLEANTECH ENVIRONMENTAL INC  
Trans 2 EPA ID: IND058484114  
Trans 2 Name: HERITAGE TRANSPORT LLC  
TSDf EPA ID: AZD081705402  
Trans Name: HERITAGE ENVIRONMENTAL SVC LLC  
TSDf Alt EPA ID: Not reported  
TSDf Alt Name: Not reported  
Waste Code Description: 331 - Off-specification, aged, or surplus organics  
RCRA Code: D018  
Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)

Quantity Tons: 0.132  
Waste Quantity: 40  
Quantity Unit: G  
Additional Code 1: D001  
Additional Code 2: Not reported  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported

Shipment Date: 20171107  
Creation Date: 7/13/2018 18:30:08  
Receipt Date: 20171109  
Manifest ID: 018042251JJK  
Trans EPA ID: CAL000330453  
Trans Name: CLEANTECH ENVIRONMENTAL  
Trans 2 EPA ID: Not reported  
Trans 2 Name: Not reported  
TSDf EPA ID: CAL000330453  
Trans Name: CLEANTECH ENVIRONMENTAL  
TSDf Alt EPA ID: Not reported  
TSDf Alt Name: Not reported  
Waste Code Description: 352 - Other organic solids  
RCRA Code: Not reported  
Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)

Quantity Tons: 0.15  
Waste Quantity: 300  
Quantity Unit: P  
Additional Code 1: Not reported  
Additional Code 2: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CARLSEN MOTOR CARS, INC. (Continued)**

**S121737450**

Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20170905
Creation Date:	6/20/2018 18:31:51
Receipt Date:	20170907
Manifest ID:	017483636JJK
Trans EPA ID:	CAL000368136
Trans Name:	CLEANTECH ENVIRONMENTAL INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDf EPA ID:	CAL000330453
Trans Name:	CLEANTECH ENVIRONMENTAL
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.075
Waste Quantity:	150
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20170802
Creation Date:	6/13/2018 18:31:35
Receipt Date:	20170810
Manifest ID:	017481160JJK
Trans EPA ID:	CAL000368136
Trans Name:	CLEANTECH ENVIRONMENTAL INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDf EPA ID:	CAL000330453
Trans Name:	CLEANTECH ENVIRONMENTAL
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.075
Waste Quantity:	150
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20170706
Creation Date:	6/20/2018 18:31:06
Receipt Date:	20170713

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CARLSEN MOTOR CARS, INC. (Continued)**

**S121737450**

Manifest ID: 017027918JJK  
Trans EPA ID: CAL000368136  
Trans Name: CLEANTECH ENVIRONMENTAL INC  
Trans 2 EPA ID: Not reported  
Trans 2 Name: Not reported  
TSDf EPA ID: CAL000330453  
Trans Name: CLEANTECH ENVIRONMENTAL  
TSDf Alt EPA ID: Not reported  
TSDf Alt Name: Not reported  
Waste Code Description: 352 - Other organic solids  
RCRA Code: Not reported  
Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)  
  
Quantity Tons: 0.0625  
Waste Quantity: 125  
Quantity Unit: P  
Additional Code 1: Not reported  
Additional Code 2: Not reported  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported  
  
Shipment Date: 20170621  
Creation Date: 5/17/2018 18:31:47  
Receipt Date: 20170629  
Manifest ID: 017503628JJK  
Trans EPA ID: CAL000368136  
Trans Name: CLEANTECH ENVIRONMENTAL INC  
Trans 2 EPA ID: Not reported  
Trans 2 Name: Not reported  
TSDf EPA ID: CAL000330453  
Trans Name: CLEANTECH ENVIRONMENTAL  
TSDf Alt EPA ID: Not reported  
TSDf Alt Name: Not reported  
Waste Code Description: 352 - Other organic solids  
RCRA Code: Not reported  
Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)  
  
Quantity Tons: 0.1  
Waste Quantity: 200  
Quantity Unit: P  
Additional Code 1: Not reported  
Additional Code 2: Not reported  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported  
  
Shipment Date: 20170621  
Creation Date: 5/17/2018 18:31:47  
Receipt Date: 20170629  
Manifest ID: 017503628JJK  
Trans EPA ID: CAL000368136  
Trans Name: CLEANTECH ENVIRONMENTAL INC  
Trans 2 EPA ID: Not reported  
Trans 2 Name: Not reported  
TSDf EPA ID: CAL000330453  
Trans Name: CLEANTECH ENVIRONMENTAL

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CARLSEN MOTOR CARS, INC. (Continued)**

**S121737450**

TSDF Alt EPA ID: Not reported  
TSDF Alt Name: Not reported  
Waste Code Description: 352 - Other organic solids  
RCRA Code: Not reported  
Meth Code: H010 - Metals Recovery Including Retoring,Smelting,Chemicals,Ect  
Quantity Tons: 0.05  
Waste Quantity: 100  
Quantity Unit: P  
Additional Code 1: Not reported  
Additional Code 2: Not reported  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported

Shipment Date: 20170103  
Creation Date: 5/24/2017 18:30:36  
Receipt Date: 20170111  
Manifest ID: 016698706JJK  
Trans EPA ID: CAL000368136  
Trans Name: CLEANTECH ENVIRONMENTAL INC  
Trans 2 EPA ID: IND058484114  
Trans 2 Name: HERITAGE TRANSPORT LLC  
TSDF EPA ID: AZD081705402  
Trans Name: HERITAGE ENVIRONMENTAL SERVICES LLC  
TSDF Alt EPA ID: Not reported  
TSDF Alt Name: Not reported  
Waste Code Description: 331 - Off-specification, aged, or surplus organics  
RCRA Code: D018  
Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)  
Quantity Tons: 0.165  
Waste Quantity: 50  
Quantity Unit: G  
Additional Code 1: D001  
Additional Code 2: Not reported  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported

**CERS:**

Name: CARLSEN MOTOR CARS, INC.  
Address: 3636 HAVEN AVE  
City,State,Zip: REDWOOD CITY, CA 94063  
Site ID: 103227  
CERS ID: 10068295  
CERS Description: Chemical Storage Facilities

**Violations:**

Site ID: 103227  
Site Name: CARLSEN MOTOR CARS, INC.  
Violation Date: 08-22-2019  
Citation: HSC 6.95 25505(a)(4) - California Health and Safety Code, Chapter 6.95, Section(s) 25505(a)(4)  
Violation Description: Failure to provide initial and annual training to all employees in safety procedures in the event of a release or threatened release of a hazardous material or failure to document and maintain training records for a minimum of three years.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CARLSEN MOTOR CARS, INC. (Continued)**

**S121737450**

Violation Notes: Returned to compliance on 08/22/2019. OBSERVATION: No training was conducted for 2018. REQUIRED ACTION: Ensure that initial and annual training are conducted, and records are retained for 3 years.

Violation Division: San Mateo County Environmental Health  
Violation Program: HMRRP  
Violation Source: CERS,

Site ID: 103227  
Site Name: CARLSEN MOTOR CARS, INC.  
Violation Date: 12-16-2016  
Citation: 22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)

Violation Description: Failure to properly label hazardous waste accumulation containers and portable tanks with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.

Violation Notes: Returned to compliance on 01/13/2017. OBSERVATION: The hazardous waste caddies (Five for used oil and one for used antifreeze.) have incomplete information on their hazardous waste labels. The partially full black 55 gallon drum of waste fuel lacked an accumulation start date and was just picked up on 12-15-16. CORRECTIVE ACTION: Immediately label these containers and ensure that all hazardous waste containers are marked with all the required information. OBSERVATION: The used oil tank lacked an accumulation start date and was just picked up on 11-3-16. The used antifreeze tank lacked an accumulation start date and was just picked up on 6-30-16. All hazardous waste tanks shall be marked with the words Hazardous Waste and the accumulation start date. CORRECTIVE ACTION: Immediately ensure that all hazardous waste tanks are marked with the required information. If it is determined that the used antifreeze has been on site longer than 90 days, immediately contact a licensed hazardous waste hauler to dispose [Truncated]

Violation Division: San Mateo County Environmental Health  
Violation Program: HW  
Violation Source: CERS,

Site ID: 103227  
Site Name: CARLSEN MOTOR CARS, INC.  
Violation Date: 08-22-2019  
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)

Violation Description: Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.

Violation Notes: Returned to compliance on 10/03/2019. OBSERVATION: Following remodel of facility, maximum storage of materials has changed. REQUIRED ACTION: Update your chemical inventory to accurately reflect storage levels of hazardous materials and hazardous waste within 30 days.

Violation Division: San Mateo County Environmental Health  
Violation Program: HMRRP  
Violation Source: CERS,

Site ID: 103227  
Site Name: CARLSEN MOTOR CARS, INC.  
Violation Date: 12-16-2016  
Citation: 22 CCR 15 66265.16 - California Code of Regulations, Title 22, Chapter

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CARLSEN MOTOR CARS, INC. (Continued)**

**S121737450**

Violation Description: 15, Section(s) 66265.16  
Failure to provide employees with hazardous waste training within the first six months after the date of their employment or assignment to a facility, or to a new position at a facility and annually thereafter. Training records on current personnel shall be kept until closure of the facility and for former employees the record shall be kept for at least three years from the date the employee last worked at the facility.

Violation Notes: Returned to compliance on 01/19/2017. OBSERVATION: The documentation for proper training of personnel who handle hazardous waste was not found on site. CORRECTIVE ACTION: Immediately provide employees with initial or refresher hazardous waste training as required. Submit a copy of the roster and the syllabus to the San Mateo County CUPA by 1-16-17.

Violation Division: San Mateo County Environmental Health  
Violation Program: HW  
Violation Source: CERS,

Site ID: 103227  
Site Name: CARLSEN MOTOR CARS, INC.  
Violation Date: 08-22-2019  
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)

Violation Description: Failure to complete and electronically submit a site map with all required content.

Violation Notes: Returned to compliance on 10/03/2019. OBSERVATION: Facility has recently completed a remodel. Site map does not accurately reflect the current layout. REQUIRED ACTION: Update site map to accurately reflect the new layout of the building and material storage areas.

Violation Division: San Mateo County Environmental Health  
Violation Program: HMRRP  
Violation Source: CERS,

Site ID: 103227  
Site Name: CARLSEN MOTOR CARS, INC.  
Violation Date: 08-20-2018  
Citation: 22 CCR 15 66265.195(c) - California Code of Regulations, Title 22, Chapter 15, Section(s) 66265.195(c)

Violation Description: Failure to conduct and document inspections of hazardous waste tank systems each operating day and retain records of those inspections at the facility.

Violation Notes: Returned to compliance on 08/20/2018. OBSERVATION: Daily inspections of the [USED OIL tank system have not been conducted and documented. CORRECTIVE ACTION: CORRECTED DURING INSPECTION. MOVING FORWARD ENSURE THAT INSPECTION ARE PERFORMED DAILY.

Violation Division: San Mateo County Environmental Health  
Violation Program: HW  
Violation Source: CERS,

Site ID: 103227  
Site Name: CARLSEN MOTOR CARS, INC.  
Violation Date: 12-10-2014  
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)

Violation Description: Failure to complete and electronically submit a site map with all required content.

Violation Notes: Returned to compliance on 02/26/2015. site map submitted on CERS is

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CARLSEN MOTOR CARS, INC. (Continued)**

**S121737450**

unreadable  
Violation Division: San Mateo County Environmental Health  
Violation Program: HMRRP  
Violation Source: CERS,

Site ID: 103227  
Site Name: CARLSEN MOTOR CARS, INC.  
Violation Date: 12-16-2016  
Citation: 22 CCR 12 66262.12 - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.12  
Violation Description: Failure to obtain an Identification Number prior to treating, storing, disposing of, transporting or offering for transportation any hazardous waste.  
Violation Notes: Returned to compliance on 01/13/2017. OBSERVATION: This facility s EPA ID number is inactive. A hazardous waste generator shall not treat, store, dispose of, transport or offer for transportation, hazardous waste without an EPA ID number. CORRECTIVE ACTION: Immediately contact DTSC and reactivate your EPA ID number and submit evidence to the San Mateo County CUPA by 1-16-17.

Violation Division: San Mateo County Environmental Health  
Violation Program: HW  
Violation Source: CERS,

Site ID: 103227  
Site Name: CARLSEN MOTOR CARS, INC.  
Violation Date: 12-16-2016  
Citation: HSC 6.5 25250.19(c) - California Health and Safety Code, Chapter 6.5, Section(s) 25250.19(c)  
Violation Description: Failure to record in an operating log and retain for three years the following information for each shipment of recycled or exempted oil:  
1) The name and address of the used oil recycling facility or generator claiming the oil meets the requirements of HSC 6.5 25250.1.  
2) The name and address of the facility receiving the shipment. 3) The quantity of oil delivered. 4) The date of shipment or delivery. 5) A cross-reference to the records and documentation required under HSC 6.5 25250.1.  
Violation Notes: Returned to compliance on 09/12/2018. OBSERVATION: CleanTech Environmental, Inc. Invoice No. 138628 from 5-18-16 indicates that 401 gallons of used oil was picked up. The consolidated manifest for this pick up was not found on site. CORRECTIVE ACTION: The Owner/Operator shall maintain copies documenting disposal of used oil for a minimum of 3 years.

Violation Division: San Mateo County Environmental Health  
Violation Program: HW  
Violation Source: CERS,

Site ID: 103227  
Site Name: CARLSEN MOTOR CARS, INC.  
Violation Date: 12-10-2014  
Citation: 22 CCR 15 66265.173 - California Code of Regulations, Title 22, Chapter 15, Section(s) 66265.173  
Violation Description: Failure to properly close hazardous waste containers when not in active use.  
Violation Notes: Returned to compliance on 06/24/2015. drum collecting oil from crusher must have a secure lid, using open top type filter drum, without secure ring 6/11/15 NOV sent 6/24/15 spoke to John, will send photos  
Violation Division: San Mateo County Environmental Health



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CARLSEN MOTOR CARS, INC. (Continued)**

**S121737450**

Violation Program: HW  
Violation Source: CERS,

Site ID: 103227  
Site Name: CARLSEN MOTOR CARS, INC.  
Violation Date: 08-20-2018  
Citation: 22 CCR 15 66265.192(h) - California Code of Regulations, Title 22, Chapter 15, Section(s) 66265.192(h)

Violation Description: Failure of generator to obtain assessment or reassessment every five (5) years or the remaining service life of the tank system, as stated in the engineer's assessment, whichever is less. This assessment applies to onground or aboveground tank systems containing only non-RCRA hazardous wastes generated onsite, or for a small quantity generator onground or aboveground tank systems containing RCRA hazardous wastes generated onsite.

Violation Notes: Returned to compliance on 09/12/2018. OBSERVATION: A hazardous waste tank reassessment has not been conducted for the [HAZARDOUS WASTE] tank system within 5 years of the previous tank system assessment or within the remaining service life of the tank system as stated in the engineer's report, whichever is less. CORRECTIVE ACTION: Obtain a written hazardous waste tank system reassessment for the [HAZARDOUS WASTE] tank system in accordance with 22 CCR 15 66265.192 and submit a copy to the CUPA.

Violation Division: San Mateo County Environmental Health  
Violation Program: HW  
Violation Source: CERS,

Site ID: 103227  
Site Name: CARLSEN MOTOR CARS, INC.  
Violation Date: 12-16-2016  
Citation: 22 CCR 15 66265.192(a) - California Code of Regulations, Title 22, Chapter 15, Section(s) 66265.192(a)

Violation Description: Failure to obtain and maintain a written assessment reviewed and certified by an independent, qualified, professional engineer prior to placing the tank system in service. The written assessment shall state that, the new hazardous waste tank system has sufficient structural integrity, is acceptable for the transferring, storing and treating of hazardous waste, and that the tanks and containment system including the foundation, structural support, seams, connections, and pressure controls (if applicable) are suitably designed to meet the regulation.

Violation Notes: Returned to compliance on 05/24/2017. OBSERVATION: Owner/Operator does not have a tank assessment for the used oil and used antifreeze tanks. The owner or operator of a hazardous waste tank shall obtain a written assessment reviewed and certified by an independent, qualified, professional engineer, registered in California attesting that the system has sufficient structural integrity, is acceptable for the transferring, storing, and treating of hazardous waste, and that the tanks and containment system are suitably designed. CORRECTIVE ACTION: Immediately have an assessment prepared for the used oil and used antifreeze tanks Submit a schedule showing when this will be accomplished to the San Mateo County CUPA by 1-16-17.

Violation Division: San Mateo County Environmental Health  
Violation Program: HW  
Violation Source: CERS,

Site ID: 103227  
Site Name: CARLSEN MOTOR CARS, INC.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CARLSEN MOTOR CARS, INC. (Continued)**

**S121737450**

Violation Date: 08-22-2019  
Citation: 22 CCR 15 66265.16 - California Code of Regulations, Title 22, Chapter 15, Section(s) 66265.16  
Violation Description: Failure to provide employees with hazardous waste training program of class room instructions or on-the-job training within the first six months after the date of their employment or assignment to a facility, or to a new position at a facility and annually thereafter. Training records on current personnel shall be kept until closure of the facility and for former employees the record shall be kept for at least three years from the date the employee last worked at the facility. The records shall include the following: the job title for each position at the facility related to hazardous waste management, and the name of the employee filling each job; a written job description for each position, duties of facility personnel assigned to each position, and a written description of the type and amount of both introductory and continuing training that will be given to each person filling a position.  
Violation Notes: Returned to compliance on 11/05/2019. OBSERVATION: Training records include only printed name, job description, signature and date. REQUIRED ACTION: The records shall include the following: the job title for each position at the facility related to hazardous waste management, and the name of the employee filling each job; a written job description for each position, duties of facility personnel assigned to each position, and a written description of the type and amount of both introductory and continuing training that will be given to each person filling a position. Include all of the required information with the training records and provide documentation to the inspector that this has been done.  
Violation Division: San Mateo County Environmental Health  
Violation Program: HW  
Violation Source: CERS,  
  
Site ID: 103227  
Site Name: CARLSEN MOTOR CARS, INC.  
Violation Date: 12-16-2016  
Citation: HSC 6.5 25160.2 - California Health and Safety Code, Chapter 6.5, Section(s) 25160.2  
Violation Description: Failure of a generator of hazardous waste that meets the conditions to be transported on a consolidated manifest to comply with one or more of the required consolidated manifesting procedures.  
Violation Notes: Returned to compliance on 09/12/2018. OBSERVATION: AES Service order # 9021889 from 8-8-14 was completed with the customer EPA # CA000115923 and CleanTech Environmental Inc. Service work order 123766 from 11-5-15 was completed with EPA ID#: CAL000115923 The following service work orders from CleanTech Environmental lacked the EPA ID# of this business: # 133489 from 2-4-16, # 140646 from 6-30-16, # 139894 from 6-30-16, # 139390 from 9-1-16, # 146425 from 8-11-16, and # 140316 from 7-21-16. CORRECTIVE ACTION: Ensure that the consolidated manifest receipts contain the required information including the generator's EPA ID#.  
Violation Division: San Mateo County Environmental Health  
Violation Program: HW  
Violation Source: CERS,  
  
Site ID: 103227  
Site Name: CARLSEN MOTOR CARS, INC.  
Violation Date: 08-20-2018

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CARLSEN MOTOR CARS, INC. (Continued)**

**S121737450**

Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)

Violation Description: Failure to annually review and electronically certify that the business plan is complete and accurate on or before the annual due date.

Violation Notes: Returned to compliance on 08/20/2018. THE SITE IS UNDERGOING A REMODEL. THE SITE MAP AND INVENTORY NEEDS TO BE REVIEWED. UPDATE WITHIN 30 DAYS.

Violation Division: San Mateo County Environmental Health  
Violation Program: HMRRP  
Violation Source: CERS,

Site ID: 103227  
Site Name: CARLSEN MOTOR CARS, INC.  
Violation Date: 12-16-2016  
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)

Violation Description: Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.

Violation Notes: Returned to compliance on 06/30/2017. OBSERVATION: In the San Mateo County Portal, the Hazardous Materials Inventory Chemical Description for drained used oil filters lists the volume in gallons. CORRECTIVE ACTION: Update the Hazardous Materials Inventory Chemical Description volume for drained used oil filters to pounds and resubmit this information by 1-16-17.

Violation Division: San Mateo County Environmental Health  
Violation Program: HMRRP  
Violation Source: CERS,

Site ID: 103227  
Site Name: CARLSEN MOTOR CARS, INC.  
Violation Date: 11-16-2020  
Citation: HSC 6.5 25201 - California Health and Safety Code, Chapter 6.5, Section(s) 25201

Violation Description: Failure to obtain a permit or grant of interim status after generator has accumulated hazardous waste on-site for longer than 90 days.

Violation Notes: Returned to compliance on 11/20/2020. OBSERVATION: Last documented disposal of used antifreeze was in 2019. REQUIRED ACTION: Schedule a pick up with a registered hazardous waste transporter for waste antifreeze and provide a copy of the manifest to the Inspector within 30 days. Ensure that hazardous waste is disposed of within 90 days of accumulation start date.

Violation Division: San Mateo County Environmental Health  
Violation Program: HW  
Violation Source: CERS,

Site ID: 103227  
Site Name: CARLSEN MOTOR CARS, INC.  
Violation Date: 08-17-2021  
Citation: HSC 6.5 25123.3(h)(1) - California Health and Safety Code, Chapter 6.5, Section(s) 25123.3(h)(1)

Violation Description: Failure to send hazardous waste offsite for treatment, storage, or disposal within 180 days (or 270 days if waste is transported over 200 miles) for a generator who generates less than 1000 kilogram per month if all of the following conditions are met: (1) The quantity of hazardous waste accumulated onsite never exceeds 6,000 kilograms. (2)

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CARLSEN MOTOR CARS, INC. (Continued)**

**S121737450**

Violation Notes: The generator complies with the requirements of 40 Code of Federal Regulations section 262.34(d), (e) and (f). (3) The generator does not hold acutely hazardous waste or extremely hazardous waste in an amount greater than one kilogram for more than 90 days.  
Returned to compliance on 08/18/2021. Observed waste coolant container with accumulation start date of 11-1-2020. Have this waste picked up with your next disposal and send the inspector a copy of the receipt. Work with your hauler to ensure pickups every 180 days.

Violation Division: San Mateo County Environmental Health  
Violation Program: HW  
Violation Source: CERS,

Site ID: 103227  
Site Name: CARLSEN MOTOR CARS, INC.  
Violation Date: 12-16-2016  
Citation: 22 CCR 15 66265.195(c) - California Code of Regulations, Title 22, Chapter 15, Section(s) 66265.195(c)

Violation Description: Failure to conduct and document inspections of hazardous waste tank systems each operating day and retain records of those inspections at the facility.

Violation Notes: Returned to compliance on 01/13/2017. OBSERVATION: The daily log for the hazardous waste tank inspection from April through November 2015 was not on site. CORRECTIVE ACTION: Immediately resume documenting daily inspections of the hazardous waste tank systems, and document the items inspected. Submit a copy of the inspection log for the next 30 days to the San Mateo County CUPA by 1-16-17.

Violation Division: San Mateo County Environmental Health  
Violation Program: HW  
Violation Source: CERS,

Site ID: 103227  
Site Name: CARLSEN MOTOR CARS, INC.  
Violation Date: 12-16-2016  
Citation: HSC 6.95 25505(a)(4) - California Health and Safety Code, Chapter 6.95, Section(s) 25505(a)(4)

Violation Description: Failure to provide initial and annual training to all employees in safety procedures in the event of a release or threatened release of a hazardous material or failure to document and maintain training records for a minimum of three years.

Violation Notes: Returned to compliance on 01/13/2017. OBSERVATION: Annual training documentation for all applicable employees was not available. CORRECTIVE ACTION: Submit documentation to the San Mateo County CUPA demonstrating that employees have received training on safe handling of hazardous materials and the Emergency Response Plan by 1-16-17.

Violation Division: San Mateo County Environmental Health  
Violation Program: HMRRP  
Violation Source: CERS,

Site ID: 103227  
Site Name: CARLSEN MOTOR CARS, INC.  
Violation Date: 08-20-2018  
Citation: 22 CCR 15 66265.192(a) - California Code of Regulations, Title 22, Chapter 15, Section(s) 66265.192(a)

Violation Description: Failure to obtain and maintain a written assessment reviewed and certified by an independent, qualified, professional engineer prior to placing the tank system in service. The written assessment shall state that, the new hazardous waste tank system has sufficient structural

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CARLSEN MOTOR CARS, INC. (Continued)**

**S121737450**

integrity, is acceptable for the transferring, storing and treating of hazardous waste, and that the tanks and containment system including the foundation, structural support, seams, connections, and pressure controls (if applicable) are suitably designed to meet the regulation.

Violation Notes: Returned to compliance on 09/12/2018. OBSERVATION: A written hazardous waste tank assessment has not been obtained for the [HAZARDOUS WASTE] tank system prior to placing system into service. CORRECTIVE ACTION: Obtain a written hazardous waste tank system assessment for the [HAZARDOUS WASTE] tank system in accordance with 22 CCR 15 66265.192 and submit a copy to the CUPA.

Violation Division: San Mateo County Environmental Health  
Violation Program: HW  
Violation Source: CERS,

Site ID: 103227  
Site Name: CARLSEN MOTOR CARS, INC.  
Violation Date: 12-10-2014  
Citation: 22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)

Violation Description: Failure to properly label hazardous waste accumulation containers with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.

Violation Notes: Returned to compliance on 06/24/2015. refresh labels on oil caddies, including start date relabel drum collecting oil from crusher, currently labeled oil filters 6/11/15 NOV sent 6/24/15 spoke to John, will send photos

Violation Division: San Mateo County Environmental Health  
Violation Program: HW  
Violation Source: CERS,

Evaluation:

Eval General Type: Other/Unknown  
Eval Date: 05-15-2015  
Violations Found: No  
Eval Type: Other, not routine, done by local agency  
Eval Notes: Not reported  
Eval Division: San Mateo County Environmental Health  
Eval Program: HMRRP  
Eval Source: CERS,

Eval General Type: Other/Unknown  
Eval Date: 06-27-2014  
Violations Found: No  
Eval Type: Other, not routine, done by local agency  
Eval Notes: Not reported  
Eval Division: San Mateo County Environmental Health  
Eval Program: HMRRP  
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection  
Eval Date: 08-17-2021  
Violations Found: Yes  
Eval Type: Routine done by local agency  
Eval Notes: Auto dealer doing maintenance and repair, generating SQG quantities of waste oil, oil filters (paper and metal), coolant, and other automotive fluids.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CARLSEN MOTOR CARS, INC. (Continued)**

**S121737450**

Eval Division: San Mateo County Environmental Health  
Eval Program: HW  
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection  
Eval Date: 09-01-2022  
Violations Found: No  
Eval Type: Routine done by local agency  
Eval Notes: Routine inspection. Facility generates waste oil, waste oil filters, waste coolant, batteries. No violations observed.

Eval Division: San Mateo County Environmental Health  
Eval Program: HW  
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection  
Eval Date: 11-16-2020  
Violations Found: Yes  
Eval Type: Routine done by local agency  
Eval Notes: Facility generates: Used oil(typically 1-2 pickups per month of 200gal+) Used antifreeze Used filters Smaller volumes of waste brake fluid Occasional waste fuel

Eval Division: San Mateo County Environmental Health  
Eval Program: HW  
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection  
Eval Date: 12-10-2014  
Violations Found: Yes  
Eval Type: Routine done by local agency  
Eval Notes: Not reported

Eval Division: San Mateo County Environmental Health  
Eval Program: HMRRP  
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection  
Eval Date: 12-16-2016  
Violations Found: Yes  
Eval Type: Routine done by local agency  
Eval Notes: On site to conduct a routine hazardous waste inspection. PLEASE NOTE: If violations have been cited, they are listed on the last section of your inspection report and you are required to correct these by the "Comply by Date". How to close violations? Once you have corrected all violations, you may contact me for a re-inspection or send me a description of how these were corrected including supporting documentation if applicable. This may include: pictures training records inspection logs disposal records, etc. Reply to this email including that information/documentation or fax it to (650)627-8244. Contact me if you have any questions. Thank you. Failure to correct violations may result in a Notice of Violation and possibly formal enforcement and monetary penalties.

Eval Division: San Mateo County Environmental Health  
Eval Program: HW  
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection  
Eval Date: 08-17-2021  
Violations Found: No

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CARLSEN MOTOR CARS, INC. (Continued)**

**S121737450**

Eval Type: Routine done by local agency  
Eval Notes: Last accepted HMBP submitted 9-23-2020.  
Eval Division: San Mateo County Environmental Health  
Eval Program: HMRRP  
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection  
Eval Date: 08-22-2019  
Violations Found: Yes  
Eval Type: Routine done by local agency  
Eval Notes: Not reported  
Eval Division: San Mateo County Environmental Health  
Eval Program: HMRRP  
Eval Source: CERS,

Eval General Type: Other/Unknown  
Eval Date: 09-19-2014  
Violations Found: No  
Eval Type: Other, not routine, done by local agency  
Eval Notes: Not reported  
Eval Division: San Mateo County Environmental Health  
Eval Program: HMRRP  
Eval Source: CERS,

Eval General Type: Other/Unknown  
Eval Date: 07-23-2018  
Violations Found: No  
Eval Type: Other, not routine, done by local agency  
Eval Notes: Not reported  
Eval Division: San Mateo County Environmental Health  
Eval Program: HMRRP  
Eval Source: CERS,

Eval General Type: Other/Unknown  
Eval Date: 08-18-2017  
Violations Found: No  
Eval Type: Other, not routine, done by local agency  
Eval Notes: 8/17/2017 8:29AM Facility Information, Hazardous Materials Inventory, Emergency Response, and Training Plans Not Accepted.  
Eval Division: San Mateo County Environmental Health  
Eval Program: HMRRP  
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection  
Eval Date: 08-20-2018  
Violations Found: Yes  
Eval Type: Routine done by local agency  
Eval Notes: Not reported  
Eval Division: San Mateo County Environmental Health  
Eval Program: HMRRP  
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection  
Eval Date: 08-20-2018  
Violations Found: Yes  
Eval Type: Routine done by local agency  
Eval Notes: SITE GENERATE 270-290 GALLONS A MONTH OF USED OIL. PAPER FILTERS BRAKE

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CARLSEN MOTOR CARS, INC. (Continued)**

**S121737450**

**FLUID METAL FILTERS**

Eval Division: San Mateo County Environmental Health  
Eval Program: HW  
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection  
Eval Date: 08-22-2019  
Violations Found: Yes  
Eval Type: Routine done by local agency

Eval Notes: Facility generates: Used oil (Last pick up 8/23/19 - 175 gallons, 8/21/19 - 150 gallons, 7/30/19 - 250 gallons, 7/22/19 - 250 gallons, 7/3/19 - 200 gallons) Used filters paper/absorbent (last pick up 8/6/19 - 3 drums) Waste antifreeze (last pick up 8/5/19 -35 gallons)

Eval Division: San Mateo County Environmental Health  
Eval Program: HW  
Eval Source: CERS,

Eval General Type: Other/Unknown  
Eval Date: 09-19-2017  
Violations Found: No  
Eval Type: Other, not routine, done by local agency

Eval Notes: Not reported  
Eval Division: San Mateo County Environmental Health  
Eval Program: HMRRP  
Eval Source: CERS,

Eval General Type: Other/Unknown  
Eval Date: 10-03-2019  
Violations Found: No  
Eval Type: Other, not routine, done by local agency

Eval Notes: Not reported  
Eval Division: San Mateo County Environmental Health  
Eval Program: HMRRP  
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection  
Eval Date: 12-10-2014  
Violations Found: Yes  
Eval Type: Routine done by local agency

Eval Notes: Not reported  
Eval Division: San Mateo County Environmental Health  
Eval Program: HW  
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection  
Eval Date: 12-16-2016  
Violations Found: Yes  
Eval Type: Routine done by local agency

Eval Notes: On site to conduct a routine hazardous materials inspection. PLEASE NOTE: If violations have been cited, they are listed on the last section of your inspection report and you are required to correct these by the "Comply by Date". How to close violations? Once you have corrected all violations, you may contact me for a re-inspection or send me a description of how these were corrected including supporting documentation if applicable. This may include: pictures training records inspection logs disposal records, etc. Reply to this email including that information/documentation or fax it to (650)627-8244.



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CARLSEN MOTOR CARS, INC. (Continued)**

**S121737450**

Contact me if you have any questions. Thank you. Failure to correct violations may result in a Notice of Violation and possibly formal enforcement and monetary penalties.

Eval Division: San Mateo County Environmental Health  
Eval Program: HMRRP  
Eval Source: CERS,

Eval General Type: Other/Unknown  
Eval Date: 03-25-2015  
Violations Found: No  
Eval Type: Other, not routine, done by local agency  
Eval Notes: Not reported

Eval Division: San Mateo County Environmental Health  
Eval Program: HMRRP  
Eval Source: CERS,

Eval General Type: Other/Unknown  
Eval Date: 07-24-2014  
Violations Found: No  
Eval Type: Other, not routine, done by local agency  
Eval Notes: Not reported

Eval Division: San Mateo County Environmental Health  
Eval Program: HMRRP  
Eval Source: CERS,

Eval General Type: Other/Unknown  
Eval Date: 08-18-2018  
Violations Found: No  
Eval Type: Other, not routine, done by local agency  
Eval Notes: Not reported

Eval Division: San Mateo County Environmental Health  
Eval Program: HMRRP  
Eval Source: CERS,

Eval General Type: Other/Unknown  
Eval Date: 09-23-2020  
Violations Found: No  
Eval Type: Other, not routine, done by local agency  
Eval Notes: Not reported

Eval Division: San Mateo County Environmental Health  
Eval Program: HMRRP  
Eval Source: CERS,

Eval General Type: Other/Unknown  
Eval Date: 12-20-2017  
Violations Found: No  
Eval Type: Other, not routine, done by local agency  
Eval Notes: Not reported

Eval Division: San Mateo County Environmental Health  
Eval Program: HMRRP  
Eval Source: CERS,

**Enforcement Action:**

Site ID: 103227  
Site Name: CARLSEN MOTOR CARS, INC.  
Site Address: 3636 HAVEN AVE  
Site City: REDWOOD CITY

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CARLSEN MOTOR CARS, INC. (Continued)**

**S121737450**

Site Zip: 94063  
Enf Action Date: 02-22-2018  
Enf Action Type: Notice of Violation (Unified Program)  
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection  
Enf Action Notes: 4/23/18: Facility violations still open 6/29/18: Facility violations still open 10/18/18: violations still open for 2017 hazardous waste violations, new violations for 2018 5/20/19: facility has returned to compliance .

Enf Action Division: San Mateo County Environmental Health  
Enf Action Program: HW  
Enf Action Source: CERS,

Site ID: 103227  
Site Name: CARLSEN MOTOR CARS, INC.  
Site Address: 3636 HAVEN AVE  
Site City: REDWOOD CITY  
Site Zip: 94063  
Enf Action Date: 06-15-2015  
Enf Action Type: Notice of Violation (Unified Program)  
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection  
Enf Action Notes: complied 6/24/15.  
Enf Action Division: San Mateo County Environmental Health  
Enf Action Program: HW  
Enf Action Source: CERS,

Site ID: 103227  
Site Name: CARLSEN MOTOR CARS, INC.  
Site Address: 3636 HAVEN AVE  
Site City: REDWOOD CITY  
Site Zip: 94063  
Enf Action Date: 12-10-2014  
Enf Action Type: Notice of Violation (Unified Program)  
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection  
Enf Action Notes: Not reported  
Enf Action Division: San Mateo County Environmental Health  
Enf Action Program: HMRRP  
Enf Action Source: CERS,

Site ID: 103227  
Site Name: CARLSEN MOTOR CARS, INC.  
Site Address: 3636 HAVEN AVE  
Site City: REDWOOD CITY  
Site Zip: 94063  
Enf Action Date: 12-10-2014  
Enf Action Type: Notice of Violation (Unified Program)  
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection  
Enf Action Notes: Not reported  
Enf Action Division: San Mateo County Environmental Health  
Enf Action Program: HW  
Enf Action Source: CERS,

Affiliation:  
Affiliation Type Desc: Environmental Contact  
Entity Name: Mary Jane Rice  
Entity Title: Not reported  
Affiliation Address: 3636 Haven Avenue  
Affiliation City: Redwood City

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CARLSEN MOTOR CARS, INC. (Continued)**

**S121737450**

Affiliation State: CA  
Affiliation Country: Not reported  
Affiliation Zip: 94063  
Affiliation Phone: ,

Affiliation Type Desc: Facility Mailing Address  
Entity Name: Mailing Address  
Entity Title: Not reported  
Affiliation Address: 3636 HAVEN AVE  
Affiliation City: REDWOOD CITY  
Affiliation State: CA  
Affiliation Country: Not reported  
Affiliation Zip: 94063  
Affiliation Phone: ,

Affiliation Type Desc: Legal Owner  
Entity Name: CARLSEN MOTOR CARS, INC.  
Entity Title: Not reported  
Affiliation Address: 3636 HAVEN AVE  
Affiliation City: REDWOOD CITY  
Affiliation State: CA  
Affiliation Country: United States  
Affiliation Zip: 94063  
Affiliation Phone: (650) 701-9200,

Affiliation Type Desc: CUPA District  
Entity Name: San Mateo County Environmental Health  
Entity Title: Not reported  
Affiliation Address: 2000 Alameda de las Pulgas, Suite 100  
Affiliation City: San Mateo  
Affiliation State: CA  
Affiliation Country: Not reported  
Affiliation Zip: 94403  
Affiliation Phone: (650) 372-6200,

Affiliation Type Desc: Operator  
Entity Name: CARLSEN MOTOR CARS, INC.  
Entity Title: Not reported  
Affiliation Address: Not reported  
Affiliation City: Not reported  
Affiliation State: Not reported  
Affiliation Country: Not reported  
Affiliation Zip: Not reported  
Affiliation Phone: (650) 701-9200,

Affiliation Type Desc: Parent Corporation  
Entity Name: CARLSEN MOTOR CARS, INC.  
Entity Title: Not reported  
Affiliation Address: Not reported  
Affiliation City: Not reported  
Affiliation State: Not reported  
Affiliation Country: Not reported  
Affiliation Zip: Not reported  
Affiliation Phone: ,

Affiliation Type Desc: Property Owner  
Entity Name: Charles Burton

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CARLSEN MOTOR CARS, INC. (Continued)**

**S121737450**

Entity Title: Not reported  
Affiliation Address: 3636 Haven Avenue  
Affiliation City: Redwood City  
Affiliation State: CA  
Affiliation Country: United States  
Affiliation Zip: 94063  
Affiliation Phone: (650) 701-9200,

**HWTS:**

Name: CARLSEN MOTOR CARS INC  
Address: 3636 HAVEN AVE  
Address 2: Not reported  
City,State,Zip: REDWOOD CITY, CA 94063  
EPA ID: CAR000115923  
Inactive Date: Not reported  
Create Date: 03/04/2003  
Last Act Date: Not reported  
Mailing Name: Not reported  
Mailing Address: 3636 HAVEN AVE  
Mailing Address 2: Not reported  
Mailing City,State,Zip: REDWOOD CITY, CA 940630000  
Owner Name: CHARLES A. BURTON  
Owner Address: 3636 HAVEN AVE  
Owner Address 2: Not reported  
Owner City,State,Zip: REDWOOD CITY, CA 94063  
Contact Name: TODD PARKINSON  
Contact Address: 3636 HAVEN AVE  
Contact Address 2: Not reported  
City,State,Zip: REDWOOD CITY, CA 94063  
Facility Status: Active  
Facility Type: PERMANENT  
Category: FEDERAL  
Latitude: 37.485787  
Longitude: -122.184502

**NAICS:**

EPA ID: CAR000115923  
Create Date: 2006-11-27 18:30:15.000  
NAICS Code: 441229  
NAICS Description: All Other Motor Vehicle Dealers  
Issued EPA ID Date: 2003-03-04 14:25:35.18700  
Inactive Date: Not reported  
Facility Name: CARLSEN MOTOR CARS INC  
Facility Address: 3636 HAVEN AVE  
Facility Address 2: Not reported  
Facility City: REDWOOD CITY  
Facility County: Not reported  
Facility State: CA  
Facility Zip: 94063

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**B49**  
**West**  
**< 1/8**  
**0.071 mi.**  
**373 ft.**

**CARLSEN MOTOR CARS, INC.**  
**3636 HAVEN**  
**REDWOOD CITY, CA 94063**

**CA San Mateo Co. BI**

**S113757726**  
**N/A**

**Site 12 of 17 in cluster B**

**Relative:**  
**Higher**  
**Actual:**  
**11 ft.**

San Mateo Co. BI:  
Name: CARLSEN MOTOR CARS, INC.  
Address: 3636 HAVEN  
City,State,Zip: REDWOOD CITY, CA 94063  
Region: SAN MATEO  
Facility ID: FA0027372  
Prog Element Code: STORMWATER ANNUAL INSPECTION FEE  
Record Id: PR0043347  
Description: STORMWATER ANNUAL FEE - INSP FREQ EVERY 2 YRS  
Facility Status: Inactive, non-billable  
Program Category: STORMWATER

Name: CARLSEN MOTOR CARS, INC.  
Address: 3636 HAVEN  
City,State,Zip: REDWOOD CITY, CA 94063  
Region: SAN MATEO  
Facility ID: FA0027372  
Prog Element Code: STORES HAZ MAT <1,199GAL,9,999LB,4,799FT3  
Record Id: PR0043346  
Description: STORES HAZ MAT <1,199GAL,9,999LB,4,799CF  
Facility Status: Active, billable  
Program Category: BUSINESS PLAN PROGRAM

Name: CARLSEN MOTOR CARS, INC.  
Address: 3636 HAVEN  
City,State,Zip: REDWOOD CITY, CA 94063  
Region: SAN MATEO  
Facility ID: FA0027372  
Prog Element Code: 2221  
Record Id: PR0043345  
Description: GENERATES & RECYCLES WASTE OIL/SOLVENT - LQG  
Facility Status: Active, billable  
Program Category: HAZARDOUS WASTE PROGRAM

**B50**  
**West**  
**< 1/8**  
**0.071 mi.**  
**373 ft.**

**LEMMON'S SIGNS**  
**3636 HAVEN**  
**REDWOOD CITY, CA 94063**

**CA LUST**  
**CA Cortese**  
**CA HIST CORTESE**

**S104494022**  
**N/A**

**Site 13 of 17 in cluster B**

**Relative:**  
**Higher**  
**Actual:**  
**11 ft.**

SAN MATEO CO. LUST:  
Name: LEMMON'S SIGNS  
Address: 3636 HAVEN AVE  
City,State,Zip: REDWOOD CITY, CA  
Region: SAN MATEO  
Facility ID: 330108  
Facility Status: 9- Case Closed  
Global ID: T0608100150  
APN Number: 055162360  
Case Type: REDWOOD CITY, CA  
EDR Link ID: REDWOOD CITY, CA

LUST:

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**LEMMON'S SIGNS (Continued)**

**S104494022**

Name: LEMMON'S SIGNS  
Address: 3636 HAVEN  
City,State,Zip: REDWOOD CITY, CA 94063  
Lead Agency: SAN MATEO COUNTY LOP  
Case Type: LUST Cleanup Site  
Geo Track: [http://geotracker.waterboards.ca.gov/profile\\_report.asp?global\\_id=T0608100150](http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0608100150)  
Global Id: T0608100150  
Latitude: 37.485214  
Longitude: -122.183992  
Status: Completed - Case Closed  
Status Date: 03/29/1996  
Case Worker: Not reported  
RB Case Number: 41-0158  
Local Agency: Not reported  
File Location: Local Agency  
Local Case Number: 330108  
Potential Media Affect: Other Groundwater (uses other than drinking water)  
Potential Contaminants of Concern: Gasoline  
Site History: Not reported

LUST:

Global Id: T0608100150  
Contact Type: Regional Board Caseworker  
Contact Name: Regional Water Board  
Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)  
Address: 1515 CLAY ST SUITE 1400  
City: OAKLAND  
Email: Not reported  
Phone Number: Not reported

LUST:

Global Id: T0608100150  
Action Type: Other  
Date: 09/16/1992  
Action: Leak Discovery

Global Id: T0608100150  
Action Type: Other  
Date: 09/04/1992  
Action: Leak Reported

Global Id: T0608100150  
Action Type: REMEDIATION  
Date: 11/22/1993  
Action: Excavation

Global Id: T0608100150  
Action Type: ENFORCEMENT  
Date: 12/03/1992  
Action: Notice of Responsibility - #1

LUST:

Global Id: T0608100150  
Status: Open - Case Begin Date  
Status Date: 09/04/1992

Global Id: T0608100150

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**LEMMON'S SIGNS (Continued)**

**S104494022**

Status: Completed - Case Closed  
Status Date: 03/29/1996

LUST REG 2:

Region: 2  
Facility Id: Not reported  
Facility Status: Case Closed  
Case Number: 330108  
How Discovered: OM  
Leak Cause: Unknown  
Leak Source: Unknown  
Date Leak Confirmed: Not reported  
Oversight Program: LUST  
Prelim. Site Assessment Workplan Submitted: Not reported  
Preliminary Site Assessment Began: Not reported  
Pollution Characterization Began: Not reported  
Pollution Remediation Plan Submitted: Not reported  
Date Remediation Action Underway: Not reported  
Date Post Remedial Action Monitoring Began: Not reported

CORTESE:

Name: LEMMON'S SIGNS  
Address: 3636 HAVEN  
City,State,Zip: REDWOOD CITY, CA 94063  
Region: CORTESE  
Envirostor Id: Not reported  
Global ID: T0608100150  
Site/Facility Type: LUST CLEANUP SITE  
Cleanup Status: COMPLETED - CASE CLOSED  
Status Date: Not reported  
Site Code: Not reported  
Latitude: Not reported  
Longitude: Not reported  
Owner: Not reported  
Enf Type: Not reported  
Swat R: Not reported  
Flag: active  
Order No: Not reported  
Waste Discharge System No: Not reported  
Effective Date: Not reported  
Region 2: Not reported  
WID Id: Not reported  
Solid Waste Id No: Not reported  
Waste Management Unit Name: Not reported  
File Name: Active Open

HIST CORTESE:

edr\_fname: LEMMON'S SIGNS  
edr\_fadd1: 3636 HAVEN  
City,State,Zip: REDWOOD CITY, CA 94063  
Region: CORTESE  
Facility County Code: 41  
Reg By: LTNKA  
Reg Id: 41-0158

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**B51**  
**West**  
**< 1/8**  
**0.071 mi.**  
**373 ft.**

**LEMMONS SIGNS**  
**3636 HAVEN AVENUE**  
**REDWOOD CITY, CA 94063**

**CA SWEEPS UST** **S101593731**  
**CA FID UST** **N/A**

**Site 14 of 17 in cluster B**

**Relative:**  
**Higher**  
**Actual:**  
**11 ft.**

**SWEEPS UST:**  
Name: LEMMONS SIGNS  
Address: 3636 HAVEN AVENUE  
City: REDWOOD CITY  
Status: Active  
Comp Number: 330193  
Number: 9  
Board Of Equalization: Not reported  
Referral Date: 02-02-94  
Action Date: 02-02-94  
Created Date: 07-08-92  
Owner Tank Id: Not reported  
SWRCB Tank Id: Not reported  
Tank Status: Not reported  
Capacity: Not reported  
Active Date: Not reported  
Tank Use: Not reported  
STG: Not reported  
Content: Not reported  
Number Of Tanks: Not reported

Name: LEMMONS SIGNS  
Address: 3636 HAVEN AVENUE  
City: REDWOOD CITY  
Status: Not reported  
Comp Number: 330193  
Number: Not reported  
Board Of Equalization: Not reported  
Referral Date: Not reported  
Action Date: Not reported  
Created Date: Not reported  
Owner Tank Id: Not reported  
SWRCB Tank Id: 41-000-330193-000001  
Tank Status: Not reported  
Capacity: 750  
Active Date: Not reported  
Tank Use: M.V. FUEL  
STG: PRODUCT  
Content: REG UNLEADED  
Number Of Tanks: 1

**CA FID UST:**  
Facility ID: 41000319  
Regulated By: UTNKA  
Regulated ID: Not reported  
Cortese Code: Not reported  
SIC Code: Not reported  
Facility Phone: 5108209171  
Mail To: Not reported  
Mailing Address: 595 EVERETT DR  
Mailing Address 2: Not reported  
Mailing City,St,Zip: REDWOOD CITY 94063  
Contact: Not reported



Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**LEMMONS SIGNS (Continued)**

**S101593731**

Contact Phone: Not reported  
 DUNs Number: Not reported  
 NPDES Number: Not reported  
 EPA ID: Not reported  
 Comments: Not reported  
 Status: Active

**B52**  
**West**  
 < 1/8  
 0.071 mi.  
 373 ft.

**CARLSEN PORSCHE**  
**3636 HAVEN AVE**  
**REDWOOD CITY, CA 94063**

**RCRA-SQG 1005441141**  
**FINDS CAR000115923**  
**ECHO**

**Site 15 of 17 in cluster B**

**Relative:**  
**Higher**  
**Actual:**  
**11 ft.**

RCRA Listings:  
 Date Form Received by Agency: 20180122  
 Handler Name: CARLSEN PORSCHE  
 Handler Address: 3636 HAVEN AVE  
 Handler City,State,Zip: REDWOOD CITY, CA 94063  
 EPA ID: CAR000115923  
 Contact Name: TODD PARKINSON  
 Contact Address: 3636 HAVEN AVE  
 Contact City,State,Zip: REDWOOD CITY, CA 94063  
 Contact Telephone: 650-701-9200  
 Contact Fax: 650-701-1448  
 Contact Email: TODD.PARKINSON@CARLSENPORSCHE.COM  
 Contact Title: GENERAL MANAGER  
 EPA Region: 09  
 Land Type: Private  
 Federal Waste Generator Description: Small Quantity Generator  
 Non-Notifier: Not reported  
 Biennial Report Cycle: Not reported  
 Accessibility: Not reported  
 Active Site Indicator: Handler Activities  
 State District Owner: Not reported  
 State District: Not reported  
 Mailing Address: HAVEN AVE  
 Mailing City,State,Zip: REDWOOD CITY, CA 94063  
 Owner Name: CARLSEN MOTOR CARS INC  
 Owner Type: Private  
 Operator Name: CHARLES A. BURTON  
 Operator Type: Private  
 Short-Term Generator Activity: No  
 Importer Activity: No  
 Mixed Waste Generator: No  
 Transporter Activity: No  
 Transfer Facility Activity: No  
 Recycler Activity with Storage: No  
 Small Quantity On-Site Burner Exemption: No  
 Smelting Melting and Refining Furnace Exemption: No  
 Underground Injection Control: No  
 Off-Site Waste Receipt: No  
 Universal Waste Indicator: No  
 Universal Waste Destination Facility: No  
 Federal Universal Waste: No  
 Active Site Fed-Reg Treatment Storage and Disposal Facility: Not reported  
 Active Site Converter Treatment storage and Disposal Facility: Not reported  
 Active Site State-Reg Treatment Storage and Disposal Facility: Not reported  
 Active Site State-Reg Handler: ---

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**CARLSEN PORSCHE (Continued)**

**1005441141**

Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDs Where RCRA CA has Been Imposed Universe:	No
TSDs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20180123
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

**Hazardous Waste Summary:**

Waste Code: D039  
 Waste Description: TETRACHLOROETHYLENE

Waste Code: F001  
 Waste Description: THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLOROETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE AND CHLORINATED FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste Code: F002  
 Waste Description: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE,

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CARLSEN PORSCHE (Continued)**

**1005441141**

CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2, TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name:	CHARLES A. BURTON
Legal Status:	Private
Date Became Current:	20020801
Date Ended Current:	Not reported
Owner/Operator Address:	3636 HAVEN AVE
Owner/Operator City,State,Zip:	REDWOOD CITY, CA 94063
Owner/Operator Telephone:	650-701-9200
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	650-701-1448
Owner/Operator Email:	CBURTON@CARLSENPORSCHE.COM

Owner/Operator Indicator:	Owner
Owner/Operator Name:	CARLSEN MOTOR CARS INC
Legal Status:	Private
Date Became Current:	20020801
Date Ended Current:	Not reported
Owner/Operator Address:	3636 3636 HAVEN AVENUE
Owner/Operator City,State,Zip:	REDWOOD CITY, CA 94063
Owner/Operator Telephone:	650-701-9200
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	CHARLES A. BURTON
Legal Status:	Private
Date Became Current:	20020801
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	CARLSEN MOTOR CARS INC
Legal Status:	Private
Date Became Current:	20020801
Date Ended Current:	Not reported
Owner/Operator Address:	3636 3636 HAVEN AVENUE
Owner/Operator City,State,Zip:	REDWOOD CITY, CA 94063
Owner/Operator Telephone:	650-701-9200
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CARLSEN PORSCHE (Continued)**

**1005441141**

Owner/Operator Indicator: Owner  
Owner/Operator Name: CARLSEN MOTOR CARS INC  
Legal Status: Private  
Date Became Current: Not reported  
Date Ended Current: Not reported  
Owner/Operator Address: 1730 EMBARCADERO ROAD  
Owner/Operator City,State,Zip: PALO ALTO, CA 94303  
Owner/Operator Telephone: 650-856-6300  
Owner/Operator Telephone Ext: Not reported  
Owner/Operator Fax: Not reported  
Owner/Operator Email: Not reported

Historic Generators:

Receive Date: 20020508  
Handler Name: CARLSEN MOTOR CARS INC  
Federal Waste Generator Description: Small Quantity Generator  
State District Owner: Not reported  
Large Quantity Handler of Universal Waste: No  
Recognized Trader Importer: No  
Recognized Trader Exporter: No  
Spent Lead Acid Battery Importer: No  
Spent Lead Acid Battery Exporter: No  
Current Record: No  
Non Storage Recycler Activity: Not reported  
Electronic Manifest Broker: Not reported

Receive Date: 20160918  
Handler Name: CARLSEN PORSCHE  
Federal Waste Generator Description: Small Quantity Generator  
State District Owner: Not reported  
Large Quantity Handler of Universal Waste: No  
Recognized Trader Importer: No  
Recognized Trader Exporter: No  
Spent Lead Acid Battery Importer: No  
Spent Lead Acid Battery Exporter: No  
Current Record: No  
Non Storage Recycler Activity: Not reported  
Electronic Manifest Broker: Not reported

Receive Date: 20180122  
Handler Name: CARLSEN PORSCHE  
Federal Waste Generator Description: Small Quantity Generator  
State District Owner: Not reported  
Large Quantity Handler of Universal Waste: No  
Recognized Trader Importer: No  
Recognized Trader Exporter: No  
Spent Lead Acid Battery Importer: No  
Spent Lead Acid Battery Exporter: No  
Current Record: Yes  
Non Storage Recycler Activity: No  
Electronic Manifest Broker: No

List of NAICS Codes and Descriptions:

NAICS Code: 441228  
NAICS Description: MOTORCYCLE, ATV, AND ALL OTHER MOTOR VEHICLE DEALERS

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CARLSEN PORSCHE (Continued)**

**1005441141**

Facility Has Received Notices of Violations:

Violations: No Violations Found

Evaluation Action Summary:

Evaluations: No Evaluations Found

FINDS:

Registry ID: 110012546487

Click Here for FRS Facility Detail Report:

Environmental Interest/Information System:

California Hazardous Waste Tracking System - Datamart (HWTS-DATAMART) provides California with information on hazardous waste shipments for generators, transporters, and treatment, storage, and disposal facilities.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

STATE MASTER

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid: 1005441141  
Registry ID: 110012546487  
DFR URL: <http://echo.epa.gov/detailed-facility-report?fid=110012546487>  
Name: CARLSEN PORSCHE  
Address: 3636 HAVEN AVE  
City,State,Zip: REDWOOD CITY, CA 94063

**B53**  
**West**  
**< 1/8**  
**0.071 mi.**  
**373 ft.**

**LEMMON SIGNS**  
**3636 HAVEN**  
**REDWOOD CITY, CA 94063**

**CA San Mateo Co. BI S113755257**  
**N/A**

**Site 16 of 17 in cluster B**

**Relative:**  
**Higher**  
**Actual:**  
**11 ft.**

San Mateo Co. BI:  
Name: LEMMON SIGNS  
Address: 3636 HAVEN  
City,State,Zip: REDWOOD CITY, CA 94063  
Region: SAN MATEO  
Facility ID: FA0003522  
Prog Element Code: STORES HAZ MAT <219GAL,1,999LB, 879FT3  
Record Id: PR0003700  
Description: STORES HAZ MAT <219GAL,1,999LB, 879CF  
Facility Status: Inactive, non-billable  
Program Category: BUSINESS PLAN PROGRAM

Name: LEMMON SIGNS  
Address: 3636 HAVEN  
City,State,Zip: REDWOOD CITY, CA 94063

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**LEMMON SIGNS (Continued)**

**S113755257**

Region: SAN MATEO  
 Facility ID: FA0003522  
 Prog Element Code: GENERATES and RECYCLES WASTE OIL/SOLVENT  
 Record Id: PR0011311  
 Description: GENERATES & RECYCLES WASTE OIL/SOLVENT  
 Facility Status: Inactive, non-billable  
 Program Category: HAZARDOUS WASTE PROGRAM

Name: LEMMON SIGNS  
 Address: 3636 HAVEN  
 City,State,Zip: REDWOOD CITY, CA 94063  
 Region: SAN MATEO  
 Facility ID: FA0003522  
 Prog Element Code: UNDERGROUND TANK - GENERAL  
 Record Id: PR0025525  
 Description: UNDERGROUND TANK - GENERAL  
 Facility Status: Inactive, non-billable  
 Program Category: UNDERGROUND TANK PROGRAM

**E54**  
**NNE**  
 < 1/8  
 0.071 mi.  
 376 ft.

**MITSUBISHI SILICON AMERICA**  
**3717 HAVEN AVE**  
**MENLO PARK, CA 94025**

**RCRA-SQG 1000397955**  
**CAD047388236**

**Site 1 of 6 in cluster E**

**Relative:**  
**Lower**  
**Actual:**  
**8 ft.**

RCRA Listings: 19960901  
 Date Form Received by Agency: MITSUBISHI SILICON AMERICA  
 Handler Name: 3717 HAVEN AVE  
 Handler Address: MENLO PARK, CA 94025  
 Handler City,State,Zip: CAD047388236  
 EPA ID: Not reported  
 Contact Name: Not reported  
 Contact Address: Not reported  
 Contact City,State,Zip: Not reported  
 Contact Telephone: Not reported  
 Contact Fax: Not reported  
 Contact Email: Not reported  
 Contact Title: Not reported  
 EPA Region: 09  
 Land Type: Municipal  
 Federal Waste Generator Description: Small Quantity Generator  
 Non-Notifier: Not reported  
 Biennial Report Cycle: Not reported  
 Accessibility: Not reported  
 Active Site Indicator: Handler Activities  
 State District Owner: CA  
 State District: 2  
 Mailing Address: 3717 HAVEN AVE  
 Mailing City,State,Zip: MENLO PARK, CA 94025  
 Owner Name: Not reported  
 Owner Type: Not reported  
 Operator Name: SILTEC CORPORATION  
 Operator Type: Private  
 Short-Term Generator Activity: No  
 Importer Activity: No  
 Mixed Waste Generator: No  
 Transporter Activity: No  
 Transfer Facility Activity: No

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**MITSUBISHI SILICON AMERICA (Continued)**

**1000397955**

Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20020627
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name: SILTEC CORPORATION	
Legal Status:	Private
Date Became Current:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MITSUBISHI SILICON AMERICA (Continued)**

**1000397955**

Date Ended Current: Not reported  
Owner/Operator Address: 3717 HAVEN AVE  
Owner/Operator City,State,Zip: CITY NOT REPORTED, CA 99999  
Owner/Operator Telephone: 415-365-8600  
Owner/Operator Telephone Ext: Not reported  
Owner/Operator Fax: Not reported  
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner  
Owner/Operator Name: BETTY THYSEN  
Legal Status: Private  
Date Became Current: Not reported  
Date Ended Current: Not reported  
Owner/Operator Address: 1777 BOREL PL STE 509  
Owner/Operator City,State,Zip: SAN MATEO, CA 94402  
Owner/Operator Telephone: 415-341-2933  
Owner/Operator Telephone Ext: Not reported  
Owner/Operator Fax: Not reported  
Owner/Operator Email: Not reported

Historic Generators:

Receive Date: 19960901  
Handler Name: MITSUBISHI SILICON AMERICA  
Federal Waste Generator Description: Small Quantity Generator  
State District Owner: CA  
Large Quantity Handler of Universal Waste: No  
Recognized Trader Importer: No  
Recognized Trader Exporter: No  
Spent Lead Acid Battery Importer: No  
Spent Lead Acid Battery Exporter: No  
Current Record: Yes  
Non Storage Recycler Activity: Not reported  
Electronic Manifest Broker: Not reported

Receive Date: 19960805  
Handler Name: MITSUBISHI SILICON AMERICA  
Federal Waste Generator Description: Small Quantity Generator  
State District Owner: CA  
Large Quantity Handler of Universal Waste: No  
Recognized Trader Importer: No  
Recognized Trader Exporter: No  
Spent Lead Acid Battery Importer: No  
Spent Lead Acid Battery Exporter: No  
Current Record: No  
Non Storage Recycler Activity: Not reported  
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:

NAICS Code: 331419  
NAICS Description: PRIMARY SMELTING AND REFINING OF NONFERROUS METAL (EXCEPT COPPER AND ALUMINUM)

NAICS Code: 333298  
NAICS Description: ALL OTHER INDUSTRIAL MACHINERY MANUFACTURING

NAICS Code: 334419



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MITSUBISHI SILICON AMERICA (Continued)**

**1000397955**

NAICS Description: OTHER ELECTRONIC COMPONENT MANUFACTURING

Facility Has Received Notices of Violation:

Found Violation: Yes  
Agency Which Determined Violation: State  
Violation Short Description: Generators - General  
Date Violation was Determined: 19831215  
Actual Return to Compliance Date: 19840101  
Return to Compliance Qualifier: Unverifiable  
Violation Responsible Agency: State  
Scheduled Compliance Date: 19840116  
Enforcement Identifier: 001  
Date of Enforcement Action: 19831215  
Enforcement Responsible Agency: State  
Enforcement Docket Number: Not reported  
Enforcement Attorney: R9  
Corrective Action Component: No  
Appeal Initiated Date: Not reported  
Appeal Resolution Date: Not reported  
Disposition Status Date: Not reported  
Disposition Status: Not reported  
Disposition Status Description: Not reported  
Consent/Final Order Sequence Number: Not reported  
Consent/Final Order Respondent Name: Not reported  
Consent/Final Order Lead Agency: Not reported  
Enforcement Type: WRITTEN INFORMAL  
Enforcement Responsible Person: R9  
Enforcement Responsible Sub-Organization: Not reported  
SEP Sequence Number: Not reported  
SEP Expenditure Amount: Not reported  
SEP Scheduled Completion Date: Not reported  
SEP Actual Date: Not reported  
SEP Defaulted Date: Not reported  
SEP Type: Not reported  
SEP Type Description: Not reported  
Proposed Amount: Not reported  
Final Monetary Amount: Not reported  
Paid Amount: Not reported  
Final Count: Not reported  
Final Amount: Not reported

Found Violation: Yes  
Agency Which Determined Violation: State  
Violation Short Description: Generators - General  
Date Violation was Determined: 19840926  
Actual Return to Compliance Date: 19850315  
Return to Compliance Qualifier: Observed  
Violation Responsible Agency: State  
Scheduled Compliance Date: 19850126  
Enforcement Identifier: 001  
Date of Enforcement Action: 19840926  
Enforcement Responsible Agency: State  
Enforcement Docket Number: Not reported  
Enforcement Attorney: R9  
Corrective Action Component: No  
Appeal Initiated Date: Not reported  
Appeal Resolution Date: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MITSUBISHI SILICON AMERICA (Continued)**

**1000397955**

Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	R9
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**MITSUBISHI SILICON AMERICA (Continued)**

**1000397955**

Final Count: Not reported  
 Final Amount: Not reported

**Evaluation Action Summary:**

Evaluation Date: 19831215  
 Evaluation Responsible Agency: State  
 Found Violation: Yes  
 Evaluation Type Description: FINANCIAL RECORD REVIEW  
 Evaluation Responsible Person Identifier: R9  
 Evaluation Responsible Sub-Organization: Not reported  
 Actual Return to Compliance Date: 19840101  
 Scheduled Compliance Date: 19840116  
 Date of Request: Not reported  
 Date Response Received: Not reported  
 Request Agency: Not reported  
 Former Citation: Not reported

Evaluation Date: 19840926  
 Evaluation Responsible Agency: State  
 Found Violation: Yes  
 Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE  
 Evaluation Responsible Person Identifier: R9  
 Evaluation Responsible Sub-Organization: Not reported  
 Actual Return to Compliance Date: 19850315  
 Scheduled Compliance Date: 19850126  
 Date of Request: Not reported  
 Date Response Received: Not reported  
 Request Agency: Not reported  
 Former Citation: Not reported

Evaluation Date: 19850315  
 Evaluation Responsible Agency: State  
 Found Violation: No  
 Evaluation Type Description: COMPLIANCE SCHEDULE EVALUATION  
 Evaluation Responsible Person Identifier: R9  
 Evaluation Responsible Sub-Organization: Not reported  
 Actual Return to Compliance Date: Not reported  
 Scheduled Compliance Date: Not reported  
 Date of Request: Not reported  
 Date Response Received: Not reported  
 Request Agency: Not reported  
 Former Citation: Not reported

**E55**  
**NNE**  
**< 1/8**  
**0.071 mi.**  
**376 ft.**

**K O B AUTO**  
**3717 HAVEN AVE**  
**MENLO PARK, CA 94025**

**RCRA-SQG 1000103553**  
**CAD982324931**

**Site 2 of 6 in cluster E**

**Relative:**  
**Lower**  
**Actual:**  
**8 ft.**

RCRA Listings:  
 Date Form Received by Agency: 19900321  
 Handler Name: K O B AUTO  
 Handler Address: 3717 HAVEN AVE  
 Handler City,State,Zip: MENLO PARK, CA 94025  
 EPA ID: CAD982324931  
 Contact Name: ENVIRONMENTAL MANAGER

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**K O B AUTO (Continued)**

**1000103553**

Contact Address:	3717 HAVEN AVE
Contact City,State,Zip:	MENLO PARK, CA 94025
Contact Telephone:	415-365-0277
Contact Fax:	Not reported
Contact Email:	Not reported
Contact Title:	Not reported
EPA Region:	09
Land Type:	Not reported
Federal Waste Generator Description:	Small Quantity Generator
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	CA
State District:	2
Mailing Address:	HAVEN AVE
Mailing City,State,Zip:	MENLO PARK, CA 94025
Owner Name:	JAM SAUERBRY
Owner Type:	Private
Operator Name:	NOT REQUIRED
Operator Type:	Private
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRC Permit Baseline:	Not on the Baseline
2018 GPRC Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRC Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDs Where RCRA CA has Been Imposed Universe:	No
TSDs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**K O B AUTO (Continued)**

**1000103553**

Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDU Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20000915
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No
Handler - Owner Operator:	
Owner/Operator Indicator:	Operator
Owner/Operator Name:	NOT REQUIRED
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	NOT REQUIRED
Owner/Operator City,State,Zip:	NOT REQUIRED, ME 99999
Owner/Operator Telephone:	415-555-1212
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name:	JAM SAUERBRY
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	NOT REQUIRED
Owner/Operator City,State,Zip:	NOT REQUIRED, ME 99999
Owner/Operator Telephone:	415-555-1212
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Historic Generators:	
Receive Date:	19900321
Handler Name:	K O B AUTO
Federal Waste Generator Description:	Small Quantity Generator
State District Owner:	CA
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**K O B AUTO (Continued)**

**1000103553**

Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported
List of NAICS Codes and Descriptions:	
NAICS Codes:	No NAICS Codes Found
Facility Has Received Notices of Violations:	
Violations:	No Violations Found
Evaluation Action Summary:	
Evaluations:	No Evaluations Found

**E56**  
**NNE**  
 < 1/8  
 0.071 mi.  
 376 ft.

**SILTEC CORPORATION (BLDG2)**  
**3717 HAVEN AVE**  
**MENLO PARK, CA 94025**

**CA HIST UST**  
**CA San Mateo Co. BI**

**U001594213**  
**N/A**

**Site 3 of 6 in cluster E**

**Relative:**  
**Lower**  
**Actual:**  
**8 ft.**

**HIST UST:**

Name:	SILTEC CORPORATION (BLDG2)
Address:	3717 HAVEN AVE
City,State,Zip:	MENLO PARK, CA 94025
File Number:	0002C2F9
URL:	<a href="http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002C2F9.pdf">http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002C2F9.pdf</a>
Region:	STATE
Facility ID:	00000001828
Facility Type:	Other
Other Type:	MANUFACTURE
Contact Name:	ART PEREIRA
Telephone:	4153658600
Owner Name:	SILTEC CORPORATION
Owner Address:	190 INDEPENDENCE DRIVE
Owner City,St,Zip:	MENLO PARK, CA 94025
Total Tanks:	0001
Tank Num:	001
Container Num:	02-001
Year Installed:	1984
Tank Capacity:	00000120
Tank Used for:	WASTE
Type of Fuel:	Not reported
Container Construction Thickness:	1/2
Leak Detection:	Visual

Click here for Geo Tracker PDF:

**San Mateo Co. BI:**

Name:	K O B AUTO INC
Address:	3717 HAVEN
City,State,Zip:	MENLO PARK, CA 94025
Region:	SAN MATEO
Facility ID:	FA0016566
Prog Element Code:	STORES HAZ MAT <219GAL,1,999LB, 879FT3
Record Id:	PR0024908

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SILTEC CORPORATION (BLDG2) (Continued)**

**U001594213**

Description: STORES HAZ MAT <219GAL,1,999LB, 879CF  
Facility Status: Inactive, non-billable  
Program Category: BUSINESS PLAN PROGRAM

Name: K O B AUTO INC  
Address: 3717 HAVEN  
City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0016566  
Prog Element Code: GENERATES and RECYCLES WASTE OIL/SOLVENT  
Record Id: PR0024907  
Description: GENERATES & RECYCLES WASTE OIL/SOLVENT  
Facility Status: Inactive, non-billable  
Program Category: HAZARDOUS WASTE PROGRAM

**B57**  
**West**  
**< 1/8**  
**0.074 mi.**  
**390 ft.**

**RB TRACTOR WORK**  
**3633 HAVEN**  
**MENLO PARK, CA 94025**  
**Site 17 of 17 in cluster B**

**CA LUST**  
**CA CPS-SLIC**  
**CA San Mateo Co. BI**  
**CA CERS**

**S106874797**  
**N/A**

**Relative:**  
**Higher**  
**Actual:**  
**10 ft.**

SAN MATEO CO. LUST:  
Name: HAVEN AVENUE INDUSTRIAL CONDOMINIUMS  
Address: 3633 HAVEN AVE  
City,State,Zip: MENLO PARK, CA  
Region: SAN MATEO  
Facility ID: 449080  
Facility Status: 9- Case Closed  
Global ID: SL0608127363  
APN Number: 055170180/270  
Case Type: MENLO PARK, CA  
EDR Link ID: MENLO PARK, CA

CPS-SLIC:  
Name: HAVEN AVENUE INDUSTRIAL CONDOMINIUMS  
Address: 3633 HAVEN  
City,State,Zip: MENLO PARK, CA 94025  
Region: STATE  
**Facility Status: Completed - Case Closed**  
Status Date: 04/10/2007  
Global Id: SL0608127363  
Lead Agency: SAN MATEO COUNTY LOP  
Lead Agency Case Number: 449080  
Latitude: 37.485823  
Longitude: -122.184648  
Case Type: Cleanup Program Site  
Case Worker: Not reported  
Local Agency: Not reported  
RB Case Number: Not reported  
File Location: Local Agency Warehouse  
Potential Media Affected: Other Groundwater (uses other than drinking water)  
Potential Contaminants of Concern: Polychlorinated biphenyls (PCBs)  
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**RB TRACTOR WORK (Continued)**

**S106874797**

San Mateo Co. BI:

Name: RB TRACTOR WORK  
Address: 3633 HAVEN  
City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0022907  
Prog Element Code: GENERATES and RECYCLES WASTE OIL/SOLVENT  
Record Id: PR0025784  
Description: GENERATES & RECYCLES WASTE OIL/SOLVENT  
Facility Status: Inactive, non-billable  
Program Category: HAZARDOUS WASTE PROGRAM

Name: RB TRACTOR WORK  
Address: 3633 HAVEN  
City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0022907  
Prog Element Code: STORES MV FUELS OR WASTE ONLY  
Record Id: PR0025785  
Description: STORES MV FUELS OR WASTE ONLY  
Facility Status: Inactive, non-billable  
Program Category: BUSINESS PLAN PROGRAM

Name: KIM KAN CONST INC  
Address: 3633 HAVEN  
City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0022908  
Prog Element Code: GENERATES and RECYCLES WASTE OIL/SOLVENT  
Record Id: PR0025786  
Description: GENERATES & RECYCLES WASTE OIL/SOLVENT  
Facility Status: Inactive, non-billable  
Program Category: HAZARDOUS WASTE PROGRAM

Name: KIM KAN CONST INC  
Address: 3633 HAVEN  
City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0022908  
Prog Element Code: STORES MV FUELS OR WASTE ONLY  
Record Id: PR0025787  
Description: STORES MV FUELS OR WASTE ONLY  
Facility Status: Inactive, non-billable  
Program Category: BUSINESS PLAN PROGRAM

CERS:

Name: HAVEN AVENUE INDUSTRIAL CONDOMINIUMS  
Address: 3633 HAVEN  
City,State,Zip: MENLO PARK, CA 94025  
Site ID: 233545  
CERS ID: SL0608127363  
CERS Description: Cleanup Program Site

Affiliation:

Affiliation Type Desc: Regional Board Caseworker  
Entity Name: UUU - SAN FRANCISCO BAY RWQCB (REGION 2)  
Entity Title: Not reported



Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**RB TRACTOR WORK (Continued)**

**S106874797**

Affiliation Address: 1515 CLAY ST SUITE 1400  
 Affiliation City: OAKLAND  
 Affiliation State: CA  
 Affiliation Country: Not reported  
 Affiliation Zip: Not reported  
 Affiliation Phone: ,

Affiliation Type Desc: Regional Board Caseworker  
 Entity Name: Regional Water Board - SAN FRANCISCO BAY RWQCB (REGION 2)  
 Entity Title: Not reported  
 Affiliation Address: 1515 CLAY ST SUITE 1400  
 Affiliation City: OAKLAND  
 Affiliation State: CA  
 Affiliation Country: Not reported  
 Affiliation Zip: Not reported  
 Affiliation Phone: ,

**E58**  
**NNE**  
 < 1/8  
 0.078 mi.  
 413 ft.

**3723 HAVEN AVENUE DEVELOPMENT**  
**3723 HAVEN AVENUE**  
**MENLO PARK, CA 94025**

**CA CPS-SLIC** **S123523212**  
**CA CERS** **N/A**

**Site 4 of 6 in cluster E**

**Relative:**  
**Lower**  
**Actual:**  
**8 ft.**

**CPS-SLIC:**  
 Name: 3723 HAVEN AVENUE DEVELOPMENT  
 Address: 3723 HAVEN AVENUE  
 City,State,Zip: MENLO PARK, CA 94025  
 Region: STATE  
**Facility Status: Open - Assessment & Interim Remedial Action**  
 Status Date: 05/30/2020  
 Global Id: T10000012491  
 Lead Agency: SAN FRANCISCO BAY RWQCB (REGION 2)  
 Lead Agency Case Number: Not reported  
 Latitude: 37.4868520041758  
 Longitude: -122.181490964279  
 Case Type: Cleanup Program Site  
 Case Worker: NF  
 Local Agency: Not reported  
 RB Case Number: 41S0211  
 File Location: All Files are on GeoTracker or in the Local Agency Database  
 Potential Media Affected: Other Groundwater (uses other than drinking water), Soil Vapor  
 Potential Contaminants of Concern: Dichloroethene (DCE), Trichloroethylene (TCE), Vinyl chloride, Benzene  
 Site History: Former Siltec Site was closed in 2014 using Low Threat Closure Assessment Tool for Chlorinated Solvent Sites. Site remediation completed in 1999 with TCE source contaminated soil removal. Residual shallow groundwater contamination (isolated pocket of TCE at concentrations exceeding ESLs) remained in 2004. 2019 groundwater monitoring data showed increased TCE concentrations (nearly two orders of magnitude from 2004 levels in MW-8, indicating that the groundwater TCE plume is not stable. Contamination appears to be migrating from unmitigated source to the south - 3715 Haven Ave). Elevated concentrations of TCE and vinyl chloride were detected in 2019 soil vapor samples in the vicinity of the well with high TCE concentrations. Case being reopened to assess the extent of the mobilized groundwater TCE plume; and evaluate additional remedial actions necessary to degrade COCs for future site redevelopment.

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**3723 HAVEN AVENUE DEVELOPMENT (Continued)**

**S123523212**

Click here to access the California GeoTracker records for this facility:

**CERS:**

Name: 3723 HAVEN AVENUE DEVELOPMENT  
 Address: 3723 HAVEN AVENUE  
 City,State,Zip: MENLO PARK, CA 94025  
 Site ID: 446895  
 CERS ID: T10000012491  
 CERS Description: Cleanup Program Site

**Affiliation:**

Affiliation Type Desc: Regional Board Caseworker  
 Entity Name: NICOLE FRY - SAN FRANCISCO BAY RWQCB (REGION 2)  
 Entity Title: Not reported  
 Affiliation Address: 1515 Clay St.  
 Affiliation City: OAKLAND  
 Affiliation State: CA  
 Affiliation Country: Not reported  
 Affiliation Zip: Not reported  
 Affiliation Phone: 5106225047,

**E59**  
**NNE**  
 < 1/8  
 0.078 mi.  
 413 ft.

**SUMCO PHOENIX CORPORATION**  
**3723 HAVEN AVENUE**  
**MENLO PARK, CA 94025**  
**Site 5 of 6 in cluster E**

**RCRA NonGen / NLR 1026482912**  
**CAC003088972**

**Relative:**  
**Lower**  
**Actual:**  
 8 ft.

**RCRA Listings:**  
 Date Form Received by Agency: 20201019  
 Handler Name: SUMCO PHOENIX CORPORATION  
 Handler Address: 3723 HAVEN AVENUE  
 Handler City,State,Zip: MENLO PARK, CA 94025  
 EPA ID: CAC003088972  
 Contact Name: JEFF HOMER  
 Contact Address: SUMCO PHOENIX CORPORATION  
 Contact City,State,Zip: PHOENIX, AZ 95050  
 Contact Telephone: 480-473-6000  
 Contact Fax: Not reported  
 Contact Email: JEFF.HOMER@SUMCOUSA.COM  
 Contact Title: Not reported  
 EPA Region: 09  
 Land Type: Not reported  
 Federal Waste Generator Description: Not a generator, verified  
 Non-Notifier: Not reported  
 Biennial Report Cycle: Not reported  
 Accessibility: Not reported  
 Active Site Indicator: Not reported  
 State District Owner: Not reported  
 State District: Not reported  
 Mailing Address: SUMCO PHOENIX  
 Mailing City,State,Zip: PHOENIX, AZ 95050  
 Owner Name: JEFF HOMER  
 Owner Type: Other  
 Operator Name: JEFF HOMER  
 Operator Type: Other  
 Short-Term Generator Activity: No

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**SUMCO PHOENIX CORPORATION (Continued)**

**1026482912**

Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20201026
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SUMCO PHOENIX CORPORATION (Continued)**

**1026482912**

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	JEFF HOMER
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	SUMCO PHOENIX
Owner/Operator City,State,Zip:	PHOENIX, AZ 95050
Owner/Operator Telephone:	480-473-6000
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	JEFF HOMER
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	SUMCO PHOENIX CORPORATION
Owner/Operator City,State,Zip:	PHOENIX, AZ 95050
Owner/Operator Telephone:	480-473-6000
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	20201019
Handler Name:	SUMCO PHOENIX CORPORATION
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:

NAICS Code:	334413
NAICS Description:	SEMICONDUCTOR AND RELATED DEVICE MANUFACTURING

Facility Has Received Notices of Violations:

Violations:	No Violations Found
-------------	---------------------

Evaluation Action Summary:

Evaluations:	No Evaluations Found
--------------	----------------------

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

EDR ID Number  
 EPA ID Number

**E60**  
**NE**  
 < 1/8  
 0.091 mi.  
 483 ft.  
 Relative:  
 Lower  
 Actual:  
 8 ft.

**CARL OLSON AND SONS**  
**3750 HAVEN AVE**  
**MENLO PARK, CA 94025**  
 Site 6 of 6 in cluster E

**RCRA-SQG** 1000274714  
**CA LUST** CAD982330359  
**CA HIST UST**  
**FINDS**  
**ECHO**  
**CA San Mateo Co. BI**  
**CA Cortese**  
**CA HIST CORTESE**  
**CA CERS**

RCRA Listings:

Date Form Received by Agency:	19871221
Handler Name:	CARL OLSON AND SONS
Handler Address:	3750 HAVEN AVE
Handler City,State,Zip:	MENLO PARK, CA 94025
EPA ID:	CAD982330359
Contact Name:	ENVIRONMENTAL MANAGER
Contact Address:	3750 HAVEN AVE
Contact City,State,Zip:	MENLO PARK, CA 94025
Contact Telephone:	402-435-3581
Contact Fax:	Not reported
Contact Email:	Not reported
Contact Title:	Not reported
EPA Region:	09
Land Type:	Other
Federal Waste Generator Description:	Small Quantity Generator
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	CA
State District:	2
Mailing Address:	PO BOX 82249
Mailing City,State,Zip:	LINCOLN, NE 68501
Owner Name:	BOHANNON INVESTMENTS
Owner Type:	Private
Operator Name:	NOT REQUIRED
Operator Type:	Private
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**CARL OLSON AND SONS (Continued)**

**1000274714**

Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20020627
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name: NOT REQUIRED	
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	NOT REQUIRED
Owner/Operator City,State,Zip:	NOT REQUIRED, ME 99999
Owner/Operator Telephone:	415-555-1212
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name: BOHANNON INVESTMENTS	
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	NOT REQUIRED
Owner/Operator City,State,Zip:	NOT REQUIRED, ME 99999
Owner/Operator Telephone:	415-555-1212

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CARL OLSON AND SONS (Continued)**

**1000274714**

Owner/Operator Telephone Ext: Not reported  
Owner/Operator Fax: Not reported  
Owner/Operator Email: Not reported

Historic Generators:

Receive Date: 19871221  
Handler Name: CARL OLSON AND SONS  
Federal Waste Generator Description: Small Quantity Generator  
State District Owner: CA  
Large Quantity Handler of Universal Waste: No  
Recognized Trader Importer: No  
Recognized Trader Exporter: No  
Spent Lead Acid Battery Importer: No  
Spent Lead Acid Battery Exporter: No  
Current Record: Yes  
Non Storage Recycler Activity: Not reported  
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:

NAICS Codes: No NAICS Codes Found

Facility Has Received Notices of Violations:

Violations: No Violations Found

Evaluation Action Summary:

Evaluations: No Evaluations Found

**SAN MATEO CO. LUST:**

Name: CARL OLSON & SONS/ZACCOR  
Address: 3750 HAVEN AVE  
City,State,Zip: MENLO PARK, CA  
Region: SAN MATEO  
Facility ID: 440017  
Facility Status: 9- Case Closed  
Global ID: T0608100104  
APN Number: 055231050  
Case Type: MENLO PARK, CA  
EDR Link ID: MENLO PARK, CA

**LUST:**

Name: CARL OLSON & SONS/ZACCOR  
Address: 3750 HAVEN  
City,State,Zip: MENLO PARK, CA 94025  
Lead Agency: SAN MATEO COUNTY LOP  
Case Type: LUST Cleanup Site  
Geo Track: [http://geotracker.waterboards.ca.gov/profile\\_report.asp?global\\_id=T0608100104](http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0608100104)  
Global Id: T0608100104  
Latitude: 37.4853193909326  
Longitude: -122.181031018385  
Status: Completed - Case Closed  
Status Date: 08/10/1995  
Case Worker: Not reported  
RB Case Number: 41-0110

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CARL OLSON AND SONS (Continued)**

**1000274714**

Local Agency: Not reported  
File Location: Local Agency  
Local Case Number: 440017  
Potential Media Affect: Other Groundwater (uses other than drinking water)  
Potential Contaminants of Concern: Gasoline  
Site History: Not reported

LUST:

Global Id: T0608100104  
Contact Type: Regional Board Caseworker  
Contact Name: Regional Water Board  
Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)  
Address: 1515 CLAY ST SUITE 1400  
City: OAKLAND  
Email: Not reported  
Phone Number: Not reported

LUST:

Global Id: T0608100104  
Action Type: Other  
Date: 07/29/1987  
Action: Leak Reported

Global Id: T0608100104  
Action Type: Other  
Date: 07/29/1987  
Action: Leak Discovery

Global Id: T0608100104  
Action Type: ENFORCEMENT  
Date: 11/19/1990  
Action: Notice of Responsibility - #1

Global Id: T0608100104  
Action Type: ENFORCEMENT  
Date: 06/10/1995  
Action: Closure/No Further Action Letter - #19950610

LUST:

Global Id: T0608100104  
Status: Open - Case Begin Date  
Status Date: 07/29/1987

Global Id: T0608100104  
Status: Completed - Case Closed  
Status Date: 08/10/1995

LUST REG 2:

Region: 2  
Facility Id: Not reported  
Facility Status: Case Closed  
Case Number: 440017  
How Discovered: OM  
Leak Cause: Unknown  
Leak Source: Unknown



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CARL OLSON AND SONS (Continued)**

**1000274714**

Date Leak Confirmed: Not reported  
Oversight Program: LUST  
Prelim. Site Assessment Wokplan Submitted: Not reported  
Preliminary Site Assessment Began: Not reported  
Pollution Characterization Began: Not reported  
Pollution Remediation Plan Submitted: Not reported  
Date Remediation Action Underway: Not reported  
Date Post Remedial Action Monitoring Began: Not reported

**HIST UST:**

Name: CARL W. OLSON & SONS CO.  
Address: 3750 HAVEN AVE  
City,State,Zip: MENLO PARK, CA 94025  
File Number: Not reported  
URL: Not reported  
Region: STATE  
Facility ID: 00000001726  
Facility Type: Other  
Other Type: Not reported  
Contact Name: Not reported  
Telephone: 0000000000  
Owner Name: CARL W. OLSON & SONS CO.  
Owner Address: 3750 HAVEN AVE  
Owner City,St,Zip: MENLO PARK, CA 94025  
Total Tanks: 0002

Tank Num: 001  
Container Num: 2  
Year Installed: Not reported  
Tank Capacity: 00005000  
Tank Used for: Not reported  
Type of Fuel: Not reported  
Container Construction Thickness: Not reported  
Leak Detection: None

Tank Num: 002  
Container Num: 1  
Year Installed: Not reported  
Tank Capacity: 00006000  
Tank Used for: PRODUCT  
Type of Fuel: UNLEADED  
Container Construction Thickness: Not reported  
Leak Detection: Stock Inventor

**FINDS:**

Registry ID: 110002795431

[Click Here for FRS Facility Detail Report:](#)

**Environmental Interest/Information System:**

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.  
STATE MASTER

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CARL OLSON AND SONS (Continued)**

**1000274714**

Registry ID: 110055826771

Click Here for FRS Facility Detail Report:

Environmental Interest/Information System:

US National Pollutant Discharge Elimination System (NPDES) module of the Compliance Information System (ICIS) tracks surface water permits issued under the Clean Water Act. Under NPDES, all facilities that discharge pollutants from any point source into waters of the United States are required to obtain a permit. The permit will likely contain limits on what can be discharged, impose monitoring and reporting requirements, and include other provisions to ensure that the discharge does not adversely affect water quality.  
STATE MASTER

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid: 1000274714  
Registry ID: 110002795431  
DFR URL: <http://echo.epa.gov/detailed-facility-report?fid=110002795431>  
Name: CARL OLSON AND SONS  
Address: 3750 HAVEN AVE  
City,State,Zip: MENLO PARK, CA 94025

Envid: 1000274714  
Registry ID: 110055826771  
DFR URL: <http://echo.epa.gov/detailed-facility-report?fid=110055826771>  
Name: FEDEX EXPRESS CORP PAOA  
Address: 3750 HAVEN AVE  
City,State,Zip: MENLO PARK, CA 94025

San Mateo Co. BI:

Name: FEDERAL EXPRESS-PAOA  
Address: 3750 HAVEN  
City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0024201  
Prog Element Code: GENERATES and RECYCLES WASTE OIL/SOLVENT  
Record Id: PR0028679  
Description: GENERATES & RECYCLES WASTE OIL/SOLVENT  
Facility Status: Active, billable  
Program Category: HAZARDOUS WASTE PROGRAM

Name: FEDERAL EXPRESS-PAOA  
Address: 3750 HAVEN  
City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0024201  
Prog Element Code: STORES MV FUELS OR WASTE ONLY  
Record Id: PR0028680  
Description: STORES MV FUELS OR WASTE ONLY  
Facility Status: Active, billable  
Program Category: BUSINESS PLAN PROGRAM

Name: FEDERAL EXPRESS-PAOA  
Address: 3750 HAVEN

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CARL OLSON AND SONS (Continued)**

1000274714

City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0024201  
Prog Element Code: 3091  
Record Id: PR0040634  
Description: STORMWATER ANNUAL INSPECTION FEE  
Facility Status: Inactive, non-billable  
Program Category: STORMWATER

**CORTESE:**

Name: CARL OLSON & SONS/ZACCOR  
Address: 3750 HAVEN  
City,State,Zip: MENLO PARK, CA 94025  
Region: CORTESE  
Envirostor Id: Not reported  
Global ID: T0608100104  
Site/Facility Type: LUST CLEANUP SITE  
Cleanup Status: COMPLETED - CASE CLOSED  
Status Date: Not reported  
Site Code: Not reported  
Latitude: Not reported  
Longitude: Not reported  
Owner: Not reported  
Enf Type: Not reported  
Swat R: Not reported  
Flag: active  
Order No: Not reported  
Waste Discharge System No: Not reported  
Effective Date: Not reported  
Region 2: Not reported  
WID Id: Not reported  
Solid Waste Id No: Not reported  
Waste Management Uit Name: Not reported  
File Name: Active Open

**HIST CORTESE:**

edr\_fname: CARL OLSON & SONS ZACCOR  
edr\_fadd1: 3750 HAVEN  
City,State,Zip: MENLO PARK, CA  
Region: CORTESE  
Facility County Code: 41  
Reg By: LTNKA  
Reg Id: 41-0110

**CERS:**

Name: CARL OLSON & SONS/ZACCOR  
Address: 3750 HAVEN  
City,State,Zip: MENLO PARK, CA 94025  
Site ID: 227441  
CERS ID: T0608100104  
CERS Description: Leaking Underground Storage Tank Cleanup Site

**Affiliation:**

Affiliation Type Desc: Regional Board Caseworker  
Entity Name: Regional Water Board - SAN FRANCISCO BAY RWQCB (REGION 2)  
Entity Title: Not reported

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**CARL OLSON AND SONS (Continued)**

**1000274714**

Affiliation Address: 1515 CLAY ST SUITE 1400  
 Affiliation City: OAKLAND  
 Affiliation State: CA  
 Affiliation Country: Not reported  
 Affiliation Zip: Not reported  
 Affiliation Phone: ,

Affiliation Type Desc: Regional Board Caseworker  
 Entity Name: UUU - SAN FRANCISCO BAY RWQCB (REGION 2)  
 Entity Title: Not reported  
 Affiliation Address: 1515 CLAY ST SUITE 1400  
 Affiliation City: OAKLAND  
 Affiliation State: CA  
 Affiliation Country: Not reported  
 Affiliation Zip: Not reported  
 Affiliation Phone: ,

**D61  
 NNW  
 < 1/8  
 0.095 mi.  
 503 ft.**

**DESIGNCO  
 37.48715/-122.18303  
 MENLO PARK, CA  
 Site 2 of 2 in cluster D**

**PFAS ECHO 1027350977  
 N/A**

**Relative:  
 Higher  
 Actual:  
 10 ft.**

PFAS ECHO:  
 Name: DESIGNCO  
 Address: 37.48715/-122.18303  
 City,State,Zip: MENLO PARK, CA  
 Latitude: 37.48715  
 Longitude: -122.18303  
 Count: -1  
 County: SAN MATEO  
 Status: Active  
 Region: 09  
 Industry: Metal Machinery Mfg  
 ECHO Facility Report: <https://echo.epa.gov/detailed-facility-report?fid=110065364741>  
 Facility Percent Minority: 66.538  
 Facility Derived Tribes: Not reported  
 Facility Population: 4598.47  
 EJSCREEN Flag US: N  
 EJSCREEN Report: [https://ejscreen.epa.gov/mapper/mobile/EJSCREEN\\_mobile.aspx?geometry=%7B%22x%22:-122.18303,%22y%22:37.48715,%22spatialReference%22:%7B%22wkid%22:4326%7D%7D&unit=9035&areatype=&areaid=&basemap=streets&distance=1](https://ejscreen.epa.gov/mapper/mobile/EJSCREEN_mobile.aspx?geometry=%7B%22x%22:-122.18303,%22y%22:37.48715,%22spatialReference%22:%7B%22wkid%22:4326%7D%7D&unit=9035&areatype=&areaid=&basemap=streets&distance=1)

EPA Programs: RCRA  
 Federal Facility: No  
 Federal Agency: Not reported  
 Facility FIPS Code: 06081  
 Facility Indian Country Flag: N  
 Facility Collection Method: ADDRESS MATCHING-HOUSE NUMBER  
 Facility Derived HUC: 18050004  
 Facility Derived WBD: 180500040902  
 Facility Derived CD113: 14  
 Facility Derived CB2010: 060816117004019  
 Facility Major Flag: Not reported  
 Facility Active Flag: Y  
 Facility Inspection Count: 0  
 Facility Date Last Inspection: Not reported  
 Facility Days Last Inspection: Not reported

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**DESIGNCO (Continued)**

**1027350977**

Facility Informal Count:	0
Facility Date Last Informal Action:	Not reported
Facility Formal Action Count:	0
Facility Date Last Formal Action:	Not reported
Facility Total Penalties:	0
Facility Penalty Count:	Not reported
Facility Date Last Penalty:	Not reported
Facility Last Penalty AMT:	Not reported
Facility QTRS With NC:	0
Facility Programs With SNC:	0
Facility Compliance Status:	No Violation Identified
Facility SNC Flag:	N
AIR Flag:	N
NPDES Flag:	N
SDWIS Flag:	N
RCRA Flag:	Y
TRI Flag:	N
GHG Flag:	N
AIR IDS:	Not reported
CAA Permit Types:	Not reported
CAA NAICS:	Not reported
CAA SICS:	Not reported
NPDES IDS:	Not reported
CWA Permit Types:	Not reported
CWA NAICS:	Not reported
CWA SICS:	Not reported
RCRA IDS:	CAL000249462
RCRA Permit Types:	Other
RCRA NAICS:	332999
SDWA IDS:	Not reported
SDWA System Types:	Not reported
SDWA Compliance Status:	Not reported
SDWA SNC Flag:	N
TRI IDS:	Not reported
TRI Releases Transfers:	Not reported
TRI On Site Releases:	Not reported
TRI Off Site Transfers:	Not reported
TRI Reporter:	Not reported
Facility IMP Water Flag:	Not reported

**F62**  
**NE**  
 < 1/8  
 0.102 mi.  
 537 ft.

**CARL W OLSON AND SONS CO**  
**3750 HAVEN AVE**  
**MENLO PARK, CA 94025**  
 Site 1 of 4 in cluster F

**CA HIST UST** S113092279  
**CA HAZNET** N/A  
**CA NPDES**  
**CA CIWQS**  
**CA CERS**  
**CA HWTS**

**Relative:**  
**Lower**  
**Actual:**  
 7 ft.

HIST UST:  
 Name: CARL W OLSON AND SONS CO  
 Address: 3750 HAVEN AVE  
 City,State,Zip: MENLO PARK, CA 94025  
 File Number: 0002BC87  
 URL: <http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002BC87.pdf>  
 Region: Not reported  
 Facility ID: Not reported  
 Facility Type: Not reported  
 Other Type: Not reported  
 Contact Name: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CARL W OLSON AND SONS CO (Continued)**

**S113092279**

Telephone: Not reported  
Owner Name: Not reported  
Owner Address: Not reported  
Owner City,St,Zip: Not reported  
Total Tanks: Not reported  
  
Tank Num: Not reported  
Container Num: Not reported  
Year Installed: Not reported  
Tank Capacity: Not reported  
Tank Used for: Not reported  
Type of Fuel: Not reported  
Container Construction Thickness: Not reported  
Leak Detection: Not reported

[Click here for Geo Tracker PDF:](#)

**HAZNET:**

Name: FEDERAL EXPRESS CORPORATION  
Address: 3750 HAVEN AVE  
Address 2: Not reported  
City,State,Zip: MENLO PARK, CA 940250000  
Contact: LARRY WINGO  
Telephone: 8176064516  
Mailing Name: Not reported  
Mailing Address: 3620 HACKS CROSS RD BLDG B 3RD FL  
  
Year: 2021  
Gepaid: CAL000175218  
TSD EPA ID: UTD981552177  
CA Waste Code: 141 - Off-specification, aged or surplus inorganics  
Disposal Method: H040 - Incineration--Thermal Destruction Other Than Use As A Fuel  
Tons: 0.05  
  
Year: 2021  
Gepaid: CAL000175218  
TSD EPA ID: NED981723513  
CA Waste Code: 331 - Off-specification, aged or surplus organics  
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)  
Tons: 0.125  
  
Year: 2021  
Gepaid: CAL000175218  
TSD EPA ID: UTD991301748  
CA Waste Code: 352 - Other organic solids  
Disposal Method: H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill( To Include On-Site Treatment And/Or Stabilization)  
Tons: 0.175  
  
Year: 2021  
Gepaid: CAL000175218  
TSD EPA ID: ORQ000025197  
CA Waste Code: 223 - Unspecified oil-containing waste  
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)  
Tons: 0.075

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CARL W OLSON AND SONS CO (Continued)**

**S113092279**

Year:	2020
Gepaid:	CAL000175218
TSD EPA ID:	NED981723513
CA Waste Code:	331 - Off-specification, aged or surplus organics
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.14
Year:	2020
Gepaid:	CAL000175218
TSD EPA ID:	ORQ000025197
CA Waste Code:	223 - Unspecified oil-containing waste
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.05
Year:	2020
Gepaid:	CAL000175218
TSD EPA ID:	UTD991301748
CA Waste Code:	352 - Other organic solids
Disposal Method:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill( To Include On-Site Treatment And/Or Stabilization)
Tons:	0.25
Year:	2019
Gepaid:	CAL000175218
TSD EPA ID:	NED981723513
CA Waste Code:	331 - Off-specification, aged or surplus organics
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.09000
Year:	2019
Gepaid:	CAL000175218
TSD EPA ID:	UTD991301748
CA Waste Code:	352 - Other organic solids
Disposal Method:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill( To Include On-Site Treatment And/Or Stabilization)
Tons:	0.12000
Year:	2018
Gepaid:	CAL000175218
TSD EPA ID:	CAD059494310
CA Waste Code:	352 - Other organic solids
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.15250

[Click this hyperlink](#) while viewing on your computer to access 73 additional CA HAZNET: record(s) in the EDR Site Report.

Detail Two:

Year:	2020
EM Manifest ID:	9fd707ba-470b-4943-ade1-95bc661fb472
Shipment Date:	7/22/2020
Receipt Date:	7/31/2020

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CARL W OLSON AND SONS CO (Continued)**

**S113092279**

Manifest Number: 007416871SKS  
Generator EPA ID: CAL000175218  
Name: FEDEX EXPRESS #943-PAOA  
Address: 3750 HAVEN AVE  
Address 2: Not reported  
City: MENLO PARK  
Zip: 94025  
Telephone: 800-483-3718  
Contact: Lyle Oswald  
Contact Telephone: 650-463-4444  
Transporter 1 EPA ID: TXR000081205  
Transporter 1 Emergency Number: Not reported  
Transporter 2 EPA ID: MAD039322250  
Transporter 2 Emergency Number: Not reported  
TSDF EPA ID: NED981723513  
TSDF Name: Clean Harbors Environmental Services, Inc.  
TSDF Address 1: 2247 South Highway 71  
TSDF Address 2: Not reported  
TSDF City: Kimball  
TSDF Zip: 69145  
TSDF Telephone: 800-483-3718

State:

Year: 2020  
EM Manifest ID: 9fd707ba-470b-4943-ade1-95bc661fb472  
Generator EPA ID: CAL000175218  
Shipment Date: 2020-07-22  
Manifest Number: 007416871SKS  
Line Number: 1  
Method Code: H141  
Quantity Tons: 0.04000  
Quantity Waste: 80.000000  
Quantity Unit: P  
Number of Containers: 1  
Type of Container: Metal drums, barrels, kegs  
Quantity Type: Pounds  
State Code: 331

Year: 2020  
EM Manifest ID: b5181d44-4dbd-48ab-9630-f2910b996c48  
Shipment Date: 7/22/2020  
Receipt Date: 7/30/2020  
Manifest Number: 007416873SKS  
Generator EPA ID: CAL000175218  
Name: FEDEX EXPRESS #943-PAOA  
Address: 3750 HAVEN AVE  
Address 2: Not reported  
City: MENLO PARK  
Zip: 94025  
Telephone: 800-483-3718  
Contact: Lyle Oswald  
Contact Telephone: 650-463-4444  
Transporter 1 EPA ID: TXR000081205  
Transporter 1 Emergency Number: Not reported  
Transporter 2 EPA ID: MAD039322250  
Transporter 2 Emergency Number: Not reported  
TSDF EPA ID: UTD991301748



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CARL W OLSON AND SONS CO (Continued)**

**S113092279**

TSDF Name: Clean Harbors Grassy Mountain LLC  
TSDF Address 1: 3 Miles East 7 Miles North of Knolls  
TSDF Address 2: Exit 41 off I-80  
TSDF City: Grantsville  
TSDF Zip: 84029  
TSDF Telephone: 800-483-3718

State:  
Year: 2020  
EM Manifest ID: b5181d44-4dbd-48ab-9630-f2910b996c48  
Generator EPA ID: CAL000175218  
Shipment Date: 2020-07-22  
Manifest Number: 007416873SKS  
Line Number: 1  
Method Code: H132  
Quantity Tons: 0.05000  
Quantity Waste: 100.000000  
Quantity Unit: P  
Number of Containers: 1  
Type of Container: Metal drums, barrels, kegs  
Quantity Type: Pounds  
State Code: 352

Year: 2020  
EM Manifest ID: ad11b9fb-42df-4f70-a38d-4be331ae99dc  
Shipment Date: 5/7/2020  
Receipt Date: 5/18/2020  
Manifest Number: 007413959SKS  
Generator EPA ID: CAL000175218  
Name: FEDEX EXPRESS #943-PAOA  
Address: 3750 HAVEN AVE  
Address 2: Not reported  
City: MENLO PARK  
Zip: 94025  
Telephone: 800-483-3718  
Contact: Lyle Oswald  
Contact Telephone: 650-463-4444  
Transporter 1 EPA ID: TXR000081205  
Transporter 1 Emergency Number: Not reported  
Transporter 2 EPA ID: MAD039322250  
Transporter 2 Emergency Number: Not reported  
TSDF EPA ID: NED981723513  
TSDF Name: Clean Harbors Environmental Services, Inc.  
TSDF Address 1: 2247 South Highway 71  
TSDF Address 2: Not reported  
TSDF City: Kimball  
TSDF Zip: 69145  
TSDF Telephone: 800-483-3718

State:  
Year: 2020  
EM Manifest ID: ad11b9fb-42df-4f70-a38d-4be331ae99dc  
Generator EPA ID: CAL000175218  
Shipment Date: 2020-05-07  
Manifest Number: 007413959SKS  
Line Number: 1  
Method Code: H141

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CARL W OLSON AND SONS CO (Continued)**

**S113092279**

Quantity Tons: 0.02500  
Quantity Waste: 50.000000  
Quantity Unit: P  
Number of Containers: 1  
Type of Container: Metal drums, barrels, kegs  
Quantity Type: Pounds  
State Code: 331

Year: 2020  
EM Manifest ID: a7640964-dea6-4e8a-807e-6da72090b2b3  
Shipment Date: 5/7/2020  
Receipt Date: 5/19/2020  
Manifest Number: 007413960SKS  
Generator EPA ID: CAL000175218  
Name: FEDEX EXPRESS #943-PAOA  
Address: 3750 HAVEN AVE  
Address 2: Not reported  
City: MENLO PARK  
Zip: 94025  
Telephone: 800-483-3718  
Contact: Lyle Oswald  
Contact Telephone: 650-463-4444  
Transporter 1 EPA ID: TXR000081205  
Transporter 1 Emergency Number: Not reported  
Transporter 2 EPA ID: MAD039322250  
Transporter 2 Emergency Number: Not reported  
TSDf EPA ID: UTD991301748  
TSDf Name: Clean Harbors Grassy Mountain LLC  
TSDf Address 1: 3 Miles East 7 Miles North of Knolls  
TSDf Address 2: Exit 41 off I-80  
TSDf City: Grantsville  
TSDf Zip: 84029  
TSDf Telephone: 800-483-3718

State:

Year: 2020  
EM Manifest ID: a7640964-dea6-4e8a-807e-6da72090b2b3  
Generator EPA ID: CAL000175218  
Shipment Date: 2020-05-07  
Manifest Number: 007413960SKS  
Line Number: 1  
Method Code: H132  
Quantity Tons: 0.02500  
Quantity Waste: 50.000000  
Quantity Unit: P  
Number of Containers: 1  
Type of Container: Metal drums, barrels, kegs  
Quantity Type: Pounds  
State Code: 352

Year: 2020  
EM Manifest ID: d28cc946-1db8-4750-8adc-00c19a335489  
Shipment Date: 10/12/2020  
Receipt Date: 11/30/2020  
Manifest Number: 007763934SKS  
Generator EPA ID: CAL000175218

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CARL W OLSON AND SONS CO (Continued)**

**S113092279**

Name: FEDEX EXPRESS #943-PAOA  
Address: 3750 HAVEN AVE  
Address 2: Not reported  
City: MENLO PARK  
Zip: 94025  
Telephone: 800-483-3718  
Contact: Sean Kobori  
Contact Telephone: 650-656-7282  
Transporter 1 EPA ID: TXR000081205  
Transporter 1 Emergency Number: Not reported  
Transporter 2 EPA ID: MAD039322250  
Transporter 2 Emergency Number: Not reported  
TSDF EPA ID: UTD991301748  
TSDF Name: Clean Harbors Grassy Mountain LLC  
TSDF Address 1: 3 Miles East 7 Miles North of Knolls  
TSDF Address 2: Exit 41 off I-80  
TSDF City: Grantsville  
TSDF Zip: 84029  
TSDF Telephone: 800-483-3718

State:

Year: 2020  
EM Manifest ID: d28cc946-1db8-4750-8adc-00c19a335489  
Generator EPA ID: CAL000175218  
Shipment Date: 2020-10-12  
Manifest Number: 007763934SKS  
Line Number: 1  
Method Code: H132  
Quantity Tons: 0.05000  
Quantity Waste: 100.000000  
Quantity Unit: P  
Number of Containers: 1  
Type of Container: Metal drums, barrels, kegs  
Quantity Type: Pounds  
State Code: 352

Year: 2020  
EM Manifest ID: f2bce831-40f3-4020-b9e8-eb2c828e81fb  
Shipment Date: 10/12/2020  
Receipt Date: 11/30/2020  
Manifest Number: 007763937SKS  
Generator EPA ID: CAL000175218  
Name: FEDEX EXPRESS #943-PAOA  
Address: 3750 HAVEN AVE  
Address 2: Not reported  
City: MENLO PARK  
Zip: 94025  
Telephone: 800-483-3718  
Contact: Sean Kobori  
Contact Telephone: 650-656-7282  
Transporter 1 EPA ID: TXR000081205  
Transporter 1 Emergency Number: Not reported  
Transporter 2 EPA ID: MAD039322250  
Transporter 2 Emergency Number: Not reported  
TSDF EPA ID: NED981723513  
TSDF Name: Clean Harbors Environmental Services, Inc.  
TSDF Address 1: 2247 South Highway 71

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CARL W OLSON AND SONS CO (Continued)**

**S113092279**

TSDF Address 2:	Not reported
TSDF City:	Kimball
TSDF Zip:	69145
TSDF Telephone:	800-483-3718
State:	
Year:	2020
EM Manifest ID:	f2bce831-40f3-4020-b9e8-eb2c828e81fb
Generator EPA ID:	CAL000175218
Shipment Date:	2020-10-12
Manifest Number:	007763937SKS
Line Number:	1
Method Code:	H141
Quantity Tons:	0.02500
Quantity Waste:	50.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	Metal drums, barrels, kegs
Quantity Type:	Pounds
State Code:	331
Year:	2020
EM Manifest ID:	3425618a-459d-417b-8c05-c8d89171ca02
Shipment Date:	10/12/2020
Receipt Date:	11/30/2020
Manifest Number:	007763964SKS
Generator EPA ID:	CAL000175218
Name:	FEDEX EXPRESS #943-PAOA
Address:	3750 HAVEN AVE
Address 2:	Not reported
City:	MENLO PARK
Zip:	94025
Telephone:	800-483-3718
Contact:	Sean Kobori
Contact Telephone:	650-656-7282
Transporter 1 EPA ID:	TXR000081205
Transporter 1 Emergency Number:	Not reported
Transporter 2 EPA ID:	MAD039322250
Transporter 2 Emergency Number:	Not reported
TSDF EPA ID:	UTD991301748
TSDF Name:	Clean Harbors Grassy Mountain LLC
TSDF Address 1:	3 Miles East 7 Miles North of Knolls
TSDF Address 2:	Exit 41 off I-80
TSDF City:	Grantsville
TSDF Zip:	84029
TSDF Telephone:	800-483-3718
State:	
Year:	2020
EM Manifest ID:	3425618a-459d-417b-8c05-c8d89171ca02
Generator EPA ID:	CAL000175218
Shipment Date:	2020-10-12
Manifest Number:	007763964SKS
Line Number:	1
Method Code:	H132
Quantity Tons:	0.07500
Quantity Waste:	150.000000

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CARL W OLSON AND SONS CO (Continued)**

**S113092279**

Quantity Unit: P  
Number of Containers: 1  
Type of Container: Metal drums, barrels, kegs  
Quantity Type: Pounds  
State Code: 352

Year: 2020  
EM Manifest ID: fbca9449-e1c0-4919-bbc2-fcd1d42746eb  
Shipment Date: 10/12/2020  
Receipt Date: 11/10/2020  
Manifest Number: 007759285SKS  
Generator EPA ID: CAL000175218  
Name: FEDEX EXPRESS #943-PAOA  
Address: 3750 HAVEN AVE  
Address 2: Not reported  
City: MENLO PARK  
Zip: 94025  
Telephone: 800-483-3718  
Contact: Sean Kobori  
Contact Telephone: 650-656-7282  
Transporter 1 EPA ID: TXR000081205  
Transporter 1 Emergency Number: Not reported  
Transporter 2 EPA ID: MAD039322250  
Transporter 2 Emergency Number: Not reported  
TSDF EPA ID: ORQ000025197  
TSDF Name: Thermo Fluids, Inc.  
TSDF Address 1: 12533 SE Carpenter Drive  
TSDF Address 2: Not reported  
TSDF City: Clackamas  
TSDF Zip: 97015  
TSDF Telephone: 800-483-3718

State:  
Year: 2020  
EM Manifest ID: fbca9449-e1c0-4919-bbc2-fcd1d42746eb  
Generator EPA ID: CAL000175218  
Shipment Date: 2020-10-12  
Manifest Number: 007759285SKS  
Line Number: 1  
Method Code: H141  
Quantity Tons: 0.05000  
Quantity Waste: 100.000000  
Quantity Unit: P  
Number of Containers: 1  
Type of Container: Metal drums, barrels, kegs  
Quantity Type: Pounds  
State Code: 223

Year: 2020  
EM Manifest ID: ed4239fc-9f4a-4042-aba7-72dd0f327066  
Shipment Date: 1/30/2020  
Receipt Date: 2/21/2020  
Manifest Number: 007417192SKS  
Generator EPA ID: CAL000175218  
Name: FEDEX EXPRESS #943-PAOA  
Address: 3750 HAVEN AVE

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CARL W OLSON AND SONS CO (Continued)**

**S113092279**

Address 2: Not reported  
City: MENLO PARK  
Zip: 94025  
Telephone: 800-483-3718  
Contact: Lyle Oswald  
Contact Telephone: 650-463-4444  
Transporter 1 EPA ID: TXR000081205  
Transporter 1 Emergency Number: Not reported  
Transporter 2 EPA ID: MAD039322250  
Transporter 2 Emergency Number: Not reported  
TSDf EPA ID: UTD991301748  
TSDf Name: Clean Harbors Grassy Mountain LLC  
TSDf Address 1: 3 Miles East 7 Miles North of Knolls  
TSDf Address 2: Exit 41 off I-80  
TSDf City: Grantsville  
TSDf Zip: 84029  
TSDf Telephone: 800-483-3718

State:

Year: 2020  
EM Manifest ID: ed4239fc-9f4a-4042-aba7-72dd0f327066  
Generator EPA ID: CAL000175218  
Shipment Date: 2020-01-30  
Manifest Number: 007417192SKS  
Line Number: 1  
Method Code: H132  
Quantity Tons: 0.05000  
Quantity Waste: 100.000000  
Quantity Unit: P  
Number of Containers: 1  
Type of Container: Metal drums, barrels, kegs  
Quantity Type: Pounds  
State Code: 352

Year: 2020  
EM Manifest ID: 16e3fba6-7973-404a-b567-22722fd3ddb7  
Shipment Date: 1/30/2020  
Receipt Date: 2/21/2020  
Manifest Number: 007417193SKS  
Generator EPA ID: CAL000175218  
Name: FEDEX EXPRESS #943-PAOA  
Address: 3750 HAVEN AVE  
Address 2: Not reported  
City: MENLO PARK  
Zip: 94025  
Telephone: 800-483-3718  
Contact: Lyle Oswald  
Contact Telephone: 650-463-4444  
Transporter 1 EPA ID: TXR000081205  
Transporter 1 Emergency Number: Not reported  
Transporter 2 EPA ID: MAD039322250  
Transporter 2 Emergency Number: Not reported  
TSDf EPA ID: NED981723513  
TSDf Name: Clean Harbors Environmental Services, Inc.  
TSDf Address 1: 2247 South Highway 71  
TSDf Address 2: Not reported  
TSDf City: Kimball

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CARL W OLSON AND SONS CO (Continued)**

**S113092279**

TSDf Zip: 69145  
TSDf Telephone: 800-483-3718  
State:  
Year: 2020  
EM Manifest ID: 16e3fba6-7973-404a-b567-22722fd3ddb7  
Generator EPA ID: CAL000175218  
Shipment Date: 2020-01-30  
Manifest Number: 007417193SKS  
Line Number: 1  
Method Code: H141  
Quantity Tons: 0.05000  
Quantity Waste: 100.000000  
Quantity Unit: P  
Number of Containers: 1  
Type of Container: Metal drums, barrels, kegs  
Quantity Type: Pounds  
State Code: 331

Detail Two:  
Year: 2019  
EM Manifest ID: 632085  
Shipment Date: 8/16/2019  
Receipt Date: 8/31/2019  
Manifest Number: 007165778SKS  
Generator EPA ID: CAL000175218  
Name: FEDEX EXPRESS #943-PAOA  
Address: 3750 HAVEN AVE  
Address 2: Not reported  
City: MENLO PARK  
Zip: 94025  
Telephone: 800-483-3718  
Contact: Lyle Oswald  
Contact Telephone: 650-463-4444  
Transporter 1 EPA ID: TXR000081205  
Transporter 1 Emergency Number: Not reported  
Transporter 2 EPA ID: MAD039322250  
Transporter 2 Emergency Number: Not reported  
TSDf EPA ID: NED981723513  
TSDf Name: Clean Harbors Environmental Services, Inc.  
TSDf Address 1: 2247 South Highway 71  
TSDf Address 2: Not reported  
TSDf City: Kimball  
TSDf Zip: 69145  
TSDf Telephone: 800-483-3718

State:  
Year: 2019  
EM Manifest ID: 632085  
Generator EPA ID: CAL000175218  
Shipment Date: 2019-08-16  
Manifest Number: 007165778SKS  
Line Number: 1  
Method Code: H141  
Quantity Tons: 0.02500  
Quantity Waste: 50.000000  
Quantity Unit: P

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CARL W OLSON AND SONS CO (Continued)**

**S113092279**

Number of Containers: 1  
Type of Container: Metal drums, barrels, kegs  
Quantity Type: Pounds  
State Code: 331

Year: 2019  
EM Manifest ID: 602783  
Shipment Date: 8/16/2019  
Receipt Date: 9/3/2019  
Manifest Number: 007165777SKS  
Generator EPA ID: CAL000175218  
Name: FEDEX EXPRESS #943-PAOA  
Address: 3750 HAVEN AVE  
Address 2: Not reported  
City: MENLO PARK  
Zip: 94025  
Telephone: 800-483-3718  
Contact: Lyle Oswald  
Contact Telephone: 650-463-4444  
Transporter 1 EPA ID: TXR000081205  
Transporter 1 Emergency Number: Not reported  
Transporter 2 EPA ID: MAD039322250  
Transporter 2 Emergency Number: Not reported  
TSDf EPA ID: UTD991301748  
TSDf Name: Clean Harbors Grassy Mountain LLC  
TSDf Address 1: PO Box 22750  
TSDf Address 2: Not reported  
TSDf City: Salt Lake City  
TSDf Zip: 84122  
TSDf Telephone: 800-483-3718

State:

Year: 2019  
EM Manifest ID: 602783  
Generator EPA ID: CAL000175218  
Shipment Date: 2019-08-16  
Manifest Number: 007165777SKS  
Line Number: 1  
Method Code: H132  
Quantity Tons: 0.05000  
Quantity Waste: 100.000000  
Quantity Unit: P  
Number of Containers: 1  
Type of Container: Metal drums, barrels, kegs  
Quantity Type: Pounds  
State Code: 352

Year: 2019  
EM Manifest ID: 1de38297-b666-4df8-aa26-3a914b349d60  
Shipment Date: 5/22/2019  
Receipt Date: 6/19/2019  
Manifest Number: 007005686SKS  
Generator EPA ID: CAL000175218  
Name: FEDEX EXPRESS #943-PAOA  
Address: 3750 HAVEN AVE  
Address 2: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CARL W OLSON AND SONS CO (Continued)**

**S113092279**

City: MENLO PARK  
Zip: 94025  
Telephone: 800-483-3718  
Contact: Lyle Oswald  
Contact Telephone: 650-463-4444  
Transporter 1 EPA ID: TXR000081205  
Transporter 1 Emergency Number: Not reported  
Transporter 2 EPA ID: MAD039322250  
Transporter 2 Emergency Number: Not reported  
TSDf EPA ID: NED981723513  
TSDf Name: Clean Harbors Environmental Services, Inc.  
TSDf Address 1: 2247 South Highway 71  
TSDf Address 2: Not reported  
TSDf City: Kimball  
TSDf Zip: 69145  
TSDf Telephone: 800-483-3718

State:

Year: 2019  
EM Manifest ID: 1de38297-b666-4df8-aa26-3a914b349d60  
Generator EPA ID: CAL000175218  
Shipment Date: 2019-05-22  
Manifest Number: 007005686SKS  
Line Number: 1  
Method Code: H141  
Quantity Tons: 0.02500  
Quantity Waste: 50.000000  
Quantity Unit: P  
Number of Containers: 1  
Type of Container: Metal drums, barrels, kegs  
Quantity Type: Pounds  
State Code: 331

Year: 2019  
EM Manifest ID: 03968ddf-4ea8-466a-a83d-1067e5eecf0c  
Shipment Date: 5/22/2019  
Receipt Date: 6/13/2019  
Manifest Number: 007005687SKS  
Generator EPA ID: CAL000175218  
Name: FEDEX EXPRESS #943-PAOA  
Address: 3750 HAVEN AVE  
Address 2: Not reported  
City: MENLO PARK  
Zip: 94025  
Telephone: 800-483-3718  
Contact: Lyle Oswald  
Contact Telephone: 650-463-4444  
Transporter 1 EPA ID: TXR000081205  
Transporter 1 Emergency Number: Not reported  
Transporter 2 EPA ID: MAD039322250  
Transporter 2 Emergency Number: Not reported  
TSDf EPA ID: UTD991301748  
TSDf Name: Clean Harbors Grassy Mountain LLC  
TSDf Address 1: PO Box 22750  
TSDf Address 2: Not reported  
TSDf City: Salt Lake City  
TSDf Zip: 84122

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CARL W OLSON AND SONS CO (Continued)**

**S113092279**

TSDF Telephone: 800-483-3718

State:

Year: 2019

EM Manifest ID: 03968ddf-4ea8-466a-a83d-1067e5eecf0c

Generator EPA ID: CAL000175218

Shipment Date: 2019-05-22

Manifest Number: 007005687SKS

Line Number: 1

Method Code: H132

Quantity Tons: 0.05000

Quantity Waste: 100.000000

Quantity Unit: P

Number of Containers: 1

Type of Container: Metal drums, barrels, kegs

Quantity Type: Pounds

State Code: 352

Year: 2019

EM Manifest ID: bf3ed584-22ee-4813-8c5c-3db2ffbbf570

Shipment Date: 2/26/2019

Receipt Date: 3/20/2019

Manifest Number: 006980607SKS

Generator EPA ID: CAL000175218

Name: FEDEX EXPRESS #943-PAOA

Address: 3750 HAVEN AVE

Address 2: Not reported

City: MENLO PARK

Zip: 94025

Telephone: 800-483-3718

Contact: Lyle Oswald

Contact Telephone: 650-463-4444

Transporter 1 EPA ID: TXR000081205

Transporter 1 Emergency Number: Not reported

Transporter 2 EPA ID: MAD039322250

Transporter 2 Emergency Number: Not reported

TSDF EPA ID: NED981723513

TSDF Name: Clean Harbors Environmental Services, Inc.

TSDF Address 1: 2247 South Highway 71

TSDF Address 2: Not reported

TSDF City: Kimball

TSDF Zip: 69145

TSDF Telephone: 800-483-3718

State:

Year: 2019

EM Manifest ID: bf3ed584-22ee-4813-8c5c-3db2ffbbf570

Generator EPA ID: CAL000175218

Shipment Date: 2019-02-26

Manifest Number: 006980607SKS

Line Number: 1

Method Code: H141

Quantity Tons: 0.01500

Quantity Waste: 30.000000

Quantity Unit: P

Number of Containers: 1

Type of Container: Metal drums, barrels, kegs

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CARL W OLSON AND SONS CO (Continued)**

**S113092279**

Quantity Type: Pounds  
State Code: 331

Year: 2019  
EM Manifest ID: d9039bfc-40dc-45a3-92d6-b76f4efb0ff6  
Shipment Date: 2/26/2019  
Receipt Date: 3/15/2019  
Manifest Number: 006980606SKS  
Generator EPA ID: CAL000175218  
Name: FEDEX EXPRESS #943-PAOA  
Address: 3750 HAVEN AVE  
Address 2: Not reported  
City: MENLO PARK  
Zip: 94025  
Telephone: 800-483-3718  
Contact: Lyle Oswald  
Contact Telephone: 650-463-4444  
Transporter 1 EPA ID: TXR000081205  
Transporter 1 Emergency Number: Not reported  
Transporter 2 EPA ID: MAD039322250  
Transporter 2 Emergency Number: Not reported  
TSDf EPA ID: UTD991301748  
TSDf Name: Clean Harbors Grassy Mountain LLC  
TSDf Address 1: PO Box 22750  
TSDf Address 2: Not reported  
TSDf City: Salt Lake City  
TSDf Zip: 84122  
TSDf Telephone: 800-483-3718

State:

Year: 2019  
EM Manifest ID: d9039bfc-40dc-45a3-92d6-b76f4efb0ff6  
Generator EPA ID: CAL000175218  
Shipment Date: 2019-02-26  
Manifest Number: 006980606SKS  
Line Number: 1  
Method Code: H132  
Quantity Tons: 0.02000  
Quantity Waste: 40.000000  
Quantity Unit: P  
Number of Containers: 1  
Type of Container: Metal drums, barrels, kegs  
Quantity Type: Pounds  
State Code: 352

Year: 2019  
EM Manifest ID: 240973  
Shipment Date: 12/4/2018  
Receipt Date: 12/20/2018  
Manifest Number: 006927254SKS  
Generator EPA ID: CAL000175218  
Name: FEDEX EXPRESS #943-PAOA  
Address: 3750 HAVEN AVE  
Address 2: Not reported  
City: MENLO PARK  
Zip: 94025

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CARL W OLSON AND SONS CO (Continued)**

**S113092279**

Telephone: 800-483-3718  
Contact: Lyle Oswald  
Contact Telephone: 650-463-4444  
Transporter 1 EPA ID: TXR000081205  
Transporter 1 Emergency Number: Not reported  
Transporter 2 EPA ID: MAD039322250  
Transporter 2 Emergency Number: Not reported  
TSDF EPA ID: NED981723513  
TSDF Name: Clean Harbors Environmental Services, Inc.  
TSDF Address 1: 2247 South Highway 71  
TSDF Address 2: Not reported  
TSDF City: Kimball  
TSDF Zip: 69145  
TSDF Telephone: 800-483-3718

State:

Year: 2019  
EM Manifest ID: 240973  
Generator EPA ID: CAL000175218  
Shipment Date: 2018-12-04  
Manifest Number: 006927254SKS  
Line Number: 1  
Method Code: H141  
Quantity Tons: 0.02000  
Quantity Waste: 40.000000  
Quantity Unit: P  
Number of Containers: 1  
Type of Container: Metal drums, barrels, kegs  
Quantity Type: Pounds  
State Code: 331

Year: 2019  
EM Manifest ID: 217327  
Shipment Date: 12/4/2018  
Receipt Date: 12/12/2018  
Manifest Number: 006927257SKS  
Generator EPA ID: CAL000175218  
Name: FEDEX EXPRESS #943-PAOA  
Address: 3750 HAVEN AVE  
Address 2: Not reported  
City: MENLO PARK  
Zip: 94025  
Telephone: 800-483-3718  
Contact: Lyle Oswald  
Contact Telephone: 650-463-4444  
Transporter 1 EPA ID: TXR000081205  
Transporter 1 Emergency Number: Not reported  
Transporter 2 EPA ID: MAD039322250  
Transporter 2 Emergency Number: Not reported  
TSDF EPA ID: CAD059494310  
TSDF Name: Clean Harbors San Jose LLC  
TSDF Address 1: 1021 Berryessa Road  
TSDF Address 2: Not reported  
TSDF City: San Jose  
TSDF Zip: 95133  
TSDF Telephone: 800-483-3718

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CARL W OLSON AND SONS CO (Continued)**

**S113092279**

State:

Year: 2019  
EM Manifest ID: 217327  
Generator EPA ID: CAL000175218  
Shipment Date: 2018-12-04  
Manifest Number: 006927257SKS  
Line Number: 1  
Method Code: H141  
Quantity Tons: 0.01750  
Quantity Waste: 35.000000  
Quantity Unit: P  
Number of Containers: 1  
Type of Container: Metal drums, barrels, kegs  
Quantity Type: Pounds  
State Code: 352

Year: 2019  
EM Manifest ID: 807418  
Shipment Date: 11/13/2019  
Receipt Date: 11/25/2019  
Manifest Number: 007232362SKS  
Generator EPA ID: CAL000175218  
Name: FEDEX EXPRESS #943-PAOA  
Address: 3750 HAVEN AVE  
Address 2: Not reported  
City: MENLO PARK  
Zip: 94025  
Telephone: 800-483-3718  
Contact: Lyle Oswald  
Contact Telephone: 650-463-4444  
Transporter 1 EPA ID: TXR000081205  
Transporter 1 Emergency Number: Not reported  
Transporter 2 EPA ID: MAD039322250  
Transporter 2 Emergency Number: Not reported  
TSDf EPA ID: NED981723513  
TSDf Name: Clean Harbors Environmental Services, Inc.  
TSDf Address 1: 2247 South Highway 71  
TSDf Address 2: Not reported  
TSDf City: Kimball  
TSDf Zip: 69145  
TSDf Telephone: 800-483-3718

State:

Year: 2019  
EM Manifest ID: 807418  
Generator EPA ID: CAL000175218  
Shipment Date: 2019-11-13  
Manifest Number: 007232362SKS  
Line Number: 1  
Method Code: H141  
Quantity Tons: 0.05000  
Quantity Waste: 100.000000  
Quantity Unit: P  
Number of Containers: 1  
Type of Container: Metal drums, barrels, kegs  
Quantity Type: Pounds

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CARL W OLSON AND SONS CO (Continued)**

**S113092279**

State Code: 331

Year: 2019  
EM Manifest ID: 816243  
Shipment Date: 11/13/2019  
Receipt Date: 11/26/2019  
Manifest Number: 007232361SKS  
Generator EPA ID: CAL000175218  
Name: FEDEX EXPRESS #943-PAOA  
Address: 3750 HAVEN AVE  
Address 2: Not reported  
City: MENLO PARK  
Zip: 94025  
Telephone: 800-483-3718  
Contact: Lyle Oswald  
Contact Telephone: 650-463-4444  
Transporter 1 EPA ID: TXR000081205  
Transporter 1 Emergency Number: Not reported  
Transporter 2 EPA ID: MAD039322250  
Transporter 2 Emergency Number: Not reported  
TSDf EPA ID: UTD991301748  
TSDf Name: Clean Harbors Grassy Mountain LLC  
TSDf Address 1: PO Box 22750  
TSDf Address 2: Not reported  
TSDf City: Salt Lake City  
TSDf Zip: 84122  
TSDf Telephone: 800-483-3718

State:  
Year: 2019  
EM Manifest ID: 816243  
Generator EPA ID: CAL000175218  
Shipment Date: 2019-11-13  
Manifest Number: 007232361SKS  
Line Number: 1  
Method Code: H132  
Quantity Tons: 0.05000  
Quantity Waste: 100.000000  
Quantity Unit: P  
Number of Containers: 1  
Type of Container: Metal drums, barrels, kegs  
Quantity Type: Pounds  
State Code: 352

Detail Two:  
Year: 2018  
EM Manifest ID: 017483593JJK20170913\_D\_1  
Shipment Date: 9/13/2017  
Receipt Date: 10/2/2017  
Manifest Number: 017483593JJK  
Generator EPA ID: CAL000175218  
Name: FEDERAL EXPRESS CORPORATION  
Address: Not reported  
Address 2: Not reported  
City: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CARL W OLSON AND SONS CO (Continued)**

**S113092279**

Zip: Not reported  
Telephone: Not reported  
Contact: Not reported  
Contact Telephone: Not reported  
Transporter 1 EPA ID: CAL000368136  
Transporter 1 Emergency Number: Not reported  
Transporter 2 EPA ID: IND058484114  
Transporter 2 Emergency Number: Not reported  
TSDf EPA ID: AZD081705402  
TSDf Name: HERITAGE ENVIRONMENTAL SVC LLC  
TSDf Address 1: Not reported  
TSDf Address 2: Not reported  
TSDf City: Not reported  
TSDf Zip: Not reported  
TSDf Telephone: Not reported

Federal:  
Year: 2018  
EM Manifest ID: 017483593JJK20170913\_D\_1  
Generator EPA ID: CAL000175218  
Shipment Date: 2017-09-13  
Manifest Number: 017483593JJK  
Line Number: 1  
Method Code: H141  
Quantity Tons: 0.06000  
Quantity Waste: 120.000000  
Quantity Unit: P  
Number of Containers: 1  
Type of Container: NULL  
Quantity Type: NULL  
Federal Code: D001

State:  
Year: 2018  
EM Manifest ID: 017483593JJK20170913\_D\_1  
Generator EPA ID: CAL000175218  
Shipment Date: 2017-09-13  
Manifest Number: 017483593JJK  
Line Number: 1  
Method Code: H141  
Quantity Tons: 0.06000  
Quantity Waste: 120.000000  
Quantity Unit: P  
Number of Containers: 1  
Type of Container: NULL  
Quantity Type: NULL  
State Code: 331

Year: 2018  
EM Manifest ID: 136890  
Shipment Date: 9/12/2018  
Receipt Date: 9/21/2018  
Manifest Number: 006694103SKS  
Generator EPA ID: CAL000175218  
Name: FEDEX EXPRESS #943-PAOA  
Address: 3750 HAVEN AVE

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CARL W OLSON AND SONS CO (Continued)**

**S113092279**

Address 2: Not reported  
City: MENLO PARK  
Zip: 94025  
Telephone: 800-483-3718  
Contact: Lyle Oswald  
Contact Telephone: 650-463-4444  
Transporter 1 EPA ID: TXR000081205  
Transporter 1 Emergency Number: Not reported  
Transporter 2 EPA ID: MAD039322250  
Transporter 2 Emergency Number: Not reported  
TSDf EPA ID: CAD059494310  
TSDf Name: Clean Harbors San Jose LLC  
TSDf Address 1: 1021 Berryessa Road  
TSDf Address 2: Not reported  
TSDf City: San Jose  
TSDf Zip: 95133  
TSDf Telephone: 800-483-3718

State:

Year: 2018  
EM Manifest ID: 136890  
Generator EPA ID: CAL000175218  
Shipment Date: 2018-09-12  
Manifest Number: 006694103SKS  
Line Number: 1  
Method Code: H141  
Quantity Tons: 0.05000  
Quantity Waste: 100.000000  
Quantity Unit: P  
Number of Containers: 1  
Type of Container: Metal drums, barrels, kegs  
Quantity Type: Pounds  
State Code: 352

Year: 2018  
EM Manifest ID: 011903335FLE20180621\_D\_1  
Shipment Date: 6/21/2018  
Receipt Date: 7/12/2018  
Manifest Number: 011903335FLE  
Generator EPA ID: CAL000175218  
Name: FEDEX EXPRESS #943-PADA  
Address: Not reported  
Address 2: Not reported  
City: Not reported  
Zip: Not reported  
Telephone: Not reported  
Contact: Not reported  
Contact Telephone: Not reported  
Transporter 1 EPA ID: TXR000081205  
Transporter 1 Emergency Number: Not reported  
Transporter 2 EPA ID: MAD039322250  
Transporter 2 Emergency Number: Not reported  
TSDf EPA ID: NED981723513  
TSDf Name: CLEAN HARBORS ENVIRONMENTAL SERVICES IN  
TSDf Address 1: Not reported  
TSDf Address 2: Not reported  
TSDf City: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CARL W OLSON AND SONS CO (Continued)**

**S113092279**

TSDf Zip: Not reported  
TSDf Telephone: Not reported

Federal:

Year: 2018  
EM Manifest ID: 011903335FLE20180621\_D\_1  
Generator EPA ID: CAL000175218  
Shipment Date: 2018-06-21  
Manifest Number: 011903335FLE  
Line Number: 1  
Method Code: H141  
Quantity Tons: 0.01250  
Quantity Waste: 25.000000  
Quantity Unit: P  
Number of Containers: 1  
Type of Container: NULL  
Quantity Type: NULL  
Federal Code: D001

Year: 2018  
EM Manifest ID: 011903335FLE20180621\_D\_1  
Generator EPA ID: CAL000175218  
Shipment Date: 2018-06-21  
Manifest Number: 011903335FLE  
Line Number: 1  
Method Code: H141  
Quantity Tons: 0.01250  
Quantity Waste: 25.000000  
Quantity Unit: P  
Number of Containers: 1  
Type of Container: NULL  
Quantity Type: NULL  
Federal Code: D005

Year: 2018  
EM Manifest ID: 011903335FLE20180621\_D\_1  
Generator EPA ID: CAL000175218  
Shipment Date: 2018-06-21  
Manifest Number: 011903335FLE  
Line Number: 1  
Method Code: H141  
Quantity Tons: 0.01250  
Quantity Waste: 25.000000  
Quantity Unit: P  
Number of Containers: 1  
Type of Container: NULL  
Quantity Type: NULL  
Federal Code: D006

Year: 2018  
EM Manifest ID: 011903335FLE20180621\_D\_1  
Generator EPA ID: CAL000175218  
Shipment Date: 2018-06-21  
Manifest Number: 011903335FLE  
Line Number: 1  
Method Code: H141  
Quantity Tons: 0.01250  
Quantity Waste: 25.000000

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CARL W OLSON AND SONS CO (Continued)**

**S113092279**

Quantity Unit: P  
Number of Containers: 1  
Type of Container: NULL  
Quantity Type: NULL  
Federal Code: D007  
  
Year: 2018  
EM Manifest ID: 011903335FLE20180621\_D\_1  
Generator EPA ID: CAL000175218  
Shipment Date: 2018-06-21  
Manifest Number: 011903335FLE  
Line Number: 1  
Method Code: H141  
Quantity Tons: 0.01250  
Quantity Waste: 25.000000  
Quantity Unit: P  
Number of Containers: 1  
Type of Container: NULL  
Quantity Type: NULL  
Federal Code: D008

State:  
Year: 2018  
EM Manifest ID: 011903335FLE20180621\_D\_1  
Generator EPA ID: CAL000175218  
Shipment Date: 2018-06-21  
Manifest Number: 011903335FLE  
Line Number: 1  
Method Code: H141  
Quantity Tons: 0.01250  
Quantity Waste: 25.000000  
Quantity Unit: P  
Number of Containers: 1  
Type of Container: NULL  
Quantity Type: NULL  
State Code: 331

Year: 2018  
EM Manifest ID: 017265909JJK20170502\_D\_1  
Shipment Date: 5/2/2017  
Receipt Date: 5/12/2017  
Manifest Number: 017265909JJK  
Generator EPA ID: CAL000175218  
Name: FEDERAL EXPRESS CORPORATION (CONTRACT#97709)  
Address: Not reported  
Address 2: Not reported  
City: Not reported  
Zip: Not reported  
Telephone: Not reported  
Contact: Not reported  
Contact Telephone: Not reported  
Transporter 1 EPA ID: CAL000368136  
Transporter 1 Emergency Number: Not reported  
Transporter 2 EPA ID: IND058484114  
Transporter 2 Emergency Number: Not reported  
TSDf EPA ID: AZD081705402

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CARL W OLSON AND SONS CO (Continued)**

**S113092279**

TSD Name: HERITAGE ENVIRONMENTAL SERVICES LLC  
TSD Address 1: Not reported  
TSD Address 2: Not reported  
TSD City: Not reported  
TSD Zip: Not reported  
TSD Telephone: Not reported

Federal:

Year: 2018  
EM Manifest ID: 017265909JJK20170502\_D\_1  
Generator EPA ID: CAL000175218  
Shipment Date: 2017-05-02  
Manifest Number: 017265909JJK  
Line Number: 1  
Method Code: H141  
Quantity Tons: 0.02000  
Quantity Waste: 40.000000  
Quantity Unit: P  
Number of Containers: 1  
Type of Container: NULL  
Quantity Type: NULL  
Federal Code: D001

State:

Year: 2018  
EM Manifest ID: 017265909JJK20170502\_D\_1  
Generator EPA ID: CAL000175218  
Shipment Date: 2017-05-02  
Manifest Number: 017265909JJK  
Line Number: 1  
Method Code: H141  
Quantity Tons: 0.02000  
Quantity Waste: 40.000000  
Quantity Unit: P  
Number of Containers: 1  
Type of Container: NULL  
Quantity Type: NULL  
State Code: 331

Year: 2018  
EM Manifest ID: 006490580SKS20180315\_D\_1  
Shipment Date: 3/25/2018  
Receipt Date: 3/28/2018  
Manifest Number: 006490580SKS  
Generator EPA ID: CAL000175218  
Name: FEDEX EXPRESS #943-PAOA  
Address: Not reported  
Address 2: Not reported  
City: Not reported  
Zip: Not reported  
Telephone: Not reported  
Contact: Not reported  
Contact Telephone: Not reported  
Transporter 1 EPA ID: TXR000081205  
Transporter 1 Emergency Number: Not reported  
Transporter 2 EPA ID: MAD039322250

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CARL W OLSON AND SONS CO (Continued)**

**S113092279**

Transporter 2 Emergency Number: Not reported  
TSDf EPA ID: CAD059494310  
TSDf Name: CLEAN HARBORS SAN JOSE  
TSDf Address 1: Not reported  
TSDf Address 2: Not reported  
TSDf City: Not reported  
TSDf Zip: Not reported  
TSDf Telephone: Not reported

State:

Year: 2018  
EM Manifest ID: 006490580SKS20180315\_D\_1  
Generator EPA ID: CAL000175218  
Shipment Date: 2018-03-25  
Manifest Number: 006490580SKS  
Line Number: 1  
Method Code: H141  
Quantity Tons: 0.02500  
Quantity Waste: 50.000000  
Quantity Unit: P  
Number of Containers: 1  
Type of Container: NULL  
Quantity Type: NULL  
State Code: 352

Year: 2018  
EM Manifest ID: 006490581SKS20180315\_D\_1  
Shipment Date: 3/15/2018  
Receipt Date: 4/9/2018  
Manifest Number: 006490581SKS  
Generator EPA ID: CAL000175218  
Name: FEDEX EXPRESS #943-PAOA  
Address: Not reported  
Address 2: Not reported  
City: Not reported  
Zip: Not reported  
Telephone: Not reported  
Contact: Not reported  
Contact Telephone: Not reported  
Transporter 1 EPA ID: TXR000081205  
Transporter 1 Emergency Number: Not reported  
Transporter 2 EPA ID: MAD039322250  
Transporter 2 Emergency Number: Not reported  
TSDf EPA ID: NED981723513  
TSDf Name: CLEAN HARBORS ENVIRONMENTAL SERVICES IN  
TSDf Address 1: Not reported  
TSDf Address 2: Not reported  
TSDf City: Not reported  
TSDf Zip: Not reported  
TSDf Telephone: Not reported

Federal:

Year: 2018  
EM Manifest ID: 006490581SKS20180315\_D\_1  
Generator EPA ID: CAL000175218  
Shipment Date: 2018-03-15  
Manifest Number: 006490581SKS

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CARL W OLSON AND SONS CO (Continued)**

**S113092279**

Line Number: 1  
Method Code: H141  
Quantity Tons: 0.02500  
Quantity Waste: 50.000000  
Quantity Unit: P  
Number of Containers: 1  
Type of Container: NULL  
Quantity Type: NULL  
Federal Code: D001

Year: 2018  
EM Manifest ID: 006490581SKS20180315\_D\_1  
Generator EPA ID: CAL000175218  
Shipment Date: 2018-03-15  
Manifest Number: 006490581SKS  
Line Number: 1  
Method Code: H141  
Quantity Tons: 0.02500  
Quantity Waste: 50.000000  
Quantity Unit: P  
Number of Containers: 1  
Type of Container: NULL  
Quantity Type: NULL  
Federal Code: D005

Year: 2018  
EM Manifest ID: 006490581SKS20180315\_D\_1  
Generator EPA ID: CAL000175218  
Shipment Date: 2018-03-15  
Manifest Number: 006490581SKS  
Line Number: 1  
Method Code: H141  
Quantity Tons: 0.02500  
Quantity Waste: 50.000000  
Quantity Unit: P  
Number of Containers: 1  
Type of Container: NULL  
Quantity Type: NULL  
Federal Code: D006

Year: 2018  
EM Manifest ID: 006490581SKS20180315\_D\_1  
Generator EPA ID: CAL000175218  
Shipment Date: 2018-03-15  
Manifest Number: 006490581SKS  
Line Number: 1  
Method Code: H141  
Quantity Tons: 0.02500  
Quantity Waste: 50.000000  
Quantity Unit: P  
Number of Containers: 1  
Type of Container: NULL  
Quantity Type: NULL  
Federal Code: D007

Year: 2018  
EM Manifest ID: 006490581SKS20180315\_D\_1

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CARL W OLSON AND SONS CO (Continued)**

**S113092279**

Generator EPA ID: CAL000175218  
Shipment Date: 2018-03-15  
Manifest Number: 006490581SKS  
Line Number: 1  
Method Code: H141  
Quantity Tons: 0.02500  
Quantity Waste: 50.000000  
Quantity Unit: P  
Number of Containers: 1  
Type of Container: NULL  
Quantity Type: NULL  
Federal Code: D008

State:

Year: 2018  
EM Manifest ID: 006490581SKS20180315\_D\_1  
Generator EPA ID: CAL000175218  
Shipment Date: 2018-03-15  
Manifest Number: 006490581SKS  
Line Number: 1  
Method Code: H141  
Quantity Tons: 0.02500  
Quantity Waste: 50.000000  
Quantity Unit: P  
Number of Containers: 1  
Type of Container: NULL  
Quantity Type: NULL  
State Code: 331

Year: 2018  
EM Manifest ID: 006339110SKS20180213\_D\_1  
Shipment Date: 2/13/2018  
Receipt Date: 3/8/2018  
Manifest Number: 006339110SKS  
Generator EPA ID: CAL000175218  
Name: FEDEX EXPRESS #943-PAOA  
Address: Not reported  
Address 2: Not reported  
City: Not reported  
Zip: Not reported  
Telephone: Not reported  
Contact: Not reported  
Contact Telephone: Not reported  
Transporter 1 EPA ID: TXR000081205  
Transporter 1 Emergency Number: Not reported  
Transporter 2 EPA ID: MAD039322250  
Transporter 2 Emergency Number: Not reported  
TSDf EPA ID: NED981723513  
TSDf Name: CLEAN HARBORS ENVIRONMENTAL SERVICES IN  
TSDf Address 1: Not reported  
TSDf Address 2: Not reported  
TSDf City: Not reported  
TSDf Zip: Not reported  
TSDf Telephone: Not reported

Federal:

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CARL W OLSON AND SONS CO (Continued)**

**S113092279**

Year: 2018  
EM Manifest ID: 006339110SKS20180213\_D\_1  
Generator EPA ID: CAL000175218  
Shipment Date: 2018-02-13  
Manifest Number: 006339110SKS  
Line Number: 1  
Method Code: H141  
Quantity Tons: 0.02500  
Quantity Waste: 50.000000  
Quantity Unit: P  
Number of Containers: 1  
Type of Container: NULL  
Quantity Type: NULL  
Federal Code: D001

Year: 2018  
EM Manifest ID: 006339110SKS20180213\_D\_1  
Generator EPA ID: CAL000175218  
Shipment Date: 2018-02-13  
Manifest Number: 006339110SKS  
Line Number: 1  
Method Code: H141  
Quantity Tons: 0.02500  
Quantity Waste: 50.000000  
Quantity Unit: P  
Number of Containers: 1  
Type of Container: NULL  
Quantity Type: NULL  
Federal Code: D005

Year: 2018  
EM Manifest ID: 006339110SKS20180213\_D\_1  
Generator EPA ID: CAL000175218  
Shipment Date: 2018-02-13  
Manifest Number: 006339110SKS  
Line Number: 1  
Method Code: H141  
Quantity Tons: 0.02500  
Quantity Waste: 50.000000  
Quantity Unit: P  
Number of Containers: 1  
Type of Container: NULL  
Quantity Type: NULL  
Federal Code: D006

Year: 2018  
EM Manifest ID: 006339110SKS20180213\_D\_1  
Generator EPA ID: CAL000175218  
Shipment Date: 2018-02-13  
Manifest Number: 006339110SKS  
Line Number: 1  
Method Code: H141  
Quantity Tons: 0.02500  
Quantity Waste: 50.000000  
Quantity Unit: P  
Number of Containers: 1  
Type of Container: NULL

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CARL W OLSON AND SONS CO (Continued)**

**S113092279**

Quantity Type: NULL  
Federal Code: D007  
  
Year: 2018  
EM Manifest ID: 006339110SKS20180213\_D\_1  
Generator EPA ID: CAL000175218  
Shipment Date: 2018-02-13  
Manifest Number: 006339110SKS  
Line Number: 1  
Method Code: H141  
Quantity Tons: 0.02500  
Quantity Waste: 50.000000  
Quantity Unit: P  
Number of Containers: 1  
Type of Container: NULL  
Quantity Type: NULL  
Federal Code: D008

State:  
Year: 2018  
EM Manifest ID: 006339110SKS20180213\_D\_1  
Generator EPA ID: CAL000175218  
Shipment Date: 2018-02-13  
Manifest Number: 006339110SKS  
Line Number: 1  
Method Code: H141  
Quantity Tons: 0.02500  
Quantity Waste: 50.000000  
Quantity Unit: P  
Number of Containers: 1  
Type of Container: NULL  
Quantity Type: NULL  
State Code: 331

Year: 2018  
EM Manifest ID: 006339109SKS20180213\_D\_1  
Shipment Date: 2/13/2018  
Receipt Date: 2/15/2018  
Manifest Number: 006339109SKS  
Generator EPA ID: CAL000175218  
Name: FEDEX EXPRESS #943-PAOA  
Address: Not reported  
Address 2: Not reported  
City: Not reported  
Zip: Not reported  
Telephone: Not reported  
Contact: Not reported  
Contact Telephone: Not reported  
Transporter 1 EPA ID: TXR000081205  
Transporter 1 Emergency Number: Not reported  
Transporter 2 EPA ID: MAD039322250  
Transporter 2 Emergency Number: Not reported  
TSDf EPA ID: CAD059494310  
TSDf Name: CLEAN HARBORS SAN JOSE  
TSDf Address 1: Not reported  
TSDf Address 2: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CARL W OLSON AND SONS CO (Continued)**

**S113092279**

TSDf City:	Not reported
TSDf Zip:	Not reported
TSDf Telephone:	Not reported
State:	
Year:	2018
EM Manifest ID:	006339109SKS20180213_D_1
Generator EPA ID:	CAL000175218
Shipment Date:	2018-02-13
Manifest Number:	006339109SKS
Line Number:	1
Method Code:	H141
Quantity Tons:	0.06000
Quantity Waste:	120.000000
Quantity Unit:	P
Number of Containers:	2
Type of Container:	NULL
Quantity Type:	NULL
State Code:	352
Year:	2018
EM Manifest ID:	006161838SKS20171108_D_1
Shipment Date:	11/8/2017
Receipt Date:	11/16/2017
Manifest Number:	006161838SKS
Generator EPA ID:	CAL000175218
Name:	FEDEX EXPRESS #943-PAOA
Address:	Not reported
Address 2:	Not reported
City:	Not reported
Zip:	Not reported
Telephone:	Not reported
Contact:	Not reported
Contact Telephone:	Not reported
Transporter 1 EPA ID:	TXR000081205
Transporter 1 Emergency Number:	Not reported
Transporter 2 EPA ID:	MAD039322250
Transporter 2 Emergency Number:	Not reported
TSDf EPA ID:	CAD059494310
TSDf Name:	CLEAN HARBORS SAN JOSE
TSDf Address 1:	Not reported
TSDf Address 2:	Not reported
TSDf City:	Not reported
TSDf Zip:	Not reported
TSDf Telephone:	Not reported
State:	
Year:	2018
EM Manifest ID:	006161838SKS20171108_D_1
Generator EPA ID:	CAL000175218
Shipment Date:	2017-11-08
Manifest Number:	006161838SKS
Line Number:	1
Method Code:	H141
Quantity Tons:	0.04000
Quantity Waste:	80.000000
Quantity Unit:	P

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CARL W OLSON AND SONS CO (Continued)**

**S113092279**

Number of Containers: 1  
Type of Container: NULL  
Quantity Type: NULL  
State Code: 352

Additional Info:

Year: 2017  
Gen EPA ID: CAL000175218

Shipment Date: 20171108  
Creation Date: 8/7/2018 18:30:26  
Receipt Date: 20171116  
Manifest ID: 006161838SKS  
Trans EPA ID: TXR000081205  
Trans Name: SAFETY-KLEEN SYSTEMS INC  
Trans 2 EPA ID: MAD039322250  
Trans 2 Name: CLEAN HARBORS ENVIRONMENTAL SVC INC  
TSDf EPA ID: CAD059494310  
Trans Name: CLEAN HARBORS SAN JOSE  
TSDf Alt EPA ID: Not reported  
TSDf Alt Name: Not reported  
Waste Code Description: 352 - Other organic solids  
RCRA Code: Not reported  
Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)  
Quantity Tons: 0.04  
Waste Quantity: 80  
Quantity Unit: P  
Additional Code 1: Not reported  
Additional Code 2: Not reported  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported

Shipment Date: 20170913  
Creation Date: 7/6/2018 18:30:59  
Receipt Date: 20171002  
Manifest ID: 017483593JJK  
Trans EPA ID: CAL000368136  
Trans Name: CLEANTECH ENVIRONMENTAL INC  
Trans 2 EPA ID: IND058484114  
Trans 2 Name: HERITAGE TRANSPORT LLC-TS SIGNAL HILL  
TSDf EPA ID: AZD081705402  
Trans Name: HERITAGE ENVIRONMENTAL SVC LLC  
TSDf Alt EPA ID: Not reported  
TSDf Alt Name: Not reported  
Waste Code Description: 331 - Off-specification, aged, or surplus organics  
RCRA Code: D001  
Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)  
Quantity Tons: 0.06  
Waste Quantity: 120  
Quantity Unit: P  
Additional Code 1: Not reported  
Additional Code 2: Not reported  
Additional Code 3: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CARL W OLSON AND SONS CO (Continued)**

**S113092279**

Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20170706
Creation Date:	6/20/2018 18:31:06
Receipt Date:	20170713
Manifest ID:	017027919JJK
Trans EPA ID:	CAL000368136
Trans Name:	CLEANTECH ENVIRONMENTAL INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDf EPA ID:	CAL000330453
Trans Name:	CLEANTECH ENVIRONMENTAL
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H010 - Metals Recovery Including Retoring,Smelting,Chemicals,Ect
Quantity Tons:	0.075
Waste Quantity:	150
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20170706
Creation Date:	6/20/2018 18:31:06
Receipt Date:	20170713
Manifest ID:	017027919JJK
Trans EPA ID:	CAL000368136
Trans Name:	CLEANTECH ENVIRONMENTAL INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDf EPA ID:	CAL000330453
Trans Name:	CLEANTECH ENVIRONMENTAL
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.075
Waste Quantity:	150
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20170706
Creation Date:	6/20/2018 18:31:06
Receipt Date:	20170713
Manifest ID:	017027919JJK
Trans EPA ID:	CAL000368136

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CARL W OLSON AND SONS CO (Continued)**

**S113092279**

Trans Name: CLEANTECH ENVIRONMENTAL INC  
Trans 2 EPA ID: Not reported  
Trans 2 Name: Not reported  
TSDf EPA ID: CAL000330453  
Trans Name: CLEANTECH ENVIRONMENTAL  
TSDf Alt EPA ID: Not reported  
TSDf Alt Name: Not reported  
Waste Code Description: 352 - Other organic solids  
RCRA Code: Not reported  
Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)  
  
Quantity Tons: 0.1  
Waste Quantity: 200  
Quantity Unit: P  
Additional Code 1: Not reported  
Additional Code 2: Not reported  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported  
  
Shipment Date: 20170502  
Creation Date: 5/12/2018 18:31:33  
Receipt Date: 20170512  
Manifest ID: 017265909JJK  
Trans EPA ID: CAL000368136  
Trans Name: CLEANTECH ENVIRONMENTAL INC  
Trans 2 EPA ID: IND058484114  
Trans 2 Name: HERITAGE TRANSPORT LLC  
TSDf EPA ID: AZD081705402  
Trans Name: HERITAGE ENVIRONMENTAL SERVICES LLC  
TSDf Alt EPA ID: Not reported  
TSDf Alt Name: Not reported  
Waste Code Description: 331 - Off-specification, aged, or surplus organics  
RCRA Code: D001  
Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)  
  
Quantity Tons: 0.02  
Waste Quantity: 40  
Quantity Unit: P  
Additional Code 1: Not reported  
Additional Code 2: Not reported  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported  
  
Shipment Date: 20170131  
Creation Date: 5/17/2017 18:31:04  
Receipt Date: 20170220  
Manifest ID: 016867645JJK  
Trans EPA ID: CAD028277036  
Trans Name: ASBURY ENVIRONMENTAL SERVICES  
Trans 2 EPA ID: Not reported  
Trans 2 Name: Not reported  
TSDf EPA ID: CAD097030993  
Trans Name: US ECOLOGY VERNON, INC.  
TSDf Alt EPA ID: Not reported  
TSDf Alt Name: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CARL W OLSON AND SONS CO (Continued)**

**S113092279**

Waste Code Description: 352 - Other organic solids  
RCRA Code: Not reported  
Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)  
Quantity Tons: 0.04  
Waste Quantity: 80  
Quantity Unit: P  
Additional Code 1: Not reported  
Additional Code 2: Not reported  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported

Shipment Date: 20170124  
Creation Date: 5/17/2017 18:31:30  
Receipt Date: 20170202  
Manifest ID: 016766403JJK  
Trans EPA ID: CAD028277036  
Trans Name: ASBURY ENVIRONMENTAL SERVICES  
Trans 2 EPA ID: Not reported  
Trans 2 Name: Not reported  
TSDf EPA ID: CAT080012602  
Trans Name: DK DIXON  
TSDf Alt EPA ID: Not reported  
TSDf Alt Name: Not reported  
Waste Code Description: 223 - Unspecified oil-containing waste  
RCRA Code: Not reported  
Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)  
Quantity Tons: 4.06575  
Waste Quantity: 975  
Quantity Unit: G  
Additional Code 1: Not reported  
Additional Code 2: Not reported  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported

Additional Info:  
Year: 2016  
Gen EPA ID: CAL000175218

Shipment Date: 20151030  
Creation Date: 5/4/2016 22:15:48  
Receipt Date: 20151112  
Manifest ID: 014791656JJK  
Trans EPA ID: CAL000368136  
Trans Name: CLEANTECH ENVIRONMENTAL INC  
Trans 2 EPA ID: IND058484114  
Trans 2 Name: HERITAGE TRANSPORT  
TSDf EPA ID: AZD081705402  
Trans Name: HERITAGE ENVIRONMENTAL SERVICES LLC  
TSDf Alt EPA ID: Not reported  
TSDf Alt Name: Not reported  
Waste Code Description: 331 - Off-specification, aged, or surplus organics  
RCRA Code: D001  
Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CARL W OLSON AND SONS CO (Continued)**

**S113092279**

	Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.025
Waste Quantity:	50
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20151030
Creation Date:	1/11/2016 22:16:05
Receipt Date:	20151105
Manifest ID:	014791657JJK
Trans EPA ID:	CAL000368136
Trans Name:	CLEANTECH ENVIRONMENTAL INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDf EPA ID:	CAL000330453
Trans Name:	CLEANTECH ENVIRONMENTAL INC
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.05
Waste Quantity:	100
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150731
Creation Date:	2/9/2016 22:15:39
Receipt Date:	20150819
Manifest ID:	005031578SKS
Trans EPA ID:	TXR000081205
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	MAD039322250
Trans 2 Name:	CLEAN HARBORS
TSDf EPA ID:	CAD980675276
Trans Name:	CLEAN HARBORS BUTTONWILLOW LLC
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill( To Include On-Site Treatment And/Or Stabilization)
Quantity Tons:	0.05
Waste Quantity:	100
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CARL W OLSON AND SONS CO (Continued)**

**S113092279**

Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150609
Creation Date:	9/23/2015 22:15:22
Receipt Date:	20150624
Manifest ID:	004787948SKS
Trans EPA ID:	TXR000081205
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	MAD039322250
Trans 2 Name:	CLEAN HARBORS
TSDf EPA ID:	CAD980675276
Trans Name:	CLEAN HARBORS BUTTONWILLOW LLC
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill( To Include On-Site Treatment And/Or Stabilization)
Quantity Tons:	0.1
Waste Quantity:	200
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150609
Creation Date:	9/4/2015 22:15:25
Receipt Date:	20150618
Manifest ID:	004787947SKS
Trans EPA ID:	TXR000081205
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	MAD039322250
Trans 2 Name:	CLEAN HARBORS
TSDf EPA ID:	CAD059494310
Trans Name:	CLEAN HARBORS SAN JOSE LLC
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	343 - Unspecified organic liquid mixture
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0375
Waste Quantity:	75
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150413
Creation Date:	7/16/2015 22:15:31
Receipt Date:	20150501
Manifest ID:	004786234SKS

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CARL W OLSON AND SONS CO (Continued)**

**S113092279**

Trans EPA ID: TXR000081205  
Trans Name: SAFETY-KLEEN SYSTEMS INC  
Trans 2 EPA ID: MAD039322250  
Trans 2 Name: CLEAN HARBORS  
TSDf EPA ID: CAD980675276  
Trans Name: CLEAN HARBORS BUTTONWILLOW LLC  
TSDf Alt EPA ID: Not reported  
TSDf Alt Name: Not reported  
Waste Code Description: 352 - Other organic solids  
RCRA Code: Not reported  
Meth Code: H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill( To Include On-Site Treatment And/Or Stabilization)  
  
Quantity Tons: 0.05  
Waste Quantity: 100  
Quantity Unit: P  
Additional Code 1: Not reported  
Additional Code 2: Not reported  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported

Shipment Date: 20150205  
Creation Date: 5/20/2015 22:15:07  
Receipt Date: 20150225  
Manifest ID: 004404710SKS  
Trans EPA ID: TXR000081205  
Trans Name: SAFETY-KLEEN SYSTEMS INC  
Trans 2 EPA ID: MAD039322250  
Trans 2 Name: CLEAN HARBORS ENV SVC  
TSDf EPA ID: CAD980675276  
Trans Name: CLEAN HARBORS BUTTONWILLOW LLC  
TSDf Alt EPA ID: Not reported  
TSDf Alt Name: Not reported  
Waste Code Description: 352 - Other organic solids  
RCRA Code: Not reported  
Meth Code: H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill( To Include On-Site Treatment And/Or Stabilization)  
  
Quantity Tons: 0.0675  
Waste Quantity: 135  
Quantity Unit: P  
Additional Code 1: Not reported  
Additional Code 2: Not reported  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported

Shipment Date: 20150205  
Creation Date: 5/18/2015 22:15:34  
Receipt Date: 20150217  
Manifest ID: 004404709SKS  
Trans EPA ID: TXR000081205  
Trans Name: SAFETY-KLEEN SYSTEMS INC  
Trans 2 EPA ID: MAD039322250  
Trans 2 Name: CLEAN HARBORS ENV SVC  
TSDf EPA ID: CAD059494310  
Trans Name: CLEAN HARBORS SAN JOSE LLC  
TSDf Alt EPA ID: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CARL W OLSON AND SONS CO (Continued)**

**S113092279**

TSDf Alt Name:	Not reported
Waste Code Description:	343 - Unspecified organic liquid mixture
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.025
Waste Quantity:	50
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150130
Creation Date:	5/18/2015 22:15:34
Receipt Date:	20150218
Manifest ID:	004404607SKS
Trans EPA ID:	TXR000081205
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	MAD039322250
Trans 2 Name:	CLEAN HARBORS
TSDf EPA ID:	CAD980675276
Trans Name:	CLEAN HARBORS BUTTONWILLOW LLC
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	291 - Latex waste
RCRA Code:	Not reported
Meth Code:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill( To Include On-Site Treatment And/Or Stabilization)
Quantity Tons:	0.0075
Waste Quantity:	15
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150130
Creation Date:	5/17/2015 22:15:06
Receipt Date:	20150211
Manifest ID:	004404606SKS
Trans EPA ID:	TXR000081205
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	MAD039322250
Trans 2 Name:	CLEAN HARBORS
TSDf EPA ID:	CAD059494310
Trans Name:	CLEAN HARBORS SAN JOSE LLC
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D008
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.025
Waste Quantity:	50

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CARL W OLSON AND SONS CO (Continued)**

**S113092279**

Quantity Unit: P  
Additional Code 1: D007  
Additional Code 2: D006  
Additional Code 3: D005  
Additional Code 4: D001  
Additional Code 5: Not reported

Additional Info:

Year: 2015  
Gen EPA ID: CAL000175218

Shipment Date: 20151030  
Creation Date: 5/4/2016 22:15:48  
Receipt Date: 20151112  
Manifest ID: 014791656JJK  
Trans EPA ID: CAL000368136  
Trans Name: CLEANTECH ENVIRONMENTAL INC  
Trans 2 EPA ID: IND058484114  
Trans 2 Name: HERITAGE TRANSPORT  
TSDf EPA ID: AZD081705402  
Trans Name: HERITAGE ENVIRONMENTAL SERVICES LLC  
TSDf Alt EPA ID: Not reported  
TSDf Alt Name: Not reported  
Waste Code Description: 331 - Off-specification, aged, or surplus organics  
RCRA Code: D001  
Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)

Quantity Tons: 0.025  
Waste Quantity: 50  
Quantity Unit: P  
Additional Code 1: Not reported  
Additional Code 2: Not reported  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported

Shipment Date: 20151030  
Creation Date: 1/11/2016 22:16:05  
Receipt Date: 20151105  
Manifest ID: 014791657JJK  
Trans EPA ID: CAL000368136  
Trans Name: CLEANTECH ENVIRONMENTAL INC  
Trans 2 EPA ID: Not reported  
Trans 2 Name: Not reported  
TSDf EPA ID: CAL000330453  
Trans Name: CLEANTECH ENVIRONMENTAL INC  
TSDf Alt EPA ID: Not reported  
TSDf Alt Name: Not reported  
Waste Code Description: 352 - Other organic solids  
RCRA Code: Not reported  
Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)

Quantity Tons: 0.05  
Waste Quantity: 100  
Quantity Unit: P  
Additional Code 1: Not reported  
Additional Code 2: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CARL W OLSON AND SONS CO (Continued)**

**S113092279**

Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150731
Creation Date:	2/9/2016 22:15:39
Receipt Date:	20150819
Manifest ID:	005031578SKS
Trans EPA ID:	TXR000081205
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	MAD039322250
Trans 2 Name:	CLEAN HARBORS
TSDf EPA ID:	CAD980675276
Trans Name:	CLEAN HARBORS BUTTONWILLOW LLC
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill( To Include On-Site Treatment And/Or Stabilization)
Quantity Tons:	0.05
Waste Quantity:	100
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150609
Creation Date:	9/4/2015 22:15:25
Receipt Date:	20150618
Manifest ID:	004787947SKS
Trans EPA ID:	TXR000081205
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	MAD039322250
Trans 2 Name:	CLEAN HARBORS
TSDf EPA ID:	CAD059494310
Trans Name:	CLEAN HARBORS SAN JOSE LLC
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	343 - Unspecified organic liquid mixture
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0375
Waste Quantity:	75
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150609
Creation Date:	9/23/2015 22:15:22
Receipt Date:	20150624

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CARL W OLSON AND SONS CO (Continued)**

**S113092279**

Manifest ID: 004787948SKS  
Trans EPA ID: TXR000081205  
Trans Name: SAFETY-KLEEN SYSTEMS INC  
Trans 2 EPA ID: MAD039322250  
Trans 2 Name: CLEAN HARBORS  
TSDf EPA ID: CAD980675276  
Trans Name: CLEAN HARBORS BUTTONWILLOW LLC  
TSDf Alt EPA ID: Not reported  
TSDf Alt Name: Not reported  
Waste Code Description: 352 - Other organic solids  
RCRA Code: Not reported  
Meth Code: H132 - Landfill Or Surface Impoundment That Will Be Closed As  
Landfill( To Include On-Site Treatment And/Or Stabilization)  
Quantity Tons: 0.1  
Waste Quantity: 200  
Quantity Unit: P  
Additional Code 1: Not reported  
Additional Code 2: Not reported  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported  
Shipment Date: 20150413  
Creation Date: 7/16/2015 22:15:31  
Receipt Date: 20150501  
Manifest ID: 004786234SKS  
Trans EPA ID: TXR000081205  
Trans Name: SAFETY-KLEEN SYSTEMS INC  
Trans 2 EPA ID: MAD039322250  
Trans 2 Name: CLEAN HARBORS  
TSDf EPA ID: CAD980675276  
Trans Name: CLEAN HARBORS BUTTONWILLOW LLC  
TSDf Alt EPA ID: Not reported  
TSDf Alt Name: Not reported  
Waste Code Description: 352 - Other organic solids  
RCRA Code: Not reported  
Meth Code: H132 - Landfill Or Surface Impoundment That Will Be Closed As  
Landfill( To Include On-Site Treatment And/Or Stabilization)  
Quantity Tons: 0.05  
Waste Quantity: 100  
Quantity Unit: P  
Additional Code 1: Not reported  
Additional Code 2: Not reported  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported  
Shipment Date: 20150205  
Creation Date: 5/20/2015 22:15:07  
Receipt Date: 20150225  
Manifest ID: 004404710SKS  
Trans EPA ID: TXR000081205  
Trans Name: SAFETY-KLEEN SYSTEMS INC  
Trans 2 EPA ID: MAD039322250  
Trans 2 Name: CLEAN HARBORS ENV SVC  
TSDf EPA ID: CAD980675276  
Trans Name: CLEAN HARBORS BUTTONWILLOW LLC

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CARL W OLSON AND SONS CO (Continued)**

**S113092279**

TSDF Alt EPA ID: Not reported  
TSDF Alt Name: Not reported  
Waste Code Description: 352 - Other organic solids  
RCRA Code: Not reported  
Meth Code: H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill( To Include On-Site Treatment And/Or Stabilization)  
Quantity Tons: 0.0675  
Waste Quantity: 135  
Quantity Unit: P  
Additional Code 1: Not reported  
Additional Code 2: Not reported  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported

Shipment Date: 20150205  
Creation Date: 5/18/2015 22:15:34  
Receipt Date: 20150217  
Manifest ID: 004404709SKS  
Trans EPA ID: TXR000081205  
Trans Name: SAFETY-KLEEN SYSTEMS INC  
Trans 2 EPA ID: MAD039322250  
Trans 2 Name: CLEAN HARBORS ENV SVC  
TSDF EPA ID: CAD059494310  
Trans Name: CLEAN HARBORS SAN JOSE LLC  
TSDF Alt EPA ID: Not reported  
TSDF Alt Name: Not reported  
Waste Code Description: 343 - Unspecified organic liquid mixture  
RCRA Code: Not reported  
Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)  
Quantity Tons: 0.025  
Waste Quantity: 50  
Quantity Unit: P  
Additional Code 1: Not reported  
Additional Code 2: Not reported  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported

Shipment Date: 20150130  
Creation Date: 5/18/2015 22:15:34  
Receipt Date: 20150218  
Manifest ID: 004404607SKS  
Trans EPA ID: TXR000081205  
Trans Name: SAFETY-KLEEN SYSTEMS INC  
Trans 2 EPA ID: MAD039322250  
Trans 2 Name: CLEAN HARBORS  
TSDF EPA ID: CAD980675276  
Trans Name: CLEAN HARBORS BUTTONWILLOW LLC  
TSDF Alt EPA ID: Not reported  
TSDF Alt Name: Not reported  
Waste Code Description: 291 - Latex waste  
RCRA Code: Not reported  
Meth Code: H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill( To Include On-Site Treatment And/Or Stabilization)  
Quantity Tons: 0.0075

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CARL W OLSON AND SONS CO (Continued)**

**S113092279**

Waste Quantity: 15  
Quantity Unit: P  
Additional Code 1: Not reported  
Additional Code 2: Not reported  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported

Shipment Date: 20150130  
Creation Date: 5/17/2015 22:15:06  
Receipt Date: 20150211  
Manifest ID: 004404606SKS  
Trans EPA ID: TXR000081205  
Trans Name: SAFETY-KLEEN SYSTEMS INC  
Trans 2 EPA ID: MAD039322250  
Trans 2 Name: CLEAN HARBORS  
TSDf EPA ID: CAD059494310  
Trans Name: CLEAN HARBORS SAN JOSE LLC  
TSDf Alt EPA ID: Not reported  
TSDf Alt Name: Not reported  
Waste Code Description: 331 - Off-specification, aged, or surplus organics  
RCRA Code: D008  
Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)

Quantity Tons: 0.025  
Waste Quantity: 50  
Quantity Unit: P  
Additional Code 1: D007  
Additional Code 2: D006  
Additional Code 3: D005  
Additional Code 4: D001  
Additional Code 5: Not reported

Additional Info:  
Year: 2014  
Gen EPA ID: CAL000175218

Shipment Date: 20141229  
Creation Date: 3/23/2015 22:15:06  
Receipt Date: 20150109  
Manifest ID: 004407462SKS  
Trans EPA ID: TXR000081205  
Trans Name: SAFETY-KLEEN SYSTEMS INC  
Trans 2 EPA ID: MAD039322250  
Trans 2 Name: CLEAN HARBORS  
TSDf EPA ID: CAD059494310  
Trans Name: CLEAN HARBORS SAN JOSE LLC  
TSDf Alt EPA ID: Not reported  
TSDf Alt Name: Not reported  
Waste Code Description: 343 - Unspecified organic liquid mixture  
RCRA Code: Not reported  
Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)

Quantity Tons: 0.025  
Waste Quantity: 50  
Quantity Unit: P  
Additional Code 1: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CARL W OLSON AND SONS CO (Continued)**

**S113092279**

Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20141229
Creation Date:	4/16/2015 22:14:56
Receipt Date:	20150116
Manifest ID:	004407463SKS
Trans EPA ID:	TXR000081205
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	MAD039322250
Trans 2 Name:	CLEAN HARBORS
TSDf EPA ID:	CAD980675276
Trans Name:	CLEAN HARBORS BUTTONWILLOW LLC
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill( To Include On-Site Treatment And/Or Stabilization)
Quantity Tons:	0.0625
Waste Quantity:	125
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20140923
Creation Date:	12/31/2014 22:14:46
Receipt Date:	20141010
Manifest ID:	004399943SKS
Trans EPA ID:	TXR000081205
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	MAD039322250
Trans 2 Name:	CLEAN HARBORS ENV SVC
TSDf EPA ID:	CAD980675276
Trans Name:	CLEAN HARBORS BUTTONWILLOW LLC
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill( To Include On-Site Treatment And/Or Stabilization)
Quantity Tons:	0.1
Waste Quantity:	200
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20140923
Creation Date:	12/18/2014 22:14:48

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CARL W OLSON AND SONS CO (Continued)**

**S113092279**

Receipt Date: 20141003  
Manifest ID: 004399944SKS  
Trans EPA ID: TXR000081205  
Trans Name: SAFETY-KLEEN SYSTEMS INC  
Trans 2 EPA ID: MAD039322250  
Trans 2 Name: CLEAN HARBORS ENV SVC  
TSDF EPA ID: CAD059494310  
Trans Name: CLEAN HARBORS SAN JOSE LLC  
TSDF Alt EPA ID: Not reported  
TSDF Alt Name: Not reported  
Waste Code Description: 343 - Unspecified organic liquid mixture  
RCRA Code: Not reported  
Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)  
  
Quantity Tons: 0.05  
Waste Quantity: 100  
Quantity Unit: P  
Additional Code 1: Not reported  
Additional Code 2: Not reported  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported  
  
Shipment Date: 20140626  
Creation Date: 9/23/2014 22:15:15  
Receipt Date: 20140717  
Manifest ID: 003240561SKS  
Trans EPA ID: TXR000081205  
Trans Name: SAFETY-KLEEN SYSTEMS INC  
Trans 2 EPA ID: MAD039322250  
Trans 2 Name: CLEAN HARBORS ENV SERVICES  
TSDF EPA ID: CAD980675276  
Trans Name: CLEAN HARBORS BUTTONWILLOW LLC  
TSDF Alt EPA ID: Not reported  
TSDF Alt Name: Not reported  
Waste Code Description: 352 - Other organic solids  
RCRA Code: Not reported  
Meth Code: H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill( To Include On-Site Treatment And/Or Stabilization)  
  
Quantity Tons: 0.1125  
Waste Quantity: 225  
Quantity Unit: P  
Additional Code 1: Not reported  
Additional Code 2: Not reported  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported  
  
Shipment Date: 20140612  
Creation Date: 9/12/2014 22:15:05  
Receipt Date: 20140623  
Manifest ID: 004257685SKS  
Trans EPA ID: TXR000081205  
Trans Name: SAFETY-KLEEN SYSTEMS INC  
Trans 2 EPA ID: MAD039322250  
Trans 2 Name: CLEAN HARBORS ENV SVC  
TSDF EPA ID: CAD059494310



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CARL W OLSON AND SONS CO (Continued)**

**S113092279**

Trans Name:	CLEAN HARBORS SAN JOSE LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	343 - Unspecified organic liquid mixture
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.025
Waste Quantity:	50
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20140612
Creation Date:	8/26/2014 22:15:12
Receipt Date:	20140627
Manifest ID:	004257684SKS
Trans EPA ID:	TXR000081205
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	MAD039322250
Trans 2 Name:	CLEAN HARBORS
TSDF EPA ID:	CAD980675276
Trans Name:	CLEAN HARBORS BUTTONWILLOW LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill( To Include On-Site Treatment And/Or Stabilization)
Quantity Tons:	0.075
Waste Quantity:	150
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20140320
Creation Date:	6/11/2014 22:15:17
Receipt Date:	20140407
Manifest ID:	003981662SKS
Trans EPA ID:	TXR000081205
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	MAD039322250
Trans 2 Name:	CLEANHARBORS
TSDF EPA ID:	CAD059494310
Trans Name:	CLEAN HARBORS SAN JOSE LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	343 - Unspecified organic liquid mixture
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CARL W OLSON AND SONS CO (Continued)**

**S113092279**

Quantity Tons: 0.0375  
Waste Quantity: 75  
Quantity Unit: P  
Additional Code 1: Not reported  
Additional Code 2: Not reported  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported

Shipment Date: 20140225  
Creation Date: 8/7/2014 22:15:06  
Receipt Date: 20140319  
Manifest ID: 004149474SKS  
Trans EPA ID: TXR000081205  
Trans Name: SAFETY-KLEEN SYSTEMS INC  
Trans 2 EPA ID: MAD039322250  
Trans 2 Name: CLEAN HARBORS  
TSDf EPA ID: CAD980675276  
Trans Name: CLEAN HARBORS BUTTONWILLOW LLC  
TSDf Alt EPA ID: Not reported  
TSDf Alt Name: Not reported  
Waste Code Description: 352 - Other organic solids  
RCRA Code: Not reported  
Meth Code: H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill( To Include On-Site Treatment And/Or Stabilization)

Quantity Tons: 0.1  
Waste Quantity: 200  
Quantity Unit: P  
Additional Code 1: Not reported  
Additional Code 2: Not reported  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported

Additional Info:

Year: 2013  
Gen EPA ID: CAL000175218

Shipment Date: 20131209  
Creation Date: 3/18/2014 22:15:05  
Receipt Date: 20140108  
Manifest ID: 003946937SKS  
Trans EPA ID: TXR000081205  
Trans Name: SAFETY-KLEEN SYSTEMS INC  
Trans 2 EPA ID: MAD039322250  
Trans 2 Name: CLEANHARBORS  
TSDf EPA ID: CAD059494310  
Trans Name: CLEAN HARBORS SAN JOSE LLC  
TSDf Alt EPA ID: Not reported  
TSDf Alt Name: Not reported  
Waste Code Description: - Not reported  
RCRA Code: Not reported  
Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)

Quantity Tons: 0.04  
Waste Quantity: 80  
Quantity Unit: P

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CARL W OLSON AND SONS CO (Continued)**

**S113092279**

Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20131029
Creation Date:	2/7/2014 22:15:07
Receipt Date:	20131213
Manifest ID:	003946490SKS
Trans EPA ID:	TXR000081205
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	MAD039322250
Trans 2 Name:	CLEAN HARBORS
TSDf EPA ID:	CAD980675276
Trans Name:	CLEAN HARBORS BUTTONWILLOW LLC
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill( To Include On-Site Treatment And/Or Stabilization)
Quantity Tons:	0.075
Waste Quantity:	150
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20130923
Creation Date:	10/30/2013 22:15:29
Receipt Date:	20130930
Manifest ID:	003817477SKS
Trans EPA ID:	TXR000081205
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDf EPA ID:	CA0000084517
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.021
Waste Quantity:	5
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20130923

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CARL W OLSON AND SONS CO (Continued)**

**S113092279**

Creation Date: 10/30/2013 22:15:29  
Receipt Date: 20130930  
Manifest ID: 003817477SKS  
Trans EPA ID: TXR000081205  
Trans Name: SAFETY-KLEEN SYSTEMS INC  
Trans 2 EPA ID: Not reported  
Trans 2 Name: Not reported  
TSDf EPA ID: CA0000084517  
Trans Name: SAFETY-KLEEN SYSTEMS INC  
TSDf Alt EPA ID: Not reported  
TSDf Alt Name: Not reported  
Waste Code Description: 134 - Aqueous solution with <10% total organic residues  
RCRA Code: Not reported  
Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)  
  
Quantity Tons: 0.1008  
Waste Quantity: 24  
Quantity Unit: G  
Additional Code 1: Not reported  
Additional Code 2: Not reported  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported  
  
Shipment Date: 20130725  
Creation Date: 10/17/2013 22:15:18  
Receipt Date: 20130815  
Manifest ID: 003817054SKS  
Trans EPA ID: TXR000081205  
Trans Name: SAFETY-KLEEN SYSTEMS INC  
Trans 2 EPA ID: MAD039322250  
Trans 2 Name: CLEAN HARBORS  
TSDf EPA ID: CAD980675276  
Trans Name: CLEAN HARBORS BUTTONWILLOW LLC  
TSDf Alt EPA ID: Not reported  
TSDf Alt Name: Not reported  
Waste Code Description: 352 - Other organic solids  
RCRA Code: Not reported  
Meth Code: H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill( To Include On-Site Treatment And/Or Stabilization)  
  
Quantity Tons: 0.0875  
Waste Quantity: 175  
Quantity Unit: P  
Additional Code 1: Not reported  
Additional Code 2: Not reported  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported  
  
Shipment Date: 20130719  
Creation Date: 12/20/2013 22:15:07  
Receipt Date: 20130828  
Manifest ID: 003844977SKS  
Trans EPA ID: TXR000081205  
Trans Name: SAFETY-KLEEN SYSTEMS INC  
Trans 2 EPA ID: AZR000508515  
Trans 2 Name: SLT

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CARL W OLSON AND SONS CO (Continued)**

**S113092279**

TSDF EPA ID: UTD981552177  
Trans Name: CLEAN HARBORS ARAGONITE LLC  
TSDF Alt EPA ID: Not reported  
TSDF Alt Name: Not reported  
Waste Code Description: 343 - Unspecified organic liquid mixture  
RCRA Code: Not reported  
Meth Code: H040 - Incineration--Thermal Destruction Other Than Use As A Fuel  
Quantity Tons: 0.025  
Waste Quantity: 50  
Quantity Unit: P  
Additional Code 1: Not reported  
Additional Code 2: Not reported  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported

Shipment Date: 20130513  
Creation Date: 10/25/2013 22:15:29  
Receipt Date: 20130528  
Manifest ID: 003789438SKS  
Trans EPA ID: TXR000081205  
Trans Name: SAFETY-KLEEN SYSTEMS INC  
Trans 2 EPA ID: MOR000501973  
Trans 2 Name: R&R TRUCKING  
TSDF EPA ID: TXD077603371  
Trans Name: SAFETY-KLEEN SYSTEMS INC  
TSDF Alt EPA ID: Not reported  
TSDF Alt Name: Not reported  
Waste Code Description: 212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.  
RCRA Code: F005  
Meth Code: H061 - Fuel Blending Prior To Energy Recovery At Another Site  
Quantity Tons: 0.15  
Waste Quantity: 300  
Quantity Unit: P  
Additional Code 1: F003  
Additional Code 2: D035  
Additional Code 3: D001  
Additional Code 4: Not reported  
Additional Code 5: Not reported

Shipment Date: 20130429  
Creation Date: 9/28/2013 22:15:14  
Receipt Date: 20130513  
Manifest ID: 003789277SKS  
Trans EPA ID: TXR000081205  
Trans Name: SAFETY-KLEEN SYSTEMS INC  
Trans 2 EPA ID: Not reported  
Trans 2 Name: Not reported  
TSDF EPA ID: NVT330010000  
Trans Name: US ECOLOGY NEVADA  
TSDF Alt EPA ID: Not reported  
TSDF Alt Name: Not reported  
Waste Code Description: 352 - Other organic solids  
RCRA Code: Not reported  
Meth Code: H132 - Landfill Or Surface Impoundment That Will Be Closed As  
Landfill( To Include On-Site Treatment And/Or Stabilization)  
Quantity Tons: 0.0875

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CARL W OLSON AND SONS CO (Continued)**

**S113092279**

Waste Quantity: 175  
Quantity Unit: P  
Additional Code 1: Not reported  
Additional Code 2: Not reported  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported

Shipment Date: 20130318  
Creation Date: 5/14/2013 22:15:15  
Receipt Date: 20130321  
Manifest ID: 003663458SKS  
Trans EPA ID: TXR000081205  
Trans Name: SAFETY-KLEEN SYSTEMS INC  
Trans 2 EPA ID: Not reported  
Trans 2 Name: Not reported  
TSDf EPA ID: CA0000084517  
Trans Name: SAFETY-KLEEN SYSTEMS INC  
TSDf Alt EPA ID: Not reported  
TSDf Alt Name: Not reported  
Waste Code Description: 352 - Other organic solids  
RCRA Code: Not reported  
Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)

Quantity Tons: 0.0125  
Waste Quantity: 25  
Quantity Unit: P  
Additional Code 1: Not reported  
Additional Code 2: Not reported  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported

Shipment Date: 20130206  
Creation Date: 7/9/2013 22:15:05  
Receipt Date: 20130218  
Manifest ID: 003619751SKS  
Trans EPA ID: TXR000081205  
Trans Name: SAFETY-KLEEN SYSTEMS INC  
Trans 2 EPA ID: OKD981588791  
Trans 2 Name: TRIAD TRANSPORT  
TSDf EPA ID: TXD077603371  
Trans Name: SAFETY-KLEEN SYSTEMS INC  
TSDf Alt EPA ID: Not reported  
TSDf Alt Name: Not reported  
Waste Code Description: 343 - Unspecified organic liquid mixture  
RCRA Code: Not reported  
Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)

Quantity Tons: 0.025  
Waste Quantity: 50  
Quantity Unit: P  
Additional Code 1: Not reported  
Additional Code 2: Not reported  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CARL W OLSON AND SONS CO (Continued)**

**S113092279**

Additional Info:

Year:	2012
Gen EPA ID:	CAL000175218
Shipment Date:	20121119
Creation Date:	4/17/2013 22:15:34
Receipt Date:	20121203
Manifest ID:	003518036SKS
Trans EPA ID:	TXR000081205
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDf EPA ID:	NVT330010000
Trans Name:	US ECOLOGY NEVADA
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill( To Include On-Site Treatment And/Or Stabilization)
Quantity Tons:	0.0875
Waste Quantity:	175
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20120727
Creation Date:	12/29/2012 22:15:14
Receipt Date:	20120814
Manifest ID:	003316082SKS
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	OKD981588791
Trans 2 Name:	TRIAD TRANSPORT INC
TSDf EPA ID:	TXD077603371
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	343 - Unspecified organic liquid mixture
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.025
Waste Quantity:	50
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20120727
Creation Date:	1/9/2013 22:15:17
Receipt Date:	20120813

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CARL W OLSON AND SONS CO (Continued)**

**S113092279**

Manifest ID: 003316083SKS  
Trans EPA ID: TXR000050930  
Trans Name: SAFETY-KLEEN SYSTEMS INC  
Trans 2 EPA ID: Not reported  
Trans 2 Name: Not reported  
TSDf EPA ID: NVT330010000  
Trans Name: US ECOLOGY NEVADA  
TSDf Alt EPA ID: Not reported  
TSDf Alt Name: Not reported  
Waste Code Description: 352 - Other organic solids  
RCRA Code: Not reported  
Meth Code: H132 - Landfill Or Surface Impoundment That Will Be Closed As  
Landfill( To Include On-Site Treatment And/Or Stabilization)  
  
Quantity Tons: 0.05  
Waste Quantity: 100  
Quantity Unit: P  
Additional Code 1: Not reported  
Additional Code 2: Not reported  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported  
  
Shipment Date: 20120426  
Creation Date: 6/11/2013 22:15:20  
Receipt Date: 20120507  
Manifest ID: 003240001SKS  
Trans EPA ID: TXR000050930  
Trans Name: SAFETY-KLEEN SYSTEMS, INC.  
Trans 2 EPA ID: Not reported  
Trans 2 Name: Not reported  
TSDf EPA ID: NVT330010000  
Trans Name: US ECOLOGY NEVADA  
TSDf Alt EPA ID: Not reported  
TSDf Alt Name: Not reported  
Waste Code Description: 352 - Other organic solids  
RCRA Code: Not reported  
Meth Code: H132 - Landfill Or Surface Impoundment That Will Be Closed As  
Landfill( To Include On-Site Treatment And/Or Stabilization)  
  
Quantity Tons: 0.1  
Waste Quantity: 200  
Quantity Unit: P  
Additional Code 1: Not reported  
Additional Code 2: Not reported  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported  
  
Shipment Date: 20120124  
Creation Date: 7/5/2012 20:30:09  
Receipt Date: 20120207  
Manifest ID: 003135776SKS  
Trans EPA ID: TXR000050930  
Trans Name: SAFETY-KLEEN SYSTEMS INC  
Trans 2 EPA ID: OKD981588791  
Trans 2 Name: TRIAD TRANSPORT INC  
TSDf EPA ID: TXD077603371  
Trans Name: SAFETY-KLEEN SYSTEMS INC



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CARL W OLSON AND SONS CO (Continued)**

**S113092279**

TSDf Alt EPA ID: Not reported  
TSDf Alt Name: Not reported  
Waste Code Description: 343 - Unspecified organic liquid mixture  
RCRA Code: Not reported  
Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)  
Quantity Tons: 0.025  
Waste Quantity: 50  
Quantity Unit: P  
Additional Code 1: Not reported  
Additional Code 2: Not reported  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported  
Shipment Date: 20120124  
Creation Date: 6/27/2012 20:30:16  
Receipt Date: 20120206  
Manifest ID: 003135777SKS  
Trans EPA ID: TXR000050930  
Trans Name: SAFETY-KLEEN SYSTEMS INC  
Trans 2 EPA ID: Not reported  
Trans 2 Name: Not reported  
TSDf EPA ID: NVT330010000  
Trans Name: US ECOLOGY NEVADA  
TSDf Alt EPA ID: Not reported  
TSDf Alt Name: Not reported  
Waste Code Description: 352 - Other organic solids  
RCRA Code: Not reported  
Meth Code: H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill( To Include On-Site Treatment And/Or Stabilization)  
Quantity Tons: 0.05  
Waste Quantity: 100  
Quantity Unit: P  
Additional Code 1: Not reported  
Additional Code 2: Not reported  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported

**NPDES:**

Name: FEDEX EXPRESS CORP PAOA  
Address: 3750 HAVEN AVE  
City,State,Zip: MENLO PARK, CA 94025  
Facility Status: Active  
NPDES Number: CAS000001  
Region: 2  
Agency Number: 0  
Regulatory Measure ID: 276979  
Place ID: Not reported  
Order Number: 97-03-DWQ  
WDID: 2 411019747  
Regulatory Measure Type: Enrollee  
Program Type: Industrial  
Adoption Date Of Regulatory Measure: Not reported  
Effective Date Of Regulatory Measure: 08/22/2005  
Termination Date Of Regulatory Measure: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CARL W OLSON AND SONS CO (Continued)**

**S113092279**

Expiration Date Of Regulatory Measure: Not reported  
Discharge Address: 3620 Hacks Cross Rd Bldg B  
Discharge Name: Fed Ex  
Discharge City: Memphis  
Discharge State: Tennessee  
Discharge Zip: 38125  
Status: Not reported  
Status Date: Not reported  
Operator Name: Not reported  
Operator Address: Not reported  
Operator City: Not reported  
Operator State: Not reported  
Operator Zip: Not reported

NPDES as of 03/2018:

NPDES Number: Not reported  
Status: Not reported  
Agency Number: Not reported  
Region: 2  
Regulatory Measure ID: 276979  
Order Number: Not reported  
Regulatory Measure Type: Industrial  
Place ID: Not reported  
WDID: 2 411019747  
Program Type: Not reported  
Adoption Date Of Regulatory Measure: Not reported  
Effective Date Of Regulatory Measure: Not reported  
Expiration Date Of Regulatory Measure: Not reported  
Termination Date Of Regulatory Measure: Not reported  
Discharge Name: Not reported  
Discharge Address: Not reported  
Discharge City: Not reported  
Discharge State: Not reported  
Discharge Zip: Not reported  
Received Date: 05/09/2008  
Processed Date: 08/22/2005  
Status: Active  
Status Date: 08/22/2005  
Place Size: 5.4  
Place Size Unit: Acres  
Contact: Larry Wingo  
Contact Title: Senior Environmental Specialist  
Contact Phone: 817-606-4516  
Contact Phone Ext: Not reported  
Contact Email: lwwingo@fedex.com  
Operator Name: Federal Express Corp Pad  
Operator Address: 3750 Haven Ave  
Operator City: Menlo Park  
Operator State: California  
Operator Zip: 94025  
Operator Contact: Larry Wingo  
Operator Contact Title: Senior Environmental Specialist  
Operator Contact Phone: 817-606-4516  
Operator Contact Phone Ext: Not reported  
Operator Contact Email: lwwingo@fedex.com  
Operator Type: Private Business  
Developer: Not reported  
Developer Address: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CARL W OLSON AND SONS CO (Continued)**

**S113092279**

Developer City:	Not reported
Developer State:	Tennessee
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commercial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	N
Receiving Water Name:	West Point Slough
Certifier:	Bill Gebhart
Certifier Title:	Manager, EOS
Certification Date:	11-APR-17
Primary Sic:	4215-Courier Services Except by Air
Secondary Sic:	Not reported
Tertiary Sic:	Not reported
NPDES Number:	CAS000001
Status:	Active
Agency Number:	0
Region:	2
Regulatory Measure ID:	276979
Order Number:	97-03-DWQ
Regulatory Measure Type:	Enrollee
Place ID:	Not reported
WDID:	2 411019747
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	08/22/2005
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Federal Express Corp Pad
Discharge Address:	3750 Haven Ave
Discharge City:	Menlo Park
Discharge State:	California
Discharge Zip:	94025
Received Date:	Not reported
Processed Date:	Not reported
Status:	Not reported
Status Date:	Not reported
Place Size:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CARL W OLSON AND SONS CO (Continued)**

**S113092279**

Place Size Unit: Not reported  
Contact: Not reported  
Contact Title: Not reported  
Contact Phone: Not reported  
Contact Phone Ext: Not reported  
Contact Email: Not reported  
Operator Name: Not reported  
Operator Address: Not reported  
Operator City: Not reported  
Operator State: Not reported  
Operator Zip: Not reported  
Operator Contact: Not reported  
Operator Contact Title: Not reported  
Operator Contact Phone: Not reported  
Operator Contact Phone Ext: Not reported  
Operator Contact Email: Not reported  
Operator Type: Not reported  
Developer: Not reported  
Developer Address: Not reported  
Developer City: Not reported  
Developer State: Not reported  
Developer Zip: Not reported  
Developer Contact: Not reported  
Developer Contact Title: Not reported  
Constype Linear Utility Ind: Not reported  
Emergency Phone: Not reported  
Emergency Phone Ext: Not reported  
Constype Above Ground Ind: Not reported  
Constype Below Ground Ind: Not reported  
Constype Cable Line Ind: Not reported  
Constype Comm Line Ind: Not reported  
Constype Commercial Ind: Not reported  
Constype Electrical Line Ind: Not reported  
Constype Gas Line Ind: Not reported  
Constype Industrial Ind: Not reported  
Constype Other Description: Not reported  
Constype Other Ind: Not reported  
Constype Recons Ind: Not reported  
Constype Residential Ind: Not reported  
Constype Transport Ind: Not reported  
Constype Utility Description: Not reported  
Constype Utility Ind: Not reported  
Constype Water Sewer Ind: Not reported  
Dir Discharge Uswater Ind: Not reported  
Receiving Water Name: Not reported  
Certifier: Not reported  
Certifier Title: Not reported  
Certification Date: Not reported  
Primary Sic: Not reported  
Secondary Sic: Not reported  
Tertiary Sic: Not reported

Name: FEDEX EXPRESS CORP PAOA  
Address: 3750 HAVEN AVE  
City,State,Zip: MENLO PARK, CA 94025  
Facility Status: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CARL W OLSON AND SONS CO (Continued)**

**S113092279**

NPDES Number: Not reported  
Region: Not reported  
Agency Number: Not reported  
Regulatory Measure ID: Not reported  
Place ID: Not reported  
Order Number: Not reported  
WDID: 2 411019747  
Regulatory Measure Type: Industrial  
Program Type: Not reported  
Adoption Date Of Regulatory Measure: Not reported  
Effective Date Of Regulatory Measure: Not reported  
Termination Date Of Regulatory Measure: Not reported  
Expiration Date Of Regulatory Measure: Not reported  
Discharge Address: Not reported  
Discharge Name: Not reported  
Discharge City: Not reported  
Discharge State: Not reported  
Discharge Zip: Not reported  
Status: Active  
Status Date: 08/22/2005  
Operator Name: Fed Ex  
Operator Address: 3620 Hacks Cross Rd Bldg B  
Operator City: Memphis  
Operator State: Tennessee  
Operator Zip: 38125

NPDES as of 03/2018:

NPDES Number: Not reported  
Status: Not reported  
Agency Number: Not reported  
Region: 2  
Regulatory Measure ID: 276979  
Order Number: Not reported  
Regulatory Measure Type: Industrial  
Place ID: Not reported  
WDID: 2 411019747  
Program Type: Not reported  
Adoption Date Of Regulatory Measure: Not reported  
Effective Date Of Regulatory Measure: Not reported  
Expiration Date Of Regulatory Measure: Not reported  
Termination Date Of Regulatory Measure: Not reported  
Discharge Name: Not reported  
Discharge Address: Not reported  
Discharge City: Not reported  
Discharge State: Not reported  
Discharge Zip: Not reported  
Received Date: 05/09/2008  
Processed Date: 08/22/2005  
Status: Active  
Status Date: 08/22/2005  
Place Size: 5.4  
Place Size Unit: Acres  
Contact: Larry Wingo  
Contact Title: Senior Environmental Specialist  
Contact Phone: 817-606-4516  
Contact Phone Ext: Not reported  
Contact Email: lwwingo@fedex.com  
Operator Name: Federal Express Corp Pad

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CARL W OLSON AND SONS CO (Continued)**

**S113092279**

Operator Address: 3750 Haven Ave  
Operator City: Menlo Park  
Operator State: California  
Operator Zip: 94025  
Operator Contact: Larry Wingo  
Operator Contact Title: Senior Environmental Specialist  
Operator Contact Phone: 817-606-4516  
Operator Contact Phone Ext: Not reported  
Operator Contact Email: lwwingo@fedex.com  
Operator Type: Private Business  
Developer: Not reported  
Developer Address: Not reported  
Developer City: Not reported  
Developer State: Tennessee  
Developer Zip: Not reported  
Developer Contact: Not reported  
Developer Contact Title: Not reported  
Constype Linear Utility Ind: Not reported  
Emergency Phone: Not reported  
Emergency Phone Ext: Not reported  
Constype Above Ground Ind: Not reported  
Constype Below Ground Ind: Not reported  
Constype Cable Line Ind: Not reported  
Constype Comm Line Ind: Not reported  
Constype Commercial Ind: Not reported  
Constype Electrical Line Ind: Not reported  
Constype Gas Line Ind: Not reported  
Constype Industrial Ind: Not reported  
Constype Other Description: Not reported  
Constype Other Ind: Not reported  
Constype Recons Ind: Not reported  
Constype Residential Ind: Not reported  
Constype Transport Ind: Not reported  
Constype Utility Description: Not reported  
Constype Utility Ind: Not reported  
Constype Water Sewer Ind: Not reported  
Dir Discharge Uswater Ind: N  
Receiving Water Name: West Point Slough  
Certifier: Bill Gebhart  
Certifier Title: Manager, EOS  
Certification Date: 11-APR-17  
Primary Sic: 4215-Courier Services Except by Air  
Secondary Sic: Not reported  
Tertiary Sic: Not reported  
  
NPDES Number: CAS000001  
Status: Active  
Agency Number: 0  
Region: 2  
Regulatory Measure ID: 276979  
Order Number: 97-03-DWQ  
Regulatory Measure Type: Enrollee  
Place ID: Not reported  
WDID: 2 411019747  
Program Type: Industrial  
Adoption Date Of Regulatory Measure: Not reported  
Effective Date Of Regulatory Measure: 08/22/2005

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CARL W OLSON AND SONS CO (Continued)**

**S113092279**

Expiration Date Of Regulatory Measure: Not reported  
Termination Date Of Regulatory Measure: Not reported  
Discharge Name: Federal Express Corp Pad  
Discharge Address: 3750 Haven Ave  
Discharge City: Menlo Park  
Discharge State: California  
Discharge Zip: 94025  
Received Date: Not reported  
Processed Date: Not reported  
Status: Not reported  
Status Date: Not reported  
Place Size: Not reported  
Place Size Unit: Not reported  
Contact: Not reported  
Contact Title: Not reported  
Contact Phone: Not reported  
Contact Phone Ext: Not reported  
Contact Email: Not reported  
Operator Name: Not reported  
Operator Address: Not reported  
Operator City: Not reported  
Operator State: Not reported  
Operator Zip: Not reported  
Operator Contact: Not reported  
Operator Contact Title: Not reported  
Operator Contact Phone: Not reported  
Operator Contact Phone Ext: Not reported  
Operator Contact Email: Not reported  
Operator Type: Not reported  
Developer: Not reported  
Developer Address: Not reported  
Developer City: Not reported  
Developer State: Not reported  
Developer Zip: Not reported  
Developer Contact: Not reported  
Developer Contact Title: Not reported  
Constype Linear Utility Ind: Not reported  
Emergency Phone: Not reported  
Emergency Phone Ext: Not reported  
Constype Above Ground Ind: Not reported  
Constype Below Ground Ind: Not reported  
Constype Cable Line Ind: Not reported  
Constype Comm Line Ind: Not reported  
Constype Commercial Ind: Not reported  
Constype Electrical Line Ind: Not reported  
Constype Gas Line Ind: Not reported  
Constype Industrial Ind: Not reported  
Constype Other Description: Not reported  
Constype Other Ind: Not reported  
Constype Recons Ind: Not reported  
Constype Residential Ind: Not reported  
Constype Transport Ind: Not reported  
Constype Utility Description: Not reported  
Constype Utility Ind: Not reported  
Constype Water Sewer Ind: Not reported  
Dir Discharge Uswater Ind: Not reported  
Receiving Water Name: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CARL W OLSON AND SONS CO (Continued)**

**S113092279**

Certifier: Not reported  
Certifier Title: Not reported  
Certification Date: Not reported  
Primary Sic: Not reported  
Secondary Sic: Not reported  
Tertiary Sic: Not reported

**CIWQS:**

Name: FEDEX EXPRESS CORP PAOA  
Address: 3750 HAVEN AVE  
City,State,Zip: MENLO PARK, CA 94025  
Agency: Fed Ex  
Agency Address: 3620 Hacks Cross Rd Bldg B, Memphis, TN 38125  
Place/Project Type: Industrial - Courier Services Except by Air  
SIC/NAICS: 4215  
Region: 2  
Program: INDSTW  
Regulatory Measure Status: Active  
Regulatory Measure Type: Storm water industrial  
Order Number: 2014-0057-DWQ  
WDID: 2 411019747  
NPDES Number: CAS000001  
Adoption Date: Not reported  
Effective Date: 08/22/2005  
Termination Date: Not reported  
Expiration/Review Date: Not reported  
Design Flow: Not reported  
Major/Minor: Not reported  
Complexity: Not reported  
TTWQ: Not reported  
Enforcement Actions within 5 years: 0  
Violations within 5 years: 0  
Latitude: 37.48663  
Longitude: -122.18123

**CERS:**

Name: FEDEX EXPRESS CORP PAOA  
Address: 3750 HAVEN AVE  
City,State,Zip: MENLO PARK, CA 94025  
Site ID: 531899  
CERS ID: 616892  
CERS Description: Industrial Facility Storm Water

**Affiliation:**

Affiliation Type Desc: Owner/Operator  
Entity Name: Fed Ex  
Entity Title: Operator  
Affiliation Address: 3620 Hacks Cross Rd Bldg B  
Affiliation City: Memphis  
Affiliation State: TN  
Affiliation Country: Not reported  
Affiliation Zip: 38125  
Affiliation Phone: ,



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CARL W OLSON AND SONS CO (Continued)**

**S113092279**

**HWTS:**

Name: FEDERAL EXPRESS CORPORATION  
Address: 3750 HAVEN AVE  
Address 2: Not reported  
City,State,Zip: MENLO PARK, CA 94025  
EPA ID: CAL000175218  
Inactive Date: Not reported  
Create Date: 09/30/1996  
Last Act Date: Not reported  
Mailing Name: Not reported  
Mailing Address: 3620 HACKS CROSS RD BLDG B 3RD FL  
Mailing Address 2: Not reported  
Mailing City,State,Zip: MEMPHIS, TN 381257113  
Owner Name: FEDERAL EXPRESS CORPORATION  
Owner Address: 3620 HACKS CROSS RD BLDG B 2ND FL  
Owner Address 2: Not reported  
Owner City,State,Zip: MEMPHIS, TN 381257113  
Contact Name: LARRY WINGO  
Contact Address: 3620 HACKS CROSS ROAD  
Contact Address 2: Not reported  
City,State,Zip: MEMPHIS, TN 38125  
Facility Status: Active  
Facility Type: PERMANENT  
Category: STATE  
Latitude: 37.48683  
Longitude: -122.180871

**NAICS:**

EPA ID: CAL000175218  
Create Date: 2002-03-14 16:36:28.000  
NAICS Code: 49211  
NAICS Description: Couriers  
Issued EPA ID Date: 1996-09-30 00:00:00  
Inactive Date: Not reported  
Facility Name: FEDERAL EXPRESS CORPORATION  
Facility Address: 3750 HAVEN AVE  
Facility Address 2: Not reported  
Facility City: MENLO PARK  
Facility County: Not reported  
Facility State: CA  
Facility Zip: 940250000

**F63  
NE  
< 1/8  
0.102 mi.  
537 ft.**

**FEDERAL EXPRESS-PAOA  
3750 HAVEN AVE  
MENLO PARK, CA 94025**

**CA CERS HAZ WASTE  
CA CERS**

**S121759998  
N/A**

**Site 2 of 4 in cluster F**

**Relative:  
Lower  
Actual:  
7 ft.**

**CERS HAZ WASTE:**  
Name: FEDERAL EXPRESS-PAOA  
Address: 3750 HAVEN AVE  
City,State,Zip: MENLO PARK, CA 94025  
Site ID: 29880  
CERS ID: 10067245  
CERS Description: Hazardous Waste Generator

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FEDERAL EXPRESS-PAOA (Continued)**

**S121759998**

**CERS:**

Name: FEDERAL EXPRESS-PAOA  
Address: 3750 HAVEN AVE  
City,State,Zip: MENLO PARK, CA 94025  
Site ID: 29880  
CERS ID: 10067245  
CERS Description: Chemical Storage Facilities

**Violations:**

Site ID: 29880  
Site Name: FEDERAL EXPRESS-PAOA  
Violation Date: 04-17-2018  
Citation: 22 CCR 12 66262.20 - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.20  
Violation Description: Failure to prepare a Uniform Hazardous Waste Manifest and, if necessary, a Continuation Sheet, before the transport of a hazardous waste off-site for transfer, treatment, storage, or disposal.  
Violation Notes: Returned to compliance on 05/04/2018. Manifests unavailable at the time of inspection. Within 7 days please send inspector last 3 years manifests for disposal of hazardous waste (used oil, used oil filter, waste coolant, batteries, fluorescent tubes, etc.).  
Violation Division: San Mateo County Environmental Health  
Violation Program: HW  
Violation Source: CERS,

Site ID: 29880  
Site Name: FEDERAL EXPRESS-PAOA  
Violation Date: 09-05-2013  
Citation: 19 CCR 4 2729.2(a)(3) - California Code of Regulations, Title 19, Chapter 4, Section(s) 2729.2(a)(3)  
Violation Description: Failure to complete and/or submit an annotated site map if required by CUPA.  
Violation Notes: Returned to compliance on 10/04/2013. Site map is inaccurate based on the location of tanks/cylinders and drums in the shop.  
Violation Division: San Mateo County Environmental Health  
Violation Program: HMRRP  
Violation Source: CERS,

Site ID: 29880  
Site Name: FEDERAL EXPRESS-PAOA  
Violation Date: 09-25-2020  
Citation: 22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)  
Violation Description: Failure to properly label hazardous waste accumulation containers and portable tanks with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.  
Violation Notes: Returned to compliance on 10/08/2020. Several hazardous waste containers were missing accumulation start dates: waste coolant tank, 3 black drums of oily solids, aerosols, and oil filters. 2 drums of damaged good destined for disposal (hand sanitizer and lithium batteries) had no hazardous waste storage information. Please correct these labeling errors and send photo verification to the inspector within 14 days. Once negotiations with the customer indicate that a material that is hazardous will be disposed, the container must be marked with standard hazardous waste label information.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FEDERAL EXPRESS-PAOA (Continued)**

**S121759998**

Violation Division: San Mateo County Environmental Health  
Violation Program: HW  
Violation Source: CERS,

Site ID: 29880  
Site Name: FEDERAL EXPRESS-PAOA  
Violation Date: 09-05-2013  
Citation: 40 CFR 1 265.173 - U.S. Code of Federal Regulations, Title 40, Chapter 1, Section(s) 265.173  
Violation Description: Failure to properly close hazardous waste containers when not in active use.  
Violation Notes: Returned to compliance on 10/04/2013.

Violation Division: San Mateo County Environmental Health  
Violation Program: HW  
Violation Source: CERS,

Site ID: 29880  
Site Name: FEDERAL EXPRESS-PAOA  
Violation Date: 10-24-2022  
Citation: 22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)  
Violation Description: Failure to properly label hazardous waste accumulation containers and portable tanks with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.  
Violation Notes: Labels on drums of absorbent, filters, and aerosols were missing accumulation start dates. Please determine the proper start date, mark it on the label, and send photos to the inspector within 30 days.

Violation Division: San Mateo County Environmental Health  
Violation Program: HW  
Violation Source: CERS,

Site ID: 29880  
Site Name: FEDERAL EXPRESS-PAOA  
Violation Date: 09-05-2013  
Citation: 22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)  
Violation Description: Failure to properly label hazardous waste accumulation containers with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.  
Violation Notes: Returned to compliance on 10/04/2013. Facility failed to label hazardous waste with appropriate hazard class on 55 gallon drums of oil filters, incorrect hazard class on aerosols (non-flammable), and used oil/antifreeze tanks without hazard class.

Violation Division: San Mateo County Environmental Health  
Violation Program: HW  
Violation Source: CERS,

Site ID: 29880  
Site Name: FEDERAL EXPRESS-PAOA  
Violation Date: 10-24-2022  
Citation: HSC 6.95 25508(a)(3) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(3)  
Violation Description: Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FEDERAL EXPRESS-PAOA (Continued)**

**S121759998**

Violation Notes: at or above reportable quantities.  
Observed around 6 drums of DEF during the inspection. Please add the DEF to the hazardous materials inventory and re-submit the HMBP in CERS within 30 days.

Violation Division: San Mateo County Environmental Health  
Violation Program: HMRRP  
Violation Source: CERS,

Site ID: 29880  
Site Name: FEDERAL EXPRESS-PAOA  
Violation Date: 09-25-2020  
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)

Violation Description: Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.

Violation Notes: Returned to compliance on 10/20/2020. HMBP inventoried compressed gases were not observed during inspection. Please revise inventory as needed (ie, if activities like soldering are being conducted offsite) within 30 days.

Violation Division: San Mateo County Environmental Health  
Violation Program: HMRRP  
Violation Source: CERS,

Site ID: 29880  
Site Name: FEDERAL EXPRESS-PAOA  
Violation Date: 09-05-2013  
Citation: HSC 6.95 25504(b) - California Health and Safety Code, Chapter 6.95, Section(s) 25504(b)

Violation Description: Failure to include adequate emergency response procedures in the business plan for a release or threatened release.

Violation Notes: Returned to compliance on 10/04/2013. Facility fails to inspect and test emergency equipment monthly, eyewashes not tested.

Violation Division: San Mateo County Environmental Health  
Violation Program: HMRRP  
Violation Source: CERS,

Site ID: 29880  
Site Name: FEDERAL EXPRESS-PAOA  
Violation Date: 09-05-2013  
Citation: HSC 6.5 25201.16(e) - California Health and Safety Code, Chapter 6.5, Section(s) 25201.16(e)

Violation Description: Failure of the universal waste handler to manage universal waste aerosol cans in a manner that prevents fire, explosion, and the unauthorized release of any universal waste or component of a universal waste to the environment.

Violation Notes: Returned to compliance on 10/04/2013.

Violation Division: San Mateo County Environmental Health  
Violation Program: HW  
Violation Source: CERS,

Site ID: 29880  
Site Name: FEDERAL EXPRESS-PAOA  
Violation Date: 04-17-2018  
Citation: HSC 6.95 25505(a)(4) - California Health and Safety Code, Chapter 6.95, Section(s) 25505(a)(4)

Violation Description: Failure to provide initial and annual training to all employees in

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

FEDERAL EXPRESS-PAOA (Continued)

S121759998

Violation Notes: safety procedures in the event of a release or threatened release of a hazardous material or failure to document and maintain training records for a minimum of three years.  
Returned to compliance on 05/04/2018. Written notification to property owner of the storage of hazardous materials unavailable during inspection. Please either provide a copy of the written notice or use the template letter provided by the inspector to notify your landlord with a copy to the inspector within 30 days.

Violation Division: San Mateo County Environmental Health  
Violation Program: HMRRP  
Violation Source: CERS,

Site ID: 29880  
Site Name: FEDERAL EXPRESS-PAOA  
Violation Date: 04-17-2018  
Citation: HSC 6.95 25505.1 - California Health and Safety Code, Chapter 6.95, Section(s) 25505.1

Violation Description: Failure to notify property owner in writing that the business is subject to the business plan program and has complied with its provisions.

Violation Notes: Returned to compliance on 05/04/2018.  
Violation Division: San Mateo County Environmental Health  
Violation Program: HMRRP  
Violation Source: CERS,

Site ID: 29880  
Site Name: FEDERAL EXPRESS-PAOA  
Violation Date: 09-25-2020  
Citation: HSC 6.95 25505(a)(4) - California Health and Safety Code, Chapter 6.95, Section(s) 25505(a)(4)

Violation Description: Failure to provide initial and annual training to all employees in safety procedures in the event of a release or threatened release of a hazardous material or failure to document and maintain training records for a minimum of three years.

Violation Notes: Returned to compliance on 12/23/2021. Records of annual training for all staff in emergency response and spill cleanup unavailable at time of inspection. Please provide inspector copies these records within 30 days.

Violation Division: San Mateo County Environmental Health  
Violation Program: HMRRP  
Violation Source: CERS,

Evaluation:  
Eval General Type: Other/Unknown  
Eval Date: 03-25-2015  
Violations Found: No  
Eval Type: Other, not routine, done by local agency  
Eval Notes: Not reported  
Eval Division: San Mateo County Environmental Health  
Eval Program: HMRRP  
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection  
Eval Date: 03-29-2016  
Violations Found: No  
Eval Type: Routine done by local agency  
Eval Notes: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FEDERAL EXPRESS-PAOA (Continued)**

**S121759998**

Eval Division: San Mateo County Environmental Health  
Eval Program: HW  
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection  
Eval Date: 09-05-2013  
Violations Found: Yes  
Eval Type: Routine done by local agency

Eval Notes: Not reported  
Eval Division: San Mateo County Environmental Health  
Eval Program: HW  
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection  
Eval Date: 09-10-2013  
Violations Found: No  
Eval Type: Routine done by local agency

Eval Notes: Not reported  
Eval Division: San Mateo County Environmental Health  
Eval Program: HW  
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection  
Eval Date: 09-24-2020  
Violations Found: Yes  
Eval Type: Routine done by local agency  
Eval Notes: Inspection conducted during 2020 Covid-19 pandemic.  
Eval Division: San Mateo County Environmental Health  
Eval Program: HMRRP  
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection  
Eval Date: 09-24-2020  
Violations Found: Yes  
Eval Type: Routine done by local agency  
Eval Notes: Inspection conducted during 2020 Covid-19 pandemic. Facility generates hazardous waste typical of vehicle maintenance and repair and hazardous waste from customer packages of hazardous materials that are improperly packaged or cannot be shipped for another reason and end up disposed by FedEx.

Eval Division: San Mateo County Environmental Health  
Eval Program: HW  
Eval Source: CERS,

Eval General Type: Other/Unknown  
Eval Date: 03-23-2020  
Violations Found: No  
Eval Type: Other, not routine, done by local agency  
Eval Notes: add assembly area  
Eval Division: San Mateo County Environmental Health  
Eval Program: HMRRP  
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection  
Eval Date: 03-29-2016  
Violations Found: No  
Eval Type: Routine done by local agency

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FEDERAL EXPRESS-PAOA (Continued)**

**S121759998**

Eval Notes: Not reported  
Eval Division: San Mateo County Environmental Health  
Eval Program: HMRRP  
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection  
Eval Date: 09-10-2013  
Violations Found: No  
Eval Type: Routine done by local agency  
Eval Notes: Not reported  
Eval Division: San Mateo County Environmental Health  
Eval Program: HMRRP  
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection  
Eval Date: 10-21-2022  
Violations Found: Yes  
Eval Type: Routine done by local agency  
Eval Notes: Routine inspection. Facility generates used oil, used oil filters, coolant, contaminated absorbent, batteries, and universal waste. Occasionally, shipped hazardous material becomes hazardous waste.  
Eval Division: San Mateo County Environmental Health  
Eval Program: HW  
Eval Source: CERS,

Eval General Type: Other/Unknown  
Eval Date: 10-29-2020  
Violations Found: No  
Eval Type: Other, not routine, done by local agency  
Eval Notes: removed cgases from invent but not from maps  
Eval Division: San Mateo County Environmental Health  
Eval Program: HMRRP  
Eval Source: CERS,

Eval General Type: Other/Unknown  
Eval Date: 04-16-2018  
Violations Found: No  
Eval Type: Other, not routine, done by local agency  
Eval Notes: Not reported  
Eval Division: San Mateo County Environmental Health  
Eval Program: HW  
Eval Source: CERS,

Eval General Type: Other/Unknown  
Eval Date: 04-16-2021  
Violations Found: No  
Eval Type: Other, not routine, done by local agency  
Eval Notes: CERS old site  
Eval Division: San Mateo County Environmental Health  
Eval Program: HMRRP  
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection  
Eval Date: 04-17-2018  
Violations Found: Yes  
Eval Type: Routine done by local agency  
Eval Notes: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FEDERAL EXPRESS-PAOA (Continued)**

**S121759998**

Eval Division: San Mateo County Environmental Health  
Eval Program: HMRRP  
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection  
Eval Date: 04-17-2018  
Violations Found: Yes  
Eval Type: Routine done by local agency

Eval Notes: Not reported  
Eval Division: San Mateo County Environmental Health  
Eval Program: HW  
Eval Source: CERS,

Eval General Type: Other/Unknown  
Eval Date: 09-16-2020  
Violations Found: No  
Eval Type: Other, not routine, done by local agency  
Eval Notes: Not reported  
Eval Division: San Mateo County Environmental Health  
Eval Program: HMRRP  
Eval Source: CERS,

Eval General Type: Other/Unknown  
Eval Date: 04-22-2014  
Violations Found: No  
Eval Type: Other, not routine, done by local agency  
Eval Notes: HMBP review and approval in CERS  
Eval Division: San Mateo County Environmental Health  
Eval Program: HMRRP  
Eval Source: CERS,

Eval General Type: Other/Unknown  
Eval Date: 05-22-2017  
Violations Found: No  
Eval Type: Other, not routine, done by local agency  
Eval Notes: Not reported  
Eval Division: San Mateo County Environmental Health  
Eval Program: HMRRP  
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection  
Eval Date: 09-05-2013  
Violations Found: Yes  
Eval Type: Routine done by local agency  
Eval Notes: Not reported  
Eval Division: San Mateo County Environmental Health  
Eval Program: HMRRP  
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection  
Eval Date: 10-21-2022  
Violations Found: Yes  
Eval Type: Routine done by local agency  
Eval Notes: Routine inspection. Last accepted HMBP submitted 7-14-2022. No change in inventory.  
Eval Division: San Mateo County Environmental Health  
Eval Program: HMRRP



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FEDERAL EXPRESS-PAOA (Continued)**

**S121759998**

Eval Source: CERS,

Eval General Type: Other/Unknown  
Eval Date: 11-01-2019  
Violations Found: No  
Eval Type: Other, not routine, done by local agency  
Eval Notes: Not reported  
Eval Division: San Mateo County Environmental Health  
Eval Program: HMRRP  
Eval Source: CERS,

Eval General Type: Other/Unknown  
Eval Date: 11-13-2013  
Violations Found: No  
Eval Type: Other, not routine, done by local agency  
Eval Notes: Not reported  
Eval Division: San Mateo County Environmental Health  
Eval Program: HMRRP  
Eval Source: CERS,

Enforcement Action:

Site ID: 29880  
Site Name: FEDERAL EXPRESS-PAOA  
Site Address: 3750 HAVEN AVE  
Site City: MENLO PARK  
Site Zip: 94025  
Enf Action Date: 09-05-2013  
Enf Action Type: Notice of Violation (Unified Program)  
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection  
Enf Action Notes: Not reported  
Enf Action Division: San Mateo County Environmental Health  
Enf Action Program: HMRRP  
Enf Action Source: CERS,

Site ID: 29880  
Site Name: FEDERAL EXPRESS-PAOA  
Site Address: 3750 HAVEN AVE  
Site City: MENLO PARK  
Site Zip: 94025  
Enf Action Date: 09-05-2013  
Enf Action Type: Notice of Violation (Unified Program)  
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection  
Enf Action Notes: Not reported  
Enf Action Division: San Mateo County Environmental Health  
Enf Action Program: HW  
Enf Action Source: CERS,

Affiliation:

Affiliation Type Desc: Environmental Contact  
Entity Name: Danielle Carter  
Entity Title: Not reported  
Affiliation Address: 3620 Hacks Cross Road, Bldg. B 2nd Floor  
Affiliation City: Memphis  
Affiliation State: TN  
Affiliation Country: Not reported  
Affiliation Zip: 38125

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FEDERAL EXPRESS-PAOA (Continued)**

**S121759998**

Affiliation Phone: ,

Affiliation Type Desc: Identification Signer  
Entity Name: Danielle Carter  
Entity Title: Enviornmental Specialist  
Affiliation Address: Not reported  
Affiliation City: Not reported  
Affiliation State: Not reported  
Affiliation Country: Not reported  
Affiliation Zip: Not reported  
Affiliation Phone: ,

Affiliation Type Desc: Operator  
Entity Name: Federal Express Corporation  
Entity Title: Not reported  
Affiliation Address: Not reported  
Affiliation City: Not reported  
Affiliation State: Not reported  
Affiliation Country: Not reported  
Affiliation Zip: Not reported  
Affiliation Phone: (650) 463-4400,

Affiliation Type Desc: Document Preparer  
Entity Name: Apex Companies, LLC.  
Entity Title: Not reported  
Affiliation Address: Not reported  
Affiliation City: Not reported  
Affiliation State: Not reported  
Affiliation Country: Not reported  
Affiliation Zip: Not reported  
Affiliation Phone: ,

Affiliation Type Desc: Facility Mailing Address  
Entity Name: Mailing Address  
Entity Title: Not reported  
Affiliation Address: 3620 Hacks Cross Road, Bldg. B 2nd Floor  
Affiliation City: Memphis  
Affiliation State: TN  
Affiliation Country: Not reported  
Affiliation Zip: 38125  
Affiliation Phone: ,

Affiliation Type Desc: Parent Corporation  
Entity Name: FedEx Express Corporation  
Entity Title: Not reported  
Affiliation Address: Not reported  
Affiliation City: Not reported  
Affiliation State: Not reported  
Affiliation Country: Not reported  
Affiliation Zip: Not reported  
Affiliation Phone: ,

Affiliation Type Desc: CUPA District  
Entity Name: San Mateo County Environmental Health  
Entity Title: Not reported  
Affiliation Address: 2000 Alameda de las Pulgas, Suite 100  
Affiliation City: San Mateo

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**FEDERAL EXPRESS-PAOA (Continued)**

**S121759998**

Affiliation State: CA  
 Affiliation Country: Not reported  
 Affiliation Zip: 94403  
 Affiliation Phone: (650) 372-6200,  
  
 Affiliation Type Desc: Legal Owner  
 Entity Name: Federal Express Corporation  
 Entity Title: Not reported  
 Affiliation Address: 3620 Hacks Cross Road, Bldg. B 2nd Floor  
 Affiliation City: Memphis  
 Affiliation State: TN  
 Affiliation Country: United States  
 Affiliation Zip: 38125  
 Affiliation Phone: (901) 434-8460,

**F64  
 NE  
 < 1/8  
 0.102 mi.  
 537 ft.**

**FEDERAL EXPRESS CORPORATION  
 3750 HAVEN AVE  
 MENLO PARK, CA 94025  
 Site 3 of 4 in cluster F**

**RCRA NonGen / NLR 1024796375  
 CAL000175218**

**Relative:  
 Lower  
 Actual:  
 7 ft.**

RCRA Listings:  
 Date Form Received by Agency: 19960930  
 Handler Name: FEDERAL EXPRESS CORPORATION  
 Handler Address: 3750 HAVEN AVE  
 Handler City,State,Zip: MENLO PARK, CA 94025-0000  
 EPA ID: CAL000175218  
 Contact Name: LARRY WINGO  
 Contact Address: 3620 HACKS CROSS ROAD  
 Contact City,State,Zip: MEMPHIS, TN 38125  
 Contact Telephone: 817-606-4516  
 Contact Fax: 901-434-9235  
 Contact Email: LWWINGO@FEDEX.COM  
 Contact Title: Not reported  
 EPA Region: 09  
 Land Type: Not reported  
 Federal Waste Generator Description: Not a generator, verified  
 Non-Notifier: Not reported  
 Biennial Report Cycle: Not reported  
 Accessibility: Not reported  
 Active Site Indicator: Handler Activities  
 State District Owner: Not reported  
 State District: Not reported  
 Mailing Address: 3620 HACKS CROSS RD BLDG B 2ND FL  
 Mailing City,State,Zip: MEMPHIS, TN 38125-7113  
 Owner Name: FEDERAL EXPRESS CORPORATION  
 Owner Type: Other  
 Operator Name: LARRY WINGO  
 Operator Type: Other  
 Short-Term Generator Activity: No  
 Importer Activity: No  
 Mixed Waste Generator: No  
 Transporter Activity: No  
 Transfer Facility Activity: No  
 Recycler Activity with Storage: No  
 Small Quantity On-Site Burner Exemption: No  
 Smelting Melting and Refining Furnace Exemption: No

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**FEDERAL EXPRESS CORPORATION (Continued)**

**1024796375**

Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	Yes
Universal Waste Destination Facility:	Yes
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRC Permit Baseline:	Not on the Baseline
2018 GPRC Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRC Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDs Where RCRA CA has Been Imposed Universe:	No
TSDs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20180905
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

**Handler - Owner Operator:**

Owner/Operator Indicator:	Owner
Owner/Operator Name:	FEDERAL EXPRESS CORPORATION
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	3620 HACKS CROSS RD BLDG B 2ND FL
Owner/Operator City,State,Zip:	MEMPHIS, TN 38125-7113

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FEDERAL EXPRESS CORPORATION (Continued)**

**1024796375**

Owner/Operator Telephone: 817-606-4516  
Owner/Operator Telephone Ext: Not reported  
Owner/Operator Fax: Not reported  
Owner/Operator Email: Not reported  
  
Owner/Operator Indicator: Operator  
Owner/Operator Name: LARRY WINGO  
Legal Status: Other  
Date Became Current: Not reported  
Date Ended Current: Not reported  
Owner/Operator Address: 3620 HACKS CROSS ROAD  
Owner/Operator City,State,Zip: MEMPHIS, TN 38125  
Owner/Operator Telephone: 817-606-4516  
Owner/Operator Telephone Ext: Not reported  
Owner/Operator Fax: Not reported  
Owner/Operator Email: Not reported

Historic Generators:

Receive Date: 19960930  
Handler Name: FEDERAL EXPRESS CORPORATION  
Federal Waste Generator Description: Not a generator, verified  
State District Owner: Not reported  
Large Quantity Handler of Universal Waste: No  
Recognized Trader Importer: No  
Recognized Trader Exporter: No  
Spent Lead Acid Battery Importer: No  
Spent Lead Acid Battery Exporter: No  
Current Record: Yes  
Non Storage Recycler Activity: Not reported  
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:

NAICS Code: 49211  
NAICS Description: COURIERS AND EXPRESS DELIVERY SERVICES

Facility Has Received Notices of Violations:

Violations: No Violations Found

Evaluation Action Summary:

Evaluations: No Evaluations Found

**G65**  
**East**  
**< 1/8**  
**0.107 mi.**  
**567 ft.**

**ENGENICS, INC.**  
**3760 HAVEN AVE**  
**MENLO PARK, CA 94025**

**Site 1 of 6 in cluster G**

**CA HIST UST U001594185**  
**CA San Mateo Co. BI N/A**

**Relative:**  
**Lower**  
**Actual:**  
**6 ft.**

HIST UST:  
Name: ENGENICS, INC.  
Address: 3760 HAVEN AVE  
City,State,Zip: MENLO PARK, CA 94025  
File Number: Not reported  
URL: Not reported  
Region: STATE  
Facility ID: 00000014650

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ENGENICS, INC. (Continued)**

**U001594185**

Facility Type: Other  
Other Type: RESEARCH CO.  
Contact Name: RALPH ITANEN  
Telephone: 4153248600  
Owner Name: RONALD L. CAMPBELL  
Owner Address: 168 ELEANOR DRIVE  
Owner City,St,Zip: WOODSIDE, CA 94062  
Total Tanks: 0000

Tank Num: 001  
Container Num: 01  
Year Installed: Not reported  
Tank Capacity: 00002000  
Tank Used for: PRODUCT  
Type of Fuel: DIESEL  
Container Construction Thickness: Not reported  
Leak Detection: None

Tank Num: 002  
Container Num: 02  
Year Installed: Not reported  
Tank Capacity: 00002000  
Tank Used for: PRODUCT  
Type of Fuel: UNLEADED  
Container Construction Thickness: Not reported  
Leak Detection: None

Tank Num: 003  
Container Num: 03  
Year Installed: Not reported  
Tank Capacity: 00002000  
Tank Used for: PRODUCT  
Type of Fuel: REGULAR  
Container Construction Thickness: Not reported  
Leak Detection: None

**San Mateo Co. BI:**

Name: ELAN PHARMACEUTICALS  
Address: 3760 HAVEN  
City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0006222  
Prog Element Code: STORES HAZ MAT <219GAL,1,999LB, 879FT3  
Record Id: PR0004133  
Description: STORES HAZ MAT <219GAL,1,999LB, 879CF  
Facility Status: Inactive, non-billable  
Program Category: BUSINESS PLAN PROGRAM

Name: ELAN PHARMACEUTICALS  
Address: 3760 HAVEN  
City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0006222  
Prog Element Code: GEN <1 TONS HAZ WASTE/YR  
Record Id: PR0011494  
Description: GEN <1 TONS HAZ WASTE/YR  
Facility Status: Inactive, non-billable

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ENGENICS, INC. (Continued)**

**U001594185**

Program Category: HAZARDOUS WASTE PROGRAM  
  
Name: ELAN PHARMACEUTICALS  
Address: 3760 HAVEN  
City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0006222  
Prog Element Code: STORMWATER ANNUAL INSPECTION FEE  
Record Id: PR0040528  
Description: STORMWATER ANNUAL FEE - INSP FREQ EVERY 2 YRS  
Facility Status: Inactive, non-billable  
Program Category: STORMWATER

Name: ELAN PHARMACEUTICALS  
Address: 3760 HAVEN  
City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0006222  
Prog Element Code: SMALL QTY GEN (1-199 LB/MO) ON-SITE TREATMENT  
Record Id: PR0023342  
Description: SQG ON-SITE TREATMENT (1-199 LB/MO)  
Facility Status: Inactive, non-billable  
Program Category: MEDICAL WASTE

Name: UST SITE  
Address: 3760 HAVEN  
City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0050710  
Prog Element Code: UNDERGROUND TANK - GENERAL  
Record Id: PR0070394  
Description: UNDERGROUND TANK - GENERAL  
Facility Status: Inactive, non-billable  
Program Category: UNDERGROUND TANK PROGRAM

Name: NANOSYN CORPORATION  
Address: 3760 HAVEN  
City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0027968  
Prog Element Code: GEN 6-25 TONS HAZ WASTE/YR  
Record Id: PR0045966  
Description: GEN 6-25 TONS HAZ WASTE/YR  
Facility Status: Inactive, non-billable  
Program Category: HAZARDOUS WASTE PROGRAM

Name: NANOSYN CORPORATION  
Address: 3760 HAVEN  
City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0027968  
Prog Element Code: STORMWATER ANNUAL INSPECTION FEE  
Record Id: PR0045967  
Description: STORMWATER ANNUAL FEE - INSP FREQ EVERY 2 YRS  
Facility Status: Inactive, non-billable  
Program Category: STORMWATER

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ENGENICS, INC. (Continued)**

**U001594185**

Name: NANOSYN CORPORATION  
Address: 3760 HAVEN  
City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0027968  
Prog Element Code: STORES HAZ MAT <219GAL,1,999LB, 879FT3  
Record Id: PR0045965  
Description: STORES HAZ MAT <219GAL,1,999LB, 879CF  
Facility Status: Inactive, non-billable  
Program Category: BUSINESS PLAN PROGRAM

Name: TOCCATA THERAPEUTICS, INC  
Address: 3760 HAVEN  
City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0029024  
Prog Element Code: GENERATES and RECYCLES WASTE OIL/SOLVENT  
Record Id: PR0049040  
Description: GENERATES & RECYCLES WASTE OIL/SOLVENT  
Facility Status: Inactive, non-billable  
Program Category: HAZARDOUS WASTE PROGRAM

Name: TOCCATA THERAPEUTICS, INC  
Address: 3760 HAVEN  
City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0029024  
Prog Element Code: STORES MV FUELS OR WASTE ONLY  
Record Id: PR0049041  
Description: STORES MV FUELS OR WASTE ONLY  
Facility Status: Inactive, non-billable  
Program Category: BUSINESS PLAN PROGRAM

Name: TOCCATA THERAPEUTICS, INC  
Address: 3760 HAVEN  
City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0029024  
Prog Element Code: STORMWATER ANNUAL INSPECTION FEE  
Record Id: PR0049042  
Description: STORMWATER ANNUAL FEE - INSP FREQ EVERY 2 YRS  
Facility Status: Inactive, non-billable  
Program Category: STORMWATER

**G66** **NANOSYN INC**  
**East** **3760 HAVEN AVE**  
**< 1/8** **MENLO PARK, CA 94025**  
**0.107 mi.**  
**567 ft.** **Site 2 of 6 in cluster G**

**RCRA NonGen / NLR** **1000356969**  
**CA HAZNET** **CAD982343899**  
**CA HWTS**

**Relative:**  
**Lower**  
**Actual:**  
**6 ft.**

RCRA Listings:  
Date Form Received by Agency: 20110728  
Handler Name: NANOSYN INC  
Handler Address: 3760 HAVEN AVE  
Handler City,State,Zip: MENLO PARK, CA 94025  
EPA ID: CAD982343899  
Contact Name: DENNIS T LAGASCA  
Contact Address: 3100 CENTRAL EXPRESSWAY



Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**NANOSYN INC (Continued)**

**1000356969**

Contact City,State,Zip:	SANTA CLARA, CA 95051
Contact Telephone:	408-987-2000 122
Contact Fax:	408-987-2001
Contact Email:	DLGASCA@NANOSYN.COM
Contact Title:	MGR ANAYTICAL DEPT/ E H AND S
EPA Region:	09
Land Type:	Private
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Not reported
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	3100 CENTRAL EXPRESSWAY
Mailing City,State,Zip:	SANTA CLARA, CA 95051
Owner Name:	JEREMY AND LYNN SPIELMAN
Owner Type:	Private
Operator Name:	NANOSYN INC
Operator Type:	Private
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NANOSYN INC (Continued)**

**1000356969**

Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20110816
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Biennial: List of Years

Year: 2009

[Click Here for Biennial Reporting System Data:](#)

Hazardous Waste Summary:

Waste Code: D001  
Waste Description: IGNITABLE WASTE

Waste Code: D006  
Waste Description: CADMIUM

Waste Code: D008  
Waste Description: LEAD

Waste Code: D011  
Waste Description: SILVER

Waste Code: D022  
Waste Description: CHLOROFORM

Waste Code: D038  
Waste Description: PYRIDINE

Waste Code: F003  
Waste Description: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste Code: F005

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NANOSYN INC (Continued)**

**1000356969**

Waste Description: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Handler - Owner Operator:

Owner/Operator Indicator: Owner  
Owner/Operator Name: RONALD CAMPBELL  
Legal Status: Private  
Date Became Current: Not reported  
Date Ended Current: Not reported  
Owner/Operator Address: NOT REQUIRED  
Owner/Operator City,State,Zip: NOT REQUIRED, ME 99999  
Owner/Operator Telephone: 415-555-1212  
Owner/Operator Telephone Ext: Not reported  
Owner/Operator Fax: Not reported  
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator  
Owner/Operator Name: NANOSYN  
Legal Status: Private  
Date Became Current: 20030601  
Date Ended Current: Not reported  
Owner/Operator Address: Not reported  
Owner/Operator City,State,Zip: Not reported  
Owner/Operator Telephone: Not reported  
Owner/Operator Telephone Ext: Not reported  
Owner/Operator Fax: Not reported  
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner  
Owner/Operator Name: JEREMY AND LYNN SPIELMAN  
Legal Status: Private  
Date Became Current: 19830601  
Date Ended Current: Not reported  
Owner/Operator Address: 150 LYNN WAY  
Owner/Operator City,State,Zip: WOODSIDE, CA 94062  
Owner/Operator Telephone: Not reported  
Owner/Operator Telephone Ext: Not reported  
Owner/Operator Fax: Not reported  
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner  
Owner/Operator Name: JEREMY AND LYNN SPIELMAN  
Legal Status: Private  
Date Became Current: 19830601  
Date Ended Current: Not reported  
Owner/Operator Address: 150 LYNN WAY  
Owner/Operator City,State,Zip: WOODSSIDE, CA 94062  
Owner/Operator Telephone: 650-960-1111  
Owner/Operator Telephone Ext: Not reported  
Owner/Operator Fax: Not reported  
Owner/Operator Email: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NANOSYN INC (Continued)**

**1000356969**

Owner/Operator Indicator: Operator  
Owner/Operator Name: NANOSYN  
Legal Status: Private  
Date Became Current: 20030601  
Date Ended Current: Not reported  
Owner/Operator Address: Not reported  
Owner/Operator City,State,Zip: CA 94025  
Owner/Operator Telephone: Not reported  
Owner/Operator Telephone Ext: Not reported  
Owner/Operator Fax: Not reported  
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator  
Owner/Operator Name: NANOSYN INC  
Legal Status: Private  
Date Became Current: 20030601  
Date Ended Current: Not reported  
Owner/Operator Address: Not reported  
Owner/Operator City,State,Zip: Not reported  
Owner/Operator Telephone: Not reported  
Owner/Operator Telephone Ext: Not reported  
Owner/Operator Fax: Not reported  
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner  
Owner/Operator Name: JEREMY AND LYNN SPIELMAN  
Legal Status: Private  
Date Became Current: 19830601  
Date Ended Current: Not reported  
Owner/Operator Address: 150 LYNN WAY  
Owner/Operator City,State,Zip: WOODSIDE, CA 94062  
Owner/Operator Telephone: 650-960-1111  
Owner/Operator Telephone Ext: Not reported  
Owner/Operator Fax: Not reported  
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator  
Owner/Operator Name: NOT REQUIRED  
Legal Status: Private  
Date Became Current: Not reported  
Date Ended Current: Not reported  
Owner/Operator Address: NOT REQUIRED  
Owner/Operator City,State,Zip: NOT REQUIRED, ME 99999  
Owner/Operator Telephone: 415-555-1212  
Owner/Operator Telephone Ext: Not reported  
Owner/Operator Fax: Not reported  
Owner/Operator Email: Not reported

Historic Generators:

Receive Date: 20100806  
Handler Name: NANOSYN  
Federal Waste Generator Description: Large Quantity Generator  
State District Owner: Not reported  
Large Quantity Handler of Universal Waste: No  
Recognized Trader Importer: No  
Recognized Trader Exporter: No  
Spent Lead Acid Battery Importer: No

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NANOSYN INC (Continued)**

**1000356969**

Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported
Receive Date:	19880111
Handler Name:	NEUREX CORP
Federal Waste Generator Description:	Small Quantity Generator
State District Owner:	CA
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported
Receive Date:	20080630
Handler Name:	NANOSYN
Federal Waste Generator Description:	Large Quantity Generator
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported
Receive Date:	20110728
Handler Name:	NANOSYN INC
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:

NAICS Code:	325199
NAICS Description:	ALL OTHER BASIC ORGANIC CHEMICAL MANUFACTURING
NAICS Code:	325414
NAICS Description:	BIOLOGICAL PRODUCT (EXCEPT DIAGNOSTIC) MANUFACTURING

Facility Has Received Notices of Violations:

Violations: No Violations Found

Evaluation Action Summary:

Evaluations: No Evaluations Found

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NANOSYN INC (Continued)**

**1000356969**

HAZNET:

Name: NANOSYN INC  
Address: 3760 HAVEN AVE  
Address 2: Not reported  
City,State,Zip: MENLO PARK, CA 940251012  
Contact: DENNIS LAGASCA  
Telephone: 4089872000  
Mailing Name: Not reported  
Mailing Address: 3100 CENTRAL EXPY

Year: 2011  
Gepaid: CAD982343899  
TSD EPA ID: CAD982444481  
CA Waste Code: 221 - Waste oil and mixed oil  
Disposal Method: H129 - Other Treatment  
Tons: 0.025

Year: 2011  
Gepaid: CAD982343899  
TSD EPA ID: CAD982444481  
CA Waste Code: 181 - Other inorganic solid waste  
Disposal Method: H129 - Other Treatment  
Tons: 0.6

Year: 2011  
Gepaid: CAD982343899  
TSD EPA ID: CAD008488025  
CA Waste Code: 791 - Liquids with pH <= 2  
Disposal Method: H039 - Other Recovery Of Reclamation For Reuse Including Acid  
Regeneration, Organics Recovery Ect  
Tons: 0.14595

Year: 2011  
Gepaid: CAD982343899  
TSD EPA ID: CAD982444481  
CA Waste Code: 135 - Unspecified aqueous solution  
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No  
Treatment/Reovery (H010-H129) Or (H131-H135)  
Tons: 0.651

Year: 2011  
Gepaid: CAD982343899  
TSD EPA ID: TXD982290140  
CA Waste Code: 551 - Laboratory waste chemicals  
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No  
Treatment/Reovery (H010-H129) Or (H131-H135)  
Tons: 0.01

Year: 2011  
Gepaid: CAD982343899  
TSD EPA ID: TXD982290140  
CA Waste Code: 551 - Laboratory waste chemicals  
Disposal Method: H121 - Neutralization Only  
Tons: 0.0025

Year: 2011  
Gepaid: CAD982343899

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NANOSYN INC (Continued)**

**1000356969**

TSD EPA ID:	ARD981057870
CA Waste Code:	343 - Unspecified organic liquid mixture
Disposal Method:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Tons:	5.134
Year:	2011
Gepaid:	CAD982343899
TSD EPA ID:	ARD069748192
CA Waste Code:	791 - Liquids with pH <= 2
Disposal Method:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Tons:	0.0417
Year:	2011
Gepaid:	CAD982343899
TSD EPA ID:	ARD069748192
CA Waste Code:	-
Disposal Method:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Tons:	Not reported
Year:	2011
Gepaid:	CAD982343899
TSD EPA ID:	ARD069748192
CA Waste Code:	551 - Laboratory waste chemicals
Disposal Method:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Tons:	0.02

[Click this hyperlink](#) while viewing on your computer to access 74 additional CA HAZNET: record(s) in the EDR Site Report.

Additional Info:

Year:	2011
Gen EPA ID:	CAD982343899
Shipment Date:	20110617
Creation Date:	7/27/2011 18:30:24
Receipt Date:	20110623
Manifest ID:	007620968JJK
Trans EPA ID:	CAR000179747
Trans Name:	INGENIUM (SAN JOSE)
Trans 2 EPA ID:	CAR000179747
Trans 2 Name:	INGENIUM (ESCONDIDO)
TSD EPA ID:	CAD982444481
Trans Name:	FILTER RECYCLING SERVICES INC
TSD EPA Alt ID:	Not reported
TSD EPA Alt Name:	Not reported
Waste Code Description:	135 - Unspecified aqueous solution
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.021
Waste Quantity:	5
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NANOSYN INC (Continued)**

**1000356969**

Additional Code 5: Not reported

Shipment Date: 20110614  
Creation Date: 5/4/2013 22:15:59  
Receipt Date: 20110711  
Manifest ID: 007620958JJK  
Trans EPA ID: CAR000179747  
Trans Name: Not reported  
Trans 2 EPA ID: MAD039322250  
Trans 2 Name: Not reported  
TSDf EPA ID: TXD982290140  
Trans Name: Not reported  
TSDf Alt EPA ID: Not reported  
TSDf Alt Name: Not reported  
Waste Code Description: 551 - Laboratory waste chemicals 561 Detergent and soap  
RCRA Code: D003  
Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)

Quantity Tons: 0.005  
Waste Quantity: 10  
Quantity Unit: P  
Additional Code 1: D002  
Additional Code 2: D001  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported

Shipment Date: 20110614  
Creation Date: 7/27/2011 18:30:24  
Receipt Date: 20110623  
Manifest ID: 007620962JJK  
Trans EPA ID: CAR000179747  
Trans Name: INGENIUM (SAN JOSE)  
Trans 2 EPA ID: CAR000179747  
Trans 2 Name: INGENIUM (ESCONDIDO)  
TSDf EPA ID: CAD982444481  
Trans Name: FILTER RECYCLING SERVICES INC  
TSDf Alt EPA ID: Not reported  
TSDf Alt Name: Not reported  
Waste Code Description: 221 - Waste oil and mixed oil  
RCRA Code: Not reported  
Meth Code: H129 - Other Treatment  
Quantity Tons: 0.025  
Waste Quantity: 50  
Quantity Unit: P  
Additional Code 1: Not reported  
Additional Code 2: Not reported  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported

Shipment Date: 20110614  
Creation Date: 7/27/2011 18:30:24  
Receipt Date: 20110623  
Manifest ID: 007620962JJK  
Trans EPA ID: CAR000179747  
Trans Name: INGENIUM (SAN JOSE)



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NANOSYN INC (Continued)**

**1000356969**

Trans 2 EPA ID: CAR000179747  
Trans 2 Name: INGENIUM (ESCONDIDO)  
TSDf EPA ID: CAD982444481  
Trans Name: FILTER RECYCLING SERVICES INC  
TSDf Alt EPA ID: Not reported  
TSDf Alt Name: Not reported  
Waste Code Description: 135 - Unspecified aqueous solution  
RCRA Code: Not reported  
Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)  
  
Quantity Tons: 0.63  
Waste Quantity: 150  
Quantity Unit: G  
Additional Code 1: Not reported  
Additional Code 2: Not reported  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported  
  
Shipment Date: 20110614  
Creation Date: 7/27/2011 18:30:24  
Receipt Date: 20110623  
Manifest ID: 007620962JJK  
Trans EPA ID: CAR000179747  
Trans Name: INGENIUM (SAN JOSE)  
Trans 2 EPA ID: CAR000179747  
Trans 2 Name: INGENIUM (ESCONDIDO)  
TSDf EPA ID: CAD982444481  
Trans Name: FILTER RECYCLING SERVICES INC  
TSDf Alt EPA ID: Not reported  
TSDf Alt Name: Not reported  
Waste Code Description: 181 - Other inorganic solid waste Organics  
RCRA Code: Not reported  
Meth Code: H129 - Other Treatment  
Quantity Tons: 0.6  
Waste Quantity: 1200  
Quantity Unit: P  
Additional Code 1: Not reported  
Additional Code 2: Not reported  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported  
  
Shipment Date: 20110614  
Creation Date: 12/15/2011 18:30:22  
Receipt Date: 20110702  
Manifest ID: 007620961JJK  
Trans EPA ID: CAR000179747  
Trans Name: INGENIUM (SAN JOSE)  
Trans 2 EPA ID: CAR000179382  
Trans 2 Name: ENV ENVIRONMENTAL INTERNATIONAL  
TSDf EPA ID: ARD981057870  
Trans Name: RINECO  
TSDf Alt EPA ID: Not reported  
TSDf Alt Name: Not reported  
Waste Code Description: 352 - Other organic solids  
RCRA Code: F005

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NANOSYN INC (Continued)**

**1000356969**

Meth Code: H061 - Fuel Blending Prior To Energy Recovery At Another Site  
Quantity Tons: 0.1  
Waste Quantity: 200  
Quantity Unit: P  
Additional Code 1: F003  
Additional Code 2: D038  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported

Shipment Date: 20110614  
Creation Date: 12/15/2011 18:30:22  
Receipt Date: 20110702  
Manifest ID: 007620961JJK  
Trans EPA ID: CAR000179747  
Trans Name: INGENIUM (SAN JOSE)  
Trans 2 EPA ID: CAR000179382  
Trans 2 Name: ENV ENVIRONMENTAL INTERNATIONAL  
TSDf EPA ID: ARD981057870  
Trans Name: RINECO  
TSDf Alt EPA ID: Not reported  
TSDf Alt Name: Not reported  
Waste Code Description: 352 - Other organic solids  
RCRA Code: F005

Meth Code: H061 - Fuel Blending Prior To Energy Recovery At Another Site  
Quantity Tons: 0.6  
Waste Quantity: 1200  
Quantity Unit: P  
Additional Code 1: F003  
Additional Code 2: D038  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported

Shipment Date: 20110614  
Creation Date: 12/15/2011 18:30:22  
Receipt Date: 20110702  
Manifest ID: 007620961JJK  
Trans EPA ID: CAR000179747  
Trans Name: INGENIUM (SAN JOSE)  
Trans 2 EPA ID: CAR000179382  
Trans 2 Name: ENV ENVIRONMENTAL INTERNATIONAL  
TSDf EPA ID: ARD981057870  
Trans Name: RINECO  
TSDf Alt EPA ID: Not reported  
TSDf Alt Name: Not reported  
Waste Code Description: 343 - Unspecified organic liquid mixture  
RCRA Code: F005

Meth Code: H061 - Fuel Blending Prior To Energy Recovery At Another Site  
Quantity Tons: 0.51  
Waste Quantity: 150  
Quantity Unit: G  
Additional Code 1: F003  
Additional Code 2: D038  
Additional Code 3: D001  
Additional Code 4: Not reported  
Additional Code 5: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NANOSYN INC (Continued)**

**1000356969**

Shipment Date: 20110614  
Creation Date: 5/4/2013 22:15:59  
Receipt Date: 20110721  
Manifest ID: 007620960JJK  
Trans EPA ID: CAR000179747  
Trans Name: INGENIUM (SAN JOSE)  
Trans 2 EPA ID: MAD039322250  
Trans 2 Name: CLEAN HARBORS ENV SERVICES  
TSDf EPA ID: ARD069748192  
Trans Name: CLEAN HARBORS EL DORADO LLC  
TSDf Alt EPA ID: Not reported  
TSDf Alt Name: Not reported  
Waste Code Description: - Not reported  
RCRA Code: Not reported  
Meth Code: H040 - Incineration--Thermal Destruction Other Than Use As A Fuel  
Quantity Tons: Not reported  
Waste Quantity: Not reported  
Quantity Unit: Not reported  
Additional Code 1: Not reported  
Additional Code 2: Not reported  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported

Shipment Date: 20110614  
Creation Date: 5/4/2013 22:15:59  
Receipt Date: 20110721  
Manifest ID: 007620960JJK  
Trans EPA ID: CAR000179747  
Trans Name: INGENIUM (SAN JOSE)  
Trans 2 EPA ID: MAD039322250  
Trans 2 Name: CLEAN HARBORS ENV SERVICES  
TSDf EPA ID: ARD069748192  
Trans Name: CLEAN HARBORS EL DORADO LLC  
TSDf Alt EPA ID: Not reported  
TSDf Alt Name: Not reported  
Waste Code Description: 352 - Other organic solids  
RCRA Code: F003  
Meth Code: H040 - Incineration--Thermal Destruction Other Than Use As A Fuel  
Quantity Tons: 0.05  
Waste Quantity: 100  
Quantity Unit: P  
Additional Code 1: Not reported  
Additional Code 2: Not reported  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported

Additional Info:

Year: 2010  
Gen EPA ID: CAD982343899

Shipment Date: 20101123  
Creation Date: 4/27/2011 18:30:26  
Receipt Date: 20101206  
Manifest ID: 007619336JJK  
Trans EPA ID: CAR000179747

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NANOSYN INC (Continued)**

**1000356969**

Trans Name: INGENIUM (SAN JOSE)  
Trans 2 EPA ID: CAR000179382  
Trans 2 Name: ENV ENVIRONMENTAL INTERNATIONAL  
TSDf EPA ID: ARD981057870  
Trans Name: RINECO  
TSDf Alt EPA ID: Not reported  
TSDf Alt Name: Not reported  
Waste Code Description: 343 - Unspecified organic liquid mixture  
RCRA Code: F005  
Meth Code: H061 - Fuel Blending Prior To Energy Recovery At Another Site  
Quantity Tons: 1.122  
Waste Quantity: 330  
Quantity Unit: G  
Additional Code 1: F003  
Additional Code 2: D038  
Additional Code 3: D001  
Additional Code 4: Not reported  
Additional Code 5: Not reported

Shipment Date: 20101103  
Creation Date: 5/14/2013 22:15:05  
Receipt Date: Not reported  
Manifest ID: 007619300JJK  
Trans EPA ID: CAR000179747  
Trans Name: INGENIUM  
Trans 2 EPA ID: CAR000179382  
Trans 2 Name: ENV ENVIRONMENTAL INTERNATIONAL  
TSDf EPA ID: ARD981057870  
Trans Name: RINECO  
TSDf Alt EPA ID: Not reported  
TSDf Alt Name: Not reported  
Waste Code Description: 352 - Other organic solids  
RCRA Code: F005  
Meth Code: - Not reported  
Quantity Tons: 0.2  
Waste Quantity: 400  
Quantity Unit: P  
Additional Code 1: F003  
Additional Code 2: D038  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported

Shipment Date: 20101103  
Creation Date: 5/14/2013 22:15:05  
Receipt Date: Not reported  
Manifest ID: 007619300JJK  
Trans EPA ID: CAR000179747  
Trans Name: INGENIUM  
Trans 2 EPA ID: CAR000179382  
Trans 2 Name: ENV ENVIRONMENTAL INTERNATIONAL  
TSDf EPA ID: ARD981057870  
Trans Name: RINECO  
TSDf Alt EPA ID: Not reported  
TSDf Alt Name: Not reported  
Waste Code Description: 343 - Unspecified organic liquid mixture  
RCRA Code: F005

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NANOSYN INC (Continued)**

**1000356969**

Meth Code:	- Not reported
Quantity Tons:	34.884
Waste Quantity:	10260
Quantity Unit:	G
Additional Code 1:	F003
Additional Code 2:	D038
Additional Code 3:	D001
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20101006
Creation Date:	2/23/2011 18:30:31
Receipt Date:	20101018
Manifest ID:	007619155JJK
Trans EPA ID:	CAR000179747
Trans Name:	INGENIUM (SAN JOSE)
Trans 2 EPA ID:	CAR000179382
Trans 2 Name:	ENV ENVIRONMENTAL INTERNATIONAL
TSDf EPA ID:	ARD981057870
Trans Name:	RINECO
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	343 - Unspecified organic liquid mixture
RCRA Code:	F005
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	1.122
Waste Quantity:	330
Quantity Unit:	G
Additional Code 1:	F003
Additional Code 2:	D038
Additional Code 3:	D001
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20100902
Creation Date:	2/18/2011 18:30:17
Receipt Date:	20100920
Manifest ID:	007619119JJK
Trans EPA ID:	CAR000179747
Trans Name:	INGENIUM
Trans 2 EPA ID:	CAR000179382
Trans 2 Name:	ENV ENVIRONMENTAL INTERNATIONAL
TSDf EPA ID:	ARD981057870
Trans Name:	RINECO
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	F005
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.2
Waste Quantity:	400
Quantity Unit:	P
Additional Code 1:	F003
Additional Code 2:	D038
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NANOSYN INC (Continued)**

**1000356969**

Shipment Date: 20100902  
Creation Date: 2/18/2011 18:30:17  
Receipt Date: 20100920  
Manifest ID: 007619119JJK  
Trans EPA ID: CAR000179747  
Trans Name: INGENIUM  
Trans 2 EPA ID: CAR000179382  
Trans 2 Name: ENV ENVIRONMENTAL INTERNATIONAL  
TSDf EPA ID: ARD981057870  
Trans Name: RINECO  
TSDf Alt EPA ID: Not reported  
TSDf Alt Name: Not reported  
Waste Code Description: 343 - Unspecified organic liquid mixture  
RCRA Code: F005  
Meth Code: H061 - Fuel Blending Prior To Energy Recovery At Another Site  
Quantity Tons: 1.122  
Waste Quantity: 330  
Quantity Unit: G  
Additional Code 1: F003  
Additional Code 2: D038  
Additional Code 3: D001  
Additional Code 4: Not reported  
Additional Code 5: Not reported

Shipment Date: 20100810  
Creation Date: 2/1/2011 18:30:18  
Receipt Date: 20100823  
Manifest ID: 007619022JJK  
Trans EPA ID: CAR000179747  
Trans Name: INGENIUM  
Trans 2 EPA ID: CAR000179382  
Trans 2 Name: ENV ENVIRONMENTAL INTERNATIONAL  
TSDf EPA ID: ARD981057870  
Trans Name: RINECO  
TSDf Alt EPA ID: Not reported  
TSDf Alt Name: Not reported  
Waste Code Description: 343 - Unspecified organic liquid mixture  
RCRA Code: F005  
Meth Code: H061 - Fuel Blending Prior To Energy Recovery At Another Site  
Quantity Tons: 1.122  
Waste Quantity: 330  
Quantity Unit: G  
Additional Code 1: F003  
Additional Code 2: D038  
Additional Code 3: D001  
Additional Code 4: Not reported  
Additional Code 5: Not reported

Shipment Date: 20100709  
Creation Date: 1/26/2011 18:30:17  
Receipt Date: 20100719  
Manifest ID: 007137579JJK  
Trans EPA ID: CAR000179747  
Trans Name: INGENIUM  
Trans 2 EPA ID: CAR000179382  
Trans 2 Name: ENV ENVIRONMENTAL INTERNATIONAL  
TSDf EPA ID: ARD981057870

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NANOSYN INC (Continued)**

**1000356969**

Trans Name: RINECO  
TSDf Alt EPA ID: Not reported  
TSDf Alt Name: Not reported  
Waste Code Description: 352 - Other organic solids  
RCRA Code: F005  
Meth Code: H061 - Fuel Blending Prior To Energy Recovery At Another Site  
Quantity Tons: 0.2  
Waste Quantity: 400  
Quantity Unit: P  
Additional Code 1: F003  
Additional Code 2: D038  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported

Shipment Date: 20100709  
Creation Date: 1/26/2011 18:30:17  
Receipt Date: 20100719  
Manifest ID: 007137579JJK  
Trans EPA ID: CAR000179747  
Trans Name: INGENIUM  
Trans 2 EPA ID: CAR000179382  
Trans 2 Name: ENV ENVIRONMENTAL INTERNATIONAL  
TSDf EPA ID: ARD981057870  
Trans Name: RINECO  
TSDf Alt EPA ID: Not reported  
TSDf Alt Name: Not reported  
Waste Code Description: 343 - Unspecified organic liquid mixture  
RCRA Code: F005  
Meth Code: H061 - Fuel Blending Prior To Energy Recovery At Another Site  
Quantity Tons: 1.122  
Waste Quantity: 330  
Quantity Unit: G  
Additional Code 1: F003  
Additional Code 2: D038  
Additional Code 3: D001  
Additional Code 4: Not reported  
Additional Code 5: Not reported

Shipment Date: 20100604  
Creation Date: 1/14/2011 18:30:24  
Receipt Date: 20100611  
Manifest ID: 007137662JJK  
Trans EPA ID: CAR000179747  
Trans Name: INGENIUM  
Trans 2 EPA ID: CAR000179382  
Trans 2 Name: ENV ENVIRONMENTAL INTERNATIONAL  
TSDf EPA ID: ARD981057870  
Trans Name: RINECO  
TSDf Alt EPA ID: Not reported  
TSDf Alt Name: Not reported  
Waste Code Description: 343 - Unspecified organic liquid mixture  
RCRA Code: F005  
Meth Code: H061 - Fuel Blending Prior To Energy Recovery At Another Site  
Quantity Tons: 1.122  
Waste Quantity: 330  
Quantity Unit: G

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NANOSYN INC (Continued)**

**1000356969**

Additional Code 1: F003  
Additional Code 2: D038  
Additional Code 3: D001  
Additional Code 4: Not reported  
Additional Code 5: Not reported

Additional Info:

Year: 2009  
Gen EPA ID: CAD982343899

Shipment Date: 20091208  
Creation Date: 6/30/2010 18:30:18  
Receipt Date: 20091222  
Manifest ID: 005954426JJK  
Trans EPA ID: CAR000179747  
Trans Name: INGENIUM  
Trans 2 EPA ID: CAR000179382  
Trans 2 Name: ENV ENVIRONMENTAL INTERNATIONAL  
TSDf EPA ID: ARD981057870  
Trans Name: RINECO  
TSDf Alt EPA ID: Not reported  
TSDf Alt Name: Not reported  
Waste Code Description: 343 - Unspecified organic liquid mixture  
RCRA Code: F005  
Meth Code: H061 - Fuel Blending Prior To Energy Recovery At Another Site  
Quantity Tons: 1.122  
Waste Quantity: 330  
Quantity Unit: G  
Additional Code 1: F003  
Additional Code 2: D038  
Additional Code 3: D001  
Additional Code 4: Not reported  
Additional Code 5: Not reported

Shipment Date: 20091006  
Creation Date: 5/20/2010 18:30:26  
Receipt Date: 20091019  
Manifest ID: 005954289JJK  
Trans EPA ID: CAR000179747  
Trans Name: INGENIUM  
Trans 2 EPA ID: CAR000179382  
Trans 2 Name: ENV ENVIRONMENTAL INTERNATIONAL  
TSDf EPA ID: ARD981057870  
Trans Name: RINECO  
TSDf Alt EPA ID: Not reported  
TSDf Alt Name: Not reported  
Waste Code Description: 343 - Unspecified organic liquid mixture  
RCRA Code: F005  
Meth Code: H061 - Fuel Blending Prior To Energy Recovery At Another Site  
Quantity Tons: 0.935  
Waste Quantity: 275  
Quantity Unit: G  
Additional Code 1: F003  
Additional Code 2: D038  
Additional Code 3: D001  
Additional Code 4: Not reported  
Additional Code 5: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NANOSYN INC (Continued)**

**1000356969**

Shipment Date: 20091006  
Creation Date: 5/20/2010 18:30:26  
Receipt Date: 20091019  
Manifest ID: 005954289JJK  
Trans EPA ID: CAR000179747  
Trans Name: INGENIUM  
Trans 2 EPA ID: CAR000179382  
Trans 2 Name: ENV ENVIRONMENTAL INTERNATIONAL  
TSDf EPA ID: ARD981057870  
Trans Name: RINECO  
TSDf Alt EPA ID: Not reported  
TSDf Alt Name: Not reported  
Waste Code Description: 352 - Other organic solids  
RCRA Code: F005  
Meth Code: H061 - Fuel Blending Prior To Energy Recovery At Another Site  
Quantity Tons: 0.15  
Waste Quantity: 300  
Quantity Unit: P  
Additional Code 1: F003  
Additional Code 2: D038  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported

Shipment Date: 20090908  
Creation Date: 10/23/2009 18:30:20  
Receipt Date: 20090915  
Manifest ID: 005954221JJK  
Trans EPA ID: CAR000179747  
Trans Name: INGENIUM  
Trans 2 EPA ID: MAD039322250  
Trans 2 Name: CLEAN HARBORS ENVIRONMENTAL SERVICES  
TSDf EPA ID: CAD059494310  
Trans Name: CLEAN HARBORS SAN JOSE LLC  
TSDf Alt EPA ID: Not reported  
TSDf Alt Name: Not reported  
Waste Code Description: 343 - Unspecified organic liquid mixture  
RCRA Code: F005  
Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)  
Quantity Tons: 0.935  
Waste Quantity: 275  
Quantity Unit: G  
Additional Code 1: F003  
Additional Code 2: D038  
Additional Code 3: D001  
Additional Code 4: Not reported  
Additional Code 5: Not reported

Shipment Date: 20090721  
Creation Date: 1/8/2010 18:30:42  
Receipt Date: 20090807  
Manifest ID: 005954104JJK  
Trans EPA ID: CAR000179747  
Trans Name: INGENIUM  
Trans 2 EPA ID: CAD982523433  
Trans 2 Name: DILLARD ENVIRONMENTAL SERVICES

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NANOSYN INC (Continued)**

**1000356969**

TSDF EPA ID: ARD981057870  
Trans Name: RINECO  
TSDF Alt EPA ID: Not reported  
TSDF Alt Name: Not reported  
Waste Code Description: 343 - Unspecified organic liquid mixture  
RCRA Code: F005  
Meth Code: H061 - Fuel Blending Prior To Energy Recovery At Another Site  
Quantity Tons: 0.748  
Waste Quantity: 220  
Quantity Unit: G  
Additional Code 1: F003  
Additional Code 2: D038  
Additional Code 3: D001  
Additional Code 4: Not reported  
Additional Code 5: Not reported

Shipment Date: 20090721  
Creation Date: 1/8/2010 18:30:42  
Receipt Date: 20090807  
Manifest ID: 005954104JJK  
Trans EPA ID: CAR000179747  
Trans Name: INGENIUM  
Trans 2 EPA ID: CAD982523433  
Trans 2 Name: DILLARD ENVIRONMENTAL SERVICES  
TSDF EPA ID: ARD981057870  
Trans Name: RINECO  
TSDF Alt EPA ID: Not reported  
TSDF Alt Name: Not reported  
Waste Code Description: 352 - Other organic solids  
RCRA Code: F005  
Meth Code: H061 - Fuel Blending Prior To Energy Recovery At Another Site  
Quantity Tons: 0.2  
Waste Quantity: 400  
Quantity Unit: P  
Additional Code 1: F003  
Additional Code 2: D038  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported

Shipment Date: 20090623  
Creation Date: 11/3/2009 18:30:20  
Receipt Date: 20090710  
Manifest ID: 005954042JJK  
Trans EPA ID: CAR000179747  
Trans Name: INGENIUM  
Trans 2 EPA ID: CAD982523433  
Trans 2 Name: DILLARD ENVIRONMENTAL SERVICES  
TSDF EPA ID: ARD981057870  
Trans Name: RINECO  
TSDF Alt EPA ID: Not reported  
TSDF Alt Name: Not reported  
Waste Code Description: 343 - Unspecified organic liquid mixture  
RCRA Code: F005  
Meth Code: H061 - Fuel Blending Prior To Energy Recovery At Another Site  
Quantity Tons: 0.935  
Waste Quantity: 275

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NANOSYN INC (Continued)**

**1000356969**

Quantity Unit:	G
Additional Code 1:	F003
Additional Code 2:	D038
Additional Code 3:	D001
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20090511
Creation Date:	9/23/2009 18:30:21
Receipt Date:	20090519
Manifest ID:	005118680JJK
Trans EPA ID:	CAR000179747
Trans Name:	INGENIUM
Trans 2 EPA ID:	CAD982523433
Trans 2 Name:	DILLARD ENVIRONMENTAL SERVICES
TSDF EPA ID:	ARD981057870
Trans Name:	RINECO
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	343 - Unspecified organic liquid mixture
RCRA Code:	F005
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.85
Waste Quantity:	250
Quantity Unit:	G
Additional Code 1:	F003
Additional Code 2:	D038
Additional Code 3:	D001
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20090511
Creation Date:	9/23/2009 18:30:21
Receipt Date:	20090519
Manifest ID:	005118680JJK
Trans EPA ID:	CAR000179747
Trans Name:	INGENIUM
Trans 2 EPA ID:	CAD982523433
Trans 2 Name:	DILLARD ENVIRONMENTAL SERVICES
TSDF EPA ID:	ARD981057870
Trans Name:	RINECO
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	F005
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.225
Waste Quantity:	450
Quantity Unit:	P
Additional Code 1:	F003
Additional Code 2:	D038
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20090323
Creation Date:	12/16/2009 8:28:28

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NANOSYN INC (Continued)**

**1000356969**

Receipt Date: 20090401  
Manifest ID: 005118922JJK  
Trans EPA ID: CAR000179747  
Trans Name: INGENIUM  
Trans 2 EPA ID: MAD039322250  
Trans 2 Name: CLEAN HARBORS ENVIRONMENTAL SERVICES  
TSDf EPA ID: CAD059494310  
Trans Name: CLEAN HARBORS SAN JOSE LLC  
TSDf Alt EPA ID: Not reported  
TSDf Alt Name: Not reported  
Waste Code Description: 343 - Unspecified organic liquid mixture  
RCRA Code: F005  
Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)  
  
Quantity Tons: 1.122  
Waste Quantity: 330  
Quantity Unit: G  
Additional Code 1: F003  
Additional Code 2: D038  
Additional Code 3: D001  
Additional Code 4: Not reported  
Additional Code 5: Not reported

Additional Info:

Year: 2008  
Gen EPA ID: CAD982343899

Shipment Date: 20081205  
Creation Date: 2/17/2009 18:30:19  
Receipt Date: 20081213  
Manifest ID: 005118718JJK  
Trans EPA ID: CAR000179747  
Trans Name: INGENIUM  
Trans 2 EPA ID: MAD039322250  
Trans 2 Name: CLEAN HARBORS ENV SERVICES  
TSDf EPA ID: CAD059494310  
Trans Name: CLEAN HARBORS SAN JOSE LLC  
TSDf Alt EPA ID: Not reported  
TSDf Alt Name: Not reported  
Waste Code Description: 343 - Unspecified organic liquid mixture  
RCRA Code: F005  
Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)  
  
Quantity Tons: 0.935  
Waste Quantity: 275  
Quantity Unit: G  
Additional Code 1: F003  
Additional Code 2: D038  
Additional Code 3: D001  
Additional Code 4: Not reported  
Additional Code 5: Not reported

Shipment Date: 20081031  
Creation Date: 3/31/2009 18:30:08  
Receipt Date: 20081107  
Manifest ID: 005118664JJK  
Trans EPA ID: CAR000179747

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NANOSYN INC (Continued)**

**1000356969**

Trans Name: INGENIUM  
Trans 2 EPA ID: CAD982523433  
Trans 2 Name: DILLARD ENVIRONMENTAL SERVICES  
TSDf EPA ID: ARD981057870  
Trans Name: RINECO  
TSDf Alt EPA ID: Not reported  
TSDf Alt Name: Not reported  
Waste Code Description: 343 - Unspecified organic liquid mixture  
RCRA Code: F005  
Meth Code: H061 - Fuel Blending Prior To Energy Recovery At Another Site  
Quantity Tons: 0.748  
Waste Quantity: 220  
Quantity Unit: G  
Additional Code 1: F003  
Additional Code 2: D038  
Additional Code 3: D001  
Additional Code 4: Not reported  
Additional Code 5: Not reported

Shipment Date: 20081031  
Creation Date: 3/31/2009 18:30:08  
Receipt Date: 20081107  
Manifest ID: 005118664JJK  
Trans EPA ID: CAR000179747  
Trans Name: INGENIUM  
Trans 2 EPA ID: CAD982523433  
Trans 2 Name: DILLARD ENVIRONMENTAL SERVICES  
TSDf EPA ID: ARD981057870  
Trans Name: RINECO  
TSDf Alt EPA ID: Not reported  
TSDf Alt Name: Not reported  
Waste Code Description: 352 - Other organic solids  
RCRA Code: F005  
Meth Code: H061 - Fuel Blending Prior To Energy Recovery At Another Site  
Quantity Tons: 0.2  
Waste Quantity: 400  
Quantity Unit: P  
Additional Code 1: F003  
Additional Code 2: D038  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported

Shipment Date: 20081017  
Creation Date: 3/24/2009 18:30:28  
Receipt Date: 20081027  
Manifest ID: 005118602JJK  
Trans EPA ID: CAR000179747  
Trans Name: INGENIUM  
Trans 2 EPA ID: CAD982523433  
Trans 2 Name: DILLARD ENVIRONMENTAL SERVICES  
TSDf EPA ID: ARD981057870  
Trans Name: RINECO  
TSDf Alt EPA ID: Not reported  
TSDf Alt Name: Not reported  
Waste Code Description: 343 - Unspecified organic liquid mixture  
RCRA Code: F005

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NANOSYN INC (Continued)**

**1000356969**

Meth Code: H061 - Fuel Blending Prior To Energy Recovery At Another Site  
Quantity Tons: 0.935  
Waste Quantity: 275  
Quantity Unit: G  
Additional Code 1: F003  
Additional Code 2: D038  
Additional Code 3: D001  
Additional Code 4: Not reported  
Additional Code 5: Not reported

Shipment Date: 20080922  
Creation Date: 2/17/2009 18:30:08  
Receipt Date: 20081004  
Manifest ID: 005118550JJK  
Trans EPA ID: CAR000179747  
Trans Name: INGENIUM  
Trans 2 EPA ID: CAD982523433  
Trans 2 Name: DILLARD ENVIRONMENTAL SERVICES  
TSDf EPA ID: ARD981057870  
Trans Name: RINECO  
TSDf Alt EPA ID: Not reported  
TSDf Alt Name: Not reported  
Waste Code Description: 343 - Unspecified organic liquid mixture  
RCRA Code: F005

Meth Code: H061 - Fuel Blending Prior To Energy Recovery At Another Site  
Quantity Tons: 0.935  
Waste Quantity: 275  
Quantity Unit: G  
Additional Code 1: F003  
Additional Code 2: D038  
Additional Code 3: D001  
Additional Code 4: Not reported  
Additional Code 5: Not reported

Shipment Date: 20080922  
Creation Date: 2/17/2009 18:30:08  
Receipt Date: 20081004  
Manifest ID: 005118550JJK  
Trans EPA ID: CAR000179747  
Trans Name: INGENIUM  
Trans 2 EPA ID: CAD982523433  
Trans 2 Name: DILLARD ENVIRONMENTAL SERVICES  
TSDf EPA ID: ARD981057870  
Trans Name: RINECO  
TSDf Alt EPA ID: Not reported  
TSDf Alt Name: Not reported  
Waste Code Description: 352 - Other organic solids  
RCRA Code: F005

Meth Code: H061 - Fuel Blending Prior To Energy Recovery At Another Site  
Quantity Tons: 0.2  
Waste Quantity: 400  
Quantity Unit: P  
Additional Code 1: F003  
Additional Code 2: D038  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NANOSYN INC (Continued)**

**1000356969**

Shipment Date: 20080826  
Creation Date: 1/28/2009 18:30:07  
Receipt Date: 20080910  
Manifest ID: 005118505JJK  
Trans EPA ID: CAR000179747  
Trans Name: INGENIUM  
Trans 2 EPA ID: CAD982523433  
Trans 2 Name: DILLARD ENVIRONMENTAL SERVICES  
TSDf EPA ID: ARD981057870  
Trans Name: RINECO  
TSDf Alt EPA ID: Not reported  
TSDf Alt Name: Not reported  
Waste Code Description: 343 - Unspecified organic liquid mixture  
RCRA Code: F005  
Meth Code: H061 - Fuel Blending Prior To Energy Recovery At Another Site  
Quantity Tons: 0.935  
Waste Quantity: 275  
Quantity Unit: G  
Additional Code 1: F003  
Additional Code 2: D038  
Additional Code 3: D001  
Additional Code 4: Not reported  
Additional Code 5: Not reported

Shipment Date: 20080731  
Creation Date: 2/4/2009 18:30:08  
Receipt Date: 20080818  
Manifest ID: 003128523JJK  
Trans EPA ID: CAR000179747  
Trans Name: INGENIUM  
Trans 2 EPA ID: CAD982523433  
Trans 2 Name: DILLARD ENVIRONMENTAL SERVICES  
TSDf EPA ID: ARD981057870  
Trans Name: RINECO  
TSDf Alt EPA ID: Not reported  
TSDf Alt Name: Not reported  
Waste Code Description: 343 - Unspecified organic liquid mixture  
RCRA Code: F005  
Meth Code: - Not reported  
Quantity Tons: 0.748  
Waste Quantity: 220  
Quantity Unit: G  
Additional Code 1: F003  
Additional Code 2: D038  
Additional Code 3: D001  
Additional Code 4: Not reported  
Additional Code 5: Not reported

Additional Info:

Year: 2005  
Gen EPA ID: CAD982343899

Shipment Date: 20051104  
Creation Date: 6/29/2010 18:30:39  
Receipt Date: 20091116  
Manifest ID: 005954355JJK  
Trans EPA ID: CAR000179747

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NANOSYN INC (Continued)**

**1000356969**

Trans Name: INGENIUM  
Trans 2 EPA ID: CAR000179382  
Trans 2 Name: ENV ENVIRONMENTAL INTERNATIONAL  
TSDf EPA ID: ARD981057870  
Trans Name: RINECO  
TSDf Alt EPA ID: Not reported  
TSDf Alt Name: Not reported  
Waste Code Description: 352 - Other organic solids  
RCRA Code: F005  
Meth Code: H061 - Fuel Blending Prior To Energy Recovery At Another Site  
Quantity Tons: 0.225  
Waste Quantity: 450  
Quantity Unit: P  
Additional Code 1: F003  
Additional Code 2: D038  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported

Shipment Date: 20051104  
Creation Date: 6/29/2010 18:30:39  
Receipt Date: 20091116  
Manifest ID: 005954355JJK  
Trans EPA ID: CAR000179747  
Trans Name: INGENIUM  
Trans 2 EPA ID: CAR000179382  
Trans 2 Name: ENV ENVIRONMENTAL INTERNATIONAL  
TSDf EPA ID: ARD981057870  
Trans Name: RINECO  
TSDf Alt EPA ID: Not reported  
TSDf Alt Name: Not reported  
Waste Code Description: 343 - Unspecified organic liquid mixture  
RCRA Code: F005  
Meth Code: H061 - Fuel Blending Prior To Energy Recovery At Another Site  
Quantity Tons: 0.935  
Waste Quantity: 275  
Quantity Unit: G  
Additional Code 1: F003  
Additional Code 2: D038  
Additional Code 3: D001  
Additional Code 4: Not reported  
Additional Code 5: Not reported

Additional Info:

Year: 2002  
Gen EPA ID: CAD982343899

Shipment Date: 20020711  
Creation Date: 3/12/2003 18:31:29  
Receipt Date: 20020723  
Manifest ID: 21803263  
Trans EPA ID: TNR000009183  
Trans Name: Not reported  
Trans 2 EPA ID: Not reported  
Trans 2 Name: Not reported  
TSDf EPA ID: CAD044429835  
Trans Name: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NANOSYN INC (Continued)**

**1000356969**

TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	D99 - Disposal, Other
Quantity Tons:	0.231
Waste Quantity:	55
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20020711
Creation Date:	3/12/2003 18:31:29
Receipt Date:	20020723
Manifest ID:	21803263
Trans EPA ID:	TNR000009183
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD044429835
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	512 - Other empty containers 30 gallons or more
RCRA Code:	Not reported
Meth Code:	D99 - Disposal, Other
Quantity Tons:	0.025
Waste Quantity:	50
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20020612
Creation Date:	1/14/2003 18:31:21
Receipt Date:	20020625
Manifest ID:	20304322
Trans EPA ID:	TNR000009183
Trans Name:	Not reported
Trans 2 EPA ID:	CAT000624247
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD044429835
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	791 - Liquids with pH < 2 792 Liquids with pH < 2 with metals
RCRA Code:	D002
Meth Code:	D99 - Disposal, Other
Quantity Tons:	0.22935
Waste Quantity:	55
Quantity Unit:	G
Additional Code 1:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NANOSYN INC (Continued)**

**1000356969**

Additional Code 2: Not reported  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported

Shipment Date: 20020612  
Creation Date: 1/14/2003 18:31:21  
Receipt Date: 20020625  
Manifest ID: 20304322  
Trans EPA ID: TNR000009183  
Trans Name: Not reported  
Trans 2 EPA ID: CAT000624247  
Trans 2 Name: Not reported  
TSDf EPA ID: CAD044429835  
Trans Name: Not reported  
TSDf Alt EPA ID: Not reported  
TSDf Alt Name: Not reported  
Waste Code Description: 512 - Other empty containers 30 gallons or more  
RCRA Code: Not reported  
Meth Code: D99 - Disposal, Other  
Quantity Tons: 0.01  
Waste Quantity: 20  
Quantity Unit: P  
Additional Code 1: Not reported  
Additional Code 2: Not reported  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported

Shipment Date: 20020612  
Creation Date: 1/14/2003 18:31:21  
Receipt Date: 20020625  
Manifest ID: 20304322  
Trans EPA ID: TNR000009183  
Trans Name: Not reported  
Trans 2 EPA ID: CAT000624247  
Trans 2 Name: Not reported  
TSDf EPA ID: CAD044429835  
Trans Name: Not reported  
TSDf Alt EPA ID: Not reported  
TSDf Alt Name: Not reported  
Waste Code Description: 741 - Liquids with halogenated organic compounds > 1000 mg/l  
RCRA Code: D021  
Meth Code: R01 - Recycler  
Quantity Tons: 0.22935  
Waste Quantity: 55  
Quantity Unit: G  
Additional Code 1: Not reported  
Additional Code 2: Not reported  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported

Shipment Date: 20020605  
Creation Date: 9/18/2002 18:31:39  
Receipt Date: 20020610  
Manifest ID: 20304285

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NANOSYN INC (Continued)**

**1000356969**

Trans EPA ID:	TNR000009183
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980884183
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	141 - Off-specification, aged, or surplus inorganics
RCRA Code:	D002
Meth Code:	D99 - Disposal, Other
Quantity Tons:	0.005
Waste Quantity:	10
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20020605
Creation Date:	1/14/2003 18:31:21
Receipt Date:	20020625
Manifest ID:	20304284
Trans EPA ID:	TNR000009183
Trans Name:	Not reported
Trans 2 EPA ID:	CAT000624247
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD044429835
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.
RCRA Code:	D001
Meth Code:	D99 - Disposal, Other
Quantity Tons:	0.005
Waste Quantity:	10
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20020508
Creation Date:	7/17/2002 18:34:52
Receipt Date:	20020508
Manifest ID:	21162997
Trans EPA ID:	CAD982049306
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAL000051065
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	541 - Photochemicals / photo processing waste

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NANOSYN INC (Continued)**

**1000356969**

RCRA Code:	D011
Meth Code:	R01 - Recycler
Quantity Tons:	0.02085
Waste Quantity:	5
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20020430
Creation Date:	7/17/2002 18:35:51
Receipt Date:	20020508
Manifest ID:	20304133
Trans EPA ID:	TNR000009183
Trans Name:	Not reported
Trans 2 EPA ID:	CAR000088732
Trans 2 Name:	Not reported
TSDf EPA ID:	CAD980884183
Trans Name:	Not reported
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	141 - Off-specification, aged, or surplus inorganics
RCRA Code:	D002
Meth Code:	D99 - Disposal, Other
Quantity Tons:	0.005
Waste Quantity:	10
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20020410
Creation Date:	7/17/2002 18:34:07
Receipt Date:	20020410
Manifest ID:	21162938
Trans EPA ID:	CAD982049306
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDf EPA ID:	CAL000051065
Trans Name:	Not reported
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	541 - Photochemicals / photo processing waste
RCRA Code:	D011
Meth Code:	R01 - Recycler
Quantity Tons:	0.02085
Waste Quantity:	5
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NANOSYN INC (Continued)**

**1000356969**

Additional Code 5: Not reported

Additional Info:

Year: 2001  
Gen EPA ID: CAD982343899

Shipment Date: 20011206  
Creation Date: 1/29/2002 0:00:00  
Receipt Date: Not reported  
Manifest ID: 21168312  
Trans EPA ID: CAD982049306  
Trans Name: Not reported  
Trans 2 EPA ID: Not reported  
Trans 2 Name: Not reported  
TSDf EPA ID: CAL000051065  
Trans Name: Not reported  
TSDf Alt EPA ID: Not reported  
TSDf Alt Name: Not reported  
Waste Code Description: 541 - Photochemicals / photo processing waste  
RCRA Code: D011  
Meth Code: R01 - Recycler  
Quantity Tons: 0.0208  
Waste Quantity: 5  
Quantity Unit: G  
Additional Code 1: Not reported  
Additional Code 2: Not reported  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported

Shipment Date: 20011203  
Creation Date: 2/13/2002 0:00:00  
Receipt Date: 20011210  
Manifest ID: 21405005  
Trans EPA ID: TNR000009183  
Trans Name: Not reported  
Trans 2 EPA ID: Not reported  
Trans 2 Name: Not reported  
TSDf EPA ID: CAD044429835  
Trans Name: Not reported  
TSDf Alt EPA ID: Not reported  
TSDf Alt Name: Not reported  
Waste Code Description: 741 - Liquids with halogenated organic compounds > 1000 mg/l  
RCRA Code: D021  
Meth Code: D99 - Disposal, Other  
Quantity Tons: 0.4587  
Waste Quantity: 110  
Quantity Unit: G  
Additional Code 1: Not reported  
Additional Code 2: Not reported  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported

Shipment Date: 20011129  
Creation Date: 1/16/2002 0:00:00  
Receipt Date: 20011129

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NANOSYN INC (Continued)**

**1000356969**

Manifest ID: 21168301  
Trans EPA ID: CAD982049306  
Trans Name: Not reported  
Trans 2 EPA ID: Not reported  
Trans 2 Name: Not reported  
TSDf EPA ID: CAL000051065  
Trans Name: Not reported  
TSDf Alt EPA ID: Not reported  
TSDf Alt Name: Not reported  
Waste Code Description: 541 - Photochemicals / photo processing waste  
RCRA Code: D011  
Meth Code: R01 - Recycler  
Quantity Tons: 0.0208  
Waste Quantity: 5  
Quantity Unit: G  
Additional Code 1: Not reported  
Additional Code 2: Not reported  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported

Shipment Date: 20011128  
Creation Date: 1/16/2002 0:00:00  
Receipt Date: 20011128  
Manifest ID: 21168292  
Trans EPA ID: CAD982049306  
Trans Name: Not reported  
Trans 2 EPA ID: Not reported  
Trans 2 Name: Not reported  
TSDf EPA ID: CAL000051065  
Trans Name: Not reported  
TSDf Alt EPA ID: Not reported  
TSDf Alt Name: Not reported  
Waste Code Description: 541 - Photochemicals / photo processing waste  
RCRA Code: D011  
Meth Code: R01 - Recycler  
Quantity Tons: 0.0625  
Waste Quantity: 15  
Quantity Unit: G  
Additional Code 1: Not reported  
Additional Code 2: Not reported  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported

Shipment Date: 20011023  
Creation Date: 1/16/2002 0:00:00  
Receipt Date: 20011023  
Manifest ID: 21168283  
Trans EPA ID: CAD982049306  
Trans Name: Not reported  
Trans 2 EPA ID: Not reported  
Trans 2 Name: Not reported  
TSDf EPA ID: CAL000051065  
Trans Name: Not reported  
TSDf Alt EPA ID: Not reported  
TSDf Alt Name: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NANOSYN INC (Continued)**

**1000356969**

Waste Code Description: 541 - Photochemicals / photo processing waste  
RCRA Code: D011  
Meth Code: R01 - Recycler  
Quantity Tons: 0.0208  
Waste Quantity: 5  
Quantity Unit: G  
Additional Code 1: Not reported  
Additional Code 2: Not reported  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported

Shipment Date: 20011018  
Creation Date: 12/17/2001 0:00:00  
Receipt Date: 20011018  
Manifest ID: 21168385  
Trans EPA ID: CAD982049306  
Trans Name: Not reported  
Trans 2 EPA ID: Not reported  
Trans 2 Name: Not reported  
TSDf EPA ID: CAL000051065  
Trans Name: Not reported  
TSDf Alt EPA ID: Not reported  
TSDf Alt Name: Not reported  
Waste Code Description: 541 - Photochemicals / photo processing waste  
RCRA Code: D011  
Meth Code: R01 - Recycler  
Quantity Tons: 0.0208  
Waste Quantity: 5  
Quantity Unit: G  
Additional Code 1: Not reported  
Additional Code 2: Not reported  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported

Shipment Date: 20011015  
Creation Date: 12/17/2001 0:00:00  
Receipt Date: 20011015  
Manifest ID: 21168273  
Trans EPA ID: CAD982049306  
Trans Name: Not reported  
Trans 2 EPA ID: Not reported  
Trans 2 Name: Not reported  
TSDf EPA ID: CAL000051065  
Trans Name: Not reported  
TSDf Alt EPA ID: Not reported  
TSDf Alt Name: Not reported  
Waste Code Description: 541 - Photochemicals / photo processing waste  
RCRA Code: D011  
Meth Code: R01 - Recycler  
Quantity Tons: 0.0417  
Waste Quantity: 10  
Quantity Unit: G  
Additional Code 1: Not reported  
Additional Code 2: Not reported  
Additional Code 3: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NANOSYN INC (Continued)**

**1000356969**

Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20010911
Creation Date:	11/1/2001 0:00:00
Receipt Date:	20010911
Manifest ID:	21168191
Trans EPA ID:	CAD982049306
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDf EPA ID:	CAL000051065
Trans Name:	Not reported
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	541 - Photochemicals / photo processing waste
RCRA Code:	D011
Meth Code:	R01 - Recycler
Quantity Tons:	0.1042
Waste Quantity:	25
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20010809
Creation Date:	10/1/2001 0:00:00
Receipt Date:	20010809
Manifest ID:	21168190
Trans EPA ID:	CAD982049306
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDf EPA ID:	CAL000051065
Trans Name:	Not reported
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	541 - Photochemicals / photo processing waste
RCRA Code:	D011
Meth Code:	R01 - Recycler
Quantity Tons:	0.0417
Waste Quantity:	10
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20010720
Creation Date:	10/1/2001 0:00:00
Receipt Date:	20010730
Manifest ID:	20475207
Trans EPA ID:	TNR000009183
Trans Name:	Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NANOSYN INC (Continued)**

**1000356969**

Trans 2 EPA ID: CAD004778742  
Trans 2 Name: Not reported  
TSDf EPA ID: CAD044429835  
Trans Name: Not reported  
TSDf Alt EPA ID: CAD044429835  
TSDf Alt Name: Not reported  
Waste Code Description: 741 - Liquids with halogenated organic compounds > 1000 mg/l  
RCRA Code: D021  
Meth Code: D99 - Disposal, Other  
Quantity Tons: 0.4587  
Waste Quantity: 110  
Quantity Unit: G  
Additional Code 1: Not reported  
Additional Code 2: Not reported  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported

Additional Info:

Year: 2000  
Gen EPA ID: CAD982343899

Shipment Date: 20001114  
Creation Date: 1/9/2001 0:00:00  
Receipt Date: 20001114  
Manifest ID: 99398129  
Trans EPA ID: CAD982049306  
Trans Name: Not reported  
Trans 2 EPA ID: Not reported  
Trans 2 Name: Not reported  
TSDf EPA ID: CAL000051065  
Trans Name: Not reported  
TSDf Alt EPA ID: Not reported  
TSDf Alt Name: Not reported  
Waste Code Description: 541 - Photochemicals / photo processing waste  
RCRA Code: D011  
Meth Code: R01 - Recycler  
Quantity Tons: 0.0208  
Waste Quantity: 5  
Quantity Unit: G  
Additional Code 1: Not reported  
Additional Code 2: Not reported  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported

Shipment Date: 20001017  
Creation Date: 12/8/2000 0:00:00  
Receipt Date: 20001017  
Manifest ID: 99398128  
Trans EPA ID: CAD982049306  
Trans Name: Not reported  
Trans 2 EPA ID: Not reported  
Trans 2 Name: Not reported  
TSDf EPA ID: CAL000051065  
Trans Name: Not reported  
TSDf Alt EPA ID: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NANOSYN INC (Continued)**

**1000356969**

TSDF Alt Name: Not reported  
Waste Code Description: 541 - Photochemicals / photo processing waste  
RCRA Code: D011  
Meth Code: R01 - Recycler  
Quantity Tons: 0.0208  
Waste Quantity: 5  
Quantity Unit: G  
Additional Code 1: Not reported  
Additional Code 2: Not reported  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported

Shipment Date: 20000925  
Creation Date: 12/8/2000 0:00:00  
Receipt Date: 20000925  
Manifest ID: 99398020  
Trans EPA ID: CAD982049306  
Trans Name: Not reported  
Trans 2 EPA ID: Not reported  
Trans 2 Name: Not reported  
TSDF EPA ID: CAL000051065  
Trans Name: Not reported  
TSDF Alt EPA ID: Not reported  
TSDF Alt Name: Not reported  
Waste Code Description: 541 - Photochemicals / photo processing waste  
RCRA Code: D011  
Meth Code: R01 - Recycler  
Quantity Tons: 0.0208  
Waste Quantity: 5  
Quantity Unit: G  
Additional Code 1: Not reported  
Additional Code 2: Not reported  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported

Shipment Date: 20000814  
Creation Date: 9/25/2000 0:00:00  
Receipt Date: 20000814  
Manifest ID: 96695294  
Trans EPA ID: CAD982049306  
Trans Name: Not reported  
Trans 2 EPA ID: Not reported  
Trans 2 Name: Not reported  
TSDF EPA ID: CAL000051065  
Trans Name: Not reported  
TSDF Alt EPA ID: Not reported  
TSDF Alt Name: Not reported  
Waste Code Description: 541 - Photochemicals / photo processing waste  
RCRA Code: D011  
Meth Code: R01 - Recycler  
Quantity Tons: 0.0208  
Waste Quantity: 5  
Quantity Unit: G  
Additional Code 1: Not reported  
Additional Code 2: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NANOSYN INC (Continued)**

**1000356969**

Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20000530
Creation Date:	7/12/2000 0:00:00
Receipt Date:	20000530
Manifest ID:	96695291
Trans EPA ID:	CAD982049306
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDf EPA ID:	CAL000051065
Trans Name:	Not reported
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	541 - Photochemicals / photo processing waste
RCRA Code:	D011
Meth Code:	R01 - Recycler
Quantity Tons:	0.0208
Waste Quantity:	5
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20000516
Creation Date:	6/21/2000 0:00:00
Receipt Date:	20000516
Manifest ID:	96695266
Trans EPA ID:	CAD982049306
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDf EPA ID:	CAL000051065
Trans Name:	Not reported
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	541 - Photochemicals / photo processing waste
RCRA Code:	D011
Meth Code:	R01 - Recycler
Quantity Tons:	0
Waste Quantity:	5
Quantity Unit:	*
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	1999
Gen EPA ID:	CAD982343899

Shipment Date:	19991215
----------------	----------

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NANOSYN INC (Continued)**

**1000356969**

Creation Date: 2/1/2000 0:00:00  
Receipt Date: 19991215  
Manifest ID: 96695288  
Trans EPA ID: CAD982049306  
Trans Name: Not reported  
Trans 2 EPA ID: Not reported  
Trans 2 Name: Not reported  
TSDF EPA ID: CAL000051065  
Trans Name: Not reported  
TSDF Alt EPA ID: Not reported  
TSDF Alt Name: Not reported  
Waste Code Description: 541 - Photochemicals / photo processing waste  
RCRA Code: D011  
Meth Code: R01 - Recycler  
Quantity Tons: 0.1251  
Waste Quantity: 30  
Quantity Unit: G  
Additional Code 1: Not reported  
Additional Code 2: Not reported  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported

Shipment Date: 19991210  
Creation Date: 2/1/2000 0:00:00  
Receipt Date: 19991210  
Manifest ID: 96695287  
Trans EPA ID: CAD982049306  
Trans Name: Not reported  
Trans 2 EPA ID: Not reported  
Trans 2 Name: Not reported  
TSDF EPA ID: CAL000051065  
Trans Name: Not reported  
TSDF Alt EPA ID: CAL000051065  
TSDF Alt Name: Not reported  
Waste Code Description: 541 - Photochemicals / photo processing waste  
RCRA Code: D011  
Meth Code: R01 - Recycler  
Quantity Tons: 0.1251  
Waste Quantity: 30  
Quantity Unit: G  
Additional Code 1: Not reported  
Additional Code 2: Not reported  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported

Shipment Date: 19991207  
Creation Date: 2/1/2000 0:00:00  
Receipt Date: 19991207  
Manifest ID: 96695286  
Trans EPA ID: CAD982049306  
Trans Name: Not reported  
Trans 2 EPA ID: Not reported  
Trans 2 Name: Not reported  
TSDF EPA ID: CAL000051065  
Trans Name: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NANOSYN INC (Continued)**

**1000356969**

TSDF Alt EPA ID: CAL000051065  
TSDF Alt Name: Not reported  
Waste Code Description: 541 - Photochemicals / photo processing waste  
RCRA Code: D011  
Meth Code: R01 - Recycler  
Quantity Tons: 0.0834  
Waste Quantity: 20  
Quantity Unit: G  
Additional Code 1: Not reported  
Additional Code 2: Not reported  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported

Shipment Date: 19991130  
Creation Date: 1/19/2000 0:00:00  
Receipt Date: 19991130  
Manifest ID: 96695305  
Trans EPA ID: CAD982049306  
Trans Name: Not reported  
Trans 2 EPA ID: Not reported  
Trans 2 Name: Not reported  
TSDF EPA ID: CAL000051065  
Trans Name: Not reported  
TSDF Alt EPA ID: Not reported  
TSDF Alt Name: Not reported  
Waste Code Description: 541 - Photochemicals / photo processing waste  
RCRA Code: D011  
Meth Code: R01 - Recycler  
Quantity Tons: 0.1042  
Waste Quantity: 25  
Quantity Unit: G  
Additional Code 1: Not reported  
Additional Code 2: Not reported  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported

Shipment Date: 19991026  
Creation Date: 12/17/1999 0:00:00  
Receipt Date: 19991026  
Manifest ID: 96695295  
Trans EPA ID: CAD982049306  
Trans Name: Not reported  
Trans 2 EPA ID: Not reported  
Trans 2 Name: Not reported  
TSDF EPA ID: CAL000051065  
Trans Name: Not reported  
TSDF Alt EPA ID: Not reported  
TSDF Alt Name: Not reported  
Waste Code Description: 541 - Photochemicals / photo processing waste  
RCRA Code: D011  
Meth Code: R01 - Recycler  
Quantity Tons: 0.1042  
Waste Quantity: 25  
Quantity Unit: G  
Additional Code 1: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NANOSYN INC (Continued)**

**1000356969**

Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19991012
Creation Date:	12/17/1999 0:00:00
Receipt Date:	19991012
Manifest ID:	96695292
Trans EPA ID:	CAD982049306
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAL000051065
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	541 - Photochemicals / photo processing waste
RCRA Code:	D011
Meth Code:	R01 - Recycler
Quantity Tons:	0.0834
Waste Quantity:	20
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19990910
Creation Date:	11/19/1999 0:00:00
Receipt Date:	19990913
Manifest ID:	99325523
Trans EPA ID:	CAD009452657
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD009452657
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D001
Meth Code:	T03 - Treatment, Incineration
Quantity Tons:	0.01
Waste Quantity:	20
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19990910
Creation Date:	11/19/1999 0:00:00
Receipt Date:	19990913
Manifest ID:	99325523

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NANOSYN INC (Continued)**

**1000356969**

Trans EPA ID:	CAD009452657
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDf EPA ID:	CAD009452657
Trans Name:	Not reported
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	791 - Liquids with pH < 2 792 Liquids with pH < 2 with metals
RCRA Code:	D002
Meth Code:	T03 - Treatment, Incineration
Quantity Tons:	0.006
Waste Quantity:	12
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19990910
Creation Date:	11/19/1999 0:00:00
Receipt Date:	19990913
Manifest ID:	99325523
Trans EPA ID:	CAD009452657
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDf EPA ID:	CAD009452657
Trans Name:	Not reported
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D022
Meth Code:	T03 - Treatment, Incineration
Quantity Tons:	0.0075
Waste Quantity:	15
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19990910
Creation Date:	11/19/1999 0:00:00
Receipt Date:	19990913
Manifest ID:	99325523
Trans EPA ID:	CAD009452657
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDf EPA ID:	CAD009452657
Trans Name:	Not reported
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NANOSYN INC (Continued)**

**1000356969**

RCRA Code: D009  
Meth Code: R01 - Recycler  
Quantity Tons: 0.0035  
Waste Quantity: 7  
Quantity Unit: P  
Additional Code 1: Not reported  
Additional Code 2: Not reported  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported

Additional Info:  
Year: 1998  
Gen EPA ID: CAD982343899

Shipment Date: 19981118  
Creation Date: 3/17/1999 0:00:00  
Receipt Date: 19981118  
Manifest ID: 96873914  
Trans EPA ID: NJD080631369  
Trans Name: Not reported  
Trans 2 EPA ID: CAD004778742  
Trans 2 Name: Not reported  
TSDf EPA ID: CAT080014079  
Trans Name: Not reported  
TSDf Alt EPA ID: CAT080014079  
TSDf Alt Name: Not reported  
Waste Code Description: 213 - Hydrocarbon solvents (benzene, hexane, Stoddard, etc.  
RCRA Code: F002  
Meth Code: H01 - Transfer Station  
Quantity Tons: 0.4  
Waste Quantity: 800  
Quantity Unit: P  
Additional Code 1: Not reported  
Additional Code 2: Not reported  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported

Shipment Date: 19980921  
Creation Date: Not reported  
Receipt Date: Not reported  
Manifest ID: 96636411  
Trans EPA ID: NJD080631369  
Trans Name: Not reported  
Trans 2 EPA ID: CAD004778742  
Trans 2 Name: Not reported  
TSDf EPA ID: CAT080014079  
Trans Name: Not reported  
TSDf Alt EPA ID: CAT080014079  
TSDf Alt Name: Not reported  
Waste Code Description: 551 - Laboratory waste chemicals 561 Detergent and soap  
RCRA Code: P048  
Meth Code: H01 - Transfer Station  
Quantity Tons: 0.001  
Waste Quantity: 2  
Quantity Unit: P



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NANOSYN INC (Continued)**

**1000356969**

Additional Code 1: Not reported  
Additional Code 2: Not reported  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported

Shipment Date: 19980921  
Creation Date: 12/17/1998 0:00:00  
Receipt Date: 19981016  
Manifest ID: 96636412  
Trans EPA ID: NJD080631369  
Trans Name: Not reported  
Trans 2 EPA ID: CAD004778742  
Trans 2 Name: Not reported  
TSDf EPA ID: AZD983473539  
Trans Name: Not reported  
TSDf Alt EPA ID: AZD983473539  
TSDf Alt Name: Not reported  
Waste Code Description: 261 - Not reported  
RCRA Code: Not reported  
Meth Code: R01 - Recycler  
Quantity Tons: 0.1157  
Waste Quantity: 105  
Quantity Unit: K  
Additional Code 1: Not reported  
Additional Code 2: Not reported  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported

Shipment Date: 19980921  
Creation Date: 12/7/1998 0:00:00  
Receipt Date: 19980929  
Manifest ID: 96636411  
Trans EPA ID: NJD080631369  
Trans Name: Not reported  
Trans 2 EPA ID: CAD004778742  
Trans 2 Name: Not reported  
TSDf EPA ID: CAT080014079  
Trans Name: Not reported  
TSDf Alt EPA ID: CAT080014079  
TSDf Alt Name: Not reported  
Waste Code Description: 551 - Laboratory waste chemicals 561 Detergent and soap  
RCRA Code: D001  
Meth Code: H01 - Transfer Station  
Quantity Tons: 0.1  
Waste Quantity: 200  
Quantity Unit: P  
Additional Code 1: Not reported  
Additional Code 2: Not reported  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported

Shipment Date: 19980921  
Creation Date: 12/7/1998 0:00:00  
Receipt Date: 19980929

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NANOSYN INC (Continued)**

**1000356969**

Manifest ID: 96636411  
Trans EPA ID: NJD080631369  
Trans Name: Not reported  
Trans 2 EPA ID: CAD004778742  
Trans 2 Name: Not reported  
TSDf EPA ID: CAT080014079  
Trans Name: Not reported  
TSDf Alt EPA ID: CAT080014079  
TSDf Alt Name: Not reported  
Waste Code Description: 551 - Laboratory waste chemicals 561 Detergent and soap  
RCRA Code: D001  
Meth Code: H01 - Transfer Station  
Quantity Tons: 0.0125  
Waste Quantity: 25  
Quantity Unit: P  
Additional Code 1: Not reported  
Additional Code 2: Not reported  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported

Shipment Date: 19980921  
Creation Date: 12/7/1998 0:00:00  
Receipt Date: 19980929  
Manifest ID: 96636411  
Trans EPA ID: NJD080631369  
Trans Name: Not reported  
Trans 2 EPA ID: CAD004778742  
Trans 2 Name: Not reported  
TSDf EPA ID: CAT080014079  
Trans Name: Not reported  
TSDf Alt EPA ID: CAT080014079  
TSDf Alt Name: Not reported  
Waste Code Description: 551 - Laboratory waste chemicals 561 Detergent and soap  
RCRA Code: D001  
Meth Code: H01 - Transfer Station  
Quantity Tons: 0.005  
Waste Quantity: 10  
Quantity Unit: P  
Additional Code 1: Not reported  
Additional Code 2: Not reported  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported

Shipment Date: 19980921  
Creation Date: 12/7/1998 0:00:00  
Receipt Date: 19980929  
Manifest ID: 96636411  
Trans EPA ID: NJD080631369  
Trans Name: Not reported  
Trans 2 EPA ID: CAD004778742  
Trans 2 Name: Not reported  
TSDf EPA ID: CAT080014079  
Trans Name: Not reported  
TSDf Alt EPA ID: CAT080014079  
TSDf Alt Name: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NANOSYN INC (Continued)**

**1000356969**

Waste Code Description: 551 - Laboratory waste chemicals 561 Detergent and soap  
RCRA Code: D001  
Meth Code: H01 - Transfer Station  
Quantity Tons: 0.1  
Waste Quantity: 200  
Quantity Unit: P  
Additional Code 1: Not reported  
Additional Code 2: Not reported  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported

Shipment Date: 19980921  
Creation Date: Not reported  
Receipt Date: Not reported  
Manifest ID: 96636411  
Trans EPA ID: NJD080631369  
Trans Name: Not reported  
Trans 2 EPA ID: CAD004778742  
Trans 2 Name: Not reported  
TSDf EPA ID: CAT080014079  
Trans Name: Not reported  
TSDf Alt EPA ID: CAT080014079  
TSDf Alt Name: Not reported  
Waste Code Description: 551 - Laboratory waste chemicals 561 Detergent and soap  
RCRA Code: F003  
Meth Code: H01 - Transfer Station  
Quantity Tons: 0.0075  
Waste Quantity: 15  
Quantity Unit: P  
Additional Code 1: Not reported  
Additional Code 2: Not reported  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported

Shipment Date: 19980921  
Creation Date: Not reported  
Receipt Date: Not reported  
Manifest ID: 96636411  
Trans EPA ID: NJD080631369  
Trans Name: Not reported  
Trans 2 EPA ID: CAD004778742  
Trans 2 Name: Not reported  
TSDf EPA ID: CAT080014079  
Trans Name: Not reported  
TSDf Alt EPA ID: CAT080014079  
TSDf Alt Name: Not reported  
Waste Code Description: 551 - Laboratory waste chemicals 561 Detergent and soap  
RCRA Code: Not reported  
Meth Code: H01 - Transfer Station  
Quantity Tons: 0.0025  
Waste Quantity: 5  
Quantity Unit: P  
Additional Code 1: Not reported  
Additional Code 2: Not reported  
Additional Code 3: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NANOSYN INC (Continued)**

**1000356969**

Additional Code 4: Not reported  
Additional Code 5: Not reported  
  
Shipment Date: 19980921  
Creation Date: Not reported  
Receipt Date: Not reported  
Manifest ID: 96636411  
Trans EPA ID: NJD080631369  
Trans Name: Not reported  
Trans 2 EPA ID: CAD004778742  
Trans 2 Name: Not reported  
TSDf EPA ID: CAT080014079  
Trans Name: Not reported  
TSDf Alt EPA ID: CAT080014079  
TSDf Alt Name: Not reported  
Waste Code Description: 551 - Laboratory waste chemicals 561 Detergent and soap  
RCRA Code: D002  
Meth Code: H01 - Transfer Station  
Quantity Tons: 0.0125  
Waste Quantity: 25  
Quantity Unit: P  
Additional Code 1: Not reported  
Additional Code 2: Not reported  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported

**HWTS:**

Name: NANOSYN INC  
Address: 3760 HAVEN AVE  
Address 2: Not reported  
City,State,Zip: MENLO PARK, CA 94025  
EPA ID: CAD982343899  
Inactive Date: 07/26/2011  
Create Date: 06/17/1988  
Last Act Date: Not reported  
Mailing Name: Not reported  
Mailing Address: 3100 CENTRAL EXPY  
Mailing Address 2: Not reported  
Mailing City,State,Zip: SANTA CLARA, CA 950510000  
Owner Name: NIKOLAI SEPETOV  
Owner Address: 3100 CENTRAL EXPRESSWAY  
Owner Address 2: Not reported  
Owner City,State,Zip: SANTA CLARA, CA 950510801  
Contact Name: DENNIS LAGASCA  
Contact Address: 3100 CENTRAL EXPRESSWAY  
Contact Address 2: Not reported  
City,State,Zip: SANTA CLARA, CA 950510801  
Facility Status: Inactive  
Facility Type: PERMANENT  
Category: FEDERAL  
Latitude: 37.48588  
Longitude: -122.17996

**NAICS:**

EPA ID: CAD982343899  
Create Date: 2010-11-22 13:00:50.000

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**NANOSYN INC (Continued)**

**1000356969**

NAICS Code: 325188  
 NAICS Description: All Other Basic Inorganic Chemical Manufacturing  
 Issued EPA ID Date: 1988-06-17 00:00:00  
 Inactive Date: 2011-07-26 00:00:00  
 Facility Name: NANOSYN INC  
 Facility Address: 3760 HAVEN AVE  
 Facility Address 2: Not reported  
 Facility City: MENLO PARK  
 Facility County: Not reported  
 Facility State: CA  
 Facility Zip: 940251012

EPA ID: CAD982343899  
 Create Date: 2009-10-05 14:06:06.340  
 NAICS Code: 325199  
 NAICS Description: All Other Basic Organic Chemical Manufacturing  
 Issued EPA ID Date: 1988-06-17 00:00:00  
 Inactive Date: 2011-07-26 00:00:00  
 Facility Name: NANOSYN INC  
 Facility Address: 3760 HAVEN AVE  
 Facility Address 2: Not reported  
 Facility City: MENLO PARK  
 Facility County: Not reported  
 Facility State: CA  
 Facility Zip: 940251012

**G67**  
**East**  
**< 1/8**  
**0.107 mi.**  
**567 ft.**

**ENGENICS**  
**3760 HAVEN AVE**  
**MENLO PARK, CA 94025**

**RCRA NonGen / NLR**

**1000207933**  
**CAD013070974**

**Site 3 of 6 in cluster G**

**Relative:**  
**Lower**  
**Actual:**  
**6 ft.**

RCRA Listings:  
 Date Form Received by Agency: 19850902  
 Handler Name: ENGENICS  
 Handler Address: 3760 HAVEN AVE  
 Handler City,State,Zip: MENLO PARK, CA 94025  
 EPA ID: CAD013070974  
 Contact Name: ENVIRONMENTAL MANAGER  
 Contact Address: 3760 HAVEN AVE  
 Contact City,State,Zip: MENLO PARK, CA 94025  
 Contact Telephone: 415-345-8222  
 Contact Fax: Not reported  
 Contact Email: Not reported  
 Contact Title: Not reported  
 EPA Region: 09  
 Land Type: Not reported  
 Federal Waste Generator Description: Not a generator, verified  
 Non-Notifier: Not reported  
 Biennial Report Cycle: Not reported  
 Accessibility: Not reported  
 Active Site Indicator: Not reported  
 State District Owner: CA  
 State District: 2  
 Mailing Address: HAVEN AVE  
 Mailing City,State,Zip: MENLO PARK, CA 94025  
 Owner Name: NOT REQUIRED

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**ENGENICS (Continued)**

**1000207933**

Owner Type:		Private
Operator Name:	NOT REQUIRED	
Operator Type:		Private
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No
Smelting Melting and Refining Furnace Exemption:		No
Underground Injection Control:		No
Off-Site Waste Receipt:		No
Universal Waste Indicator:		No
Universal Waste Destination Facility:		No
Federal Universal Waste:		No
Active Site Fed-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site Converter Treatment storage and Disposal Facility:		Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site State-Reg Handler:		---
Federal Facility Indicator:		Not reported
Hazardous Secondary Material Indicator:		NN
Sub-Part K Indicator:		Not reported
Commercial TSD Indicator:		No
Treatment Storage and Disposal Type:		Not reported
2018 GPRA Permit Baseline:		Not on the Baseline
2018 GPRA Renewals Baseline:		Not on the Baseline
Permit Renewals Workload Universe:		Not reported
Permit Workload Universe:		Not reported
Permit Progress Universe:		Not reported
Post-Closure Workload Universe:		Not reported
Closure Workload Universe:		Not reported
202 GPRA Corrective Action Baseline:		No
Corrective Action Workload Universe:		No
Subject to Corrective Action Universe:		No
Non-TSDs Where RCRA CA has Been Imposed Universe:		No
TSDs Potentially Subject to CA Under 3004 (u)/(v) Universe:		No
TSDs Only Subject to CA under Discretionary Auth Universe:		No
Corrective Action Priority Ranking:		No NCAPS ranking
Environmental Control Indicator:		No
Institutional Control Indicator:		No
Human Exposure Controls Indicator:		N/A
Groundwater Controls Indicator:		N/A
Operating TSD Universe:		Not reported
Full Enforcement Universe:		Not reported
Significant Non-Complier Universe:		No
Unaddressed Significant Non-Complier Universe:		No
Addressed Significant Non-Complier Universe:		No
Significant Non-Complier With a Compliance Schedule Universe:		No
Financial Assurance Required:	Not reported	
Handler Date of Last Change:		20000915
Recognized Trader-Importer:		No
Recognized Trader-Exporter:		No
Importer of Spent Lead Acid Batteries:		No
Exporter of Spent Lead Acid Batteries:		No
Recycler Activity Without Storage:		Not reported
Manifest Broker:		Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ENGENICS (Continued)**

**1000207933**

Sub-Part P Indicator: No

Handler - Owner Operator:  
Owner/Operator Indicator: Operator  
Owner/Operator Name: NOT REQUIRED  
Legal Status: Private  
Date Became Current: Not reported  
Date Ended Current: Not reported  
Owner/Operator Address: NOT REQUIRED  
Owner/Operator City,State,Zip: NOT REQUIRED, ME 99999  
Owner/Operator Telephone: 415-555-1212  
Owner/Operator Telephone Ext: Not reported  
Owner/Operator Fax: Not reported  
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner  
Owner/Operator Name: NOT REQUIRED  
Legal Status: Private  
Date Became Current: Not reported  
Date Ended Current: Not reported  
Owner/Operator Address: NOT REQUIRED  
Owner/Operator City,State,Zip: NOT REQUIRED, ME 99999  
Owner/Operator Telephone: 415-555-1212  
Owner/Operator Telephone Ext: Not reported  
Owner/Operator Fax: Not reported  
Owner/Operator Email: Not reported

Historic Generators:  
Receive Date: 19850902  
Handler Name: ENGENICS  
Federal Waste Generator Description: Not a generator, verified  
State District Owner: CA  
Large Quantity Handler of Universal Waste: No  
Recognized Trader Importer: No  
Recognized Trader Exporter: No  
Spent Lead Acid Battery Importer: No  
Spent Lead Acid Battery Exporter: No  
Current Record: Yes  
Non Storage Recycler Activity: Not reported  
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:  
NAICS Codes: No NAICS Codes Found

Facility Has Received Notices of Violations:  
Violations: No Violations Found

Evaluation Action Summary:  
Evaluations: No Evaluations Found

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**G68**  
**East**  
**< 1/8**  
**0.107 mi.**  
**567 ft.**

**NANOSYN**  
**3760 HAVEN AVE.**  
**MENLO PARK, CA 94025**

**RCRA-LQG**    **1012175692**  
**CAL000269914**

**Site 4 of 6 in cluster G**

**Relative:**  
**Lower**  
**Actual:**  
**6 ft.**

RCRA Listings:  
 Date Form Received by Agency: 20100811  
 Handler Name: NANOSYN  
 Handler Address: 3760 HAVEN AVE.  
 Handler City,State,Zip: MENLO PARK, CA 94025  
 EPA ID: CAL000269914  
 Contact Name: DENNIS LAGASCA  
 Contact Address: HAVEN AVE.  
 Contact City,State,Zip: MENLO PARK, CA 94025  
 Contact Telephone: 650-853-7030  
 Contact Fax: 650-853-7031  
 Contact Email: DLAGASCA@NANOSYN.COM  
 Contact Title: MANAGER, A&P DEPT  
 EPA Region: 09  
 Land Type: Private  
 Federal Waste Generator Description: Large Quantity Generator  
 Non-Notifier: Not reported  
 Biennial Report Cycle: 2009  
 Accessibility: Not reported  
 Active Site Indicator: Handler Activities  
 State District Owner: Not reported  
 State District: Not reported  
 Mailing Address: HAVEN AVE.  
 Mailing City,State,Zip: MENLO PARK, CA 94025  
 Owner Name: JEREMY AND LYNN SPIELMAN  
 Owner Type: Private  
 Operator Name: NANOSYN  
 Operator Type: Private  
 Short-Term Generator Activity: No  
 Importer Activity: No  
 Mixed Waste Generator: No  
 Transporter Activity: No  
 Transfer Facility Activity: No  
 Recycler Activity with Storage: No  
 Small Quantity On-Site Burner Exemption: No  
 Smelting Melting and Refining Furnace Exemption: No  
 Underground Injection Control: No  
 Off-Site Waste Receipt: No  
 Universal Waste Indicator: No  
 Universal Waste Destination Facility: No  
 Federal Universal Waste: No  
 Active Site Fed-Reg Treatment Storage and Disposal Facility: Not reported  
 Active Site Converter Treatment storage and Disposal Facility: Not reported  
 Active Site State-Reg Treatment Storage and Disposal Facility: Not reported  
 Active Site State-Reg Handler: ---  
 Federal Facility Indicator: Not reported  
 Hazardous Secondary Material Indicator: NN  
 Sub-Part K Indicator: Not reported  
 Commercial TSD Indicator: No  
 Treatment Storage and Disposal Type: Not reported  
 2018 GPRAs Permit Baseline: Not on the Baseline  
 2018 GPRAs Renewals Baseline: Not on the Baseline  
 Permit Renewals Workload Universe: Not reported



Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**NANOSYN (Continued)**

**1012175692**

Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20101006
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Biennial: List of Years

Year: 2009

[Click Here for Biennial Reporting System Data:](#)

Year: 2007

[Click Here for Biennial Reporting System Data:](#)

Hazardous Waste Summary:

Waste Code:	D001
Waste Description:	IGNITABLE WASTE
Waste Code:	D006
Waste Description:	CADMIUM
Waste Code:	D008
Waste Description:	LEAD
Waste Code:	D011
Waste Description:	SILVER
Waste Code:	D022
Waste Description:	CHLOROFORM
Waste Code:	D038

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NANOSYN (Continued)**

**1012175692**

Waste Description: PYRIDINE

Waste Code: F003  
Waste Description: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste Code: F005  
Waste Description: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Handler - Owner Operator:

Owner/Operator Indicator: Operator  
Owner/Operator Name: NANOSYN  
Legal Status: Private  
Date Became Current: 20030601  
Date Ended Current: Not reported  
Owner/Operator Address: Not reported  
Owner/Operator City,State,Zip: Not reported  
Owner/Operator Telephone: Not reported  
Owner/Operator Telephone Ext: Not reported  
Owner/Operator Fax: Not reported  
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator  
Owner/Operator Name: NANOSYN  
Legal Status: Private  
Date Became Current: 20030601  
Date Ended Current: Not reported  
Owner/Operator Address: Not reported  
Owner/Operator City,State,Zip: Not reported  
Owner/Operator Telephone: Not reported  
Owner/Operator Telephone Ext: Not reported  
Owner/Operator Fax: Not reported  
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner  
Owner/Operator Name: JEREMY AND LYNN SPIELMAN  
Legal Status: Private  
Date Became Current: 19830601  
Date Ended Current: Not reported  
Owner/Operator Address: 150 LYNN WAY  
Owner/Operator City,State,Zip: WOODSIDE, CA 94062  
Owner/Operator Telephone: Not reported  
Owner/Operator Telephone Ext: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NANOSYN (Continued)**

**1012175692**

Owner/Operator Fax: Not reported  
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner  
Owner/Operator Name: JEREMY AND LYNN SPIELMAN  
Legal Status: Private  
Date Became Current: 19830601  
Date Ended Current: Not reported  
Owner/Operator Address: 150 LYNN WAY  
Owner/Operator City,State,Zip: WOODSIDE, CA 94062  
Owner/Operator Telephone: Not reported  
Owner/Operator Telephone Ext: Not reported  
Owner/Operator Fax: Not reported  
Owner/Operator Email: Not reported

Historic Generators:

Receive Date: 20080228  
Handler Name: NANOSYN  
Federal Waste Generator Description: Large Quantity Generator  
State District Owner: Not reported  
Large Quantity Handler of Universal Waste: No  
Recognized Trader Importer: No  
Recognized Trader Exporter: No  
Spent Lead Acid Battery Importer: No  
Spent Lead Acid Battery Exporter: No  
Current Record: No  
Non Storage Recycler Activity: Not reported  
Electronic Manifest Broker: Not reported

Receive Date: 20100811  
Handler Name: NANOSYN  
Federal Waste Generator Description: Large Quantity Generator  
State District Owner: Not reported  
Large Quantity Handler of Universal Waste: No  
Recognized Trader Importer: No  
Recognized Trader Exporter: No  
Spent Lead Acid Battery Importer: No  
Spent Lead Acid Battery Exporter: No  
Current Record: Yes  
Non Storage Recycler Activity: Not reported  
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:

NAICS Code: 325199  
NAICS Description: ALL OTHER BASIC ORGANIC CHEMICAL MANUFACTURING

Facility Has Received Notices of Violations:

Violations: No Violations Found

Evaluation Action Summary:

Evaluations: No Evaluations Found

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**G69**  
**East**  
**< 1/8**  
**0.107 mi.**  
**567 ft.**

**COMCAST OF CALIFORNIA IX INC**  
**3760 HAVEN AVE**  
**MENLO PARK, CA 94025**  
**Site 5 of 6 in cluster G**

**RCRA-SQG**    **1019327183**  
**CAR000263855**

**Relative:**  
**Lower**  
**Actual:**  
**6 ft.**

RCRA Listings:  
 Date Form Received by Agency: 20160602  
 Handler Name: COMCAST OF CALIFORNIA IX INC  
 Handler Address: 3760 HAVEN AVE  
 Handler City,State,Zip: MENLO PARK, CA 94025  
 EPA ID: CAR000263855  
 Contact Name: DEBRA EMERY  
 Contact Address: COMCAST PL  
 Contact City,State,Zip: LIVERMORE, CA 94551  
 Contact Telephone: 925-424-0286  
 Contact Fax: 925-424-0425  
 Contact Email: DEBRA\_EMERY@CABLE.COMCAST.COM  
 Contact Title: REGIONAL ENVIROMENTAL MGR  
 EPA Region: 09  
 Land Type: Private  
 Federal Waste Generator Description: Small Quantity Generator  
 Non-Notifier: Not reported  
 Biennial Report Cycle: Not reported  
 Accessibility: Not reported  
 Active Site Indicator: Handler Activities  
 State District Owner: Not reported  
 State District: Not reported  
 Mailing Address: COMCAST PL  
 Mailing City,State,Zip: LIVERMORE, CA 94551  
 Owner Name: JEREMY SPIELMAN ET AL  
 Owner Type: Private  
 Operator Name: COMCAST OF CALIFORNIA IX INC  
 Operator Type: Private  
 Short-Term Generator Activity: No  
 Importer Activity: No  
 Mixed Waste Generator: No  
 Transporter Activity: No  
 Transfer Facility Activity: No  
 Recycler Activity with Storage: No  
 Small Quantity On-Site Burner Exemption: No  
 Smelting Melting and Refining Furnace Exemption: No  
 Underground Injection Control: No  
 Off-Site Waste Receipt: No  
 Universal Waste Indicator: No  
 Universal Waste Destination Facility: No  
 Federal Universal Waste: No  
 Active Site Fed-Reg Treatment Storage and Disposal Facility: Not reported  
 Active Site Converter Treatment storage and Disposal Facility: Not reported  
 Active Site State-Reg Treatment Storage and Disposal Facility: Not reported  
 Active Site State-Reg Handler: ---  
 Federal Facility Indicator: Not reported  
 Hazardous Secondary Material Indicator: NN  
 Sub-Part K Indicator: Not reported  
 Commercial TSD Indicator: No  
 Treatment Storage and Disposal Type: Not reported  
 2018 GPRA Permit Baseline: Not on the Baseline  
 2018 GPRA Renewals Baseline: Not on the Baseline  
 Permit Renewals Workload Universe: Not reported

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**COMCAST OF CALIFORNIA IX INC (Continued)**

**1019327183**

Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20160622
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Hazardous Waste Summary:

Waste Code: D001  
 Waste Description: IGNITABLE WASTE

Waste Code: D002  
 Waste Description: CORROSIVE WASTE

Waste Code: D004  
 Waste Description: ARSENIC

Waste Code: D005  
 Waste Description: BARIUM

Waste Code: D006  
 Waste Description: CADMIUM

Waste Code: D008  
 Waste Description: LEAD

Waste Code: F005  
 Waste Description: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**COMCAST OF CALIFORNIA IX INC (Continued)**

**1019327183**

LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Handler - Owner Operator:

Owner/Operator Indicator: Owner  
Owner/Operator Name: JEREMY SPIELMAN ET AL  
Legal Status: Private  
Date Became Current: 20140731  
Date Ended Current: Not reported  
Owner/Operator Address: 2685 MARINA WAY STE 1220C  
Owner/Operator City,State,Zip: MOUNTAIN VIEW, CA 94043  
Owner/Operator Telephone: 650-960-1111  
Owner/Operator Telephone Ext: Not reported  
Owner/Operator Fax: Not reported  
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator  
Owner/Operator Name: COMCAST OF CALIFORNIA IX INC  
Legal Status: Private  
Date Became Current: 20120501  
Date Ended Current: Not reported  
Owner/Operator Address: Not reported  
Owner/Operator City,State,Zip: Not reported  
Owner/Operator Telephone: Not reported  
Owner/Operator Telephone Ext: Not reported  
Owner/Operator Fax: Not reported  
Owner/Operator Email: Not reported

Historic Generators:

Receive Date: 20160602  
Handler Name: COMCAST OF CALIFORNIA IX INC  
Federal Waste Generator Description: Small Quantity Generator  
State District Owner: Not reported  
Large Quantity Handler of Universal Waste: No  
Recognized Trader Importer: No  
Recognized Trader Exporter: No  
Spent Lead Acid Battery Importer: No  
Spent Lead Acid Battery Exporter: No  
Current Record: Yes  
Non Storage Recycler Activity: Not reported  
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:

NAICS Code: 515210  
NAICS Description: CABLE AND OTHER SUBSCRIPTION PROGRAMMING

Facility Has Received Notices of Violations:

Violations: No Violations Found

Evaluation Action Summary:

Evaluations: No Evaluations Found

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**G70**  
**East**  
**< 1/8**  
**0.107 mi.**  
**567 ft.**

**ENGENICS INC**  
**3760 HAVEN AVENUE**  
**MENLO PARK, CA 94025**

**CA HIST UST**  
**CA HAZNET**  
**CA HWTS**

**S113126288**  
**N/A**

**Site 6 of 6 in cluster G**

**Relative:**  
**Lower**

HIST UST:

**Actual:**  
**6 ft.**

Name:	ENGENICS INC
Address:	3760 HAVEN AVENUE
City,State,Zip:	MENLO PARK, CA 94025
File Number:	0002C203
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002C203.pdf
Region:	Not reported
Facility ID:	Not reported
Facility Type:	Not reported
Other Type:	Not reported
Contact Name:	Not reported
Telephone:	Not reported
Owner Name:	Not reported
Owner Address:	Not reported
Owner City,St,Zip:	Not reported
Total Tanks:	Not reported
Tank Num:	Not reported
Container Num:	Not reported
Year Installed:	Not reported
Tank Capacity:	Not reported
Tank Used for:	Not reported
Type of Fuel:	Not reported
Container Construction Thickness:	Not reported
Leak Detection:	Not reported

Click here for Geo Tracker PDF:

HAZNET:

Name:	NANOSYN
Address:	3760 HAVEN AVE
Address 2:	Not reported
City,State,Zip:	MENLO PARK, CA 940250000
Contact:	D LAGASCA-MGR ANALYTICAL CHEMI
Telephone:	6508537037
Mailing Name:	Not reported
Mailing Address:	3760 HAVEN AVE
Year:	2008
Gepaid:	CAL000269914
TSD EPA ID:	CAD059494310
CA Waste Code:	352 - Other organic solids
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.695
Year:	2008
Gepaid:	CAL000269914
TSD EPA ID:	ARD981057870
CA Waste Code:	352 - Other organic solids
Disposal Method:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Tons:	0.2

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ENGENICS INC (Continued)**

**S113126288**

Year: 2008  
Gepaid: CAL000269914  
TSD EPA ID: ARD981057870  
CA Waste Code: 343 - Unspecified organic liquid mixture  
Disposal Method: H061 - Fuel Blending Prior To Energy Recovery At Another Site  
Tons: 1.088

Year: 2008  
Gepaid: CAL000269914  
TSD EPA ID: ARD981057870  
CA Waste Code: 343 - Unspecified organic liquid mixture  
Disposal Method: -  
Tons: 0.748

Year: 2008  
Gepaid: CAL000269914  
TSD EPA ID: CAD059494310  
CA Waste Code: 343 - Unspecified organic liquid mixture  
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)  
Tons: 5.372

Year: 2008  
Gepaid: CAL000269914  
TSD EPA ID: ARD981057870  
CA Waste Code: 352 - Other organic solids  
Disposal Method: -  
Tons: 0.25

Year: 2007  
Gepaid: CAL000269914  
TSD EPA ID: CAD980884183  
CA Waste Code: 352 - Other organic solids  
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)  
Tons: 0.325

Year: 2007  
Gepaid: CAL000269914  
TSD EPA ID: CAD980884183  
CA Waste Code: 214 - Unspecified solvent mixture  
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)  
Tons: 1.782

Year: 2007  
Gepaid: CAL000269914  
TSD EPA ID: CAD059494310  
CA Waste Code: 343 - Unspecified organic liquid mixture  
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)  
Tons: 6.12

Year: 2007  
Gepaid: CAL000269914  
TSD EPA ID: CAD059494310  
CA Waste Code: 352 - Other organic solids



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ENGENICS INC (Continued)**

**S113126288**

Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No  
Treatment/Reovery (H010-H129) Or (H131-H135)  
Tons: 0.8

[Click this hyperlink](#) while viewing on your computer to access  
13 additional CA HAZNET: record(s) in the EDR Site Report.

Additional Info:

Year: 2008  
Gen EPA ID: CAL000269914

Shipment Date: 20080627  
Creation Date: 10/30/2008 18:30:54  
Receipt Date: 20080706  
Manifest ID: 003128585JJK  
Trans EPA ID: CAR000179747  
Trans Name: INGENIUM  
Trans 2 EPA ID: CAD982523433  
Trans 2 Name: DILLARD ENVIRONMENTAL SERVICES  
TSDf EPA ID: ARD981057870  
Trans Name: RINECO  
TSDf Alt EPA ID: Not reported  
TSDf Alt Name: Not reported  
Waste Code Description: 343 - Unspecified organic liquid mixture  
RCRA Code: F005  
Meth Code: H061 - Fuel Blending Prior To Energy Recovery At Another Site  
Quantity Tons: 1.088  
Waste Quantity: 320  
Quantity Unit: G  
Additional Code 1: F003  
Additional Code 2: D038  
Additional Code 3: D001  
Additional Code 4: Not reported  
Additional Code 5: Not reported

Shipment Date: 20080627  
Creation Date: 10/30/2008 18:30:54  
Receipt Date: 20080706  
Manifest ID: 003128585JJK  
Trans EPA ID: CAR000179747  
Trans Name: INGENIUM  
Trans 2 EPA ID: CAD982523433  
Trans 2 Name: DILLARD ENVIRONMENTAL SERVICES  
TSDf EPA ID: ARD981057870  
Trans Name: RINECO  
TSDf Alt EPA ID: Not reported  
TSDf Alt Name: Not reported  
Waste Code Description: 352 - Other organic solids  
RCRA Code: F005  
Meth Code: H061 - Fuel Blending Prior To Energy Recovery At Another Site  
Quantity Tons: 0.2  
Waste Quantity: 400  
Quantity Unit: P  
Additional Code 1: F003  
Additional Code 2: D038  
Additional Code 3: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ENGENICS INC (Continued)**

**S113126288**

Additional Code 4: Not reported  
Additional Code 5: Not reported  
  
Shipment Date: 20080527  
Creation Date: 10/30/2008 18:30:54  
Receipt Date: 20080607  
Manifest ID: 003128641JJK  
Trans EPA ID: CAR000179747  
Trans Name: INGENIUM  
Trans 2 EPA ID: CAD982523433  
Trans 2 Name: DILLARD ENVIRONMENTAL SERVICES  
TSDf EPA ID: ARD981057870  
Trans Name: RINECO  
TSDf Alt EPA ID: Not reported  
TSDf Alt Name: Not reported  
Waste Code Description: 343 - Unspecified organic liquid mixture  
RCRA Code: F005  
Meth Code: - Not reported  
Quantity Tons: 0.748  
Waste Quantity: 220  
Quantity Unit: G  
Additional Code 1: F003  
Additional Code 2: D038  
Additional Code 3: D001  
Additional Code 4: Not reported  
Additional Code 5: Not reported

Shipment Date: 20080527  
Creation Date: 10/30/2008 18:30:54  
Receipt Date: 20080607  
Manifest ID: 003128641JJK  
Trans EPA ID: CAR000179747  
Trans Name: INGENIUM  
Trans 2 EPA ID: CAD982523433  
Trans 2 Name: DILLARD ENVIRONMENTAL SERVICES  
TSDf EPA ID: ARD981057870  
Trans Name: RINECO  
TSDf Alt EPA ID: Not reported  
TSDf Alt Name: Not reported  
Waste Code Description: 352 - Other organic solids  
RCRA Code: F005  
Meth Code: - Not reported  
Quantity Tons: 0.25  
Waste Quantity: 500  
Quantity Unit: P  
Additional Code 1: F003  
Additional Code 2: D038  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported

Shipment Date: 20080422  
Creation Date: 6/25/2008 18:30:21  
Receipt Date: 20080425  
Manifest ID: 003128703JJK  
Trans EPA ID: CAR000179747  
Trans Name: INGENIUM

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ENGENICS INC (Continued)**

**S113126288**

Trans 2 EPA ID: Not reported  
Trans 2 Name: Not reported  
TSDf EPA ID: CAD059494310  
Trans Name: CLEAN HARBORS SAN JOSE LLC  
TSDf Alt EPA ID: Not reported  
TSDf Alt Name: Not reported  
Waste Code Description: 343 - Unspecified organic liquid mixture  
RCRA Code: F005  
Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)  
  
Quantity Tons: 1.122  
Waste Quantity: 330  
Quantity Unit: G  
Additional Code 1: F003  
Additional Code 2: D038  
Additional Code 3: D001  
Additional Code 4: Not reported  
Additional Code 5: Not reported  
  
Shipment Date: 20080326  
Creation Date: 5/30/2008 18:30:08  
Receipt Date: 20080328  
Manifest ID: 003128788JJK  
Trans EPA ID: CAR000179747  
Trans Name: INGENIUM  
Trans 2 EPA ID: Not reported  
Trans 2 Name: Not reported  
TSDf EPA ID: CAD059494310  
Trans Name: CLEAN HARBORS SAN JOSE LLC  
TSDf Alt EPA ID: Not reported  
TSDf Alt Name: Not reported  
Waste Code Description: 343 - Unspecified organic liquid mixture  
RCRA Code: F005  
Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)  
  
Quantity Tons: 0.85  
Waste Quantity: 250  
Quantity Unit: G  
Additional Code 1: F003  
Additional Code 2: D038  
Additional Code 3: D001  
Additional Code 4: Not reported  
Additional Code 5: Not reported  
  
Shipment Date: 20080326  
Creation Date: 5/30/2008 18:30:08  
Receipt Date: 20080328  
Manifest ID: 003128788JJK  
Trans EPA ID: CAR000179747  
Trans Name: INGENIUM  
Trans 2 EPA ID: Not reported  
Trans 2 Name: Not reported  
TSDf EPA ID: CAD059494310  
Trans Name: CLEAN HARBORS SAN JOSE LLC  
TSDf Alt EPA ID: Not reported  
TSDf Alt Name: Not reported  
Waste Code Description: 352 - Other organic solids

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ENGENICS INC (Continued)**

**S113126288**

RCRA Code: F005  
Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)  
Quantity Tons: 0.225  
Waste Quantity: 450  
Quantity Unit: P  
Additional Code 1: F003  
Additional Code 2: D038  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported

Shipment Date: 20080321  
Creation Date: 5/30/2008 18:30:08  
Receipt Date: 20080328  
Manifest ID: 003128775JJK  
Trans EPA ID: CAR000179747  
Trans Name: INGENIUM  
Trans 2 EPA ID: Not reported  
Trans 2 Name: Not reported  
TSDf EPA ID: CAD059494310  
Trans Name: CLEAN HARBORS SAN JOSE LLC  
TSDf Alt EPA ID: Not reported  
TSDf Alt Name: Not reported  
Waste Code Description: 352 - Other organic solids  
RCRA Code: F003  
Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)

Quantity Tons: 0.02  
Waste Quantity: 40  
Quantity Unit: P  
Additional Code 1: Not reported  
Additional Code 2: Not reported  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported

Shipment Date: 20080222  
Creation Date: 4/16/2008 18:30:09  
Receipt Date: 20080229  
Manifest ID: 003128742JJK  
Trans EPA ID: CAR000179747  
Trans Name: INGENIUM  
Trans 2 EPA ID: Not reported  
Trans 2 Name: Not reported  
TSDf EPA ID: CAD059494310  
Trans Name: CLEAN HARBORS SAN JOSE LLC  
TSDf Alt EPA ID: Not reported  
TSDf Alt Name: Not reported  
Waste Code Description: 352 - Other organic solids  
RCRA Code: F005  
Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)

Quantity Tons: 0.225  
Waste Quantity: 450  
Quantity Unit: P  
Additional Code 1: F003

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ENGENICS INC (Continued)**

**S113126288**

Additional Code 2:	D038
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20080222
Creation Date:	4/16/2008 18:30:09
Receipt Date:	20080229
Manifest ID:	003128742JJK
Trans EPA ID:	CAR000179747
Trans Name:	INGENIUM
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDf EPA ID:	CAD059494310
Trans Name:	CLEAN HARBORS SAN JOSE LLC
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	343 - Unspecified organic liquid mixture
RCRA Code:	F005
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	1.19
Waste Quantity:	350
Quantity Unit:	G
Additional Code 1:	F003
Additional Code 2:	D038
Additional Code 3:	D001
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Additional Info:	
Year:	2007
Gen EPA ID:	CAL000269914
Shipment Date:	20071213
Creation Date:	3/6/2008 18:30:13
Receipt Date:	20071221
Manifest ID:	003128860JJK
Trans EPA ID:	CAR000179747
Trans Name:	INGENIUM
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDf EPA ID:	CAD059494310
Trans Name:	CLEAN HARBORS SAN JOSE LLC
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	343 - Unspecified organic liquid mixture
RCRA Code:	F005
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	1.02
Waste Quantity:	300
Quantity Unit:	G
Additional Code 1:	F003
Additional Code 2:	D038
Additional Code 3:	D001
Additional Code 4:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ENGENICS INC (Continued)**

**S113126288**

Additional Code 5:	Not reported
Shipment Date:	20071107
Creation Date:	2/4/2008 18:30:26
Receipt Date:	20071109
Manifest ID:	003128917JJK
Trans EPA ID:	CAR000179747
Trans Name:	INGENIUM
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDf EPA ID:	CAD059494310
Trans Name:	CLEAN HARBORS SAN JOSE LLC
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	343 - Unspecified organic liquid mixture
RCRA Code:	F005
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.85
Waste Quantity:	250
Quantity Unit:	G
Additional Code 1:	F003
Additional Code 2:	D038
Additional Code 3:	D001
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20071107
Creation Date:	2/4/2008 18:30:26
Receipt Date:	20071109
Manifest ID:	003128917JJK
Trans EPA ID:	CAR000179747
Trans Name:	INGENIUM
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDf EPA ID:	CAD059494310
Trans Name:	CLEAN HARBORS SAN JOSE LLC
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	F005
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.2
Waste Quantity:	400
Quantity Unit:	P
Additional Code 1:	F003
Additional Code 2:	D038
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20071024
Creation Date:	1/25/2008 18:30:33
Receipt Date:	20071102
Manifest ID:	003128930JJK
Trans EPA ID:	CAR000179747

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ENGENICS INC (Continued)**

**S113126288**

Trans Name:	INGENIUM
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDf EPA ID:	CAD059494310
Trans Name:	CLEAN HARBORS SAN JOSE LLC
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	343 - Unspecified organic liquid mixture
RCRA Code:	F005
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.85
Waste Quantity:	250
Quantity Unit:	G
Additional Code 1:	F003
Additional Code 2:	D038
Additional Code 3:	D001
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20070927
Creation Date:	11/16/2010 11:10:56
Receipt Date:	20071003
Manifest ID:	003128989JJK
Trans EPA ID:	CAR000179747
Trans Name:	INGENIUM
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDf EPA ID:	CAD059494310
Trans Name:	CLEAN HARBORS SAN JOSE LLC
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	343 - Unspecified organic liquid mixture
RCRA Code:	F005
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.68
Waste Quantity:	200
Quantity Unit:	G
Additional Code 1:	F003
Additional Code 2:	D038
Additional Code 3:	D001
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20070927
Creation Date:	11/16/2010 11:10:56
Receipt Date:	20071003
Manifest ID:	003128989JJK
Trans EPA ID:	CAR000179747
Trans Name:	INGENIUM
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDf EPA ID:	CAD059494310
Trans Name:	CLEAN HARBORS SAN JOSE LLC
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ENGENICS INC (Continued)**

**S113126288**

Waste Code Description: 352 - Other organic solids  
RCRA Code: F005  
Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)  
Quantity Tons: 0.2  
Waste Quantity: 400  
Quantity Unit: P  
Additional Code 1: F003  
Additional Code 2: D038  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported

Shipment Date: 20070726  
Creation Date: 12/28/2007 18:31:37  
Receipt Date: 20070727  
Manifest ID: 003128956JJK  
Trans EPA ID: CAR000179747  
Trans Name: INGENIUM  
Trans 2 EPA ID: Not reported  
Trans 2 Name: Not reported  
TSDf EPA ID: CAD059494310  
Trans Name: CLEAN HARBORS SAN JOSE LLC  
TSDf Alt EPA ID: Not reported  
TSDf Alt Name: Not reported  
Waste Code Description: 343 - Unspecified organic liquid mixture  
RCRA Code: F005  
Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)  
Quantity Tons: 1.02  
Waste Quantity: 300  
Quantity Unit: G  
Additional Code 1: F003  
Additional Code 2: D038  
Additional Code 3: D001  
Additional Code 4: Not reported  
Additional Code 5: Not reported

Shipment Date: 20070702  
Creation Date: 11/3/2007 18:30:29  
Receipt Date: 20070705  
Manifest ID: 003128946JJK  
Trans EPA ID: CAR000179747  
Trans Name: INGENIUM  
Trans 2 EPA ID: Not reported  
Trans 2 Name: Not reported  
TSDf EPA ID: CAD059494310  
Trans Name: CLEAN HARBORS SAN JOSE LLC  
TSDf Alt EPA ID: Not reported  
TSDf Alt Name: Not reported  
Waste Code Description: 343 - Unspecified organic liquid mixture  
RCRA Code: F005  
Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)  
Quantity Tons: 0.85  
Waste Quantity: 250  
Quantity Unit: G



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ENGENICS INC (Continued)**

**S113126288**

Additional Code 1:	F003
Additional Code 2:	D038
Additional Code 3:	D001
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20070702
Creation Date:	11/3/2007 18:30:29
Receipt Date:	20070705
Manifest ID:	003128946JJK
Trans EPA ID:	CAR000179747
Trans Name:	INGENIUM
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDf EPA ID:	CAD059494310
Trans Name:	CLEAN HARBORS SAN JOSE LLC
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	F005
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.15
Waste Quantity:	300
Quantity Unit:	P
Additional Code 1:	F003
Additional Code 2:	D038
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20070601
Creation Date:	11/3/2007 18:30:06
Receipt Date:	20070608
Manifest ID:	001937678JJK
Trans EPA ID:	CAR000179747
Trans Name:	INGENIUM
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDf EPA ID:	CAD059494310
Trans Name:	CLEAN HARBORS SAN JOSE LLC
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	343 - Unspecified organic liquid mixture
RCRA Code:	F005
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.85
Waste Quantity:	250
Quantity Unit:	G
Additional Code 1:	F003
Additional Code 2:	D038
Additional Code 3:	D001
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ENGENICS INC (Continued)**

**S113126288**

Additional Info:

Year:	2006
Gen EPA ID:	CAL000269914
Shipment Date:	20061218
Creation Date:	7/25/2008 18:30:08
Receipt Date:	20070105
Manifest ID:	001718554JJK
Trans EPA ID:	CAR000070540
Trans Name:	ADVANCED CHEMICAL TRANSPORT INC
Trans 2 EPA ID:	MAD039322250
Trans 2 Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
TSDF EPA ID:	ARD069748192
Trans Name:	CLEAN HARBORS EL DORADO LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	F005
Meth Code:	H050 - Energy Recovery At This Site--Use As Fuel(Includes On-Site Fuel Blending)
Quantity Tons:	0.792
Waste Quantity:	220
Quantity Unit:	G
Additional Code 1:	F003
Additional Code 2:	D001
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20061218
Creation Date:	7/25/2008 18:30:08
Receipt Date:	20070105
Manifest ID:	001718554JJK
Trans EPA ID:	CAR000070540
Trans Name:	ADVANCED CHEMICAL TRANSPORT INC
Trans 2 EPA ID:	MAD039322250
Trans 2 Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
TSDF EPA ID:	ARD069748192
Trans Name:	CLEAN HARBORS EL DORADO LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	D022
Meth Code:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons:	0.2
Waste Quantity:	400
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20061114
Creation Date:	10/30/2008 18:30:32
Receipt Date:	20061213
Manifest ID:	001717455JJK

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ENGENICS INC (Continued)**

**S113126288**

Trans EPA ID: CAR000070540  
Trans Name: ADVANCED CHEMICAL TRANSPORT INC  
Trans 2 EPA ID: MAD039322250  
Trans 2 Name: CLEAN HARBORS ENVIRONMENTAL SERVICES INC  
TSDf EPA ID: ARD069748192  
Trans Name: CLEAN HARBORS EL DORADO LLC  
TSDf Alt EPA ID: Not reported  
TSDf Alt Name: Not reported  
Waste Code Description: 214 - Unspecified solvent mixture  
RCRA Code: F005  
Meth Code: H50 - Not reported  
Quantity Tons: 0.99  
Waste Quantity: 275  
Quantity Unit: G  
Additional Code 1: F003  
Additional Code 2: D001  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported

Shipment Date: 20061009  
Creation Date: 6/25/2008 18:30:07  
Receipt Date: 20061110  
Manifest ID: 001717032JJK  
Trans EPA ID: CAR000070540  
Trans Name: ADVANCED CHEMICAL TRANSPORT INC  
Trans 2 EPA ID: MAD039322250  
Trans 2 Name: CLEAN HARBORS ENVIRONMENTAL SERVICES INC  
TSDf EPA ID: ARD069748192  
Trans Name: CLEAN HARBORS WILMINGTON LLC  
TSDf Alt EPA ID: Not reported  
TSDf Alt Name: Not reported  
Waste Code Description: 352 - Other organic solids  
RCRA Code: F005  
Meth Code: - Not reported  
Quantity Tons: 0.175  
Waste Quantity: 350  
Quantity Unit: P  
Additional Code 1: F003  
Additional Code 2: D038  
Additional Code 3: D022  
Additional Code 4: Not reported  
Additional Code 5: Not reported

Shipment Date: 20061009  
Creation Date: 6/25/2008 18:30:07  
Receipt Date: 20061110  
Manifest ID: 001717032JJK  
Trans EPA ID: CAR000070540  
Trans Name: ADVANCED CHEMICAL TRANSPORT INC  
Trans 2 EPA ID: MAD039322250  
Trans 2 Name: CLEAN HARBORS ENVIRONMENTAL SERVICES INC  
TSDf EPA ID: ARD069748192  
Trans Name: CLEAN HARBORS WILMINGTON LLC  
TSDf Alt EPA ID: Not reported  
TSDf Alt Name: Not reported  
Waste Code Description: 214 - Unspecified solvent mixture

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ENGENICS INC (Continued)**

**S113126288**

RCRA Code:	F005
Meth Code:	- Not reported
Quantity Tons:	0.792
Waste Quantity:	220
Quantity Unit:	G
Additional Code 1:	F003
Additional Code 2:	D001
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20060901
Creation Date:	10/4/2006 18:30:55
Receipt Date:	Not reported
Manifest ID:	24595423
Trans EPA ID:	CAR000070540
Trans Name:	ADVANCED CHEMICAL TRANSPORT IN
Trans 2 EPA ID:	MAD039322250
Trans 2 Name:	CLEAN HARBORS ENVIRONMENTAL SER
TSDF EPA ID:	CAD044429835
Trans Name:	ENSCO WEST EWI
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D001
Meth Code:	- Not reported
Quantity Tons:	0.9
Waste Quantity:	250
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20060901
Creation Date:	10/4/2006 18:30:55
Receipt Date:	Not reported
Manifest ID:	24595423
Trans EPA ID:	CAR000070540
Trans Name:	ADVANCED CHEMICAL TRANSPORT IN
Trans 2 EPA ID:	MAD039322250
Trans 2 Name:	CLEAN HARBORS ENVIRONMENTAL SER
TSDF EPA ID:	CAD044429835
Trans Name:	ENSCO WEST EWI
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	D022
Meth Code:	- Not reported
Quantity Tons:	0.175
Waste Quantity:	350
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ENGENICS INC (Continued)**

**S113126288**

Additional Code 5:	Not reported
Shipment Date:	20060827
Creation Date:	12/28/2007 18:30:39
Receipt Date:	20070906
Manifest ID:	003128969JJK
Trans EPA ID:	CAR000179747
Trans Name:	INGENIUM
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDf EPA ID:	CAD059494310
Trans Name:	CLEAN HARBORS SAN JOSE LLC
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	F005
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.2
Waste Quantity:	400
Quantity Unit:	P
Additional Code 1:	F003
Additional Code 2:	D038
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20060827
Creation Date:	12/28/2007 18:30:39
Receipt Date:	20070906
Manifest ID:	003128969JJK
Trans EPA ID:	CAR000179747
Trans Name:	INGENIUM
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDf EPA ID:	CAD059494310
Trans Name:	CLEAN HARBORS SAN JOSE LLC
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	343 - Unspecified organic liquid mixture
RCRA Code:	F005
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	1.02
Waste Quantity:	300
Quantity Unit:	G
Additional Code 1:	F003
Additional Code 2:	D038
Additional Code 3:	D001
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20060726
Creation Date:	11/21/2006 18:30:08
Receipt Date:	20060817
Manifest ID:	25200630
Trans EPA ID:	CAR000070540

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ENGENICS INC (Continued)**

**S113126288**

Trans Name: ADVANCED CHEMICAL TRANSPORT IN  
Trans 2 EPA ID: ARD069748192  
Trans 2 Name: TERIS LLC  
TSDf EPA ID: ARD069748192  
Trans Name: TERIS ENS  
TSDf Alt EPA ID: Not reported  
TSDf Alt Name: Not reported  
Waste Code Description: 214 - Unspecified solvent mixture  
RCRA Code: D001  
Meth Code: - Not reported  
Quantity Tons: 0.99  
Waste Quantity: 275  
Quantity Unit: G  
Additional Code 1: Not reported  
Additional Code 2: Not reported  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported

Additional Info:

Year: 2003  
Gen EPA ID: CAL000269914

Shipment Date: 20030917  
Creation Date: 8/3/2004 14:32:18  
Receipt Date: 20031006  
Manifest ID: 22545044  
Trans EPA ID: CAR000070540  
Trans Name: ADVANCED CHEMICAL TRANSPORT INC  
Trans 2 EPA ID: CAD063547996  
Trans 2 Name: PHILIP TRANSPORTATION & REMEDIATION INC  
TSDf EPA ID: NVD980895338  
Trans Name: 21ST CENTURY EMI  
TSDf Alt EPA ID: NVD980895338  
TSDf Alt Name: Not reported  
Waste Code Description: 214 - Unspecified solvent mixture  
RCRA Code: D001  
Meth Code: - Not reported  
Quantity Tons: 0.198  
Waste Quantity: 55  
Quantity Unit: G  
Additional Code 1: Not reported  
Additional Code 2: Not reported  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported

Shipment Date: 20030827  
Creation Date: 8/3/2004 14:31:51  
Receipt Date: 20030917  
Manifest ID: 22545004  
Trans EPA ID: CAR000070540  
Trans Name: Not reported  
Trans 2 EPA ID: CAD063547996  
Trans 2 Name: Not reported  
TSDf EPA ID: NVD980895338  
Trans Name: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ENGENICS INC (Continued)**

**S113126288**

TSDF Alt EPA ID: NVD980895338  
TSDF Alt Name: Not reported  
Waste Code Description: 352 - Other organic solids  
RCRA Code: F003  
Meth Code: T03 - Treatment, Incineration  
Quantity Tons: 0.0375  
Waste Quantity: 75  
Quantity Unit: P  
Additional Code 1: Not reported  
Additional Code 2: Not reported  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported

Shipment Date: 20030827  
Creation Date: 8/3/2004 14:31:51  
Receipt Date: 20030917  
Manifest ID: 22545004  
Trans EPA ID: CAR000070540  
Trans Name: Not reported  
Trans 2 EPA ID: CAD063547996  
Trans 2 Name: Not reported  
TSDF EPA ID: NVD980895338  
Trans Name: Not reported  
TSDF Alt EPA ID: NVD980895338  
TSDF Alt Name: Not reported  
Waste Code Description: 214 - Unspecified solvent mixture  
RCRA Code: D001  
Meth Code: R01 - Recycler  
Quantity Tons: 0.198  
Waste Quantity: 55  
Quantity Unit: G  
Additional Code 1: Not reported  
Additional Code 2: Not reported  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported

Shipment Date: 20030808  
Creation Date: 8/3/2004 14:31:12  
Receipt Date: 20030829  
Manifest ID: 22544965  
Trans EPA ID: CAR000070540  
Trans Name: Not reported  
Trans 2 EPA ID: CAD063547996  
Trans 2 Name: Not reported  
TSDF EPA ID: NVD980895338  
Trans Name: Not reported  
TSDF Alt EPA ID: NVD980895338  
TSDF Alt Name: Not reported  
Waste Code Description: 214 - Unspecified solvent mixture  
RCRA Code: D001  
Meth Code: R01 - Recycler  
Quantity Tons: 0.198  
Waste Quantity: 55  
Quantity Unit: G  
Additional Code 1: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ENGENICS INC (Continued)**

**S113126288**

Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20030721
Creation Date:	7/28/2004 10:46:45
Receipt Date:	20030801
Manifest ID:	22544932
Trans EPA ID:	CAR000070540
Trans Name:	Not reported
Trans 2 EPA ID:	CAD063547996
Trans 2 Name:	Not reported
TSDf EPA ID:	NVD980895333
Trans Name:	Not reported
TSDf Alt EPA ID:	NVD980895338
TSDf Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	F003
Meth Code:	T03 - Treatment, Incineration
Quantity Tons:	0.04
Waste Quantity:	80
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20030721
Creation Date:	7/28/2004 10:46:45
Receipt Date:	20030801
Manifest ID:	22544932
Trans EPA ID:	CAR000070540
Trans Name:	Not reported
Trans 2 EPA ID:	CAD063547996
Trans 2 Name:	Not reported
TSDf EPA ID:	NVD980895333
Trans Name:	Not reported
TSDf Alt EPA ID:	NVD980895338
TSDf Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D001
Meth Code:	R01 - Recycler
Quantity Tons:	0.198
Waste Quantity:	55
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20030627
Creation Date:	7/28/2004 9:54:20
Receipt Date:	20030708
Manifest ID:	22544885



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ENGENICS INC (Continued)**

**S113126288**

Trans EPA ID: CAR000070540  
Trans Name: Not reported  
Trans 2 EPA ID: CAD063547996  
Trans 2 Name: Not reported  
TSDf EPA ID: NVD980895338  
Trans Name: Not reported  
TSDf Alt EPA ID: NVD980895338  
TSDf Alt Name: Not reported  
Waste Code Description: 214 - Unspecified solvent mixture  
RCRA Code: D001  
Meth Code: R01 - Recycler  
Quantity Tons: 0.198  
Waste Quantity: 55  
Quantity Unit: G  
Additional Code 1: Not reported  
Additional Code 2: Not reported  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported

Shipment Date: 20030609  
Creation Date: 7/20/2004 12:52:02  
Receipt Date: 20030623  
Manifest ID: 22544836  
Trans EPA ID: CAR000070540  
Trans Name: Not reported  
Trans 2 EPA ID: CAD063547996  
Trans 2 Name: Not reported  
TSDf EPA ID: NVD980895338  
Trans Name: Not reported  
TSDf Alt EPA ID: NVD980895338  
TSDf Alt Name: Not reported  
Waste Code Description: 352 - Other organic solids  
RCRA Code: F003  
Meth Code: T03 - Treatment, Incineration  
Quantity Tons: 0.05  
Waste Quantity: 100  
Quantity Unit: P  
Additional Code 1: Not reported  
Additional Code 2: Not reported  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported

Shipment Date: 20030609  
Creation Date: 7/20/2004 12:52:02  
Receipt Date: 20030623  
Manifest ID: 22544836  
Trans EPA ID: CAR000070540  
Trans Name: Not reported  
Trans 2 EPA ID: CAD063547996  
Trans 2 Name: Not reported  
TSDf EPA ID: NVD980895338  
Trans Name: Not reported  
TSDf Alt EPA ID: NVD980895338  
TSDf Alt Name: Not reported  
Waste Code Description: 214 - Unspecified solvent mixture

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ENGENICS INC (Continued)**

**S113126288**

RCRA Code: D001  
Meth Code: R01 - Recycler  
Quantity Tons: 0.198  
Waste Quantity: 55  
Quantity Unit: G  
Additional Code 1: Not reported  
Additional Code 2: Not reported  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported

**HWTS:**

Name: NANOSYN  
Address: 3760 HAVEN AVE  
Address 2: Not reported  
City,State,Zip: MENLO PARK, CA 94025  
EPA ID: CAL000269914  
Inactive Date: 08/29/2008  
Create Date: 05/02/2003  
Last Act Date: Not reported  
Mailing Name: Not reported  
Mailing Address: 3760 HAVEN AVE  
Mailing Address 2: Not reported  
Mailing City,State,Zip: MENLO PARK, CA 940250000  
Owner Name: NIKOLAI SEPETOV  
Owner Address: 3760 HAVEN AVE  
Owner Address 2: Not reported  
Owner City,State,Zip: MENLO PARK, CA 940250000  
Contact Name: D LAGASCA-MGR ANALYTICAL CHEMI  
Contact Address: 3760 HAVEN AVE  
Contact Address 2: Not reported  
City,State,Zip: MENLO PARK, CA 940250000  
Facility Status: Inactive  
Facility Type: PERMANENT  
Category: STATE  
Latitude: 37.486853  
Longitude: -122.181047

**NAICS:**

EPA ID: CAL000269914  
Create Date: 2004-10-20 10:23:57.043  
NAICS Code: 325199  
NAICS Description: All Other Basic Organic Chemical Manufacturing  
Issued EPA ID Date: 2003-05-02 10:39:15.11000  
Inactive Date: 2008-08-29 00:00:00  
Facility Name: NANOSYN  
Facility Address: 3760 HAVEN AVE  
Facility Address 2: Not reported  
Facility City: MENLO PARK  
Facility County: Not reported  
Facility State: CA  
Facility Zip: 940250000

MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Site

Database(s)

EDR ID Number  
EPA ID Number

**H71**  
**West**  
**< 1/8**  
**0.117 mi.**  
**620 ft.**

**A J EITNER REPAIRS**  
**3624 HAVEN**  
**REDWOOD CITY, CA 94063**

**Site 1 of 26 in cluster H**

**CA San Mateo Co. BI**    **S113755220**  
**N/A**

**Relative:**  
**Higher**

**Actual:**  
**12 ft.**

San Mateo Co. BI:

Name: A J EITNER REPAIRS  
Address: 3624 HAVEN  
City,State,Zip: REDWOOD CITY, CA 94063  
Region: SAN MATEO  
Facility ID: FA0002354  
Prog Element Code: STORES MV FUELS OR WASTE ONLY  
Record Id: PR0003955  
Description: STORES MV FUELS OR WASTE ONLY  
Facility Status: Inactive, non-billable  
Program Category: BUSINESS PLAN PROGRAM

Name: A J EITNER REPAIRS  
Address: 3624 HAVEN  
City,State,Zip: REDWOOD CITY, CA 94063  
Region: SAN MATEO  
Facility ID: FA0002354  
Prog Element Code: GENERATES and RECYCLES WASTE OIL/SOLVENT  
Record Id: PR0011179  
Description: GENERATES & RECYCLES WASTE OIL/SOLVENT  
Facility Status: Inactive, non-billable  
Program Category: HAZARDOUS WASTE PROGRAM

**H72**  
**West**  
**< 1/8**  
**0.117 mi.**  
**620 ft.**

**C F ARCHIBALD PAVING INC**  
**3624 HAVEN AVE**  
**REDWOOD CITY, CA 94063**

**Site 2 of 26 in cluster H**

**CA San Mateo Co. BI**    **S113755878**  
**CA HAZNET**    **N/A**  
**CA HWTS**

**Relative:**  
**Higher**

**Actual:**  
**12 ft.**

San Mateo Co. BI:

Name: C F ARCHIBALD PAVING INC  
Address: 3624 HAVEN  
City,State,Zip: REDWOOD CITY, CA 94063  
Region: SAN MATEO  
Facility ID: FA0012927  
Prog Element Code: GENERATES and RECYCLES WASTE OIL/SOLVENT  
Record Id: PR0011313  
Description: GENERATES & RECYCLES WASTE OIL/SOLVENT  
Facility Status: Inactive, non-billable  
Program Category: HAZARDOUS WASTE PROGRAM

Name: C F ARCHIBALD PAVING INC  
Address: 3624 HAVEN  
City,State,Zip: REDWOOD CITY, CA 94063  
Region: SAN MATEO  
Facility ID: FA0012927  
Prog Element Code: STORMWATER ANNUAL INSPECTION FEE  
Record Id: PR0040778  
Description: STORMWATER ANNUAL FEE - INSP FREQ EVERY 2 YRS  
Facility Status: Inactive, non-billable  
Program Category: STORMWATER

Name: C F ARCHIBALD PAVING INC  
Address: 3624 HAVEN

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**C F ARCHIBALD PAVING INC (Continued)**

**S113755878**

City,State,Zip: REDWOOD CITY, CA 94063  
Region: SAN MATEO  
Facility ID: FA0012927  
Prog Element Code: STORES HAZ MAT <1,199GAL,9,999LB,4,799FT3  
Record Id: PR0003956  
Description: STORES HAZ MAT <1,199GAL,9,999LB,4,799CF  
Facility Status: Inactive, non-billable  
Program Category: BUSINESS PLAN PROGRAM

**HAZNET:**

Name: C F ARCHIBALD PAVING INC  
Address: 3624 HAVEN AVE  
Address 2: Not reported  
City,State,Zip: REDWOOD CITY, CA 940634604  
Contact: PATRICK V. COLLINS, GEN MGR  
Telephone: 6503643045  
Mailing Name: Not reported  
Mailing Address: PO BOX 37

Year: 2014  
Gepaid: CAL000260738  
TSD EPA ID: CAD097030993  
CA Waste Code: 352 - Other organic solids  
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)  
Tons: 0.16

Year: 2013  
Gepaid: CAL000260738  
TSD EPA ID: CAD008252405  
CA Waste Code: 343 - Unspecified organic liquid mixture  
Disposal Method: H061 - Fuel Blending Prior To Energy Recovery At Another Site  
Tons: 0.17

Year: 2013  
Gepaid: CAL000260738  
TSD EPA ID: CAD097030993  
CA Waste Code: 352 - Other organic solids  
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)  
Tons: 0.2

Year: 2013  
Gepaid: CAL000260738  
TSD EPA ID: CAD982444481  
CA Waste Code: 291 - Latex waste  
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)  
Tons: 0.1251

**Additional Info:**

Year: 2014  
Gen EPA ID: CAL000260738

Shipment Date: 20140624

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**C F ARCHIBALD PAVING INC (Continued)**

**S113755878**

Creation Date: 8/26/2014 22:15:05  
Receipt Date: 20140707  
Manifest ID: 013075999JJK  
Trans EPA ID: CAD028277036  
Trans Name: ASBURY ENVIRONMENTAL SERVICES  
Trans 2 EPA ID: Not reported  
Trans 2 Name: Not reported  
TSDf EPA ID: CAD097030993  
Trans Name: EVOQUA WATER TECHNOLOGIES LLC  
TSDf Alt EPA ID: Not reported  
TSDf Alt Name: Not reported  
Waste Code Description: 352 - Other organic solids  
RCRA Code: Not reported  
Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)  
  
Quantity Tons: 0.16  
Waste Quantity: 320  
Quantity Unit: P  
Additional Code 1: Not reported  
Additional Code 2: Not reported  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported

Additional Info:

Year: 2013  
Gen EPA ID: CAL000260738

Shipment Date: 20130703  
Creation Date: 12/19/2013 22:15:06  
Receipt Date: 20130717  
Manifest ID: 011133898JJK  
Trans EPA ID: CAR000217513  
Trans Name: ENVIRONMENTAL LOGISTICS INC  
Trans 2 EPA ID: Not reported  
Trans 2 Name: Not reported  
TSDf EPA ID: CAD008252405  
Trans Name: PACIFIC RESOURCE RECOVERY  
TSDf Alt EPA ID: Not reported  
TSDf Alt Name: Not reported  
Waste Code Description: 343 - Unspecified organic liquid mixture  
RCRA Code: D001  
Meth Code: H061 - Fuel Blending Prior To Energy Recovery At Another Site  
Quantity Tons: 0.17  
Waste Quantity: 50  
Quantity Unit: G  
Additional Code 1: Not reported  
Additional Code 2: Not reported  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported

Shipment Date: 20130703  
Creation Date: 9/22/2013 22:15:08  
Receipt Date: 20130712  
Manifest ID: 011133899JJK  
Trans EPA ID: CAR000217513

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**C F ARCHIBALD PAVING INC (Continued)**

**S113755878**

Trans Name: ENVIRONMENTAL LOGISTICS INC  
Trans 2 EPA ID: Not reported  
Trans 2 Name: Not reported  
TSDf EPA ID: CAD982444481  
Trans Name: FILTER RECYCLING SERVICES INC  
TSDf Alt EPA ID: Not reported  
TSDf Alt Name: Not reported  
Waste Code Description: 291 - Latex waste  
RCRA Code: Not reported  
Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)  
  
Quantity Tons: 0.1251  
Waste Quantity: 30  
Quantity Unit: G  
Additional Code 1: Not reported  
Additional Code 2: Not reported  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported  
  
Shipment Date: 20130226  
Creation Date: 5/1/2013 22:15:05  
Receipt Date: 20130311  
Manifest ID: 010862593JJK  
Trans EPA ID: CAD028277036  
Trans Name: ASBURY ENVIRONMENTAL SERVICES  
Trans 2 EPA ID: Not reported  
Trans 2 Name: Not reported  
TSDf EPA ID: CAD097030993  
Trans Name: SIEMENS INDUSTRY INC  
TSDf Alt EPA ID: Not reported  
TSDf Alt Name: Not reported  
Waste Code Description: 352 - Other organic solids  
RCRA Code: Not reported  
Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)  
  
Quantity Tons: 0.2  
Waste Quantity: 400  
Quantity Unit: P  
Additional Code 1: Not reported  
Additional Code 2: Not reported  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported

**HWTS:**

Name: C F ARCHIBALD PAVING INC  
Address: 3624 HAVEN AVE  
Address 2: Not reported  
City,State,Zip: REDWOOD CITY, CA 94063  
EPA ID: CAL000260738  
Inactive Date: 06/30/2015  
Create Date: 10/15/2002  
Last Act Date: Not reported  
Mailing Name: Not reported  
Mailing Address: PO BOX 37  
Mailing Address 2: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**C F ARCHIBALD PAVING INC (Continued)**

**S113755878**

Mailing City,State,Zip: REDWOOD CITY, CA 940640037  
Owner Name: C F ARCHIBALD PAVING INC  
Owner Address: PO BOX 37  
Owner Address 2: Not reported  
Owner City,State,Zip: REDWOOD CITY, CA 940640000  
Contact Name: PATRICK V. COLLINS, GEN MGR  
Contact Address: PO BOX 37  
Contact Address 2: Not reported  
City,State,Zip: REDWOOD CITY, CA 940640000  
Facility Status: Inactive  
Facility Type: PERMANENT  
Category: STATE  
Latitude: 37.485852  
Longitude: -122.185186

**NAICS:**

EPA ID: CAL000260738  
Create Date: 2002-10-15 11:39:02.047  
NAICS Code: 23411  
NAICS Description: Highway and Street Construction  
Issued EPA ID Date: 2002-10-15 11:39:02.04700  
Inactive Date: 2015-06-30 00:00:00  
Facility Name: C F ARCHIBALD PAVING INC  
Facility Address: 3624 HAVEN AVE  
Facility Address 2: Not reported  
Facility City: REDWOOD CITY  
Facility County: Not reported  
Facility State: CA  
Facility Zip: 940634604

**H73**  
**West**  
**< 1/8**  
**0.117 mi.**  
**620 ft.**

**ANGIES POOL REPAIR**  
**3624 HAVEN**  
**REDWOOD CITY, CA 94063**  
**Site 3 of 26 in cluster H**

**CA San Mateo Co. BI S113756128**  
**N/A**

**Relative:**  
**Higher**  
**Actual:**  
**12 ft.**

San Mateo Co. BI:  
Name: ANGIES POOL REPAIR  
Address: 3624 HAVEN  
City,State,Zip: REDWOOD CITY, CA 94063  
Region: SAN MATEO  
Facility ID: FA0015580  
Prog Element Code: STORES HAZ MAT <219GAL,1,999LB, 879FT3  
Record Id: PR0004012  
Description: STORES HAZ MAT <219GAL,1,999LB, 879CF  
Facility Status: Inactive, non-billable  
Program Category: BUSINESS PLAN PROGRAM  
  
Name: ANGIES POOL REPAIR  
Address: 3624 HAVEN  
City,State,Zip: REDWOOD CITY, CA 94063  
Region: SAN MATEO  
Facility ID: FA0015580  
Prog Element Code: STORMWATER ANNUAL INSPECTION FEE  
Record Id: PR0040823  
Description: STORMWATER ANNUAL FEE - INSP FREQ EVERY 2 YRS  
Facility Status: Inactive, non-billable

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**ANGIES POOL REPAIR (Continued)**

**S113756128**

Program Category: STORMWATER

**H74**  
**West**  
**< 1/8**  
**0.120 mi.**  
**631 ft.**

**ANTON MENLO**  
**3605- 3639 HAVEN AVE**  
**MENLO PARK, CA**

**CA LUST** **S113186755**  
**N/A**

**Site 4 of 26 in cluster H**

**Relative:**  
**Higher**  
**Actual:**  
**11 ft.**

**SAN MATEO CO. LUST:**  
 Name: ANTON MENLO  
 Address: 3605- 3639 HAVEN AVE  
 City,State,Zip: MENLO PARK, CA  
 Region: SAN MATEO  
 Facility ID: 449088  
 Facility Status: 9- Case Closed  
 Global ID: T10000004645  
 APN Number: Not reported  
 Case Type: MENLO PARK, CA  
 EDR Link ID: MENLO PARK, CA

**H75**  
**WNW**  
**< 1/8**  
**0.120 mi.**  
**635 ft.**

**TIMBERLINE TREE SERVICE, INC.**  
**3615 HAVEN AVENUE**  
**MENLO PARK, CA 94025**

**CA SWF/LF** **S124805087**  
**CA HWTS** **N/A**

**Site 5 of 26 in cluster H**

**Relative:**  
**Higher**  
**Actual:**  
**11 ft.**

**SWF/LF (SWIS):**  
 Name: TIMBERLINE TREE SERVICE, INC.  
 Address: 3615 HAVEN AVENUE  
 City,State,Zip: MENLO PARK, CA 94025  
 Region: STATE  
 Facility ID: 41-AA-0187  
 SWIS Number: 41-AA-0187  
 Point of Contact: Kelsey Orr  
 Is Archived: Yes  
 Is Closed Illegal Abandoned: No  
 Is Site Inert Debris Engineered Fill: No  
 Is Financial Assurances Responsible: No  
 Absorbed On: Not reported  
 Operational Status: Closed  
 Absorbed By: Not reported  
 Closed Illegal Abandoned Category: Not reported  
 EPA Federal Registry ID: Not reported  
 ARB District: Bay Area  
 SWRCB Region: San Francisco Bay  
 Local Government: Menlo Park  
 Reporting Agency Legal Name: County of San Mateo  
 Reporting Agency Department: Health Department, Environmental Health Services Division  
 Enforcing Agency Legal Name: County of San Mateo  
 Enforcing Agency Department: Health Department, Environmental Health Services Division  
 Regulation Status: Notification

**Operator:**  
 SWIS Number: 41-AA-0187  
 Site Name: Timberline Tree Service, Inc.  
 Site Operational Status: Closed  
 Site Type: Non-Disposal Only



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**TIMBERLINE TREE SERVICE, INC. (Continued)**

**S124805087**

Site Regulatory Status: Notification  
Latitude: 37.48735  
Longitude: -122.18466  
Is Archived: Yes  
Operator: Timberline Tree Service, Inc.  
Started On: Not reported  
Contact Name: Not reported  
Contact Title: Not reported  
Contact Email: Not reported  
Contact Phone: (650) 595-2310  
Street Address: Steve Willet 350 Laqng Road  
Operator City: Burlingame  
Operator State: CA  
Operator Zip: 94010

**Owner:**

SWIS Number: 41-AA-0187  
Owner: Three Sisters Ranch Enterprises, LLC  
Owner Address: James Zanotti 975 Industrail Road, Suite A  
Owner City: San Carlos  
Owner State: CA  
Owner Zip: 94070  
Site Name: Timberline Tree Service, Inc.  
Site Operational Status: Closed  
Site Type: Non-Disposal Only  
Site Regulatory Status: Notification  
Latitude: 37.48735  
Longitude: -122.18466  
Is Archived: Yes  
Started On: Not reported  
Contact Name: Not reported  
Contact Title: Not reported  
Contact Email: Not reported  
Contact Phone: Not reported

**Waste:**

SWIS Number: 41-AA-0187  
Site Name: Timberline Tree Service, Inc.  
Activity: Chipping and Grinding Facility/Operation  
Waste Type: Green Materials  
Site Is Archived: Yes  
Site Operational Status: Closed  
Site Regulatory Status: Notification  
Site Type: Non-Disposal Only  
Point of Contact: Kelsey Orr  
Activity Is Archived: Yes  
Activity Operational Status: Closed  
Activity Regulatory Status: Notification  
Activity Category: Composting  
Activity Classification: Solid Waste Facility

**HWTS:**

Name: ALL CAR AUTO DISMANTLERS  
Address: 3615 HAVEN AVE  
Address 2: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**TIMBERLINE TREE SERVICE, INC. (Continued)**

**S124805087**

City,State,Zip: MENLO PARK, CA 94025  
EPA ID: CAL000127046  
Inactive Date: 06/30/1998  
Create Date: 03/21/1994  
Last Act Date: Not reported  
Mailing Name: Not reported  
Mailing Address: 3615 HAVEN AVE  
Mailing Address 2: Not reported  
Mailing City,State,Zip: MENLO PARK, CA 940251010  
Owner Name: LEONARD BELASKI  
Owner Address: 3615 HAVEN AVE  
Owner Address 2: Not reported  
Owner City,State,Zip: MENLO PARK, CA 940251010  
Contact Name: LEONARD BELASKI  
Contact Address: INACT PER NONDELIVERABLE VQ98 NK  
Contact Address 2: Not reported  
City,State,Zip: MENLO PARK, CA 940251010  
Facility Status: Inactive  
Facility Type: PERMANENT  
Category: STATE  
Latitude: 37.486071  
Longitude: -122.185713

**H76  
WNW  
< 1/8  
0.120 mi.  
635 ft.**

**CAMENZIND DREDGING  
3615 HAVEN  
MENLO PARK, CA 94025**

**CA San Mateo Co. BI S105428992  
N/A**

**Site 6 of 26 in cluster H**

**Relative:  
Higher  
Actual:  
11 ft.**

San Mateo Co. BI:  
Name: CAMENZIND DREDGING  
Address: 3615 HAVEN  
City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0022624  
Prog Element Code: STORES HAZ MAT <219GAL,1,999LB, 879FT3  
Record Id: PR0025050  
Description: STORES HAZ MAT <219GAL,1,999LB, 879CF  
Facility Status: Inactive, non-billable  
Program Category: BUSINESS PLAN PROGRAM

Name: CAMENZIND DREDGING  
Address: 3615 HAVEN  
City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0022624  
Prog Element Code: STORMWATER ANNUAL INSPECTION FEE  
Record Id: PR0040602  
Description: STORMWATER ANNUAL FEE - INSP FREQ EVERY 2 YRS  
Facility Status: Inactive, non-billable  
Program Category: STORMWATER

Name: J D GIUSTI TRANSPORATION  
Address: 3615 HAVEN  
City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0022892  
Prog Element Code: GENERATES and RECYCLES WASTE OIL/SOLVENT

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CAMENZIND DREDGING (Continued)**

**S105428992**

Record Id: PR0025754  
Description: GENERATES & RECYCLES WASTE OIL/SOLVENT  
Facility Status: Inactive, non-billable  
Program Category: HAZARDOUS WASTE PROGRAM

Name: J D GIUSTI TRANSPORATION  
Address: 3615 HAVEN  
City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0022892  
Prog Element Code: STORES MV FUELS OR WASTE ONLY  
Record Id: PR0025755  
Description: STORES MV FUELS OR WASTE ONLY  
Facility Status: Inactive, non-billable  
Program Category: BUSINESS PLAN PROGRAM

Name: J D GIUSTI TRANSPORATION  
Address: 3615 HAVEN  
City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0022892  
Prog Element Code: STORMWATER ANNUAL INSPECTION FEE  
Record Id: PR0040610  
Description: STORMWATER ANNUAL FEE - INSP FREQ EVERY 2 YRS  
Facility Status: Inactive, non-billable  
Program Category: STORMWATER

Name: ALL CAR AUTO DISMANTLERS  
Address: 3615 HAVEN  
City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0016417  
Prog Element Code: STORES HAZ MAT <219GAL,1,999LB, 879FT3  
Record Id: PR0004190  
Description: STORES HAZ MAT <219GAL,1,999LB, 879CF  
Facility Status: Inactive, non-billable  
Program Category: BUSINESS PLAN PROGRAM

Name: ALL CAR AUTO DISMANTLERS  
Address: 3615 HAVEN  
City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0016417  
Prog Element Code: GENERATES and RECYCLES WASTE OIL/SOLVENT  
Record Id: PR0011526  
Description: GENERATES & RECYCLES WASTE OIL/SOLVENT  
Facility Status: Inactive, non-billable  
Program Category: HAZARDOUS WASTE PROGRAM

Name: REDWOOD GARDEN & BLDG. MATERIA  
Address: 3615 HAVEN  
City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0026855  
Prog Element Code: STORMWATER ANNUAL INSPECTION FEE  
Record Id: PR0040666  
Description: STORMWATER ANNUAL FEE - INSP FREQ EVERY 2 YRS

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**CAMENZIND DREDGING (Continued)**

**S105428992**

Facility Status: Inactive, non-billable  
 Program Category: STORMWATER

Name: REDWOOD GARDEN & BLDG. MATERIA  
 Address: 3615 HAVEN  
 City,State,Zip: MENLO PARK, CA 94025  
 Region: SAN MATEO  
 Facility ID: FA0026855  
 Prog Element Code: GENERATES and RECYCLES WASTE OIL/SOLVENT  
 Record Id: PR0039838  
 Description: GENERATES & RECYCLES WASTE OIL/SOLVENT  
 Facility Status: Inactive, non-billable  
 Program Category: HAZARDOUS WASTE PROGRAM

**F77**  
**ENE**  
**1/8-1/4**  
**0.129 mi.**  
**682 ft.**

**NANOSYN**  
**37.48658/-122.17976**  
**MENLO PARK, CA**  
**Site 4 of 4 in cluster F**

**PFAS ECHO 1027391443**  
**N/A**

**Relative:**  
**Lower**  
**Actual:**  
**8 ft.**

**PFAS ECHO:**  
 Name: NANOSYN  
 Address: 37.48658/-122.17976  
 City,State,Zip: MENLO PARK, CA  
 Latitude: 37.48658  
 Longitude: -122.17976  
 Count: -1  
 County: SAN MATEO  
 Status: Active  
 Region: 09  
 Industry: Chemical Mfg  
 ECHO Facility Report: <https://echo.epa.gov/detailed-facility-report?fid=110016970081>  
 Facility Percent Minority: 66.78  
 Facility Derived Tribes: Not reported  
 Facility Population: 4606.81  
 EJSCREEN Flag US: N  
 EJSCREEN Report: [https://ejscreen.epa.gov/mapper/mobile/EJSCREEN\\_mobile.aspx?geometry=%7B%22x%22:-122.17976,%22y%22:37.48658,%22spatialReference%22:%7B%22wkid%22:4326%7D%7D&unit=9035&areatype=&areaid=&basemap=streets&distance=1](https://ejscreen.epa.gov/mapper/mobile/EJSCREEN_mobile.aspx?geometry=%7B%22x%22:-122.17976,%22y%22:37.48658,%22spatialReference%22:%7B%22wkid%22:4326%7D%7D&unit=9035&areatype=&areaid=&basemap=streets&distance=1)  
 EPA Programs: RCRA  
 Federal Facility: No  
 Federal Agency: Not reported  
 Facility FIPS Code: 06081  
 Facility Indian Country Flag: N  
 Facility Collection Method: ADDRESS MATCHING-HOUSE NUMBER  
 Facility Derived HUC: 18050004  
 Facility Derived WBD: 180500040902  
 Facility Derived CD113: 14  
 Facility Derived CB2010: 060816117004020  
 Facility Major Flag: Not reported  
 Facility Active Flag: Y  
 Facility Inspection Count: 0  
 Facility Date Last Inspection: Not reported  
 Facility Days Last Inspection: Not reported  
 Facility Informal Count: 0  
 Facility Date Last Informal Action: Not reported  
 Facility Formal Action Count: 0  
 Facility Date Last Formal Action: Not reported

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**NANOSYN (Continued)**

**1027391443**

Facility Total Penalties:	0
Facility Penalty Count:	Not reported
Facility Date Last Penalty:	Not reported
Facility Last Penalty AMT:	Not reported
Facility QTRS With NC:	0
Facility Programs With SNC:	0
Facility Compliance Status:	No Violation Identified
Facility SNC Flag:	N
AIR Flag:	N
NPDES Flag:	N
SDWIS Flag:	N
RCRA Flag:	Y
TRI Flag:	N
GHG Flag:	N
AIR IDS:	Not reported
CAA Permit Types:	Not reported
CAA NAICS:	Not reported
CAA SICs:	Not reported
NPDES IDS:	Not reported
CWA Permit Types:	Not reported
CWA NAICS:	Not reported
CWA SICs:	Not reported
RCRA IDS:	CAD013070974 CAD982343899 CAL000269914
RCRA Permit Types:	LQG, Other
RCRA NAICS:	325199
SDWA IDS:	Not reported
SDWA System Types:	Not reported
SDWA Compliance Status:	Not reported
SDWA SNC Flag:	N
TRI IDS:	Not reported
TRI Releases Transfers:	Not reported
TRI On Site Releases:	Not reported
TRI Off Site Transfers:	Not reported
TRI Reporter:	Not reported
Facility IMP Water Flag:	Not reported

**H78**  
**WNW**  
 1/8-1/4  
 0.131 mi.  
 690 ft.

**PIERS DAIRY**  
**3611 HAVEN AVE**  
**MENLO PARK, CA 94025**

**CA HIST UST**  
**CA San Mateo Co. BI**  
**CA HWTS**

**U001594208**  
**N/A**

**Site 7 of 26 in cluster H**

**Relative:**  
**Higher**

**HIST UST:**

**Actual:**  
**10 ft.**

Name:	PIERS DAIRY
Address:	3611 HAVEN AVE
City,State,Zip:	MENLO PARK, CA 94025
File Number:	0002C391
URL:	<a href="http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002C391.pdf">http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002C391.pdf</a>
Region:	STATE
Facility ID:	00000037583
Facility Type:	Other
Other Type:	DAIRY
Contact Name:	EDSON PIERS
Telephone:	4153699200
Owner Name:	THREE SISTERS RANCH ENTERPRISE
Owner Address:	890 FAULSTICH COURT
Owner City,St,Zip:	SAN JOSE, CA 95112
Total Tanks:	0002

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**PIERS DAIRY (Continued)**

**U001594208**

Tank Num: 001  
Container Num: 1  
Year Installed: 1980  
Tank Capacity: 00008000  
Tank Used for: PRODUCT  
Type of Fuel: REGULAR  
Container Construction Thickness: Not reported  
Leak Detection: Visual

Tank Num: 002  
Container Num: 2  
Year Installed: Not reported  
Tank Capacity: 00000500  
Tank Used for: PRODUCT  
Type of Fuel: UNLEADED  
Container Construction Thickness: Not reported  
Leak Detection: None

[Click here for Geo Tracker PDF:](#)

**San Mateo Co. BI:**

Name: MARINE SYSTEMS  
Address: 3611 HAVEN  
City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0022580  
Prog Element Code: GENERATES and RECYCLES WASTE OIL/SOLVENT  
Record Id: PR0024922  
Description: GENERATES & RECYCLES WASTE OIL/SOLVENT  
Facility Status: Inactive, non-billable  
Program Category: HAZARDOUS WASTE PROGRAM

Name: MARINE SYSTEMS  
Address: 3611 HAVEN  
City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0022580  
Prog Element Code: STORES MV FUELS OR WASTE ONLY  
Record Id: PR0024923  
Description: STORES MV FUELS OR WASTE ONLY  
Facility Status: Inactive, non-billable  
Program Category: BUSINESS PLAN PROGRAM

Name: MARINE SYSTEMS  
Address: 3611 HAVEN  
City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0022580  
Prog Element Code: STORMWATER ANNUAL INSPECTION FEE  
Record Id: PR0040600  
Description: STORMWATER ANNUAL FEE - INSP FREQ EVERY 2 YRS  
Facility Status: Inactive, non-billable  
Program Category: STORMWATER

Name: MARINE SYSTEMS  
Address: 3611 HAVEN  
City,State,Zip: MENLO PARK, CA 94025

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**PIERS DAIRY (Continued)**

**U001594208**

Region: SAN MATEO  
 Facility ID: FA0022580  
 Prog Element Code: GENERATES <27 GAL/YEAR  
 Record Id: PR0034678  
 Description: GENERATES <27 GAL/YEAR  
 Facility Status: Inactive, non-billable  
 Program Category: HAZARDOUS WASTE PROGRAM

**HWTS:**

Name: PIERS DAIRY  
 Address: 3611 HAVEN AVE  
 Address 2: Not reported  
 City,State,Zip: MENLO PARK, CA 94025  
 EPA ID: CAL000014931  
 Inactive Date: 01/01/1995  
 Create Date: 11/14/1989  
 Last Act Date: Not reported  
 Mailing Name: Not reported  
 Mailing Address: 3611 HAVEN AVE  
 Mailing Address 2: Not reported  
 Mailing City,State,Zip: MENLO PARK, CA 940250000  
 Owner Name: PIERS-DAIRY INC  
 Owner Address: Not reported  
 Owner Address 2: Not reported  
 Owner City,State,Zip: Not reported  
 Contact Name: UNDELIVERABLE SURVEY 2-1-95 LC  
 Contact Address: Not reported  
 Contact Address 2: Not reported  
 City,State,Zip: Not reported  
 Facility Status: Inactive  
 Facility Type: PERMANENT  
 Category: STATE  
 Latitude: 37.486103  
 Longitude: -122.185895

79  
 SW  
 1/8-1/4  
 0.133 mi.  
 704 ft.

**MP MOSAIC GARDEN ASSOCIATE, L.P.**  
**3752 ROLISON RD.**  
**REDWOOD CITY, CA 94063**

**RCRA NonGen / NLR 1024781745**  
**CAC003001713**

**Relative:**  
**Higher**  
**Actual:**  
**14 ft.**

RCRA Listings:  
 Date Form Received by Agency: 20190219  
 Handler Name: MP MOSAIC GARDEN ASSOCIATE, L.P.  
 Handler Address: 3752 ROLISON RD.  
 Handler City,State,Zip: REDWOOD CITY, CA 94063  
 EPA ID: CAC003001713  
 Contact Name: MP MOSAIC GARDEN ASSOCIATE, L.P.  
 Contact Address: 3752 ROLISON RD.  
 Contact City,State,Zip: REDWOOD CITY, CA 94063  
 Contact Telephone: 415-258-1800  
 Contact Fax: 415-453-4927  
 Contact Email: RODRIGO@COASTWIDE.NET  
 Contact Title: Not reported  
 EPA Region: 09  
 Land Type: Not reported  
 Federal Waste Generator Description: Not a generator, verified

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**MP MOSAIC GARDEN ASSOCIATE, L.P. (Continued)**

**1024781745**

Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Handler Activities
State District Owner:		Not reported
State District:		Not reported
Mailing Address:		3752 ROLISON RD.
Mailing City,State,Zip:		REDWOOD CITY, CA 94063
Owner Name:	MP MOSAIC GARDEN ASSOCIATE, L.P.	
Owner Type:		Other
Operator Name:	MP MOSAIC GARDEN ASSOCIATE, L.P.	
Operator Type:		Other
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No
Smelting Melting and Refining Furnace Exemption:		No
Underground Injection Control:		No
Off-Site Waste Receipt:		No
Universal Waste Indicator:		Yes
Universal Waste Destination Facility:		Yes
Federal Universal Waste:		No
Active Site Fed-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site Converter Treatment storage and Disposal Facility:		Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site State-Reg Handler:		---
Federal Facility Indicator:		Not reported
Hazardous Secondary Material Indicator:		N
Sub-Part K Indicator:		Not reported
Commercial TSD Indicator:		No
Treatment Storage and Disposal Type:		Not reported
2018 GPRA Permit Baseline:		Not on the Baseline
2018 GPRA Renewals Baseline:		Not on the Baseline
Permit Renewals Workload Universe:		Not reported
Permit Workload Universe:		Not reported
Permit Progress Universe:		Not reported
Post-Closure Workload Universe:		Not reported
Closure Workload Universe:		Not reported
202 GPRA Corrective Action Baseline:		No
Corrective Action Workload Universe:		No
Subject to Corrective Action Universe:		No
Non-TSDFs Where RCRA CA has Been Imposed Universe:		No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:		No
TSDFs Only Subject to CA under Discretionary Auth Universe:		No
Corrective Action Priority Ranking:		No NCAPS ranking
Environmental Control Indicator:		No
Institutional Control Indicator:		No
Human Exposure Controls Indicator:		N/A
Groundwater Controls Indicator:		N/A
Operating TSDF Universe:		Not reported
Full Enforcement Universe:		Not reported
Significant Non-Complier Universe:		No
Unaddressed Significant Non-Complier Universe:		No
Addressed Significant Non-Complier Universe:		No



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MP MOSAIC GARDEN ASSOCIATE, L.P. (Continued)**

**1024781745**

Significant Non-Complier With a Compliance Schedule Universe: No  
Financial Assurance Required: Not reported  
Handler Date of Last Change: 20190222  
Recognized Trader-Importer: No  
Recognized Trader-Exporter: No  
Importer of Spent Lead Acid Batteries: No  
Exporter of Spent Lead Acid Batteries: No  
Recycler Activity Without Storage: No  
Manifest Broker: No  
Sub-Part P Indicator: No

Handler - Owner Operator:

Owner/Operator Indicator: Operator  
Owner/Operator Name: MP MOSAIC GARDEN ASSOCIATE, L.P.  
Legal Status: Other  
Date Became Current: Not reported  
Date Ended Current: Not reported  
Owner/Operator Address: 3752 ROLISON RD.  
Owner/Operator City,State,Zip: REDWOOD CITY, CA 94063  
Owner/Operator Telephone: 415-258-1800  
Owner/Operator Telephone Ext: Not reported  
Owner/Operator Fax: Not reported  
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner  
Owner/Operator Name: MP MOSAIC GARDEN ASSOCIATE, L.P.  
Legal Status: Other  
Date Became Current: Not reported  
Date Ended Current: Not reported  
Owner/Operator Address: 3752 ROLISON RD.  
Owner/Operator City,State,Zip: REDWOOD CITY, CA 94063  
Owner/Operator Telephone: 415-258-1800  
Owner/Operator Telephone Ext: Not reported  
Owner/Operator Fax: Not reported  
Owner/Operator Email: Not reported

Historic Generators:

Receive Date: 20190219  
Handler Name: MP MOSAIC GARDEN ASSOCIATE, L.P.  
Federal Waste Generator Description: Not a generator, verified  
State District Owner: Not reported  
Large Quantity Handler of Universal Waste: No  
Recognized Trader Importer: No  
Recognized Trader Exporter: No  
Spent Lead Acid Battery Importer: No  
Spent Lead Acid Battery Exporter: No  
Current Record: Yes  
Non Storage Recycler Activity: Not reported  
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:

NAICS Code: 56299  
NAICS Description: ALL OTHER WASTE MANAGEMENT SERVICES

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MP MOSAIC GARDEN ASSOCIATE, L.P. (Continued)**

**1024781745**

Facility Has Received Notices of Violations:

Violations: No Violations Found

Evaluation Action Summary:

Evaluations: No Evaluations Found

**H80**  
**WNW**  
**1/8-1/4**  
**0.136 mi.**  
**716 ft.**

**BLACK MOUNTAIN SPRING WATER IN**  
**3609 HAVEN**  
**MENLO PARK, CA 94025**

**CA San Mateo Co. BI** **S106981027**  
**N/A**

**Site 8 of 26 in cluster H**

**Relative:**  
**Higher**  
**Actual:**  
**10 ft.**

San Mateo Co. BI:

Name: BLACK MOUNTAIN SPRING WATER IN  
Address: 3609 HAVEN  
City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0005280  
Prog Element Code: STORES MV FUELS OR WASTE ONLY  
Record Id: PR0004123  
Description: STORES MV FUELS OR WASTE ONLY  
Facility Status: Inactive, non-billable  
Program Category: BUSINESS PLAN PROGRAM

Name: BLACK MOUNTAIN SPRING WATER IN  
Address: 3609 HAVEN  
City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0005280  
Prog Element Code: GENERATES and RECYCLES WASTE OIL/SOLVENT  
Record Id: PR0011504  
Description: GENERATES & RECYCLES WASTE OIL/SOLVENT  
Facility Status: Inactive, non-billable  
Program Category: HAZARDOUS WASTE PROGRAM

Name: BLACK MOUNTAIN SPRING WATER IN  
Address: 3609 HAVEN  
City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0005280  
Prog Element Code: STORMWATER ANNUAL INSPECTION FEE  
Record Id: PR0040521  
Description: STORMWATER ANNUAL FEE - INSP FREQ EVERY 2 YRS  
Facility Status: Inactive, non-billable  
Program Category: STORMWATER

MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Site

Database(s)

EDR ID Number  
EPA ID Number

**H81**  
**West**  
**1/8-1/4**  
**0.136 mi.**  
**719 ft.**

**GUYS ROOFING**  
**3620 HAVEN**  
**REDWOOD CITY, CA 94063**

**Site 9 of 26 in cluster H**

**CA San Mateo Co. BI**    **S113755902**  
**N/A**

**Relative:**  
**Higher**  
**Actual:**  
**12 ft.**

San Mateo Co. BI:

Name: GUYS ROOFING  
Address: 3620 HAVEN  
City,State,Zip: REDWOOD CITY, CA 94063  
Region: SAN MATEO  
Facility ID: FA0013089  
Prog Element Code: GENERATES and RECYCLES WASTE OIL/SOLVENT  
Record Id: PR0011325  
Description: GENERATES & RECYCLES WASTE OIL/SOLVENT  
Facility Status: Inactive, non-billable  
Program Category: HAZARDOUS WASTE PROGRAM

Name: GUYS ROOFING  
Address: 3620 HAVEN  
City,State,Zip: REDWOOD CITY, CA 94063  
Region: SAN MATEO  
Facility ID: FA0013089  
Prog Element Code: STORES HAZ MAT <1,199GAL,9,999LB,4,799FT3  
Record Id: PR0003964  
Description: STORES HAZ MAT <1,199GAL,9,999LB,4,799CF  
Facility Status: Inactive, non-billable  
Program Category: BUSINESS PLAN PROGRAM

**H82**  
**WNW**  
**1/8-1/4**  
**0.141 mi.**  
**743 ft.**

**EL DORADO FORKLIFT**  
**3607 HAVEN AVE**  
**MENLO PARK, CA 94025**

**Site 10 of 26 in cluster H**

**CA SWEEPS UST**    **S102268291**  
**CA San Mateo Co. BI**    **N/A**

**Relative:**  
**Higher**  
**Actual:**  
**10 ft.**

SWEEPS UST:

Name: EL DORADO FORKLIFT  
Address: 3607 HAVEN AVE  
City: MENLO PARK  
Status: Not reported  
Comp Number: 440080  
Number: Not reported  
Board Of Equalization: Not reported  
Referral Date: Not reported  
Action Date: Not reported  
Created Date: Not reported  
Owner Tank Id: Not reported  
SWRCB Tank Id: 41-000-440080-000001  
Tank Status: Not reported  
Capacity: 8000  
Active Date: Not reported  
Tank Use: M.V. FUEL  
STG: PRODUCT  
Content: OTHER  
Number Of Tanks: 2

Name: EL DORADO FORKLIFT  
Address: 3607 HAVEN AVE  
City: MENLO PARK  
Status: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**EL DORADO FORKLIFT (Continued)**

**S102268291**

Comp Number: 440080  
Number: Not reported  
Board Of Equalization: Not reported  
Referral Date: Not reported  
Action Date: Not reported  
Created Date: Not reported  
Owner Tank Id: Not reported  
SWRCB Tank Id: 41-000-440080-000002  
Tank Status: Not reported  
Capacity: 500  
Active Date: Not reported  
Tank Use: M.V. FUEL  
STG: PRODUCT  
Content: OTHER  
Number Of Tanks: Not reported

**San Mateo Co. BI:**

Name: EL DORADO FORKLIFT  
Address: 3607 HAVEN  
City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0012506  
Prog Element Code: UNDERGROUND TANK - GENERAL  
Record Id: PR0022563  
Description: UNDERGROUND TANK - GENERAL  
Facility Status: Inactive, non-billable  
Program Category: UNDERGROUND TANK PROGRAM

Name: EL DORADO FORKLIFT COMPANY  
Address: 3607 HAVEN  
City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0017648  
Prog Element Code: GENERATES and RECYCLES WASTE OIL/SOLVENT  
Record Id: PR0011466  
Description: GENERATES & RECYCLES WASTE OIL/SOLVENT  
Facility Status: Inactive, non-billable  
Program Category: HAZARDOUS WASTE PROGRAM

Name: EL DORADO FORKLIFT COMPANY  
Address: 3607 HAVEN  
City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0017648  
Prog Element Code: STORMWATER ANNUAL INSPECTION FEE  
Record Id: PR0040588  
Description: STORMWATER ANNUAL FEE - INSP FREQ EVERY 2 YRS  
Facility Status: Inactive, non-billable  
Program Category: STORMWATER

Name: EL DORADO FORKLIFT COMPANY  
Address: 3607 HAVEN  
City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0017648  
Prog Element Code: STORES HAZ MAT <1,199GAL,9,999LB,4,799FT3  
Record Id: PR0004153

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**EL DORADO FORKLIFT (Continued)**

**S102268291**

Description: STORES HAZ MAT <1,199GAL,9,999LB,4,799CF  
 Facility Status: Inactive, non-billable  
 Program Category: BUSINESS PLAN PROGRAM

**H83**  
**WNW**  
**1/8-1/4**  
**0.141 mi.**  
**743 ft.**

**ELDORADO FORKLIFT CO**  
**3607 HAVEN AVE**  
**MENLO PARK, CA 94025**

**RCRA NonGen / NLR**

**1025882372**  
**CAR000086751**

**Site 11 of 26 in cluster H**

**Relative:**  
**Higher**  
**Actual:**  
**10 ft.**

RCRA Listings:  
 Date Form Received by Agency: 20071029  
 Handler Name: ELDORADO FORKLIFT CO  
 Handler Address: 3607 HAVEN AVE  
 Handler City,State,Zip: MENLO PARK, CA 94025  
 EPA ID: CAR000086751  
 Contact Name: MARK PHILIPOPOULOS  
 Contact Address: 3582 HAVEN AVE  
 Contact City,State,Zip: REDWOOD CITY, CA 94063  
 Contact Telephone: 650-361-1666  
 Contact Fax: Not reported  
 Contact Email: Not reported  
 Contact Title: Not reported  
 EPA Region: 09  
 Land Type: Private  
 Federal Waste Generator Description: Not a generator, verified  
 Non-Notifier: Not reported  
 Biennial Report Cycle: Not reported  
 Accessibility: Not reported  
 Active Site Indicator: Not reported  
 State District Owner: Not reported  
 State District: Not reported  
 Mailing Address: 3582 HAVEN AVE  
 Mailing City,State,Zip: REDWOOD CITY, CA 94063  
 Owner Name: Not reported  
 Owner Type: Not reported  
 Operator Name: Not reported  
 Operator Type: Not reported  
 Short-Term Generator Activity: No  
 Importer Activity: No  
 Mixed Waste Generator: No  
 Transporter Activity: No  
 Transfer Facility Activity: No  
 Recycler Activity with Storage: No  
 Small Quantity On-Site Burner Exemption: No  
 Smelting Melting and Refining Furnace Exemption: No  
 Underground Injection Control: No  
 Off-Site Waste Receipt: No  
 Universal Waste Indicator: No  
 Universal Waste Destination Facility: No  
 Federal Universal Waste: No  
 Active Site Fed-Reg Treatment Storage and Disposal Facility: Not reported  
 Active Site Converter Treatment storage and Disposal Facility: Not reported  
 Active Site State-Reg Treatment Storage and Disposal Facility: Not reported  
 Active Site State-Reg Handler: ---  
 Federal Facility Indicator: Not reported  
 Hazardous Secondary Material Indicator: N  
 Sub-Part K Indicator: Not reported

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**ELDORADO FORKLIFT CO (Continued)**

**1025882372**

Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDs Where RCRA CA has Been Imposed Universe:	No
TSDs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20071108
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

**Hazardous Waste Summary:**

Waste Code:	D001
Waste Description:	IGNITABLE WASTE
Waste Code:	D039
Waste Description:	TETRACHLOROETHYLENE

**Handler - Owner Operator:**

Owner/Operator Indicator:	Owner
Owner/Operator Name:	PHILIP PHILIPOPOULOS
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	3607 HAVEN AVE
Owner/Operator City,State,Zip:	MENLO PARK, CA 94025
Owner/Operator Telephone:	650-361-1666
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ELDORADO FORKLIFT CO (Continued)**

**1025882372**

Historic Generators:

Receive Date: 20001116  
Handler Name: ELDORADO FORKLIFT CO  
Federal Waste Generator Description: Small Quantity Generator  
State District Owner: Not reported  
Large Quantity Handler of Universal Waste: No  
Recognized Trader Importer: No  
Recognized Trader Exporter: No  
Spent Lead Acid Battery Importer: No  
Spent Lead Acid Battery Exporter: No  
Current Record: No  
Non Storage Recycler Activity: Not reported  
Electronic Manifest Broker: Not reported

Receive Date: 20071029  
Handler Name: ELDORADO FORKLIFT CO  
Federal Waste Generator Description: Not a generator, verified  
State District Owner: Not reported  
Large Quantity Handler of Universal Waste: No  
Recognized Trader Importer: No  
Recognized Trader Exporter: No  
Spent Lead Acid Battery Importer: No  
Spent Lead Acid Battery Exporter: No  
Current Record: Yes  
Non Storage Recycler Activity: Not reported  
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:

NAICS Codes: No NAICS Codes Found

Facility Has Received Notices of Violations:

Violations: No Violations Found

Evaluation Action Summary:

Evaluations: No Evaluations Found

**H84**      **JOHN J SHOOTER INC**  
**WNW**      **3605 HAVEN AVE**  
**1/8-1/4**      **MENLO PARK, CA 94025**  
**0.146 mi.**  
**771 ft.**      **Site 12 of 26 in cluster H**

**CA SWEEPS UST**      **S101593923**  
**CA HIST UST**      **N/A**  
**CA FID UST**

**Relative:**  
**Higher**  
**Actual:**  
**11 ft.**

SWEEPS UST:  
Name: JOHN J SHOOTER INC  
Address: 3605 HAVEN AVE  
City: MENLO PARK  
Status: Active  
Comp Number: 440022  
Number: 9  
Board Of Equalization: 44-025354  
Referral Date: 01-28-94  
Action Date: 01-28-94  
Created Date: 10-13-88  
Owner Tank Id: 1  
SWRCB Tank Id: 41-000-440022-000001

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**JOHN J SHOOTER INC (Continued)**

**S101593923**

Tank Status: A  
Capacity: 1000  
Active Date: 07-07-89  
Tank Use: M.V. FUEL  
STG: P  
Content: REG UNLEADED  
Number Of Tanks: 1

**HIST UST:**

Name: JOHN J SHOOTER INC  
Address: 3605 HAVEN AVENUE  
City,State,Zip: MENLO PARK, CA 94025  
File Number: 0002C38F  
URL: <http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002C38F.pdf>  
Region: Not reported  
Facility ID: Not reported  
Facility Type: Not reported  
Other Type: Not reported  
Contact Name: Not reported  
Telephone: Not reported  
Owner Name: Not reported  
Owner Address: Not reported  
Owner City,St,Zip: Not reported  
Total Tanks: Not reported

Tank Num: Not reported  
Container Num: Not reported  
Year Installed: Not reported  
Tank Capacity: Not reported  
Tank Used for: Not reported  
Type of Fuel: Not reported  
Container Construction Thickness: Not reported  
Leak Detection: Not reported

Click here for Geo Tracker PDF:

**CA FID UST:**

Facility ID: 41002864  
Regulated By: UTNKA  
Regulated ID: Not reported  
Cortese Code: Not reported  
SIC Code: Not reported  
Facility Phone: Not reported  
Mail To: Not reported  
Mailing Address: 3605 HAVEN AVE  
Mailing Address 2: Not reported  
Mailing City,St,Zip: MENLO PARK 94025  
Contact: Not reported  
Contact Phone: Not reported  
DUNS Number: Not reported  
NPDES Number: Not reported  
EPA ID: Not reported  
Comments: Not reported  
Status: Active



Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

EDR ID Number  
 EPA ID Number

<b>H85</b> <b>WNW</b> <b>1/8-1/4</b> <b>0.146 mi.</b> <b>771 ft.</b>	<b>ANTON MENLO</b> <b>3605-3639 HAVEN AVENUE</b> <b>MENLO PARK, CA 94403</b>  <b>Site 13 of 26 in cluster H</b>	<b>CA CPS-SLIC</b> <b>CA CERS</b>	<b>S113186828</b> <b>N/A</b>
--	---	--------------------------------------	---------------------------------

<b>Relative:</b> <b>Higher</b>  <b>Actual:</b> <b>11 ft.</b>	<b>CPS-SLIC:</b> Name: Address: City,State,Zip: Region: <b>Facility Status:</b> Status Date: Global Id: Lead Agency: Lead Agency Case Number: Latitude: Longitude: Case Type: Case Worker: Local Agency: RB Case Number: File Location: Potential Media Affected:  Potential Contaminants of Concern:  Site History:	ANTON MENLO 3605-3639 HAVEN AVENUE MENLO PARK, CA 94403 STATE <b>Completed - Case Closed</b> 07/24/2014 T10000004645 SAN MATEO COUNTY LOP 449088 37.4865732879897 -122.184340953827 Cleanup Program Site BG SAN MATEO COUNTY LOP Not reported Not reported Contaminated Surface / Structure, Other Groundwater (uses other than drinking water), Soil Other Chlorinated Hydrocarbons, Chlordane, DDD / DDE / DDT, Other Insecticides / Pesticide / Fumigants / Herbicides, Copper, Mercury (elemental), Other Metal, Diesel, Ethylbenzene, Gasoline, Naphthalene, Waste Oil / Motor / Hydraulic / Lubricating Extrated from AMEC's July 24, 2013 Site Management Plan. San Mateo County does not take responsibility for the accuracy of the statements made or any professional interpretations made in the referenced report. The site is located in an industrial portion of Menlo Park, San Mateo County, California, between Highway 101 and the San Francisco Bay (Figure 1). The overall site is bounded by Haven Avenue to the south, 3585 Haven Avenue to the west, 3645 Haven Avenue to the east, and 3641 Haven Avenue and salt ponds to the north. The site is relatively flat, sloping gently to the north toward San Francisco Bay. AMEC understands that SAP intends to develop the site for multi-unit rental housing. Figure 2 presents an initial proposed layout for the residential complex. In addition, AMEC understands that SAP intends to raise the site elevation by approximately 2.5 to 3 feet through the import of clean fill material to be compacted on site prior to development. In general, approximately 2 to 3 feet of fill is distributed across the site. The fill material is of varying quality and includes debris such as wood, rubber material, concrete, brick, and ceramics. The results of the Phase II ESA activities indicate that the general character of chemical impacts to the fill material are likely insignificant relative to residential human health screening criteria <sup>1</sup> , with the exception of the following locations: h At the northwestern portion of the site, impacted soil was identified at boring location SB-13 (Figure 3), which may be associated with the historical operation of an automotive salvage facility. h At one boring location (SB-10) within an enclosed yard north of the 3611 Haven Avenue building, several pesticides were detected at concentrations exceeding their respective residential Environmental Screening Levels (ESLs) in the soil sample collected at 1 foot bgs. h One polychlorinated biphenyl (PCB) congener (PCB-1260) was detected above its residential ESL in the surface soil sample
--	---	--

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**ANTON MENLO (Continued)**

**S113186828**

(SB-19-SUR) collected adjacent to a transformer located west of the 3611 Haven Avenue building. Concrete samples were collected from the pad around the transformer and the swale directly adjacent to the pad to evaluate whether the materials will require special handling during demolition activities. PCBs were not detected in any concrete samples, indicating that the concrete may be disposed of as part of the building demolition.

[Click here to access the California GeoTracker records for this facility:](#)

**CERS:**

Name: ANTON MENLO  
 Address: 3605-3639 HAVEN AVENUE  
 City,State,Zip: MENLO PARK, CA 94403  
 Site ID: 247356  
 CERS ID: T10000004645  
 CERS Description: Cleanup Program Site

**Affiliation:**

Affiliation Type Desc: Regional Board Caseworker  
 Entity Name: Regional Water Board - SAN FRANCISCO BAY RWQCB (REGION 2)  
 Entity Title: Not reported  
 Affiliation Address: 1515 CLAY ST SUITE 1400  
 Affiliation City: OAKLAND  
 Affiliation State: CA  
 Affiliation Country: Not reported  
 Affiliation Zip: Not reported  
 Affiliation Phone: ,

Affiliation Type Desc: Local Agency Caseworker  
 Entity Name: BRIAN GWINN - SAN MATEO COUNTY LOP  
 Entity Title: Not reported  
 Affiliation Address: 2000 Alameda de las Pulgas, Suite 100  
 Affiliation City: SAN MATEO  
 Affiliation State: CA  
 Affiliation Country: Not reported  
 Affiliation Zip: Not reported  
 Affiliation Phone: 6502724590,

**H86**  
**WNW**  
**1/8-1/4**  
**0.146 mi.**  
**771 ft.**

**SHOOTER LANDSCAPING**  
**3605 HAVEN**  
**MENLO PARK, CA 94025**  
**Site 14 of 26 in cluster H**

**CA LUST** **U001594199**  
**CA HIST UST** **N/A**  
**CA San Mateo Co. BI**  
**CA Cortese**  
**CA NPDES**  
**CA CIWQS**  
**CA CERS**

**Relative:**  
**Higher**

**Actual:**  
**11 ft.**

**SAN MATEO CO. LUST:**  
 Name: SHOOTER LANDSCAPING  
 Address: 3605 HAVEN AVE  
 City,State,Zip: MENLO PARK, CA  
 Region: SAN MATEO  
 Facility ID: 440058  
 Facility Status: 9- Case Closed  
 Global ID: T0608105455  
 APN Number: 055170190  
 Case Type: MENLO PARK, CA

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SHOOTER LANDSCAPING (Continued)**

**U001594199**

EDR Link ID: MENLO PARK, CA

LUST:

Name: SHOOTER LANDSCAPING  
Address: 3605 HAVEN  
City,State,Zip: MENLO PARK, CA 94025  
Lead Agency: SAN MATEO COUNTY LOP  
Case Type: LUST Cleanup Site  
Geo Track: [http://geotracker.waterboards.ca.gov/profile\\_report.asp?global\\_id=T0608105455](http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0608105455)  
Global Id: T0608105455  
Latitude: 37.486672  
Longitude: -122.18504  
Status: Completed - Case Closed  
Status Date: 03/06/2002  
Case Worker: Not reported  
RB Case Number: 41-4024  
Local Agency: Not reported  
File Location: Local Agency  
Local Case Number: 440058  
Potential Media Affect: Other Groundwater (uses other than drinking water)  
Potential Contaminants of Concern: Gasoline  
Site History: Not reported

LUST:

Global Id: T0608105455  
Contact Type: Regional Board Caseworker  
Contact Name: Regional Water Board  
Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)  
Address: 1515 CLAY ST SUITE 1400  
City: OAKLAND  
Email: Not reported  
Phone Number: Not reported

LUST:

Global Id: T0608105455  
Action Type: Other  
Date: 03/12/1999  
Action: Leak Reported

Global Id: T0608105455  
Action Type: ENFORCEMENT  
Date: 06/30/1999  
Action: Notice of Responsibility - #1

LUST:

Global Id: T0608105455  
Status: Open - Case Begin Date  
Status Date: 03/12/1999

Global Id: T0608105455  
Status: Completed - Case Closed  
Status Date: 03/06/2002

LUST REG 2:

Region: 2

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SHOOTER LANDSCAPING (Continued)**

**U001594199**

Facility Id: Not reported  
Facility Status: Case Closed  
Case Number: 440058  
How Discovered: OM  
Leak Cause: Unknown  
Leak Source: Unknown  
Date Leak Confirmed: Not reported  
Oversight Program: LUST  
Prelim. Site Assessment Wokplan Submitted: Not reported  
Preliminary Site Assessment Began: Not reported  
Pollution Characterization Began: Not reported  
Pollution Remediation Plan Submitted: Not reported  
Date Remediation Action Underway: Not reported  
Date Post Remedial Action Monitoring Began: Not reported

**HIST UST:**

Name: JOHN J. SHOOTER, INC.  
Address: 3605 HAVEN AVE  
City,State,Zip: MENLO PARK, CA 94025  
File Number: Not reported  
URL: Not reported  
Region: STATE  
Facility ID: 00000065329  
Facility Type: Other  
Other Type: LANDSCAPE CONTRACTOR  
Contact Name: DOUGLAS D. SNYDER  
Telephone: 4153649720  
Owner Name: THREE SISTERS RANCH  
Owner Address: 890 FAULSTICH COURT  
Owner City,St,Zip: SAN JOSE, CA 95112  
Total Tanks: 0001  
  
Tank Num: 001  
Container Num: 1  
Year Installed: Not reported  
Tank Capacity: 00001000  
Tank Used for: PRODUCT  
Type of Fuel: UNLEADED  
Container Construction Thickness: Not reported  
Leak Detection: None

**San Mateo Co. BI:**

Name: GIUSTI TRUCKING INC  
Address: 3605 HAVEN  
City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0022912  
Prog Element Code: GENERATES and RECYCLES WASTE OIL/SOLVENT  
Record Id: PR0025792  
Description: GENERATES & RECYCLES WASTE OIL/SOLVENT  
Facility Status: Inactive, non-billable  
Program Category: HAZARDOUS WASTE PROGRAM  
  
Name: GIUSTI TRUCKING INC  
Address: 3605 HAVEN  
City,State,Zip: MENLO PARK, CA 94025

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SHOOTER LANDSCAPING (Continued)**

**U001594199**

Region: SAN MATEO  
Facility ID: FA0022912  
Prog Element Code: STORES MV FUELS OR WASTE ONLY  
Record Id: PR0025793  
Description: STORES MV FUELS OR WASTE ONLY  
Facility Status: Inactive, non-billable  
Program Category: BUSINESS PLAN PROGRAM

Name: SHOOTER COMPANY  
Address: 3605 HAVEN  
City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0017571  
Prog Element Code: STORES MV FUELS OR WASTE ONLY  
Record Id: PR0004095  
Description: STORES MV FUELS OR WASTE ONLY  
Facility Status: Inactive, non-billable  
Program Category: BUSINESS PLAN PROGRAM

Name: SHOOTER COMPANY  
Address: 3605 HAVEN  
City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0017571  
Prog Element Code: GENERATES and RECYCLES WASTE OIL/SOLVENT  
Record Id: PR0011527  
Description: GENERATES & RECYCLES WASTE OIL/SOLVENT  
Facility Status: Inactive, non-billable  
Program Category: HAZARDOUS WASTE PROGRAM

Name: SHOOTER COMPANY  
Address: 3605 HAVEN  
City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0017571  
Prog Element Code: UNDERGROUND TANK - GENERAL  
Record Id: PR0025647  
Description: UNDERGROUND TANK - GENERAL  
Facility Status: Inactive, non-billable  
Program Category: UNDERGROUND TANK PROGRAM

CORTESE:  
Name: SHOOTER LANDSCAPING  
Address: 3605 HAVEN  
City,State,Zip: MENLO PARK, CA 94025  
Region: CORTESE  
Envirostor Id: Not reported  
Global ID: T0608105455  
Site/Facility Type: LUST CLEANUP SITE  
Cleanup Status: COMPLETED - CASE CLOSED  
Status Date: Not reported  
Site Code: Not reported  
Latitude: Not reported  
Longitude: Not reported  
Owner: Not reported  
Enf Type: Not reported  
Swat R: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SHOOTER LANDSCAPING (Continued)**

**U001594199**

Flag: active  
Order No: Not reported  
Waste Discharge System No: Not reported  
Effective Date: Not reported  
Region 2: Not reported  
WID Id: Not reported  
Solid Waste Id No: Not reported  
Waste Management Uit Name: Not reported  
File Name: Active Open

**NPDES:**

Name: ANTON MENLO  
Address: 3605 HAVEN AVENUE  
City,State,Zip: MENLO PARK, CA 94025  
Facility Status: Terminated  
NPDES Number: CAS000002  
Region: 2  
Agency Number: 0  
Regulatory Measure ID: 441720  
Place ID: Not reported  
Order Number: 2009-0009-DWQ  
WDID: 2 41C368003  
Regulatory Measure Type: Enrollee  
Program Type: Construction  
Adoption Date Of Regulatory Measure: Not reported  
Effective Date Of Regulatory Measure: 10/17/2013  
Termination Date Of Regulatory Measure: 12/02/2019  
Expiration Date Of Regulatory Measure: Not reported  
Discharge Address: 1801 I Street  
Discharge Name: Anton Menlo LLC  
Discharge City: Sacramento  
Discharge State: California  
Discharge Zip: 95811  
Status: Not reported  
Status Date: Not reported  
Operator Name: Not reported  
Operator Address: Not reported  
Operator City: Not reported  
Operator State: Not reported  
Operator Zip: Not reported

**NPDES as of 03/2018:**

NPDES Number: CAS000002  
Status: Active  
Agency Number: 0  
Region: 2  
Regulatory Measure ID: 441720  
Order Number: 2009-0009-DWQ  
Regulatory Measure Type: Enrollee  
Place ID: Not reported  
WDID: 2 41C368003  
Program Type: Construction  
Adoption Date Of Regulatory Measure: Not reported  
Effective Date Of Regulatory Measure: 10/17/2013  
Expiration Date Of Regulatory Measure: Not reported  
Termination Date Of Regulatory Measure: Not reported  
Discharge Name: Anton Menlo LLC

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SHOOTER LANDSCAPING (Continued)**

**U001594199**

Discharge Address:	1801 I Street
Discharge City:	Sacramento
Discharge State:	California
Discharge Zip:	95811
Received Date:	Not reported
Processed Date:	Not reported
Status:	Not reported
Status Date:	Not reported
Place Size:	Not reported
Place Size Unit:	Not reported
Contact:	Not reported
Contact Title:	Not reported
Contact Phone:	Not reported
Contact Phone Ext:	Not reported
Contact Email:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported
Operator Contact:	Not reported
Operator Contact Title:	Not reported
Operator Contact Phone:	Not reported
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	Not reported
Operator Type:	Not reported
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	Not reported
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commercial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Not reported
Receiving Water Name:	Not reported
Certifier:	Not reported
Certifier Title:	Not reported
Certification Date:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SHOOTER LANDSCAPING (Continued)**

**U001594199**

Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported
NPDES Number:	Not reported
Status:	Not reported
Agency Number:	Not reported
Region:	2
Regulatory Measure ID:	441720
Order Number:	Not reported
Regulatory Measure Type:	Construction
Place ID:	Not reported
WDID:	2 41C368003
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Not reported
Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Received Date:	10/02/2013
Processed Date:	10/17/2013
Status:	Active
Status Date:	10/17/2013
Place Size:	9.7
Place Size Unit:	Acres
Contact:	Ardie Zahedani
Contact Title:	Not reported
Contact Phone:	916-400-2077
Contact Phone Ext:	Not reported
Contact Email:	az@antonllc.com
Operator Name:	Anton Menlo LLC
Operator Address:	1801 I Street
Operator City:	Sacramento
Operator State:	California
Operator Zip:	95811
Operator Contact:	Ardie Zahedani
Operator Contact Title:	Not reported
Operator Contact Phone:	916-400-2077
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	az@antonllc.com
Operator Type:	Private Business
Developer:	Anton Menlo LLC
Developer Address:	1801 I Street
Developer City:	Sacramento
Developer State:	California
Developer Zip:	95811
Developer Contact:	Ardie Zahedani
Developer Contact Title:	Vice President of Development
Constype Linear Utility Ind:	N
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	N
Constype Below Ground Ind:	N



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SHOOTER LANDSCAPING (Continued)**

**U001594199**

Constype Cable Line Ind: N  
Constype Comm Line Ind: N  
Constype Commercial Ind: N  
Constype Electrical Line Ind: N  
Constype Gas Line Ind: N  
Constype Industrial Ind: N  
Constype Other Description: Not reported  
Constype Other Ind: N  
Constype Recons Ind: N  
Constype Residential Ind: Y  
Constype Transport Ind: N  
Constype Utility Description: Not reported  
Constype Utility Ind: N  
Constype Water Sewer Ind: N  
Dir Discharge Uswater Ind: N  
Receiving Water Name: Atherton Creek  
Certifier: Andy Davidson  
Certifier Title: VP Construction  
Certification Date: 02-OCT-13  
Primary Sic: Not reported  
Secondary Sic: Not reported  
Tertiary Sic: Not reported

Name: ANTON MENLO  
Address: 3605 HAVEN AVENUE  
City,State,Zip: MENLO PARK, CA 94025  
Facility Status: Not reported  
NPDES Number: Not reported  
Region: Not reported  
Agency Number: Not reported  
Regulatory Measure ID: Not reported  
Place ID: Not reported  
Order Number: Not reported  
WDID: 2 41C368003  
Regulatory Measure Type: Construction  
Program Type: Not reported  
Adoption Date Of Regulatory Measure: Not reported  
Effective Date Of Regulatory Measure: Not reported  
Termination Date Of Regulatory Measure: Not reported  
Expiration Date Of Regulatory Measure: Not reported  
Discharge Address: Not reported  
Discharge Name: Not reported  
Discharge City: Not reported  
Discharge State: Not reported  
Discharge Zip: Not reported  
Status: Terminated  
Status Date: 12/02/2019  
Operator Name: Anton Menlo LLC  
Operator Address: 1801 I Street  
Operator City: Sacramento  
Operator State: California  
Operator Zip: 95811

NPDES as of 03/2018:

NPDES Number: CAS000002  
Status: Active  
Agency Number: 0

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SHOOTER LANDSCAPING (Continued)**

**U001594199**

Region: 2  
Regulatory Measure ID: 441720  
Order Number: 2009-0009-DWQ  
Regulatory Measure Type: Enrollee  
Place ID: Not reported  
WDID: 2 41C368003  
Program Type: Construction  
Adoption Date Of Regulatory Measure: Not reported  
Effective Date Of Regulatory Measure: 10/17/2013  
Expiration Date Of Regulatory Measure: Not reported  
Termination Date Of Regulatory Measure: Not reported  
Discharge Name: Anton Menlo LLC  
Discharge Address: 1801 I Street  
Discharge City: Sacramento  
Discharge State: California  
Discharge Zip: 95811  
Received Date: Not reported  
Processed Date: Not reported  
Status: Not reported  
Status Date: Not reported  
Place Size: Not reported  
Place Size Unit: Not reported  
Contact: Not reported  
Contact Title: Not reported  
Contact Phone: Not reported  
Contact Phone Ext: Not reported  
Contact Email: Not reported  
Operator Name: Not reported  
Operator Address: Not reported  
Operator City: Not reported  
Operator State: Not reported  
Operator Zip: Not reported  
Operator Contact: Not reported  
Operator Contact Title: Not reported  
Operator Contact Phone: Not reported  
Operator Contact Phone Ext: Not reported  
Operator Contact Email: Not reported  
Operator Type: Not reported  
Developer: Not reported  
Developer Address: Not reported  
Developer City: Not reported  
Developer State: Not reported  
Developer Zip: Not reported  
Developer Contact: Not reported  
Developer Contact Title: Not reported  
Constype Linear Utility Ind: Not reported  
Emergency Phone: Not reported  
Emergency Phone Ext: Not reported  
Constype Above Ground Ind: Not reported  
Constype Below Ground Ind: Not reported  
Constype Cable Line Ind: Not reported  
Constype Comm Line Ind: Not reported  
Constype Commercial Ind: Not reported  
Constype Electrical Line Ind: Not reported  
Constype Gas Line Ind: Not reported  
Constype Industrial Ind: Not reported  
Constype Other Description: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SHOOTER LANDSCAPING (Continued)**

**U001594199**

Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Not reported
Receiving Water Name:	Not reported
Certifier:	Not reported
Certifier Title:	Not reported
Certification Date:	Not reported
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported
NPDES Number:	Not reported
Status:	Not reported
Agency Number:	Not reported
Region:	2
Regulatory Measure ID:	441720
Order Number:	Not reported
Regulatory Measure Type:	Construction
Place ID:	Not reported
WDID:	2 41C368003
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Not reported
Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Received Date:	10/02/2013
Processed Date:	10/17/2013
Status:	Active
Status Date:	10/17/2013
Place Size:	9.7
Place Size Unit:	Acres
Contact:	Ardie Zahedani
Contact Title:	Not reported
Contact Phone:	916-400-2077
Contact Phone Ext:	Not reported
Contact Email:	az@antonllc.com
Operator Name:	Anton Menlo LLC
Operator Address:	1801 I Street
Operator City:	Sacramento
Operator State:	California
Operator Zip:	95811
Operator Contact:	Ardie Zahedani
Operator Contact Title:	Not reported
Operator Contact Phone:	916-400-2077
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	az@antonllc.com
Operator Type:	Private Business

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SHOOTER LANDSCAPING (Continued)**

**U001594199**

Developer: Anton Menlo LLC  
Developer Address: 1801 I Street  
Developer City: Sacramento  
Developer State: California  
Developer Zip: 95811  
Developer Contact: Ardie Zahedani  
Developer Contact Title: Vice President of Development  
Constype Linear Utility Ind: N  
Emergency Phone: Not reported  
Emergency Phone Ext: Not reported  
Constype Above Ground Ind: N  
Constype Below Ground Ind: N  
Constype Cable Line Ind: N  
Constype Comm Line Ind: N  
Constype Commercial Ind: N  
Constype Electrical Line Ind: N  
Constype Gas Line Ind: N  
Constype Industrial Ind: N  
Constype Other Description: Not reported  
Constype Other Ind: N  
Constype Recons Ind: N  
Constype Residential Ind: Y  
Constype Transport Ind: N  
Constype Utility Description: Not reported  
Constype Utility Ind: N  
Constype Water Sewer Ind: N  
Dir Discharge Uswater Ind: N  
Receiving Water Name: Atherton Creek  
Certifier: Andy Davidson  
Certifier Title: VP Construction  
Certification Date: 02-OCT-13  
Primary Sic: Not reported  
Secondary Sic: Not reported  
Tertiary Sic: Not reported

**CIWQS:**

Name: ANTON MENLO  
Address: 3605 HAVEN AVENUE  
City,State,Zip: MENLO PARK, CA 94025  
Agency: Anton Menlo LLC  
Agency Address: 1801 I Street Suite 200, Sacramento, CA 95811  
Place/Project Type: Construction - Residential  
SIC/NAICS: Not reported  
Region: 2  
Program: CONSTW  
Regulatory Measure Status: Terminated  
Regulatory Measure Type: Storm water construction  
Order Number: 2009-0009-DWQ  
WDID: 2 41C368003  
NPDES Number: CAS000002  
Adoption Date: Not reported  
Effective Date: 10/17/2013  
Termination Date: 12/02/2019  
Expiration/Review Date: Not reported  
Design Flow: Not reported  
Major/Minor: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SHOOTER LANDSCAPING (Continued)**

**U001594199**

Complexity: Not reported  
TTWQ: Not reported  
Enforcement Actions within 5 years: 0  
Violations within 5 years: 0  
Latitude: 37.48611  
Longitude: -122.18451

**CERS:**

Name: SHOOTER LANDSCAPING  
Address: 3605 HAVEN  
City,State,Zip: MENLO PARK, CA 94025  
Site ID: 200406  
CERS ID: T0608105455  
CERS Description: Leaking Underground Storage Tank Cleanup Site

**Affiliation:**

Affiliation Type Desc: Regional Board Caseworker  
Entity Name: Regional Water Board - SAN FRANCISCO BAY RWQCB (REGION 2)  
Entity Title: Not reported  
Affiliation Address: 1515 CLAY ST SUITE 1400  
Affiliation City: OAKLAND  
Affiliation State: CA  
Affiliation Country: Not reported  
Affiliation Zip: Not reported  
Affiliation Phone: ,

Affiliation Type Desc: Regional Board Caseworker  
Entity Name: UUU - SAN FRANCISCO BAY RWQCB (REGION 2)  
Entity Title: Not reported  
Affiliation Address: 1515 CLAY ST SUITE 1400  
Affiliation City: OAKLAND  
Affiliation State: CA  
Affiliation Country: Not reported  
Affiliation Zip: Not reported  
Affiliation Phone: ,

**H87**      **LANDEC CORPORATION**  
**WNW**      **3603 HAVEN**  
**1/8-1/4**      **MENLO PARK, CA 94025**  
**0.151 mi.**  
**798 ft.**      **Site 15 of 26 in cluster H**

**CA San Mateo Co. BI**      **S105725999**  
**N/A**

**Relative:**      San Mateo Co. BI:  
**Higher**      Name:      LANDEC CORPORATION  
Address:      3603 HAVEN  
**Actual:**      City,State,Zip:      MENLO PARK, CA 94025  
**11 ft.**      Region:      SAN MATEO  
Facility ID:      FA0007383  
Prog Element Code:      GEN 1-5 TONS HAZ WASTE/YR  
Record Id:      PR0011488  
Description:      GEN 1-5 TONS HAZ WASTE/YR  
Facility Status:      Inactive, non-billable  
Program Category:      HAZARDOUS WASTE PROGRAM  
  
Name:      LANDEC CORPORATION  
Address:      3603 HAVEN  
City,State,Zip:      MENLO PARK, CA 94025

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**LANDEC CORPORATION (Continued)**

**S105725999**

Region: SAN MATEO  
Facility ID: FA0007383  
Prog Element Code: STORMWATER ANNUAL INSPECTION FEE  
Record Id: PR0040529  
Description: STORMWATER ANNUAL FEE - INSP FREQ EVERY 2 YRS  
Facility Status: Inactive, non-billable  
Program Category: STORMWATER

Name: LANDEC CORPORATION  
Address: 3603 HAVEN  
City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0007383  
Prog Element Code: STORES HAZ MAT <6999 GAL, 55999 LB, 2799FT^3  
Record Id: PR0004140  
Description: STORES HAZ MAT <6999 GAL, 55999 LB, 2799CF  
Facility Status: Inactive, non-billable  
Program Category: BUSINESS PLAN PROGRAM

Name: NVS TECHNOLOGIES INC  
Address: 3603 HAVEN  
City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0051258  
Prog Element Code: STORMWATER ANNUAL INSPECTION FEE  
Record Id: PR0071058  
Description: STORMWATER ANNUAL FEE - INSP FREQ EVERY 2 YRS  
Facility Status: Inactive, non-billable  
Program Category: STORMWATER

Name: NVS TECHNOLOGIES INC  
Address: 3603 HAVEN  
City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0051258  
Prog Element Code: STORES HAZ MAT <219GAL,1,999LB, 879FT3  
Record Id: PR0071056  
Description: STORES HAZ MAT <219GAL,1,999LB, 879CF  
Facility Status: Inactive, non-billable  
Program Category: BUSINESS PLAN PROGRAM

Name: NVS TECHNOLOGIES INC  
Address: 3603 HAVEN  
City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0051258  
Prog Element Code: GEN <1 TONS HAZ WASTE/YR  
Record Id: PR0071057  
Description: GEN <1 TONS HAZ WASTE/YR  
Facility Status: Inactive, non-billable  
Program Category: HAZARDOUS WASTE PROGRAM

Name: BELL BIOSYSTEMS, INC.  
Address: 3603 HAVEN  
City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0052966

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**LANDEC CORPORATION (Continued)**

**S105725999**

Prog Element Code: SML QUANTITY GENERATOR(1-199lbs/Mo) OFF-SITE  
Record Id: PR0073586  
Description: SQG OFF-SITE TREATMENT (1-199 LB/MO)  
Facility Status: Inactive, non-billable  
Program Category: MEDICAL WASTE

Name: BELL BIOSYSTEMS, INC.  
Address: 3603 HAVEN  
City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0052966  
Prog Element Code: STORES HAZ MAT <219GAL,1,999LB, 879FT3  
Record Id: PR0073326  
Description: STORES HAZ MAT <219GAL,1,999LB, 879CF  
Facility Status: Inactive, non-billable  
Program Category: BUSINESS PLAN PROGRAM

Name: BELL BIOSYSTEMS, INC.  
Address: 3603 HAVEN  
City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0052966  
Prog Element Code: STORMWATER ANNUAL INSPECTION FEE  
Record Id: PR0073328  
Description: STORMWATER ANNUAL FEE - INSP FREQ EVERY 2 YRS  
Facility Status: Inactive, non-billable  
Program Category: STORMWATER

Name: BELL BIOSYSTEMS, INC.  
Address: 3603 HAVEN  
City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0052966  
Prog Element Code: GENERATES <27 GAL/YEAR  
Record Id: PR0073327  
Description: GENERATES <27 GAL/YEAR  
Facility Status: Inactive, non-billable  
Program Category: HAZARDOUS WASTE PROGRAM

Name: TELOMERE DIAGNOSTICS  
Address: 3603 HAVEN  
City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0055899  
Prog Element Code: STORMWATER ANNUAL INSPECTION FEE  
Record Id: PR0077035  
Description: STORMWATER ANNUAL FEE - INSP FREQ EVERY 2 YRS  
Facility Status: Inactive, non-billable  
Program Category: STORMWATER

Name: TELOMERE DIAGNOSTICS  
Address: 3603 HAVEN  
City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0055899  
Prog Element Code: STORES HAZ MAT <219GAL,1,999LB, 879FT3  
Record Id: PR0077033

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

LANDEC CORPORATION (Continued)

S105725999

Description: STORES HAZ MAT <219GAL,1,999LB, 879CF  
Facility Status: Inactive, non-billable  
Program Category: BUSINESS PLAN PROGRAM

Name: TELOMERE DIAGNOSTICS  
Address: 3603 HAVEN  
City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0055899  
Prog Element Code: GENERATES <27 GAL/YEAR  
Record Id: PR0077034  
Description: GENERATES <27 GAL/YEAR  
Facility Status: Active, billable  
Program Category: HAZARDOUS WASTE PROGRAM

Name: STION  
Address: 3603 HAVEN  
City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0030897  
Prog Element Code: GENERATES and RECYCLES WASTE OIL/SOLVENT  
Record Id: PR0051597  
Description: GENERATES & RECYCLES WASTE OIL/SOLVENT  
Facility Status: Inactive, non-billable  
Program Category: HAZARDOUS WASTE PROGRAM

Name: STION  
Address: 3603 HAVEN  
City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0030897  
Prog Element Code: STORMWATER ANNUAL INSPECTION FEE  
Record Id: PR0051598  
Description: STORMWATER ANNUAL FEE - INSP FREQ EVERY 2 YRS  
Facility Status: Inactive, non-billable  
Program Category: STORMWATER

Name: NANOSYN  
Address: 3603 HAVEN  
City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0026921  
Prog Element Code: STORMWATER ANNUAL INSPECTION FEE  
Record Id: PR0040668  
Description: STORMWATER ANNUAL FEE - INSP FREQ EVERY 2 YRS  
Facility Status: Inactive, non-billable  
Program Category: STORMWATER

Name: NANOSYN  
Address: 3603 HAVEN  
City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0026921  
Prog Element Code: STORES HAZ MAT <219GAL,1,999LB, 879FT3  
Record Id: PR0040004  
Description: STORES HAZ MAT <219GAL,1,999LB, 879CF  
Facility Status: Inactive, non-billable



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

LANDEC CORPORATION (Continued)

S105725999

Program Category: BUSINESS PLAN PROGRAM  
Name: NANOSYN  
Address: 3603 HAVEN  
City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0026921  
Prog Element Code: GEN <1 TONS HAZ WASTE/YR  
Record Id: PR0040005  
Description: GEN <1 TONS HAZ WASTE/YR  
Facility Status: Inactive, non-billable  
Program Category: HAZARDOUS WASTE PROGRAM

Name: NANOSTELLAR, INC  
Address: 3603 HAVEN  
City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0028326  
Prog Element Code: STORMWATER ANNUAL INSPECTION FEE  
Record Id: PR0046910  
Description: STORMWATER ANNUAL FEE - INSP FREQ EVERY 2 YRS  
Facility Status: Inactive, non-billable  
Program Category: STORMWATER

Name: NANOSTELLAR, INC  
Address: 3603 HAVEN  
City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0028326  
Prog Element Code: GENERATES <27 GAL/YEAR  
Record Id: PR0046909  
Description: GENERATES <27 GAL/YEAR  
Facility Status: Inactive, non-billable  
Program Category: HAZARDOUS WASTE PROGRAM

Name: NANOSTELLAR, INC  
Address: 3603 HAVEN  
City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0028326  
Prog Element Code: STORES HAZ MAT <219GAL,1,999LB, 879FT3  
Record Id: PR0047238  
Description: STORES HAZ MAT <219GAL,1,999LB, 879CF  
Facility Status: Inactive, non-billable  
Program Category: BUSINESS PLAN PROGRAM

H88 HONEYCOMB BIOSCIENCE INC  
WNW 3603 HAVEN  
1/8-1/4 MENLO PARK, CA 94025  
0.151 mi.  
798 ft. Site 16 of 26 in cluster H

CA San Mateo Co. BI S124430739  
N/A

Relative: San Mateo Co. BI:  
Higher Name: HONEYCOMB BIOSCIENCE INC  
Actual: Address: 3603 HAVEN  
11 ft. City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0066309

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**HONEYCOMB BIOSCIENCE INC (Continued)**

**S124430739**

Prog Element Code: GENERATES <27 GAL/YEAR  
 Record Id: PR0089432  
 Description: GENERATES <27 GAL/YEAR  
 Facility Status: Inactive, non-billable  
 Program Category: HAZARDOUS WASTE PROGRAM

**H89  
 WNW  
 1/8-1/4  
 0.151 mi.  
 798 ft.**

**TELOMERE DIAGNOSTICS INC  
 3603 HAVEN AVE  
 MENLO PARK, CA 94025**

**RCRA NonGen / NLR**

**1024844875  
 CAL000397563**

**Site 17 of 26 in cluster H**

**Relative:  
 Higher**

RCRA Listings:

**Actual:  
 11 ft.**

Date Form Received by Agency:	20140606
Handler Name:	TELOMERE DIAGNOSTICS INC
Handler Address:	3603 HAVEN AVE
Handler City,State,Zip:	MENLO PARK, CA 94025
EPA ID:	CAL000397563
Contact Name:	TODD WOODRING
Contact Address:	3603 HAVEN AVE
Contact City,State,Zip:	MENLO PARK, CA 94025
Contact Telephone:	949-279-0733
Contact Fax:	650-369-0644
Contact Email:	TWOODRING@TELOMEREDX.COM
Contact Title:	Not reported
EPA Region:	09
Land Type:	Not reported
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	3603 HAVEN AVE
Mailing City,State,Zip:	MENLO PARK, CA 94025
Owner Name:	PRADEYROL DEVELOPPMENT
Owner Type:	Other
Operator Name:	TODD WOODRING
Operator Type:	Other
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	Yes
Universal Waste Destination Facility:	Yes
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**TELOMERE DIAGNOSTICS INC (Continued)**

**1024844875**

Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20180906
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name:	TODD WOODRING
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	3603 HAVEN AVE
Owner/Operator City,State,Zip:	MENLO PARK, CA 94025
Owner/Operator Telephone:	949-279-0733
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	PRADEYROL DEVELOPPMENT
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**TELOMERE DIAGNOSTICS INC (Continued)**

**1024844875**

Owner/Operator Address: 3603 HAVEN AVE  
Owner/Operator City,State,Zip: MENLO PARK, CA 94025  
Owner/Operator Telephone: 650-369-0699  
Owner/Operator Telephone Ext: Not reported  
Owner/Operator Fax: Not reported  
Owner/Operator Email: Not reported

Historic Generators:

Receive Date: 20140606  
Handler Name: TELOMERE DIAGNOSTICS INC  
Federal Waste Generator Description: Not a generator, verified  
State District Owner: Not reported  
Large Quantity Handler of Universal Waste: No  
Recognized Trader Importer: No  
Recognized Trader Exporter: No  
Spent Lead Acid Battery Importer: No  
Spent Lead Acid Battery Exporter: No  
Current Record: Yes  
Non Storage Recycler Activity: Not reported  
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:

NAICS Code: 56299  
NAICS Description: ALL OTHER WASTE MANAGEMENT SERVICES

Facility Has Received Notices of Violations:

Violations: No Violations Found

Evaluation Action Summary:

Evaluations: No Evaluations Found

**H90**  
**WNW**  
**1/8-1/4**  
**0.151 mi.**  
**798 ft.**

**PREMIER PROPERTIES**  
**3603 HAVEN AVE**  
**MENLO PARK, CA 94025**  
**Site 18 of 26 in cluster H**

**RCRA-LQG 1000818864**  
**FINDS CAD983647926**

**Relative:**  
**Higher**  
**Actual:**  
**11 ft.**

RCRA Listings:  
Date Form Received by Agency: 20190125  
Handler Name: LANDEC CORP  
Handler Address: 3603 HAVEN AVENUE  
Handler City,State,Zip: MENLO PARK, CA 94025-0000  
EPA ID: CAD983647926  
Contact Name: RAY WONG  
Contact Address: GREAT AMERICA PARKWAY  
Contact City,State,Zip: SANTA CLARA, CA 95054  
Contact Telephone: 650-261-3633  
Contact Fax: 650-368-9818  
Contact Email: RWONG@LANDEC.COM  
Contact Title: ENGINEER  
EPA Region: 09  
Land Type: Private  
Federal Waste Generator Description: Large Quantity Generator  
Non-Notifier: Not reported  
Biennial Report Cycle: Not reported

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**PREMIER PROPERTIES (Continued)**

**1000818864**

Accessibility:		Not reported
Active Site Indicator:		Handler Activities
State District Owner:		Not reported
State District:		Not reported
Mailing Address:		GREAT AMERICA PARKWAY
Mailing City, State, Zip:		SANTA CLARA, CA 95054
Owner Name:	3603 HAVEN LLC	
Owner Type:		Private
Operator Name:	LANDEC CORPORATION	
Operator Type:		Private
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No
Smelting Melting and Refining Furnace Exemption:		No
Underground Injection Control:		No
Off-Site Waste Receipt:		No
Universal Waste Indicator:		No
Universal Waste Destination Facility:		No
Federal Universal Waste:		No
Active Site Fed-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site Converter Treatment storage and Disposal Facility:		Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site State-Reg Handler:		---
Federal Facility Indicator:		Not reported
Hazardous Secondary Material Indicator:		NN
Sub-Part K Indicator:		Not reported
Commercial TSD Indicator:		No
Treatment Storage and Disposal Type:		Not reported
2018 GPRA Permit Baseline:		Not on the Baseline
2018 GPRA Renewals Baseline:		Not on the Baseline
Permit Renewals Workload Universe:		Not reported
Permit Workload Universe:		Not reported
Permit Progress Universe:		Not reported
Post-Closure Workload Universe:		Not reported
Closure Workload Universe:		Not reported
202 GPRA Corrective Action Baseline:		No
Corrective Action Workload Universe:		No
Subject to Corrective Action Universe:		No
Non-TSDFs Where RCRA CA has Been Imposed Universe:		No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:		No
TSDFs Only Subject to CA under Discretionary Auth Universe:		No
Corrective Action Priority Ranking:		No NCAPS ranking
Environmental Control Indicator:		No
Institutional Control Indicator:		No
Human Exposure Controls Indicator:		N/A
Groundwater Controls Indicator:		N/A
Operating TSDF Universe:		Not reported
Full Enforcement Universe:		Not reported
Significant Non-Complier Universe:		No
Unaddressed Significant Non-Complier Universe:		No
Addressed Significant Non-Complier Universe:		No
Significant Non-Complier With a Compliance Schedule Universe:		No
Financial Assurance Required:	Not reported	

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**PREMIER PROPERTIES (Continued)**

**1000818864**

Handler Date of Last Change:	20190125
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Biennial: List of Years

Year: 2017

[Click Here for Biennial Reporting System Data:](#)

**Hazardous Waste Summary:**

Waste Code: D001  
Waste Description: IGNITABLE WASTE

Waste Code: D002  
Waste Description: CORROSIVE WASTE

Waste Code: D003  
Waste Description: REACTIVE WASTE

Waste Code: D005  
Waste Description: BARIUM

Waste Code: D008  
Waste Description: LEAD

Waste Code: D011  
Waste Description: SILVER

Waste Code: D018  
Waste Description: BENZENE

Waste Code: D022  
Waste Description: CHLOROFORM

Waste Code: D040  
Waste Description: TRICHLOROETHYLENE

Waste Code: F002  
Waste Description: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2, TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste Code: F003  
Waste Description: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**PREMIER PROPERTIES (Continued)**

**1000818864**

ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste Code: F005  
Waste Description: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste Code: P105  
Waste Description: SODIUM AZIDE

Waste Code: U044  
Waste Description: CHLOROFORM (OR) METHANE, TRICHLORO-

Waste Code: U080  
Waste Description: METHANE, DICHLORO- (OR) METHYLENE CHLORIDE

Waste Code: U123  
Waste Description: FORMIC ACID (C,T)

Waste Code: U133  
Waste Description: HYDRAZINE (R,T)

Waste Code: U151  
Waste Description: MERCURY

Waste Code: U157  
Waste Description: 3-METHYLCHOLANTHRENE (OR) BENZ[J]ACEANTHRYLENE, 1,2-DIHYDRO-3-METHYL-

Waste Code: U220  
Waste Description: BENZENE, METHYL- (OR) TOLUENE

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	BROWN INVESTMENT GROUP
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	1921 LANDINGS DR
Owner/Operator City,State,Zip:	MOUNTAIN VIEW, CA 94043-0888
Owner/Operator Telephone:	650-967-3602
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	LANDEC CORPORATION

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**PREMIER PROPERTIES (Continued)**

**1000818864**

Legal Status: Private  
Date Became Current: 19881001  
Date Ended Current: Not reported  
Owner/Operator Address: 5201 GREAT AMERICA PARKWAY  
Owner/Operator City,State,Zip: SANTA CLARA, CA 95054  
Owner/Operator Telephone: 650-306-1650  
Owner/Operator Telephone Ext: Not reported  
Owner/Operator Fax: Not reported  
Owner/Operator Email: RWONG@LANDEC.COM

Owner/Operator Indicator: Operator  
Owner/Operator Name: LANDEC CORPORATION  
Legal Status: Private  
Date Became Current: 19881001  
Date Ended Current: Not reported  
Owner/Operator Address: 5201 GREAT AMERICA PARKWAY  
Owner/Operator City,State,Zip: SANTA CLARA, CA 95054  
Owner/Operator Telephone: 650-306-1650  
Owner/Operator Telephone Ext: Not reported  
Owner/Operator Fax: Not reported  
Owner/Operator Email: RWONG@LANDEC.COM

Owner/Operator Indicator: Owner  
Owner/Operator Name: 3603 HAVEN LLC  
Legal Status: Private  
Date Became Current: 20170901  
Date Ended Current: Not reported  
Owner/Operator Address: 539 ALMA STREET  
Owner/Operator City,State,Zip: PALO ALTO, CA 94301  
Owner/Operator Telephone: 650-618-3000  
Owner/Operator Telephone Ext: Not reported  
Owner/Operator Fax: Not reported  
Owner/Operator Email: CAROLYN.WILDER@PRPROP.COM

Owner/Operator Indicator: Owner  
Owner/Operator Name: 3603 HAVEN LLC  
Legal Status: Private  
Date Became Current: 20170901  
Date Ended Current: Not reported  
Owner/Operator Address: 539 ALMA STREET  
Owner/Operator City,State,Zip: PALO ALTO, CA 94301  
Owner/Operator Telephone: 650-618-3000  
Owner/Operator Telephone Ext: Not reported  
Owner/Operator Fax: Not reported  
Owner/Operator Email: CAROLYN.WILDER@PRPROP.COM

Historic Generators:  
Receive Date: 20180418  
Handler Name: LANDEC CORP  
Federal Waste Generator Description: Large Quantity Generator  
State District Owner: Not reported  
Large Quantity Handler of Universal Waste: No  
Recognized Trader Importer: No  
Recognized Trader Exporter: No  
Spent Lead Acid Battery Importer: No  
Spent Lead Acid Battery Exporter: No  
Current Record: No



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**PREMIER PROPERTIES (Continued)**

**1000818864**

Non Storage Recycler Activity: No  
Electronic Manifest Broker: No  
  
Receive Date: 20190125  
Handler Name: LANDEC CORP  
Federal Waste Generator Description: Large Quantity Generator  
State District Owner: Not reported  
Large Quantity Handler of Universal Waste: No  
Recognized Trader Importer: No  
Recognized Trader Exporter: No  
Spent Lead Acid Battery Importer: No  
Spent Lead Acid Battery Exporter: No  
Current Record: Yes  
Non Storage Recycler Activity: No  
Electronic Manifest Broker: No

Receive Date: 20001010  
Handler Name: SUNESIS PHARMACEUTICALS  
Federal Waste Generator Description: Small Quantity Generator  
State District Owner: Not reported  
Large Quantity Handler of Universal Waste: No  
Recognized Trader Importer: No  
Recognized Trader Exporter: No  
Spent Lead Acid Battery Importer: No  
Spent Lead Acid Battery Exporter: No  
Current Record: No  
Non Storage Recycler Activity: Not reported  
Electronic Manifest Broker: Not reported

Receive Date: 19990304  
Handler Name: LANDEC CORPORATION  
Federal Waste Generator Description: Large Quantity Generator  
State District Owner: Not reported  
Large Quantity Handler of Universal Waste: No  
Recognized Trader Importer: No  
Recognized Trader Exporter: No  
Spent Lead Acid Battery Importer: No  
Spent Lead Acid Battery Exporter: No  
Current Record: No  
Non Storage Recycler Activity: Not reported  
Electronic Manifest Broker: Not reported

Receive Date: 20001012  
Handler Name: LANDEC CORPORATION  
Federal Waste Generator Description: Large Quantity Generator  
State District Owner: Not reported  
Large Quantity Handler of Universal Waste: No  
Recognized Trader Importer: No  
Recognized Trader Exporter: No  
Spent Lead Acid Battery Importer: No  
Spent Lead Acid Battery Exporter: No  
Current Record: No  
Non Storage Recycler Activity: Not reported  
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:

NAICS Code: 325211

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**PREMIER PROPERTIES (Continued)**

**1000818864**

NAICS Description: PLASTICS MATERIAL AND RESIN MANUFACTURING  
NAICS Code: 326199  
NAICS Description: ALL OTHER PLASTICS PRODUCT MANUFACTURING

Facility Has Received Notices of Violations:  
Violations: No Violations Found

Evaluation Action Summary:  
Evaluations: No Evaluations Found

FINDS:  
Registry ID: 110000785473

Click Here for FRS Facility Detail Report:

Environmental Interest/Information System:  
TSCA SUBMITTER  
California Hazardous Waste Tracking System - Datamart (HWTS-DATAMART) provides California with information on hazardous waste shipments for generators, transporters, and treatment, storage, and disposal facilities.  
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.  
HAZARDOUS AIR POLLUTANT MAJOR  
STATE MASTER  
HAZARDOUS WASTE BIENNIAL REPORTER

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

H91  
WNW  
1/8-1/4  
0.151 mi.  
798 ft.

**NVS TECHNOLOGIES INC**  
**3603 HAVEN AVE STE A**  
**MENLO PARK, CA 94025**

**CA San Mateo Co. BI**  
**CA HAZNET**  
**CA HWTS**

**S113158649**  
**N/A**

**Site 19 of 26 in cluster H**

**Relative:**  
**Higher**

San Mateo Co. BI:

**Actual:**  
**11 ft.**

Name: PROSETTA BIOSCIENCES INC  
Address: 3603 HAVEN  
City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0060174  
Prog Element Code: STORMWATER ANNUAL INSPECTION FEE  
Record Id: PR0082669  
Description: STORMWATER ANNUAL FEE - INSP FREQ EVERY 2 YRS  
Facility Status: Inactive, non-billable  
Program Category: STORMWATER

Name: PROSETTA BIOSCIENCES INC  
Address: 3603 HAVEN  
City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NVS TECHNOLOGIES INC (Continued)**

**S113158649**

Facility ID: FA0060174  
Prog Element Code: STORES MV FUELS OR WASTE ONLY  
Record Id: PR0082667  
Description: STORES MV FUELS OR WASTE ONLY  
Facility Status: Inactive, non-billable  
Program Category: BUSINESS PLAN PROGRAM

Name: PROSETTA BIOSCIENCES INC  
Address: 3603 HAVEN  
City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0060174  
Prog Element Code: GENERATES <27 GAL/YEAR  
Record Id: PR0082668  
Description: GENERATES <27 GAL/YEAR  
Facility Status: Inactive, non-billable  
Program Category: HAZARDOUS WASTE PROGRAM

**HAZNET:**

Name: NVS TECHNOLOGIES INC  
Address: 3603 HAVEN AVE STE A  
Address 2: Not reported  
City,State,Zip: MENLO PARK, CA 94025  
Contact: GREG EASON  
Telephone: 6503638776  
Mailing Name: Not reported  
Mailing Address: 1505 ADAMS DR STE D

Year: 2012  
Gepaid: CAL000352854  
TSD EPA ID: CAD059494310  
CA Waste Code: 352 - Other organic solids  
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)  
Tons: 0.05

Year: 2012  
Gepaid: CAL000352854  
TSD EPA ID: CAD059494310  
CA Waste Code: 343 - Unspecified organic liquid mixture  
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)  
Tons: 0.0476

Year: 2012  
Gepaid: CAL000352854  
TSD EPA ID: CAD980884183  
CA Waste Code: 725 - Liquids with mercury >= 20 Mg./L  
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)  
Tons: 0.0015

Year: 2011  
Gepaid: CAL000352854  
TSD EPA ID: CAD059494310  
CA Waste Code: 343 - Unspecified organic liquid mixture  
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NVS TECHNOLOGIES INC (Continued)**

**S113158649**

Tons:	Treatment/Reovery (H010-H129) Or (H131-H135) 0.0544
Year:	2011
Gepaid:	CAL000352854
TSD EPA ID:	CAD059494310
CA Waste Code:	352 - Other organic solids
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.025
Year:	2010
Gepaid:	CAL000352854
TSD EPA ID:	UTD981552177
CA Waste Code:	352 - Other organic solids
Disposal Method:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Tons:	0.004
Year:	2010
Gepaid:	CAL000352854
TSD EPA ID:	UTD981552177
CA Waste Code:	343 - Unspecified organic liquid mixture
Disposal Method:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Tons:	0.0034
Additional Info:	
Year:	2012
Gen EPA ID:	CAL000352854
Shipment Date:	20120416
Creation Date:	6/27/2012 20:30:23
Receipt Date:	20120503
Manifest ID:	004987109FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	CAR000210617
Trans 2 Name:	21ST CENTURY ENVIRONMENTAL MGMT OF CALIFORNIA LP
TSD EPA ID:	CAD980884183
Trans Name:	GEM OF RANCHO CORDOVA LLC
TSD Alt EPA ID:	Not reported
TSD Alt Name:	Not reported
Waste Code Description:	725 - Liquids with mercury > 20 mg/l
RCRA Code:	D009
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0015
Waste Quantity:	3
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20120416
Creation Date:	8/3/2012 22:15:13

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NVS TECHNOLOGIES INC (Continued)**

**S113158649**

Receipt Date: 20120420  
Manifest ID: 004987113FLE  
Trans EPA ID: MNS000110924  
Trans Name: STERICYCLE SPECIALTY WASTE SOLUTIONS INC  
Trans 2 EPA ID: MAD039322250  
Trans 2 Name: CLEAN HARBORS ENVIRONMENTAL SERVICES INC  
TSDf EPA ID: CAD059494310  
Trans Name: CLEAN HARBORS SAN JOSE LLC  
TSDf Alt EPA ID: Not reported  
TSDf Alt Name: Not reported  
Waste Code Description: 352 - Other organic solids  
RCRA Code: F003  
Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)

Quantity Tons: 0.05  
Waste Quantity: 100  
Quantity Unit: P  
Additional Code 1: Not reported  
Additional Code 2: Not reported  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported

Shipment Date: 20120416  
Creation Date: 8/3/2012 22:15:13  
Receipt Date: 20120420  
Manifest ID: 004987113FLE  
Trans EPA ID: MNS000110924  
Trans Name: STERICYCLE SPECIALTY WASTE SOLUTIONS INC  
Trans 2 EPA ID: MAD039322250  
Trans 2 Name: CLEAN HARBORS ENVIRONMENTAL SERVICES INC  
TSDf EPA ID: CAD059494310  
Trans Name: CLEAN HARBORS SAN JOSE LLC  
TSDf Alt EPA ID: Not reported  
TSDf Alt Name: Not reported  
Waste Code Description: 343 - Unspecified organic liquid mixture  
RCRA Code: F003  
Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)

Quantity Tons: 0.0476  
Waste Quantity: 14  
Quantity Unit: G  
Additional Code 1: D001  
Additional Code 2: Not reported  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported

Additional Info:  
Year: 2011  
Gen EPA ID: CAL000352854

Shipment Date: 20110920  
Creation Date: 7/19/2012 22:00:18  
Receipt Date: 20110927  
Manifest ID: 004550696FLE  
Trans EPA ID: CAD982492399

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NVS TECHNOLOGIES INC (Continued)**

**S113158649**

Trans Name: ALL CHEMICAL DISPOSAL INC  
Trans 2 EPA ID: MAD039322250  
Trans 2 Name: CLEAN HARBORS ENVIRONMENTAL SERVICES INC  
TSDf EPA ID: CAD059494310  
Trans Name: CLEAN HARBORS SAN JOSE LLC  
TSDf Alt EPA ID: Not reported  
TSDf Alt Name: Not reported  
Waste Code Description: 343 - Unspecified organic liquid mixture  
RCRA Code: F003  
Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)  
  
Quantity Tons: 0.017  
Waste Quantity: 5  
Quantity Unit: G  
Additional Code 1: D001  
Additional Code 2: Not reported  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported  
  
Shipment Date: 20110707  
Creation Date: 6/29/2012 20:30:06  
Receipt Date: 20110718  
Manifest ID: 004549837FLE  
Trans EPA ID: CAD982492399  
Trans Name: ALL CHEMICAL DISPOSAL INC  
Trans 2 EPA ID: MAD039322250  
Trans 2 Name: CLEAN HARBORS ENVIRONMENTAL SERVICES INC  
TSDf EPA ID: CAD059494310  
Trans Name: CLEAN HARBORS SAN JOSE LLC  
TSDf Alt EPA ID: Not reported  
TSDf Alt Name: Not reported  
Waste Code Description: 343 - Unspecified organic liquid mixture  
RCRA Code: F003  
Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)  
  
Quantity Tons: 0.0306  
Waste Quantity: 9  
Quantity Unit: G  
Additional Code 1: D001  
Additional Code 2: Not reported  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported  
  
Shipment Date: 20110707  
Creation Date: 6/29/2012 20:30:06  
Receipt Date: 20110718  
Manifest ID: 004549837FLE  
Trans EPA ID: CAD982492399  
Trans Name: ALL CHEMICAL DISPOSAL INC  
Trans 2 EPA ID: MAD039322250  
Trans 2 Name: CLEAN HARBORS ENVIRONMENTAL SERVICES INC  
TSDf EPA ID: CAD059494310  
Trans Name: CLEAN HARBORS SAN JOSE LLC  
TSDf Alt EPA ID: Not reported  
TSDf Alt Name: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NVS TECHNOLOGIES INC (Continued)**

**S113158649**

Waste Code Description:	352 - Other organic solids
RCRA Code:	F003
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.025
Waste Quantity:	50
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20110106
Creation Date:	3/31/2011 18:30:08
Receipt Date:	20110114
Manifest ID:	003548947FLE
Trans EPA ID:	CAD982492399
Trans Name:	ALL CHEMICAL DISPOSAL INC
Trans 2 EPA ID:	MAD039322250
Trans 2 Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
TSDf EPA ID:	CAD059494310
Trans Name:	CLEAN HARBORS SAN JOSE LLC
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	343 - Unspecified organic liquid mixture
RCRA Code:	F003
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0068
Waste Quantity:	2
Quantity Unit:	G
Additional Code 1:	D001
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Additional Info:	
Year:	2010
Gen EPA ID:	CAL000352854
Shipment Date:	20101019
Creation Date:	3/28/2011 18:30:08
Receipt Date:	20101028
Manifest ID:	003545733FLE
Trans EPA ID:	CAD982492399
Trans Name:	ALL CHEMICAL DISPOSAL INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDf EPA ID:	UTD981552177
Trans Name:	CLEAN HARBORS ARAGONITE LLC
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	F003
Meth Code:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NVS TECHNOLOGIES INC (Continued)**

**S113158649**

Quantity Tons: 0.004  
Waste Quantity: 8  
Quantity Unit: P  
Additional Code 1: Not reported  
Additional Code 2: Not reported  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported  
  
Shipment Date: 20101019  
Creation Date: 3/28/2011 18:30:08  
Receipt Date: 20101028  
Manifest ID: 003545733FLE  
Trans EPA ID: CAD982492399  
Trans Name: ALL CHEMICAL DISPOSAL INC  
Trans 2 EPA ID: Not reported  
Trans 2 Name: Not reported  
TSDf EPA ID: UTD981552177  
Trans Name: CLEAN HARBORS ARAGONITE LLC  
TSDf Alt EPA ID: Not reported  
TSDf Alt Name: Not reported  
Waste Code Description: 343 - Unspecified organic liquid mixture  
RCRA Code: F003  
Meth Code: H040 - Incineration--Thermal Destruction Other Than Use As A Fuel  
Quantity Tons: 0.0034  
Waste Quantity: 1  
Quantity Unit: G  
Additional Code 1: D001  
Additional Code 2: Not reported  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported

**HWTS:**

Name: NVS TECHNOLOGIES INC  
Address: 3603 HAVEN AVE STE A  
Address 2: Not reported  
City,State,Zip: MENLO PARK, CA 94025  
EPA ID: CAL000352854  
Inactive Date: 04/26/2012  
Create Date: 05/28/2010  
Last Act Date: Not reported  
Mailing Name: Not reported  
Mailing Address: 1505 ADAMS DR STE D  
Mailing Address 2: Not reported  
Mailing City,State,Zip: MENLO PARK, CA 94025  
Owner Name: NVS TECHNOLOGIES INC  
Owner Address: 3603 HAVEN AVE STE A  
Owner Address 2: Not reported  
Owner City,State,Zip: MENLO PARK, CA 940250000  
Contact Name: GREG EASON  
Contact Address: 3603 HAVEN AVE STE A  
Contact Address 2: Not reported  
City,State,Zip: MENLO PARK, CA 940250000  
Facility Status: Inactive  
Facility Type: PERMANENT  
Category: STATE



Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**NVS TECHNOLOGIES INC (Continued)**

**S113158649**

Latitude:	37.485122
Longitude:	-122.182094
NAICS:	
EPA ID:	CAL000352854
Create Date:	2011-10-26 15:19:37.000
NAICS Code:	334516
NAICS Description:	Analytical Laboratory Instrument Manufacturing
Issued EPA ID Date:	2010-05-28 13:40:06.19700
Inactive Date:	2012-04-26 00:00:00
Facility Name:	NVS TECHNOLOGIES INC
Facility Address:	3603 HAVEN AVE STE A
Facility Address 2:	Not reported
Facility City:	MENLO PARK
Facility County:	Not reported
Facility State:	CA
Facility Zip:	94025
EPA ID:	CAL000352854
Create Date:	2010-05-28 13:40:06.210
NAICS Code:	54171
NAICS Description:	Research and Development in the Physical, Engineering, and Life Sciences
Issued EPA ID Date:	2010-05-28 13:40:06.19700
Inactive Date:	2012-04-26 00:00:00
Facility Name:	NVS TECHNOLOGIES INC
Facility Address:	3603 HAVEN AVE STE A
Facility Address 2:	Not reported
Facility City:	MENLO PARK
Facility County:	Not reported
Facility State:	CA
Facility Zip:	94025

**H92**  
**WNW**  
**1/8-1/4**  
**0.151 mi.**  
**798 ft.**

**BIOCELLECTION INC**  
**3603 HAVEN AVE STE A**  
**MENLO PARK, CA 94025**

**RCRA NonGen / NLR**    **1024866062**  
**CAL000434644**

**Site 20 of 26 in cluster H**

**Relative:**  
**Higher**  
**Actual:**  
**11 ft.**

RCRA Listings:		
Date Form Received by Agency:		20180327
Handler Name:	BIOCELLECTION INC	
Handler Address:		3603 HAVEN AVE STE A
Handler City,State,Zip:		MENLO PARK, CA 94025
EPA ID:		CAL000434644
Contact Name:		JIA YUN
Contact Address:		3603 HAVEN AVE STE A
Contact City,State,Zip:		MENLO PARK, CA 94025
Contact Telephone:		408-802-2487
Contact Fax:		Not reported
Contact Email:		JEANNY@BIOCELLECTION.COM
Contact Title:		Not reported
EPA Region:		09
Land Type:		Not reported
Federal Waste Generator Description:		Not a generator, verified
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**BIOCELLECTION INC (Continued)**

**1024866062**

Accessibility:		Not reported
Active Site Indicator:		Handler Activities
State District Owner:		Not reported
State District:		Not reported
Mailing Address:		3603 HAVEN AVE STE A
Mailing City, State, Zip:		MENLO PARK, CA 94025
Owner Name:	BIOCELLECTION INC	
Owner Type:		Other
Operator Name:	JIA YUN	
Operator Type:		Other
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No
Smelting Melting and Refining Furnace Exemption:		No
Underground Injection Control:		No
Off-Site Waste Receipt:		No
Universal Waste Indicator:		Yes
Universal Waste Destination Facility:		Yes
Federal Universal Waste:		No
Active Site Fed-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site Converter Treatment storage and Disposal Facility:		Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site State-Reg Handler:		---
Federal Facility Indicator:		Not reported
Hazardous Secondary Material Indicator:		N
Sub-Part K Indicator:		Not reported
Commercial TSD Indicator:		No
Treatment Storage and Disposal Type:		Not reported
2018 GPRA Permit Baseline:		Not on the Baseline
2018 GPRA Renewals Baseline:		Not on the Baseline
Permit Renewals Workload Universe:		Not reported
Permit Workload Universe:		Not reported
Permit Progress Universe:		Not reported
Post-Closure Workload Universe:		Not reported
Closure Workload Universe:		Not reported
202 GPRA Corrective Action Baseline:		No
Corrective Action Workload Universe:		No
Subject to Corrective Action Universe:		No
Non-TSDs Where RCRA CA has Been Imposed Universe:		No
TSDs Potentially Subject to CA Under 3004 (u)/(v) Universe:		No
TSDs Only Subject to CA under Discretionary Auth Universe:		No
Corrective Action Priority Ranking:		No NCAPS ranking
Environmental Control Indicator:		No
Institutional Control Indicator:		No
Human Exposure Controls Indicator:		N/A
Groundwater Controls Indicator:		N/A
Operating TSDF Universe:		Not reported
Full Enforcement Universe:		Not reported
Significant Non-Complier Universe:		No
Unaddressed Significant Non-Complier Universe:		No
Addressed Significant Non-Complier Universe:		No
Significant Non-Complier With a Compliance Schedule Universe:		No
Financial Assurance Required:	Not reported	

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BIOCELLECTION INC (Continued)**

**1024866062**

Handler Date of Last Change: 20180907  
Recognized Trader-Importer: No  
Recognized Trader-Exporter: No  
Importer of Spent Lead Acid Batteries: No  
Exporter of Spent Lead Acid Batteries: No  
Recycler Activity Without Storage: No  
Manifest Broker: No  
Sub-Part P Indicator: No

Handler - Owner Operator:

Owner/Operator Indicator: Operator  
Owner/Operator Name: JIA YUN  
Legal Status: Other  
Date Became Current: Not reported  
Date Ended Current: Not reported  
Owner/Operator Address: 3603 HAVEN AVE STE A  
Owner/Operator City,State,Zip: MENLO PARK, CA 94025  
Owner/Operator Telephone: 408-802-2487  
Owner/Operator Telephone Ext: Not reported  
Owner/Operator Fax: Not reported  
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner  
Owner/Operator Name: BIOCELLECTION INC  
Legal Status: Other  
Date Became Current: Not reported  
Date Ended Current: Not reported  
Owner/Operator Address: 3603 HAVEN AVE STE A  
Owner/Operator City,State,Zip: MENLO PARK, CA 94025  
Owner/Operator Telephone: 408-802-2487  
Owner/Operator Telephone Ext: Not reported  
Owner/Operator Fax: Not reported  
Owner/Operator Email: Not reported

Historic Generators:

Receive Date: 20180327  
Handler Name: BIOCELLECTION INC  
Federal Waste Generator Description: Not a generator, verified  
State District Owner: Not reported  
Large Quantity Handler of Universal Waste: No  
Recognized Trader Importer: No  
Recognized Trader Exporter: No  
Spent Lead Acid Battery Importer: No  
Spent Lead Acid Battery Exporter: No  
Current Record: Yes  
Non Storage Recycler Activity: Not reported  
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:

NAICS Code: 325998  
NAICS Description: ALL OTHER MISCELLANEOUS CHEMICAL PRODUCT AND PREPARATION MANUFACTURING

Facility Has Received Notices of Violations:

Violations: No Violations Found

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BIOCELLECTION INC (Continued)**

**1024866062**

Evaluation Action Summary:  
Evaluations:

No Evaluations Found

**H93**  
**West**  
**1/8-1/4**  
**0.155 mi.**  
**818 ft.**

**AT&T MOBILITY - REDWOOD SHORES 1-HAVEN AVE (USID13**

**CA San Mateo Co. BI**

**S121793513**  
**N/A**

**REDWOOD CITY, CA 94063**

**Site 21 of 26 in cluster H**

**Relative:**  
**Higher**  
**Actual:**  
**12 ft.**

San Mateo Co. BI:

Name: AT&T MOBILITY - REDWOOD SHORES 1-HAVEN AVE (USID13253)  
Address: Not reported  
City,State,Zip: REDWOOD CITY, CA 94063  
Region: SAN MATEO  
Facility ID: FA0029297  
Prog Element Code: STORMWATER ANNUAL INSPECTION FEE  
Record Id: PR0049717  
Description: STORMWATER ANNUAL FEE - INSP FREQ EVERY 2 YRS  
Facility Status: Inactive, non-billable  
Program Category: STORMWATER

Name: AT&T MOBILITY - REDWOOD SHORES 1-HAVEN AVE (USID13253)  
Address: Not reported  
City,State,Zip: REDWOOD CITY, CA 94063  
Region: SAN MATEO  
Facility ID: FA0029297  
Prog Element Code: STORES HAZ MAT <1,199GAL,9,999LB,4,799FT3  
Record Id: PR0049716  
Description: STORES HAZ MAT <1,199GAL,9,999LB,4,799CF  
Facility Status: Active, billable  
Program Category: BUSINESS PLAN PROGRAM

**H94**  
**West**  
**1/8-1/4**  
**0.155 mi.**  
**818 ft.**

**AT & T WIRELESS**  
**3600 HAVEN**  
**REDWOOD CITY, CA 94063**

**CA San Mateo Co. BI**

**S113758010**  
**N/A**

**Site 22 of 26 in cluster H**

**Relative:**  
**Higher**  
**Actual:**  
**12 ft.**

San Mateo Co. BI:

Name: AT & T WIRELESS  
Address: 3600 HAVEN  
City,State,Zip: REDWOOD CITY, CA 94063  
Region: SAN MATEO  
Facility ID: FA0028553  
Prog Element Code: STORMWATER ANNUAL INSPECTION FEE  
Record Id: PR0047521  
Description: STORMWATER ANNUAL FEE - INSP FREQ EVERY 2 YRS  
Facility Status: Inactive, non-billable  
Program Category: STORMWATER

Name: AT & T WIRELESS  
Address: 3600 HAVEN  
City,State,Zip: REDWOOD CITY, CA 94063  
Region: SAN MATEO  
Facility ID: FA0028553

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**AT & T WIRELESS (Continued)**

**S113758010**

Prog Element Code: STORES HAZ MAT <1,199GAL,9,999LB,4,799FT3  
 Record Id: PR0047520  
 Description: STORES HAZ MAT <1,199GAL,9,999LB,4,799CF  
 Facility Status: Inactive, non-billable  
 Program Category: BUSINESS PLAN PROGRAM

**H95**  
**West**  
**1/8-1/4**  
**0.155 mi.**  
**818 ft.**

**SPACE CONTROL CO**  
**3600 HAVEN AVE UNIT #5**  
**REDWOOD CITY, CA 94063**

**RCRA-SQG 1000168302**  
**FINDS CAD981694052**  
**ECHO**

**Site 23 of 26 in cluster H**

**Relative:**  
**Higher**  
**Actual:**  
**12 ft.**

RCRA Listings:  
 Date Form Received by Agency: 19870108  
 Handler Name: SPACE CONTROL CO  
 Handler Address: 3600 HAVEN AVE UNIT #5  
 Handler City,State,Zip: REDWOOD CITY, CA 94063  
 EPA ID: CAD981694052  
 Contact Name: ENVIRONMENTAL MANAGER  
 Contact Address: 3600 HAVEN AVE UNIT #5  
 Contact City,State,Zip: REDWOOD CITY, CA 94603  
 Contact Telephone: 415-364-2797  
 Contact Fax: Not reported  
 Contact Email: Not reported  
 Contact Title: Not reported  
 EPA Region: 09  
 Land Type: Other  
 Federal Waste Generator Description: Small Quantity Generator  
 Non-Notifier: Not reported  
 Biennial Report Cycle: Not reported  
 Accessibility: Not reported  
 Active Site Indicator: Handler Activities  
 State District Owner: CA  
 State District: 2  
 Mailing Address: 3600 HAVEN AVE UNIT #5  
 Mailing City,State,Zip: REDWOOD CITY, CA 94063  
 Owner Name: RICHARD DELUCCHI  
 Owner Type: Private  
 Operator Name: NOT REQUIRED  
 Operator Type: Private  
 Short-Term Generator Activity: No  
 Importer Activity: No  
 Mixed Waste Generator: No  
 Transporter Activity: No  
 Transfer Facility Activity: No  
 Recycler Activity with Storage: No  
 Small Quantity On-Site Burner Exemption: No  
 Smelting Melting and Refining Furnace Exemption: No  
 Underground Injection Control: No  
 Off-Site Waste Receipt: No  
 Universal Waste Indicator: No  
 Universal Waste Destination Facility: No  
 Federal Universal Waste: No  
 Active Site Fed-Reg Treatment Storage and Disposal Facility: Not reported  
 Active Site Converter Treatment storage and Disposal Facility: Not reported  
 Active Site State-Reg Treatment Storage and Disposal Facility: Not reported  
 Active Site State-Reg Handler: ---  
 Federal Facility Indicator: Not reported

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**SPACE CONTROL CO (Continued)**

**1000168302**

Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20020627
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name: RICHARD DELUCCHI	
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	NOT REQUIRED
Owner/Operator City,State,Zip:	NOT REQUIRED, ME 99999
Owner/Operator Telephone:	415-555-1212
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name: NOT REQUIRED	
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SPACE CONTROL CO (Continued)**

**1000168302**

Owner/Operator Address: NOT REQUIRED  
Owner/Operator City,State,Zip: NOT REQUIRED, ME 99999  
Owner/Operator Telephone: 415-555-1212  
Owner/Operator Telephone Ext: Not reported  
Owner/Operator Fax: Not reported  
Owner/Operator Email: Not reported

Historic Generators:

Receive Date: 19870108  
Handler Name: SPACE CONTROL CO  
Federal Waste Generator Description: Small Quantity Generator  
State District Owner: CA  
Large Quantity Handler of Universal Waste: No  
Recognized Trader Importer: No  
Recognized Trader Exporter: No  
Spent Lead Acid Battery Importer: No  
Spent Lead Acid Battery Exporter: No  
Current Record: Yes  
Non Storage Recycler Activity: Not reported  
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:

NAICS Codes: No NAICS Codes Found

Facility Has Received Notices of Violations:

Violations: No Violations Found

Evaluation Action Summary:

Evaluations: No Evaluations Found

FINDS:

Registry ID: 110008272788

[Click Here for FRS Facility Detail Report:](#)

Environmental Interest/Information System:

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

[Click this hyperlink](#) while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid: 1000168302  
Registry ID: 110008272788  
DFR URL: <http://echo.epa.gov/detailed-facility-report?fid=110008272788>  
Name: SPACE CONTROL CO  
Address: 3600 HAVEN AVE UNIT #5  
City,State,Zip: REDWOOD CITY, CA 94063

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

H96  
WNW  
1/8-1/4  
0.156 mi.  
826 ft.

**MAINSRING ENERGY INC**  
**3601 HAVEN AVE**  
**MENLO PARK, CA 94025**

**CA CERS HAZ WASTE**  
**CA HAZNET**  
**CA HWTS**

**S124924520**  
**N/A**

**Site 24 of 26 in cluster H**

**Relative:**  
**Higher**

CERS HAZ WASTE:

**Actual:**  
**11 ft.**

Name: MAINSPRING ENERGY INC.  
Address: 3601 HAVEN AVE  
City,State,Zip: MENLO PARK, CA 94025  
Site ID: 441965  
CERS ID: 10769593  
CERS Description: Hazardous Waste Generator

Violations:

Site ID: 441965  
Site Name: Mainspring Energy Inc.  
Violation Date: 11-03-2022  
Citation: HSC 6.5 25123.3(h)(1) - California Health and Safety Code, Chapter 6.5, Section(s) 25123.3(h)(1)  
Violation Description: Failure to send hazardous waste offsite for treatment, storage, or disposal of acute/extremely hazardous waste after the first 1-kilogram threshold amount was accumulated within a 90 day period.  
Violation Notes: Returned to compliance on 11/29/2022. Labels on hazardous waste containers in the shed were dated from March or April of 2022, beyond the 180-day threshold for a small quantity generator. Please have these wastes picked up as soon as possible and send inspector copies of manifests.  
Violation Division: San Mateo County Environmental Health  
Violation Program: HW  
Violation Source: CERS,

Evaluation:

Eval General Type: Compliance Evaluation Inspection  
Eval Date: 11-02-2022  
Violations Found: No  
Eval Type: Routine done by local agency  
Eval Notes: Routine inspection. Last accepted HMBP submitted 2-28-2022. Facility stores various compressed gases used to test equipment and lithium ion batteries.

Eval Division: San Mateo County Environmental Health  
Eval Program: HMRRP  
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection  
Eval Date: 09-07-2018  
Violations Found: No  
Eval Type: Routine done by local agency

Eval Notes: Facility has not yet generated any hazardous waste. Business is classified as R&D in physical and engineering sciences. Uses IPA to clean parts - no wipes used yet but Adam Calmis is aware of how to dispose solvent-contaminated wipes as hazardous waste.

Eval Division: San Mateo County Environmental Health  
Eval Program: HW  
Eval Source: CERS,

Eval General Type: Other/Unknown  
Eval Date: 09-12-2018  
Violations Found: No



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MAINSRING ENERGY INC (Continued)**

**S124924520**

Eval Type: Other, not routine, done by local agency  
Eval Notes: switched to CERS  
Eval Division: San Mateo County Environmental Health  
Eval Program: HMRRP  
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection  
Eval Date: 10-27-2020  
Violations Found: No  
Eval Type: Routine done by local agency  
Eval Notes: Inspection conducted during Covid-19 pandemic.  
Eval Division: San Mateo County Environmental Health  
Eval Program: HMRRP  
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection  
Eval Date: 10-27-2020  
Violations Found: No  
Eval Type: Routine done by local agency  
Eval Notes: Inspection conducted during Covid-19 pandemic. Facility generates very small quantities of flammable and toxic liquids, aerosols, and ewaste and uses the county disposal program.  
Eval Division: San Mateo County Environmental Health  
Eval Program: HW  
Eval Source: CERS,

Eval General Type: Other/Unknown  
Eval Date: 03-24-2020  
Violations Found: No  
Eval Type: Other, not routine, done by local agency  
Eval Notes: Not reported  
Eval Division: San Mateo County Environmental Health  
Eval Program: HMRRP  
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection  
Eval Date: 09-07-2018  
Violations Found: No  
Eval Type: Routine done by local agency  
Eval Notes: Facility recently moved to this location. HMBP is in process. Only compressed gases are stored above threshold.  
Eval Division: San Mateo County Environmental Health  
Eval Program: HMRRP  
Eval Source: CERS,

Eval General Type: Other/Unknown  
Eval Date: 09-07-2022  
Violations Found: No  
Eval Type: Other, not routine, done by local agency  
Eval Notes: Not reported  
Eval Division: San Mateo County Environmental Health  
Eval Program: HMRRP  
Eval Source: CERS,

Eval General Type: Other/Unknown  
Eval Date: 03-23-2020  
Violations Found: No

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**MAINSRING ENERGY INC (Continued)**

**S124924520**

Eval Type:	Other, not routine, done by local agency
Eval Notes:	Not reported
Eval Division:	San Mateo County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS,
Eval General Type:	Other/Unknown
Eval Date:	03-29-2021
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	+email
Eval Division:	San Mateo County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS,
Eval General Type:	Other/Unknown
Eval Date:	04-16-2021
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	CERS and resp to email from MS
Eval Division:	San Mateo County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS,
Eval General Type:	Other/Unknown
Eval Date:	11-01-2019
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Not reported
Eval Division:	San Mateo County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS,
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	11-02-2022
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Routine inspection. Facility has become a small quantity generator (previously very small quantity generator). Manifests show disposal of corrosives (amines), paint-related wastes, and various other chemicals in small quantities (epichlorohydrin, cyanoacrylates, bisphenol A, and aerosols. During inspection observed onsite a drum of waste coolant, waste oil, and a container holding loctite and eurethane waste, and used sorbent.
Eval Division:	San Mateo County Environmental Health
Eval Program:	HW
Eval Source:	CERS,

Coordinates:  
 Site ID: 441965  
 Facility Name: Mainspring Energy Inc.  
 Env Int Type Code: HMBP  
 Program ID: 10769593  
 Coord Name: Not reported  
 Ref Point Type Desc: Center of a facility or station.,  
 Latitude: 37.487580  
 Longitude: -122.185490

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MAINSRING ENERGY INC (Continued)**

**S124924520**

Affiliation:

Affiliation Type Desc: Facility Mailing Address  
Entity Name: Mailing Address  
Entity Title: Not reported  
Affiliation Address: 3601 Haven Avenue  
Affiliation City: Menlo Park  
Affiliation State: CA  
Affiliation Country: Not reported  
Affiliation Zip: 94025  
Affiliation Phone: ,

Affiliation Type Desc: Identification Signer  
Entity Name: Adam Calmis  
Entity Title: Technical Operations Senior Manager  
Affiliation Address: Not reported  
Affiliation City: Not reported  
Affiliation State: Not reported  
Affiliation Country: Not reported  
Affiliation Zip: Not reported  
Affiliation Phone: ,

Affiliation Type Desc: Legal Owner  
Entity Name: Shannon Miller  
Entity Title: Not reported  
Affiliation Address: 3601 Haven Avenue  
Affiliation City: Menlo Park  
Affiliation State: CA  
Affiliation Country: United States  
Affiliation Zip: 94025  
Affiliation Phone: (650) 248-5301,

Affiliation Type Desc: Document Preparer  
Entity Name: Adam Calmis  
Entity Title: Not reported  
Affiliation Address: Not reported  
Affiliation City: Not reported  
Affiliation State: Not reported  
Affiliation Country: Not reported  
Affiliation Zip: Not reported  
Affiliation Phone: ,

Affiliation Type Desc: Environmental Contact  
Entity Name: Adam Calmis  
Entity Title: Not reported  
Affiliation Address: 3601 Haven Avenue  
Affiliation City: Menlo Park  
Affiliation State: CA  
Affiliation Country: Not reported  
Affiliation Zip: 94025  
Affiliation Phone: ,

Affiliation Type Desc: Parent Corporation  
Entity Name: Mainspring Energy International Headquarters  
Entity Title: Not reported  
Affiliation Address: Not reported  
Affiliation City: Not reported  
Affiliation State: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MAINSRING ENERGY INC (Continued)**

**S124924520**

Affiliation Country: Not reported  
Affiliation Zip: Not reported  
Affiliation Phone: ,

Affiliation Type Desc: CUPA District  
Entity Name: San Mateo County Environmental Health  
Entity Title: Not reported  
Affiliation Address: 2000 Alameda de las Pulgas, Suite 100  
Affiliation City: San Mateo  
Affiliation State: CA  
Affiliation Country: Not reported  
Affiliation Zip: 94403  
Affiliation Phone: (650) 372-6200,

Affiliation Type Desc: Operator  
Entity Name: Shannon Miller  
Entity Title: Not reported  
Affiliation Address: Not reported  
Affiliation City: Not reported  
Affiliation State: Not reported  
Affiliation Country: Not reported  
Affiliation Zip: Not reported  
Affiliation Phone: (650) 248-5301,

Affiliation Type Desc: Property Owner  
Entity Name: SFF 3601 Haven LLC  
Entity Title: Not reported  
Affiliation Address: c/o Cushman & Wakefield, PO Box 45257-103  
Affiliation City: San Francisco  
Affiliation State: CA  
Affiliation Country: United States  
Affiliation Zip: 94145  
Affiliation Phone: (833) 243-2377,

**HAZNET:**

Name: MAINSPRING ENERGY INC  
Address: 3601 HAVEN AVE  
Address 2: Not reported  
City,State,Zip: MENLO PARK, CA 94025  
Contact: ADAM CALMIS  
Telephone: 6504453108  
Mailing Name: Not reported  
Mailing Address: 3601 HAVEN AVE

Year: 2021  
Gepaid: CAL000438040  
TSD EPA ID: AZR000520478  
CA Waste Code: 352 - Other organic solids  
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)  
Tons: 0.008

Year: 2021  
Gepaid: CAL000438040  
TSD EPA ID: AZR000520478  
CA Waste Code: 331 - Off-specification, aged or surplus organics

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MAINSRING ENERGY INC (Continued)**

**S124924520**

Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)  
Tons: 0.3475  
Year: 2021  
Gepaid: CAL000438040  
TSD EPA ID: NMD002208627  
CA Waste Code: 551 - Laboratory waste chemicals  
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)  
Tons: 0.043  
Year: 2021  
Gepaid: CAL000438040  
TSD EPA ID: AZR000520478  
CA Waste Code: 135 - Unspecified aqueous solution  
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)  
Tons: 0.286  
Year: 2021  
Gepaid: CAL000438040  
TSD EPA ID: NMD002208627  
CA Waste Code: 212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.)  
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)  
Tons: 0.0035

**HWTS:**

Name: MAINSPRING ENERGY INC  
Address: 3601 HAVEN AVE  
Address 2: Not reported  
City,State,Zip: MENLO PARK, CA 94025  
EPA ID: CAL000438040  
Inactive Date: Not reported  
Create Date: 08/02/2018  
Last Act Date: Not reported  
Mailing Name: Not reported  
Mailing Address: 3601 HAVEN AVE  
Mailing Address 2: Not reported  
Mailing City,State,Zip: MENLO PARK, CA 94025  
Owner Name: MAINSPRING ENERGY INC  
Owner Address: 3601 HAVEN AVE  
Owner Address 2: Not reported  
Owner City,State,Zip: MENLO PARK, CA 94025  
Contact Name: ADAM CALMIS  
Contact Address: 3601 HAVEN AVENUE  
Contact Address 2: Not reported  
City,State,Zip: MENLO PARK, CA 94025  
Facility Status: Active  
Facility Type: PERMANENT  
Category: STATE  
Latitude: 37.487709  
Longitude: -122.1854445

**NAICS:**

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MAINSRING ENERGY INC (Continued)**

**S124924520**

EPA ID: CAL000438040  
Create Date: 2018-08-02 11:34:55.357  
NAICS Code: 541715  
NAICS Description: Research and Development in the Physical, Engineering, and Life Sciences (except Nanotechnology and Biotechnology)  
Issued EPA ID Date: 2018-08-02 11:34:55.35700  
Inactive Date: Not reported  
Facility Name: MAINSRING ENERGY INC  
Facility Address: 3601 HAVEN AVE  
Facility Address 2: Not reported  
Facility City: MENLO PARK  
Facility County: Not reported  
Facility State: CA  
Facility Zip: 94025

**H97** **ETAGEN INTERNATIONAL HEADQUARTERS** **CA San Mateo Co. BI** **S122980375**  
**WNW** **3601 HAVEN** **N/A**  
**1/8-1/4** **MENLO PARK, CA 94025**  
**0.156 mi.**  
**826 ft.** **Site 25 of 26 in cluster H**

**Relative:** San Mateo Co. BI:  
**Higher** Name: ETAGEN INTERNATIONAL HEADQUARTERS  
Address: 3601 HAVEN  
**Actual:** City,State,Zip: MENLO PARK, CA 94025  
**11 ft.** Region: SAN MATEO  
Facility ID: FA0064694  
Prog Element Code: STORES HAZ MAT <1,199GAL,9,999LB,4,799FT3  
Record Id: PR0087551  
Description: STORES HAZ MAT <1,199GAL,9,999LB,4,799CF  
Facility Status: Active, billable  
Program Category: BUSINESS PLAN PROGRAM

Name: ETAGEN INTERNATIONAL HEADQUARTERS  
Address: 3601 HAVEN  
City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0064694  
Prog Element Code: GENERATES <27 GAL/YEAR  
Record Id: PR0087552  
Description: GENERATES <27 GAL/YEAR  
Facility Status: Active, billable  
Program Category: HAZARDOUS WASTE PROGRAM

**H98** **MAINSRING ENERGY INC** **RCRA NonGen / NLR** **1024869426**  
**WNW** **3601 HAVEN AVE** **CAL000438040**  
**1/8-1/4** **MENLO PARK, CA 94025**  
**0.156 mi.**  
**826 ft.** **Site 26 of 26 in cluster H**

**Relative:** RCRA Listings:  
**Higher** Date Form Received by Agency: 20200303  
**Actual:** Handler Name: MAINSRING ENERGY INC  
**11 ft.** Handler Address: 3601 HAVEN AVE  
Handler City,State,Zip: MENLO PARK, CA 94025

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**MAINSRING ENERGY INC (Continued)**

**1024869426**

EPA ID:	CAL000438040
Contact Name:	ADAM CALMIS
Contact Address:	HAVEN AVE
Contact City,State,Zip:	MENLO PARK, CA 94025
Contact Telephone:	650-445-3108
Contact Fax:	650-227-2473
Contact Email:	ADAM.CALMIS@MAINSRINGENERGY.COM
Contact Title:	Not reported
EPA Region:	09
Land Type:	Private
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	HAVEN AVE
Mailing City,State,Zip:	MENLO PARK, CA 94025
Owner Name:	MAINSRING ENERGY INC
Owner Type:	Private
Operator Name:	MAINSRING ENERGY INC
Operator Type:	Private
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	Yes
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	Yes
Universal Waste Destination Facility:	Yes
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDs Where RCRA CA has Been Imposed Universe:	No
TSDs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MAINSRING ENERGY INC (Continued)**

**1024869426**

TSDFs Only Subject to CA under Discretionary Auth Universe: No  
Corrective Action Priority Ranking: No NCAPS ranking  
Environmental Control Indicator: No  
Institutional Control Indicator: No  
Human Exposure Controls Indicator: N/A  
Groundwater Controls Indicator: N/A  
Operating TSDF Universe: Not reported  
Full Enforcement Universe: Not reported  
Significant Non-Complier Universe: No  
Unaddressed Significant Non-Complier Universe: No  
Addressed Significant Non-Complier Universe: No  
Significant Non-Complier With a Compliance Schedule Universe: No  
Financial Assurance Required: Not reported  
Handler Date of Last Change: 20200310  
Recognized Trader-Importer: No  
Recognized Trader-Exporter: No  
Importer of Spent Lead Acid Batteries: No  
Exporter of Spent Lead Acid Batteries: No  
Recycler Activity Without Storage: No  
Manifest Broker: No  
Sub-Part P Indicator: No

Handler - Owner Operator:

Owner/Operator Indicator: Owner  
Owner/Operator Name: MAINSPRING ENERGY INC  
Legal Status: Private  
Date Became Current: Not reported  
Date Ended Current: Not reported  
Owner/Operator Address: 3601 HAVEN AVE  
Owner/Operator City,State,Zip: MENLO PARK, CA 94025  
Owner/Operator Telephone: 650-330-1051  
Owner/Operator Telephone Ext: Not reported  
Owner/Operator Fax: Not reported  
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator  
Owner/Operator Name: MAINSPRING ENERGY INC  
Legal Status: Private  
Date Became Current: Not reported  
Date Ended Current: Not reported  
Owner/Operator Address: 3601 HAVEN AVE  
Owner/Operator City,State,Zip: MENLO PARK, CA 94025  
Owner/Operator Telephone: 650-330-1051  
Owner/Operator Telephone Ext: Not reported  
Owner/Operator Fax: Not reported  
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner  
Owner/Operator Name: ETAGEN INC  
Legal Status: Other  
Date Became Current: Not reported  
Date Ended Current: Not reported  
Owner/Operator Address: 3601 HAVEN AVE  
Owner/Operator City,State,Zip: MENLO PARK, CA 94025  
Owner/Operator Telephone: 650-330-1051  
Owner/Operator Telephone Ext: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MAINSRING ENERGY INC (Continued)**

**1024869426**

Owner/Operator Fax: Not reported  
Owner/Operator Email: Not reported  
  
Owner/Operator Indicator: Operator  
Owner/Operator Name: ADAM CALMIS  
Legal Status: Other  
Date Became Current: Not reported  
Date Ended Current: Not reported  
Owner/Operator Address: 3601 HAVEN AVE  
Owner/Operator City,State,Zip: MENLO PARK, CA 94025  
Owner/Operator Telephone: 650-445-3108  
Owner/Operator Telephone Ext: Not reported  
Owner/Operator Fax: Not reported  
Owner/Operator Email: Not reported

Historic Generators:

Receive Date: 20180802  
Handler Name: ETAGEN INC  
Federal Waste Generator Description: Not a generator, verified  
State District Owner: Not reported  
Large Quantity Handler of Universal Waste: No  
Recognized Trader Importer: No  
Recognized Trader Exporter: No  
Spent Lead Acid Battery Importer: No  
Spent Lead Acid Battery Exporter: No  
Current Record: No  
Non Storage Recycler Activity: Not reported  
Electronic Manifest Broker: Not reported

Receive Date: 20200303  
Handler Name: MAINSPRING ENERGY INC  
Federal Waste Generator Description: Not a generator, verified  
State District Owner: Not reported  
Large Quantity Handler of Universal Waste: No  
Recognized Trader Importer: No  
Recognized Trader Exporter: No  
Spent Lead Acid Battery Importer: No  
Spent Lead Acid Battery Exporter: No  
Current Record: Yes  
Non Storage Recycler Activity: No  
Electronic Manifest Broker: No

List of NAICS Codes and Descriptions:

NAICS Code: 541715  
NAICS Description: RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT NANOTECHNOLOGY AND BIOTECHNOLOGY)

Facility Has Received Notices of Violations:

Violations: No Violations Found

Evaluation Action Summary:

Evaluations: No Evaluations Found

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**199**  
**ESE**  
**1/8-1/4**  
**0.176 mi.**  
**928 ft.**

**SCALE MODELS UNLIMITED**  
**111 INDEPENDENCE DR**  
**MENLO PARK, CA 94025**

**Site 1 of 5 in cluster I**

**RCRA-SQG**  
**FINDS**  
**ECHO**  
**CA San Mateo Co. BI**  
**CA HAZNET**  
**CA NON-CASE INFO**  
**CA HWTS**

**1000279317**  
**CAD981451404**

**Relative:**  
**Higher**

**Actual:**  
**12 ft.**

RCRA Listings:

Date Form Received by Agency:	19860305
Handler Name:	SCALE MODELS UNLIMITED
Handler Address:	111 INDEPENDENCE DR
Handler City,State,Zip:	MENLO PARK, CA 94025
EPA ID:	CAD981451404
Contact Name:	ENVIRONMENTAL MANAGER
Contact Address:	111 INDEPENDENCE DR
Contact City,State,Zip:	MENLO PARK, CA 94025
Contact Telephone:	415-324-2515
Contact Fax:	Not reported
Contact Email:	Not reported
Contact Title:	Not reported
EPA Region:	09
Land Type:	Not reported
Federal Waste Generator Description:	Small Quantity Generator
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	CA
State District:	2
Mailing Address:	INDEPENDENCE DR
Mailing City,State,Zip:	MENLO PARK, CA 94025
Owner Name:	DONALD NUSBAUM
Owner Type:	Private
Operator Name:	NOT REQUIRED
Operator Type:	Private
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**SCALE MODELS UNLIMITED (Continued)**

**1000279317**

2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20000915
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

**Handler - Owner Operator:**

Owner/Operator Indicator:	Owner
Owner/Operator Name: DONALD NUSBAUM	
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	NOT REQUIRED
Owner/Operator City,State,Zip:	NOT REQUIRED, ME 99999
Owner/Operator Telephone:	415-555-1212
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name: NOT REQUIRED	
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	NOT REQUIRED
Owner/Operator City,State,Zip:	NOT REQUIRED, ME 99999
Owner/Operator Telephone:	415-555-1212
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SCALE MODELS UNLIMITED (Continued)**

**1000279317**

Owner/Operator Email: Not reported

Historic Generators:

Receive Date: 19860305  
Handler Name: SCALE MODELS UNLIMITED  
Federal Waste Generator Description: Small Quantity Generator  
State District Owner: CA  
Large Quantity Handler of Universal Waste: No  
Recognized Trader Importer: No  
Recognized Trader Exporter: No  
Spent Lead Acid Battery Importer: No  
Spent Lead Acid Battery Exporter: No  
Current Record: Yes  
Non Storage Recycler Activity: Not reported  
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:

NAICS Codes: No NAICS Codes Found

Facility Has Received Notices of Violations:

Violations: No Violations Found

Evaluation Action Summary:

Evaluations: No Evaluations Found

FINDS:

Registry ID: 110002711691

[Click Here for FRS Facility Detail Report:](#)

Environmental Interest/Information System:

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

[Click this hyperlink](#) while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid: 1000279317  
Registry ID: 110002711691  
DFR URL: <http://echo.epa.gov/detailed-facility-report?fid=110002711691>  
Name: SCALE MODELS UNLIMITED  
Address: 111 INDEPENDENCE DR  
City,State,Zip: MENLO PARK, CA 94025

San Mateo Co. BI:

Name: SCALE MODELS UNLIMITED  
Address: 111 INDEPENDENCE  
City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

SCALE MODELS UNLIMITED (Continued)

1000279317

Facility ID: FA0017615  
Prog Element Code: STORES MV FUELS OR WASTE ONLY  
Record Id: PR0004084  
Description: STORES MV FUELS OR WASTE ONLY  
Facility Status: Inactive, non-billable  
Program Category: BUSINESS PLAN PROGRAM

Name: SCALE MODELS UNLIMITED  
Address: 111 INDEPENDENCE  
City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0017615  
Prog Element Code: GENERATES and RECYCLES WASTE OIL/SOLVENT  
Record Id: PR0011446  
Description: GENERATES & RECYCLES WASTE OIL/SOLVENT  
Facility Status: Inactive, non-billable  
Program Category: HAZARDOUS WASTE PROGRAM

HAZNET:

Name: SCALE MODELS UNLIMITED  
Address: 111 INDEPENDENCE DR  
Address 2: Not reported  
City,State,Zip: MENLO PARK, CA 940250000  
Contact: DONALD W NUSBAUM/PRES/OWNER  
Telephone: 6503242515  
Mailing Name: Not reported  
Mailing Address: 111 INDEPENDENCE DR

Year: 1999  
Gepaid: CAD981451404  
TSD EPA ID: CAD009452657  
CA Waste Code: 741 - Liquids with halogenated organic compounds >= 1,000 Mg./L  
Disposal Method: R01 - Recycler  
Tons: 1.2717

Year: 1999  
Gepaid: CAD981451404  
TSD EPA ID: CAD009452657  
CA Waste Code: 352 - Other organic solids  
Disposal Method: R01 - Recycler  
Tons: 0.015

Year: 1998  
Gepaid: CAD981451404  
TSD EPA ID: CAD009452657  
CA Waste Code: 741 - Liquids with halogenated organic compounds >= 1,000 Mg./L  
Disposal Method: R01 - Recycler  
Tons: 0.9172

Year: 1997  
Gepaid: CAD981451404  
TSD EPA ID: CAD009452657  
CA Waste Code: 741 - Liquids with halogenated organic compounds >= 1,000 Mg./L  
Disposal Method: R01 - Recycler  
Tons: 0.8213

Year: 1997

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

SCALE MODELS UNLIMITED (Continued)

1000279317

Gepaid:	CAD981451404
TSD EPA ID:	CAD009452657
CA Waste Code:	741 - Liquids with halogenated organic compounds >= 1,000 Mg./L
Disposal Method:	-
Tons:	0.2919
Year:	1996
Gepaid:	CAD981451404
TSD EPA ID:	CAD009452657
CA Waste Code:	741 - Liquids with halogenated organic compounds >= 1,000 Mg./L
Disposal Method:	R01 - Recycler
Tons:	1.0424
Year:	1995
Gepaid:	CAD981451404
TSD EPA ID:	CAT080022148
CA Waste Code:	551 - Laboratory waste chemicals
Disposal Method:	H01 - Transfer Station
Tons:	0.0025
Year:	1995
Gepaid:	CAD981451404
TSD EPA ID:	CAD009452657
CA Waste Code:	741 - Liquids with halogenated organic compounds >= 1,000 Mg./L
Disposal Method:	R01 - Recycler
Tons:	0.4294
Year:	1994
Gepaid:	CAD981451404
TSD EPA ID:	CAD009452657
CA Waste Code:	741 - Liquids with halogenated organic compounds >= 1,000 Mg./L
Disposal Method:	R01 - Recycler
Tons:	0.3794
Year:	1994
Gepaid:	CAD981451404
TSD EPA ID:	CAD009452657
CA Waste Code:	741 - Liquids with halogenated organic compounds >= 1,000 Mg./L
Disposal Method:	D99 - Disposal, Other
Tons:	0.2293

[Click this hyperlink](#) while viewing on your computer to access  
11 additional CA HAZNET: record(s) in the EDR Site Report.

Additional Info:

Year:	1999
Gen EPA ID:	CAD981451404
Shipment Date:	19991229
Creation Date:	3/7/2000 0:00:00
Receipt Date:	19991230
Manifest ID:	99823697
Trans EPA ID:	CAD009452657
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

SCALE MODELS UNLIMITED (Continued)

1000279317

TSDF EPA ID:	CAD009452657
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD009452657
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	D035
Meth Code:	R01 - Recycler
Quantity Tons:	0.015
Waste Quantity:	30
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19991210
Creation Date:	3/7/2000 0:00:00
Receipt Date:	19991213
Manifest ID:	99755653
Trans EPA ID:	CAD009452657
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD009452657
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD009452657
TSDF Alt Name:	Not reported
Waste Code Description:	741 - Liquids with halogenated organic compounds > 1000 mg/l
RCRA Code:	D001
Meth Code:	R01 - Recycler
Quantity Tons:	0.5212
Waste Quantity:	125
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19990707
Creation Date:	8/19/1999 0:00:00
Receipt Date:	19990707
Manifest ID:	99439027
Trans EPA ID:	CAD009452657
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD009452657
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD009452657
TSDF Alt Name:	Not reported
Waste Code Description:	741 - Liquids with halogenated organic compounds > 1000 mg/l
RCRA Code:	D001
Meth Code:	R01 - Recycler
Quantity Tons:	0.2293
Waste Quantity:	55

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

SCALE MODELS UNLIMITED (Continued)

1000279317

Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19990405
Creation Date:	5/17/1999 0:00:00
Receipt Date:	19990405
Manifest ID:	99292043
Trans EPA ID:	CAD009452657
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD009452657
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	741 - Liquids with halogenated organic compounds > 1000 mg/l
RCRA Code:	D001
Meth Code:	R01 - Recycler
Quantity Tons:	0.2293
Waste Quantity:	55
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19990202
Creation Date:	4/1/1999 0:00:00
Receipt Date:	19990202
Manifest ID:	98879817
Trans EPA ID:	CAD009452657
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD009452657
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD009452657
TSDF Alt Name:	Not reported
Waste Code Description:	741 - Liquids with halogenated organic compounds > 1000 mg/l
RCRA Code:	D001
Meth Code:	R01 - Recycler
Quantity Tons:	0.2919
Waste Quantity:	70
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Additional Info:	
Year:	1998



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

SCALE MODELS UNLIMITED (Continued)

1000279317

Gen EPA ID:	CAD981451404
Shipment Date:	19981006
Creation Date:	11/23/1998 0:00:00
Receipt Date:	19981007
Manifest ID:	98571757
Trans EPA ID:	CAD009452657
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDf EPA ID:	CAD009452657
Trans Name:	Not reported
TSDf Alt EPA ID:	CAD009452657
TSDf Alt Name:	Not reported
Waste Code Description:	741 - Liquids with halogenated organic compounds > 1000 mg/l
RCRA Code:	D001
Meth Code:	R01 - Recycler
Quantity Tons:	0.2293
Waste Quantity:	55
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19980807
Creation Date:	9/22/1998 0:00:00
Receipt Date:	19980810
Manifest ID:	98204900
Trans EPA ID:	CAD009452657
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDf EPA ID:	CAD009452657
Trans Name:	Not reported
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	741 - Liquids with halogenated organic compounds > 1000 mg/l
RCRA Code:	D001
Meth Code:	R01 - Recycler
Quantity Tons:	0.2293
Waste Quantity:	55
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19980622
Creation Date:	9/3/1998 0:00:00
Receipt Date:	19980622
Manifest ID:	98204348
Trans EPA ID:	CAD009452657
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

SCALE MODELS UNLIMITED (Continued)

1000279317

Trans 2 Name: Not reported  
TSDf EPA ID: CAD009452657  
Trans Name: Not reported  
TSDf Alt EPA ID: Not reported  
TSDf Alt Name: Not reported  
Waste Code Description: 741 - Liquids with halogenated organic compounds > 1000 mg/l  
RCRA Code: D001  
Meth Code: R01 - Recycler  
Quantity Tons: 0.2293  
Waste Quantity: 55  
Quantity Unit: G  
Additional Code 1: Not reported  
Additional Code 2: Not reported  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported

Shipment Date: 19980403  
Creation Date: 5/26/1998 0:00:00  
Receipt Date: 19980403  
Manifest ID: 98343261  
Trans EPA ID: CAD009452657  
Trans Name: Not reported  
Trans 2 EPA ID: Not reported  
Trans 2 Name: Not reported  
TSDf EPA ID: CAD009452657  
Trans Name: Not reported  
TSDf Alt EPA ID: CAD009452657  
TSDf Alt Name: Not reported  
Waste Code Description: 741 - Liquids with halogenated organic compounds > 1000 mg/l  
RCRA Code: D001  
Meth Code: R01 - Recycler  
Quantity Tons: 0.2293  
Waste Quantity: 55  
Quantity Unit: G  
Additional Code 1: Not reported  
Additional Code 2: Not reported  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported

Additional Info:  
Year: 1997  
Gen EPA ID: CAD981451404

Shipment Date: 19971222  
Creation Date: 7/23/1998 0:00:00  
Receipt Date: 19971222  
Manifest ID: 96687683  
Trans EPA ID: CAD009452657  
Trans Name: Not reported  
Trans 2 EPA ID: Not reported  
Trans 2 Name: Not reported  
TSDf EPA ID: CAD009452657  
Trans Name: Not reported  
TSDf Alt EPA ID: CAD009452657  
TSDf Alt Name: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

SCALE MODELS UNLIMITED (Continued)

1000279317

Waste Code Description: 741 - Liquids with halogenated organic compounds > 1000 mg/l  
RCRA Code: D001  
Meth Code: R01 - Recycler  
Quantity Tons: 0.2293  
Waste Quantity: 55  
Quantity Unit: G  
Additional Code 1: Not reported  
Additional Code 2: Not reported  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported

Shipment Date: 19970929  
Creation Date: 7/23/1998 0:00:00  
Receipt Date: 19970929  
Manifest ID: 96684829  
Trans EPA ID: CAD009452657  
Trans Name: Not reported  
Trans 2 EPA ID: Not reported  
Trans 2 Name: Not reported  
TSDf EPA ID: CAD009452657  
Trans Name: Not reported  
TSDf Alt EPA ID: CAD009452657  
TSDf Alt Name: Not reported  
Waste Code Description: 741 - Liquids with halogenated organic compounds > 1000 mg/l  
RCRA Code: D001  
Meth Code: R01 - Recycler  
Quantity Tons: 0.2293  
Waste Quantity: 55  
Quantity Unit: G  
Additional Code 1: Not reported  
Additional Code 2: Not reported  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported

Shipment Date: 19970926  
Creation Date: 3/18/1998 0:00:00  
Receipt Date: Not reported  
Manifest ID: 96700845  
Trans EPA ID: CAD009452657  
Trans Name: Not reported  
Trans 2 EPA ID: Not reported  
Trans 2 Name: Not reported  
TSDf EPA ID: CAD009452657  
Trans Name: Not reported  
TSDf Alt EPA ID: Not reported  
TSDf Alt Name: Not reported  
Waste Code Description: 741 - Liquids with halogenated organic compounds > 1000 mg/l  
RCRA Code: D001  
Meth Code: - Not reported  
Quantity Tons: 0.2919  
Waste Quantity: 70  
Quantity Unit: G  
Additional Code 1: Not reported  
Additional Code 2: Not reported  
Additional Code 3: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

SCALE MODELS UNLIMITED (Continued)

1000279317

Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19970714
Creation Date:	12/4/1997 0:00:00
Receipt Date:	19970714
Manifest ID:	96810481
Trans EPA ID:	CAD009452657
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDf EPA ID:	CAD009452657
Trans Name:	Not reported
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	741 - Liquids with halogenated organic compounds > 1000 mg/l
RCRA Code:	D001
Meth Code:	R01 - Recycler
Quantity Tons:	0.3627
Waste Quantity:	87
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Additional Info:	
Year:	1996
Gen EPA ID:	CAD981451404
Shipment Date:	19961213
Creation Date:	5/21/1997 0:00:00
Receipt Date:	19961213
Manifest ID:	96700845
Trans EPA ID:	CAD009452657
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDf EPA ID:	CAD009452657
Trans Name:	Not reported
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	741 - Liquids with halogenated organic compounds > 1000 mg/l
RCRA Code:	D001
Meth Code:	R01 - Recycler
Quantity Tons:	0.2919
Waste Quantity:	70
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19961021
Creation Date:	5/20/1997 0:00:00

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

SCALE MODELS UNLIMITED (Continued)

1000279317

Receipt Date: 19961021  
Manifest ID: 96355757  
Trans EPA ID: CAD009452657  
Trans Name: Not reported  
Trans 2 EPA ID: Not reported  
Trans 2 Name: Not reported  
TSDf EPA ID: CAD009452657  
Trans Name: Not reported  
TSDf Alt EPA ID: Not reported  
TSDf Alt Name: Not reported  
Waste Code Description: 741 - Liquids with halogenated organic compounds > 1000 mg/l  
RCRA Code: D001  
Meth Code: R01 - Recycler  
Quantity Tons: 0.2919  
Waste Quantity: 70  
Quantity Unit: G  
Additional Code 1: Not reported  
Additional Code 2: Not reported  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported

Shipment Date: 19960506  
Creation Date: 10/29/1996 0:00:00  
Receipt Date: 19960506  
Manifest ID: 95786496  
Trans EPA ID: CAD009452657  
Trans Name: Not reported  
Trans 2 EPA ID: Not reported  
Trans 2 Name: Not reported  
TSDf EPA ID: CAD009452657  
Trans Name: Not reported  
TSDf Alt EPA ID: Not reported  
TSDf Alt Name: Not reported  
Waste Code Description: 741 - Liquids with halogenated organic compounds > 1000 mg/l  
RCRA Code: D001  
Meth Code: R01 - Recycler  
Quantity Tons: 0.2293  
Waste Quantity: 55  
Quantity Unit: G  
Additional Code 1: Not reported  
Additional Code 2: Not reported  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported

Shipment Date: 19960206  
Creation Date: 10/10/1996 0:00:00  
Receipt Date: 19960206  
Manifest ID: 96053684  
Trans EPA ID: CAD009452657  
Trans Name: Not reported  
Trans 2 EPA ID: Not reported  
Trans 2 Name: Not reported  
TSDf EPA ID: CAD009452657  
Trans Name: Not reported  
TSDf Alt EPA ID: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

SCALE MODELS UNLIMITED (Continued)

1000279317

TSDF Alt Name: Not reported  
Waste Code Description: 741 - Liquids with halogenated organic compounds > 1000 mg/l  
RCRA Code: D001  
Meth Code: R01 - Recycler  
Quantity Tons: 0.2293  
Waste Quantity: 55  
Quantity Unit: G  
Additional Code 1: Not reported  
Additional Code 2: Not reported  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported

Additional Info:

Year: 1995  
Gen EPA ID: CAD981451404

Shipment Date: 19950501  
Creation Date: 10/24/1995 0:00:00  
Receipt Date: 19950501  
Manifest ID: 95371784  
Trans EPA ID: CAD009452657  
Trans Name: Not reported  
Trans 2 EPA ID: Not reported  
Trans 2 Name: Not reported  
TSDF EPA ID: CAD009452657  
Trans Name: Not reported  
TSDF Alt EPA ID: Not reported  
TSDF Alt Name: Not reported  
Waste Code Description: 741 - Liquids with halogenated organic compounds > 1000 mg/l  
RCRA Code: D001  
Meth Code: R01 - Recycler  
Quantity Tons: 0.2293  
Waste Quantity: 55  
Quantity Unit: G  
Additional Code 1: Not reported  
Additional Code 2: Not reported  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported

Shipment Date: 19950501  
Creation Date: 10/24/1995 0:00:00  
Receipt Date: 19950501  
Manifest ID: 95371784  
Trans EPA ID: CAD009452657  
Trans Name: Not reported  
Trans 2 EPA ID: Not reported  
Trans 2 Name: Not reported  
TSDF EPA ID: CAD009452657  
Trans Name: Not reported  
TSDF Alt EPA ID: Not reported  
TSDF Alt Name: Not reported  
Waste Code Description: 741 - Liquids with halogenated organic compounds > 1000 mg/l  
RCRA Code: D001  
Meth Code: R01 - Recycler  
Quantity Tons: 0.2001

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

SCALE MODELS UNLIMITED (Continued)

1000279317

Waste Quantity:	48
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19950125
Creation Date:	3/29/1996 0:00:00
Receipt Date:	19950130
Manifest ID:	93708454
Trans EPA ID:	CAD000603738
Trans Name:	Not reported
Trans 2 EPA ID:	ARD981908551
Trans 2 Name:	Not reported
TSDf EPA ID:	CAT080022148
Trans Name:	Not reported
TSDf Alt EPA ID:	CAT080022148
TSDf Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D009
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.0025
Waste Quantity:	5
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Additional Info:	
Year:	1994
Gen EPA ID:	CAD981451404
Shipment Date:	19941108
Creation Date:	10/19/1995 0:00:00
Receipt Date:	19941108
Manifest ID:	92671703
Trans EPA ID:	CAD009452657
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDf EPA ID:	CAD009452657
Trans Name:	Not reported
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	741 - Liquids with halogenated organic compounds > 1000 mg/l
RCRA Code:	D001
Meth Code:	R01 - Recycler
Quantity Tons:	0.3794
Waste Quantity:	91
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

SCALE MODELS UNLIMITED (Continued)

1000279317

Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19940315
Creation Date:	10/5/1995 0:00:00
Receipt Date:	19940315
Manifest ID:	93162642
Trans EPA ID:	CAD009452657
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDf EPA ID:	CAD009452657
Trans Name:	Not reported
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	741 - Liquids with halogenated organic compounds > 1000 mg/l
RCRA Code:	D001
Meth Code:	D99 - Disposal, Other
Quantity Tons:	0.2293
Waste Quantity:	55
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Additional Info:	
Year:	1993
Gen EPA ID:	CAD981451404
Shipment Date:	19930930
Creation Date:	9/12/1995 0:00:00
Receipt Date:	19930930
Manifest ID:	92670721
Trans EPA ID:	CAT080031248
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDf EPA ID:	CAD009452657
Trans Name:	Not reported
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	741 - Liquids with halogenated organic compounds > 1000 mg/l
RCRA Code:	D001
Meth Code:	D99 - Disposal, Other
Quantity Tons:	0.2293
Waste Quantity:	55
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19930223
Creation Date:	9/15/1995 0:00:00



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SCALE MODELS UNLIMITED (Continued)**

**1000279317**

Receipt Date: 19930223  
Manifest ID: 92421056  
Trans EPA ID: CAT080031248  
Trans Name: Not reported  
Trans 2 EPA ID: Not reported  
Trans 2 Name: Not reported  
TSDF EPA ID: CAD009452657  
Trans Name: Not reported  
TSDF Alt EPA ID: CAD009452657  
TSDF Alt Name: Not reported  
Waste Code Description: 214 - Unspecified solvent mixture  
RCRA Code: D001  
Meth Code: D99 - Disposal, Other  
Quantity Tons: 0.198  
Waste Quantity: 55  
Quantity Unit: G  
Additional Code 1: Not reported  
Additional Code 2: Not reported  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported

**NON-CASE INFO:**

Name: 111 INDEPENDENCE  
Address: 111 INDEPENDENCE DRIVE  
City,State,Zip: MENLO PARK, CA 94025  
Global ID: T10000011381  
Case Type: Non-Case Information  
Status: Informational Item / Review Complete  
Status Date: 03/07/2018  
Lead Agency: SAN FRANCISCO BAY RWQCB (REGION 2)  
Case Worker: KAW  
Local Agency: Not reported  
RB Case Number: Not reported  
Loc Case Number: Not reported  
File Location: Not reported  
Potential Contaminants of Concern: Trichloroethylene (TCE)  
Potential Media Affected: Other Groundwater (uses other than drinking water), Soil Vapor  
Site History: Not reported  
Begin Date: 2018-03-07 00:00:00  
How Discovered: Not reported  
How Discovered Description: Not reported  
Stop Method: Not reported  
Stop Description: Not reported  
Latitude: 37.48437  
Longitude: -122.17879  
Geotracker: [http://geotracker.waterboards.ca.gov/profile\\_report.asp?global\\_id=T10000011381](http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T10000011381)

**HWTS:**

Name: SCALE MODELS UNLIMITED  
Address: 111 INDEPENDENCE DR  
Address 2: Not reported  
City,State,Zip: MENLO PARK, CA 94025  
EPA ID: CAD981451404  
Inactive Date: 06/30/2000  
Create Date: 04/10/1987

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**SCALE MODELS UNLIMITED (Continued)**

**1000279317**

Last Act Date:	Not reported
Mailing Name:	Not reported
Mailing Address:	111 INDEPENDENCE DR
Mailing Address 2:	Not reported
Mailing City,State,Zip:	MENLO PARK, CA 940251112
Owner Name:	SCALE MODELS UNLIMITED
Owner Address:	111 INDEPENDENCE DR
Owner Address 2:	Not reported
Owner City,State,Zip:	MENLO PARK, CA 940251112
Contact Name:	DONALD W NUSBAUM/PRES/OWNER
Contact Address:	INACTIVE PER VQ00 - BMI
Contact Address 2:	Not reported
City,State,Zip:	MENLO PARK, CA 940251112
Facility Status:	Inactive
Facility Type:	PERMANENT
Category:	FEDERAL
Latitude:	37.48328
Longitude:	-122.177895

**100**  
**SSW**  
**1/8-1/4**  
**0.176 mi.**  
**929 ft.**

**FIDEL PACHECO**  
**3760 HOOVER STREET**  
**REDWOOD CITY, CA 94063**

**RCRA NonGen / NLR**

**1024769710**  
**CAC002989606**

**Relative:**  
**Higher**  
**Actual:**  
**14 ft.**

RCRA Listings:		20181116
Date Form Received by Agency:		
Handler Name:	FIDEL PACHECO	
Handler Address:		3760 HOOVER STREET
Handler City,State,Zip:		REDWOOD CITY, CA 94063
EPA ID:		CAC002989606
Contact Name:		FIDEL PACHECO
Contact Address:		3760 HOOVER STREET
Contact City,State,Zip:		REDWOOD CITY, CA 94063
Contact Telephone:		650-400-9452
Contact Fax:		Not reported
Contact Email:		CLAUDIA.MIRANDA@ATIRESTORATION.COM
Contact Title:		Not reported
EPA Region:		09
Land Type:		Not reported
Federal Waste Generator Description:		Not a generator, verified
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Handler Activities
State District Owner:		Not reported
State District:		Not reported
Mailing Address:		3760 HOOVER STREET
Mailing City,State,Zip:		REDWOOD CITY, CA 94063
Owner Name:	FIDEL PACHECO	
Owner Type:		Other
Operator Name:	FIDEL PACHECO	
Operator Type:		Other
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**FIDEL PACHECO (Continued)**

**1024769710**

Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	Yes
Universal Waste Destination Facility:	Yes
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDs Where RCRA CA has Been Imposed Universe:	No
TSDs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20181120
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

**Handler - Owner Operator:**

Owner/Operator Indicator:	Operator
Owner/Operator Name: FIDEL PACHECO	
Legal Status:	Other
Date Became Current:	Not reported

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**FIDEL PACHECO (Continued)**

**1024769710**

Date Ended Current:	Not reported
Owner/Operator Address:	3760 HOOVER STREET
Owner/Operator City,State,Zip:	REDWOOD CITY, CA 94063
Owner/Operator Telephone:	650-400-9452
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name:	FIDEL PACHECO
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	3760 HOOVER STREET
Owner/Operator City,State,Zip:	REDWOOD CITY, CA 94063
Owner/Operator Telephone:	650-400-9452
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Historic Generators:	
Receive Date:	20181116
Handler Name:	FIDEL PACHECO
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported
List of NAICS Codes and Descriptions:	
NAICS Code:	56299
NAICS Description:	ALL OTHER WASTE MANAGEMENT SERVICES
Facility Has Received Notices of Violations:	
Violations:	No Violations Found
Evaluation Action Summary:	
Evaluations:	No Evaluations Found

**J101**  
**WSW**  
**1/8-1/4**  
**0.180 mi.**  
**950 ft.**  
**Relative:**  
**Higher**  
**Actual:**  
**13 ft.**

**REDWOOD COURT MOTEL**  
**3706 ROLISON**  
**REDWOOD CITY, CA 94063**  
**Site 1 of 6 in cluster J**  
 San Mateo Co. BI:  
 Name: REDWOOD COURT MOTEL  
 Address: 3706 ROLISON  
 City,State,Zip: REDWOOD CITY, CA 94063  
 Region: SAN MATEO

**CA San Mateo Co. BI S113756662**  
**N/A**

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**REDWOOD COURT MOTEL (Continued)**

**S113756662**

Facility ID: FA0021430  
Prog Element Code: UNDERGROUND TANK - GENERAL  
Record Id: PR0037430  
Description: UNDERGROUND TANK - GENERAL  
Facility Status: Inactive, non-billable  
Program Category: UNDERGROUND TANK PROGRAM

**J102**  
**WSW**  
**1/8-1/4**  
**0.180 mi.**  
**950 ft.**

**REDWOOD MOTOR COURT**  
**3706 ROLISON**  
**REDWOOD CITY, CA 94063**

**CA LUST**  
**CA Cortese**  
**CA CERS**

**S104973101**  
**N/A**

**Site 2 of 6 in cluster J**

**Relative:**  
**Higher**  
**Actual:**  
**13 ft.**

**SAN MATEO CO. LUST:**  
Name: REDWOOD MOTOR COURT  
Address: 3706 ROLISON RD  
City,State,Zip: REDWOOD CITY, CA  
Region: SAN MATEO  
Facility ID: 330187  
Facility Status: 9- Case Closed  
Global ID: T0608114600  
APN Number: 055161350  
Case Type: REDWOOD CITY, CA  
EDR Link ID: REDWOOD CITY, CA

**LUST:**

Name: REDWOOD MOTOR COURT  
Address: 3706 ROLISON ROAD  
City,State,Zip: REDWOOD CITY, CA 94063  
Lead Agency: SAN MATEO COUNTY LOP  
Case Type: LUST Cleanup Site  
Geo Track: [http://geotracker.waterboards.ca.gov/profile\\_report.asp?global\\_id=T0608114600](http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0608114600)  
Global Id: T0608114600  
Latitude: 37.484315  
Longitude: -122.185691  
Status: Completed - Case Closed  
Status Date: 01/20/2012  
Case Worker: Not reported  
RB Case Number: 41-4021  
Local Agency: Not reported  
File Location: Local Agency  
Local Case Number: 330187  
Potential Media Affect: Other Groundwater (uses other than drinking water)  
Potential Contaminants of Concern: Lead, Gasoline  
Site History: Can be extracted from most recent report in Geotracker or at San Mateo County offices if submitted prior to 2005, San Mateo County does not take responsibility for the accuracy of the statements made or any professional interpretations made in the referenced report.

**LUST:**

Global Id: T0608114600  
Contact Type: Regional Board Caseworker  
Contact Name: Regional Water Board  
Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)  
Address: 1515 CLAY ST SUITE 1400  
City: OAKLAND  
Email: Not reported  
Phone Number: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

REDWOOD MOTOR COURT (Continued)

S104973101

LUST:

Global Id: T0608114600  
Action Type: ENFORCEMENT  
Date: 07/31/2001  
Action: Staff Letter - #20010731

Global Id: T0608114600  
Action Type: RESPONSE  
Date: 11/27/2001  
Action: Soil and Water Investigation Report

Global Id: T0608114600  
Action Type: RESPONSE  
Date: 12/31/2009  
Action: Site Assessment Report

Global Id: T0608114600  
Action Type: RESPONSE  
Date: 03/14/2002  
Action: Other Report / Document

Global Id: T0608114600  
Action Type: RESPONSE  
Date: 12/12/2007  
Action: Soil and Water Investigation Workplan

Global Id: T0608114600  
Action Type: ENFORCEMENT  
Date: 08/21/2008  
Action: Notice of Violation - #20080821

Global Id: T0608114600  
Action Type: ENFORCEMENT  
Date: 08/31/2010  
Action: Notice of Violation - #20100831

Global Id: T0608114600  
Action Type: Other  
Date: 07/17/2000  
Action: Leak Reported

Global Id: T0608114600  
Action Type: ENFORCEMENT  
Date: 11/16/2010  
Action: Notice of Violation - #20101116

Global Id: T0608114600  
Action Type: ENFORCEMENT  
Date: 01/28/2002  
Action: Staff Letter - #20020128

Global Id: T0608114600  
Action Type: ENFORCEMENT  
Date: 08/13/2007  
Action: Staff Letter - #20070813

Global Id: T0608114600

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**REDWOOD MOTOR COURT (Continued)**

**S104973101**

Action Type: ENFORCEMENT  
Date: 06/07/2001  
Action: Notice of Responsibility - #20010607

Global Id: T0608114600  
Action Type: ENFORCEMENT  
Date: 05/22/2008  
Action: Notice of Violation - #20080522

Global Id: T0608114600  
Action Type: ENFORCEMENT  
Date: 12/13/2011  
Action: File Review - Closure - #20111213

Global Id: T0608114600  
Action Type: ENFORCEMENT  
Date: 01/20/2012  
Action: Closure/No Further Action Letter - #20120120

Global Id: T0608114600  
Action Type: ENFORCEMENT  
Date: 08/04/2009  
Action: Staff Letter - #20090804

Global Id: T0608114600  
Action Type: ENFORCEMENT  
Date: 06/22/2009  
Action: Staff Letter - #20090622

**LUST:**

Global Id: T0608114600  
Status: Open - Case Begin Date  
Status Date: 06/08/2000

Global Id: T0608114600  
Status: Open - Site Assessment  
Status Date: 06/08/2000

Global Id: T0608114600  
Status: Completed - Case Closed  
Status Date: 01/20/2012

**LUST REG 2:**

Region: 2  
Facility Id: Not reported  
Facility Status: Post remedial action monitoring  
Case Number: 330187  
How Discovered: OM  
Leak Cause: Unknown  
Leak Source: Unknown  
Date Leak Confirmed: Not reported  
Oversight Program: LUST  
Prelim. Site Assessment Workplan Submitted: Not reported  
Preliminary Site Assessment Began: Not reported  
Pollution Characterization Began: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**REDWOOD MOTOR COURT (Continued)**

**S104973101**

Pollution Remediation Plan Submitted: Not reported  
Date Remediation Action Underway: Not reported  
Date Post Remedial Action Monitoring Began: 1/1/1965

**CORTESE:**

Name: REDWOOD MOTOR COURT  
Address: 3706 ROLISON ROAD  
City,State,Zip: REDWOOD CITY, CA 94063  
Region: CORTESE  
Envirostor Id: Not reported  
Global ID: T0608114600  
Site/Facility Type: LUST CLEANUP SITE  
Cleanup Status: COMPLETED - CASE CLOSED  
Status Date: Not reported  
Site Code: Not reported  
Latitude: Not reported  
Longitude: Not reported  
Owner: Not reported  
Enf Type: Not reported  
Swat R: Not reported  
Flag: active  
Order No: Not reported  
Waste Discharge System No: Not reported  
Effective Date: Not reported  
Region 2: Not reported  
WID Id: Not reported  
Solid Waste Id No: Not reported  
Waste Management Uit Name: Not reported  
File Name: Active Open

**CERS:**

Name: REDWOOD MOTOR COURT  
Address: 3706 ROLISON ROAD  
City,State,Zip: REDWOOD CITY, CA 94063  
Site ID: 250352  
CERS ID: T0608114600  
CERS Description: Leaking Underground Storage Tank Cleanup Site

**Affiliation:**

Affiliation Type Desc: Regional Board Caseworker  
Entity Name: Regional Water Board - SAN FRANCISCO BAY RWQCB (REGION 2)  
Entity Title: Not reported  
Affiliation Address: 1515 CLAY ST SUITE 1400  
Affiliation City: OAKLAND  
Affiliation State: CA  
Affiliation Country: Not reported  
Affiliation Zip: Not reported  
Affiliation Phone: ,

Affiliation Type Desc: Regional Board Caseworker  
Entity Name: UUU - SAN FRANCISCO BAY RWQCB (REGION 2)  
Entity Title: Not reported  
Affiliation Address: 1515 CLAY ST SUITE 1400  
Affiliation City: OAKLAND  
Affiliation State: CA  
Affiliation Country: Not reported  
Affiliation Zip: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**REDWOOD MOTOR COURT (Continued)**

**S104973101**

Affiliation Phone: ,

**K103**  
**South**  
**1/8-1/4**  
**0.180 mi.**  
**950 ft.**

**AT&T CALIFORNIA - CA0336 (P39AR)**  
**1200 MARSH**  
**REDWOOD CITY, CA 94063**

**CA San Mateo Co. BI**

**S113790527**  
**N/A**

**Site 1 of 2 in cluster K**

**Relative:**  
**Higher**  
**Actual:**  
**16 ft.**

San Mateo Co. BI:  
Name: AT&T CALIFORNIA - CA0336 (P39AR)  
Address: 1200 MARSH  
City,State,Zip: REDWOOD CITY, CA 94063  
Region: SAN MATEO  
Facility ID: FA0057398  
Prog Element Code: STORMWATER ANNUAL INSPECTION FEE  
Record Id: PR0079656  
Description: STORMWATER ANNUAL FEE - INSP FREQ EVERY 2 YRS  
Facility Status: Inactive, non-billable  
Program Category: STORMWATER

Name: AT&T CALIFORNIA - CA0336 (P39AR)  
Address: 1200 MARSH  
City,State,Zip: REDWOOD CITY, CA 94063  
Region: SAN MATEO  
Facility ID: FA0057398  
Prog Element Code: STORES MV FUELS OR WASTE ONLY  
Record Id: PR0079654  
Description: STORES MV FUELS OR WASTE ONLY  
Facility Status: Inactive, non-billable  
Program Category: BUSINESS PLAN PROGRAM

Name: AT&T CALIFORNIA - CA0336 (P39AR)  
Address: 1200 MARSH  
City,State,Zip: REDWOOD CITY, CA 94063  
Region: SAN MATEO  
Facility ID: FA0057398  
Prog Element Code: GENERATES <27 GAL/YEAR  
Record Id: PR0079655  
Description: GENERATES <27 GAL/YEAR  
Facility Status: Inactive, non-billable  
Program Category: HAZARDOUS WASTE PROGRAM

**K104**  
**South**  
**1/8-1/4**  
**0.180 mi.**  
**950 ft.**

**ATT**  
**1200 MARSH RD**  
**REDWOOD CITY, CA 94063**

**RCRA NonGen / NLR**

**1024837257**  
**CAL000382274**

**Site 2 of 2 in cluster K**

**Relative:**  
**Higher**  
**Actual:**  
**16 ft.**

RCRA Listings:  
Date Form Received by Agency: 20130207  
Handler Name: ATT  
Handler Address: 1200 MARSH RD  
Handler City,State,Zip: REDWOOD CITY, CA 94063-4507  
EPA ID: CAL000382274  
Contact Name: DERONICA LAMB

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**ATT (Continued)**

**1024837257**

Contact Address:		308 S. AKARD ST.
Contact City,State,Zip:		DALLAS, TX 75202
Contact Telephone:		214-741-0464
Contact Fax:		Not reported
Contact Email:		EHSRRC@LIST.ATT.COM
Contact Title:		Not reported
EPA Region:		09
Land Type:		Not reported
Federal Waste Generator Description:		Not a generator, verified
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Handler Activities
State District Owner:		Not reported
State District:		Not reported
Mailing Address:		308 S. AKARD ST.
Mailing City,State,Zip:		DALLAS, TX 75202-0000
Owner Name:	AT&T COMPANIES	
Owner Type:		Other
Operator Name:	DERONICA LAMB	
Operator Type:		Other
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No
Smelting Melting and Refining Furnace Exemption:		No
Underground Injection Control:		No
Off-Site Waste Receipt:		No
Universal Waste Indicator:		Yes
Universal Waste Destination Facility:		Yes
Federal Universal Waste:		No
Active Site Fed-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site Converter Treatment storage and Disposal Facility:		Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site State-Reg Handler:		---
Federal Facility Indicator:		Not reported
Hazardous Secondary Material Indicator:		N
Sub-Part K Indicator:		Not reported
Commercial TSD Indicator:		No
Treatment Storage and Disposal Type:		Not reported
2018 GPRC Permit Baseline:		Not on the Baseline
2018 GPRC Renewals Baseline:		Not on the Baseline
Permit Renewals Workload Universe:		Not reported
Permit Workload Universe:		Not reported
Permit Progress Universe:		Not reported
Post-Closure Workload Universe:		Not reported
Closure Workload Universe:		Not reported
202 GPRC Corrective Action Baseline:		No
Corrective Action Workload Universe:		No
Subject to Corrective Action Universe:		No
Non-TSDs Where RCRA CA has Been Imposed Universe:		No
TSDs Potentially Subject to CA Under 3004 (u)/(v) Universe:		No
TSDs Only Subject to CA under Discretionary Auth Universe:		No
Corrective Action Priority Ranking:		No NCAPS ranking

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**ATT (Continued)**

**1024837257**

Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDU Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20180906
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name:	DERONICA LAMB
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	308 S. AKARD ST.
Owner/Operator City,State,Zip:	DALLAS, TX 75202
Owner/Operator Telephone:	214-741-0464
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	AT&T COMPANIES
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	308 S. AKARD ST.
Owner/Operator City,State,Zip:	DALLAS, TX 75202-0000
Owner/Operator Telephone:	214-741-0464
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	20130207
Handler Name:	ATT
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**ATT (Continued)**

**1024837257**

Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:

NAICS Code:	51334
NAICS Description:	SATELLITE TELECOMMUNICATIONS

Facility Has Received Notices of Violations:

Violations:	No Violations Found
-------------	---------------------

Evaluation Action Summary:

Evaluations:	No Evaluations Found
--------------	----------------------

**L105**  
**East**  
**1/8-1/4**  
**0.180 mi.**  
**952 ft.**

**UNITED RENTALS (NORTH AMERICA) INC.**  
**105 CONSTITUTION DRIVE**  
**MENLO PARK, CA 94025**

**RCRA NonGen / NLR**

**1024763227**  
**CAC002983090**

**Site 1 of 8 in cluster L**

**Relative:**  
**Lower**  
**Actual:**  
**9 ft.**

RCRA Listings:	
Date Form Received by Agency:	20181002
Handler Name:	UNITED RENTALS (NORTH AMERICA) INC.
Handler Address:	105 CONSTITUTION DRIVE
Handler City,State,Zip:	MENLO PARK, CA 94025
EPA ID:	CAC002983090
Contact Name:	UNITED RENTALS (NORTH AMERICA) INC.
Contact Address:	791 E. 64TH AVE.
Contact City,State,Zip:	DENVER, CO 80229
Contact Telephone:	331-227-0470
Contact Fax:	Not reported
Contact Email:	SKETTMAN@EMIOK.COM
Contact Title:	Not reported
EPA Region:	09
Land Type:	Not reported
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	791 E. 64TH AVE.
Mailing City,State,Zip:	DENVER, CO 80229
Owner Name:	UNITED RENTALS (NORTH AMERICA) INC.
Owner Type:	Other
Operator Name:	UNITED RENTALS (NORTH AMERICA) INC.
Operator Type:	Other
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**UNITED RENTALS (NORTH AMERICA) INC. (Continued)**

**1024763227**

Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	Yes
Universal Waste Destination Facility:	Yes
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRC Permit Baseline:	Not on the Baseline
2018 GPRC Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRC Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDs Where RCRA CA has Been Imposed Universe:	No
TSDs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSD Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20181120
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	UNITED RENTALS (NORTH AMERICA) INC.
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	791 E. 64TH AVE.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**UNITED RENTALS (NORTH AMERICA) INC. (Continued)**

**1024763227**

Owner/Operator City,State,Zip: DENVER, CO 80229  
Owner/Operator Telephone: 331-227-0470  
Owner/Operator Telephone Ext: Not reported  
Owner/Operator Fax: Not reported  
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator  
Owner/Operator Name: UNITED RENTALS (NORTH AMERICA) INC.  
Legal Status: Other  
Date Became Current: Not reported  
Date Ended Current: Not reported  
Owner/Operator Address: 791 E. 64TH AVE.  
Owner/Operator City,State,Zip: DENVER, CO 80229  
Owner/Operator Telephone: 331-227-0470  
Owner/Operator Telephone Ext: Not reported  
Owner/Operator Fax: Not reported  
Owner/Operator Email: Not reported

Historic Generators:

Receive Date: 20181002  
Handler Name: UNITED RENTALS (NORTH AMERICA) INC.  
Federal Waste Generator Description: Not a generator, verified  
State District Owner: Not reported  
Large Quantity Handler of Universal Waste: No  
Recognized Trader Importer: No  
Recognized Trader Exporter: No  
Spent Lead Acid Battery Importer: No  
Spent Lead Acid Battery Exporter: No  
Current Record: Yes  
Non Storage Recycler Activity: Not reported  
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:

NAICS Code: 56299  
NAICS Description: ALL OTHER WASTE MANAGEMENT SERVICES

Facility Has Received Notices of Violations:

Violations: No Violations Found

Evaluation Action Summary:

Evaluations: No Evaluations Found

**L106**  
**East**  
**1/8-1/4**  
**0.180 mi.**  
**952 ft.**

**META PLATFORMS, INC. MPK62PS/63PS**  
**105/155 CONSTITUTION DR**  
**MENLO PARK, CA 94025**  
**Site 2 of 8 in cluster L**

**CA CERS HAZ WASTE**  
**CA CERS TANKS**  
**CA CHMIRS**  
**CA CERS**

**S123299647**  
**N/A**

**Relative:**  
**Lower**  
**Actual:**  
**9 ft.**

CERS HAZ WASTE:  
Name: META PLATFORMS, INC. MPK62PS/63PS  
Address: 105/155 CONSTITUTION DR  
City,State,Zip: MENLO PARK, CA 94025  
Site ID: 595715  
CERS ID: 10850443  
CERS Description: Hazardous Waste Generator

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**META PLATFORMS, INC. MPK62PS/63PS (Continued)**

**S123299647**

**CERS TANKS:**

Name: META PLATFORMS, INC. MPK62PS/63PS  
Address: 105/155 CONSTITUTION DR  
City,State,Zip: MENLO PARK, CA 94025  
Site ID: 595715  
CERS ID: 10850443  
CERS Description: Aboveground Petroleum Storage

**CHMIRS:**

Name: Not reported  
Address: 105 CONSTITUTION DRIVE  
City,State,Zip: MENLO PARK, CA  
OES Incident Number: 18-6543  
OES notification: 09/27/2018  
OES Date: Not reported  
OES Time: Not reported  
**Date Completed: Not reported**  
Property Use: Not reported  
Agency Id Number: Not reported  
Agency Incident Number: Not reported  
Time Notified: Not reported  
Time Completed: Not reported  
Surrounding Area: Not reported  
Estimated Temperature: Not reported  
Property Management: Not reported  
More Than Two Substances Involved?: Not reported  
Resp Agency Personel # Of Decontaminated: Not reported  
Responding Agency Personel # Of Injuries: Not reported  
Responding Agency Personel # Of Fatalities: Not reported  
Others Number Of Decontaminated: Not reported  
Others Number Of Injuries: Not reported  
Others Number Of Fatalities: Not reported  
Vehicle Make/year: Not reported  
Vehicle License Number: Not reported  
Vehicle State: Not reported  
Vehicle Id Number: Not reported  
CA DOT PUC/ICC Number: Not reported  
Company Name: Not reported  
Reporting Officer Name/ID: Not reported  
Report Date: Not reported  
Facility Telephone: Not reported  
Waterway Involved: No  
Waterway: Not reported  
Spill Site: Industrial Plant  
Cleanup By: Contractor  
Containment: Not reported  
What Happened: Not reported  
Type: Not reported  
Measure: Not reported  
Other: Not reported  
Type: PETROLEUM  
Measure: Gal(s)  
Other: Not reported  
Date/Time: 1009  
Year: 2018  
Agency: Environmental Man,

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**META PLATFORMS, INC. MPK62PS/63PS (Continued)**

**S123299647**

Incident Date: 09/27/2018  
Admin Agency: San Mateo County Environmental Health  
Amount: Not reported  
Contained: Stopped, Contained  
Site Type: Not reported  
E Date: Not reported  
Substance: Hydraulic oil  
Quantity Released: 30  
Unknown: Not reported  
Substance #2: Not reported  
Substance #3: Not reported  
Evacuations: Not reported  
Number of Injuries: Not reported  
Number of Fatalities: Not reported  
#1 Pipeline: No  
#2 Pipeline: No  
#3 Pipeline: No  
#1 Vessel >= 300 Tons: No  
#2 Vessel >= 300 Tons: No  
#3 Vessel >= 300 Tons: No  
Evacs: No  
Injuries: No  
FATALS: No  
Comments: Not reported  
Description: Per the RP they blew a hydraulic line on a boom lift causing the release on to the concrete. Per the RP the release is stopped and contained. Per the RP no waterways or drinking water impacted

**CERS:**

Name: META PLATFORMS, INC. MPK62PS/63PS  
Address: 105/155 CONSTITUTION DR  
City, State, Zip: MENLO PARK, CA 94025  
Site ID: 595715  
CERS ID: 10850443  
CERS Description: Chemical Storage Facilities

**Evaluation:**

Eval General Type: Other/Unknown  
Eval Date: 01-12-2021  
Violations Found: No  
Eval Type: Other, not routine, done by local agency  
Eval Notes: Not reported  
Eval Division: San Mateo County Environmental Health  
Eval Program: HMRRP  
Eval Source: CERS,

Eval General Type: Other/Unknown  
Eval Date: 09-17-2021  
Violations Found: No  
Eval Type: Other, not routine, done by local agency  
Eval Notes: hmbp approved  
Eval Division: San Mateo County Environmental Health  
Eval Program: HMRRP  
Eval Source: CERS,

Eval General Type: Other/Unknown



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**META PLATFORMS, INC. MPK62PS/63PS (Continued)**

**S123299647**

Eval Date: 11-08-2022  
Violations Found: No  
Eval Type: Other, not routine, done by local agency  
Eval Notes: approved via cers  
Eval Division: San Mateo County Environmental Health  
Eval Program: HMRRP  
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection  
Eval Date: 01-12-2021  
Violations Found: No  
Eval Type: Routine done by local agency  
Eval Notes: Inspection conducted during Covid-10 pandemic.  
Eval Division: San Mateo County Environmental Health  
Eval Program: APSA  
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection  
Eval Date: 01-12-2021  
Violations Found: No  
Eval Type: Routine done by local agency  
Eval Notes: Inspection conducted during Covid-19 pandemic. These buildings are for parking associated with adjacent buildings, which are not yet occupied.  
Eval Division: San Mateo County Environmental Health  
Eval Program: HMRRP  
Eval Source: CERS,

**Affiliation:**

Affiliation Type Desc: CUPA District  
Entity Name: San Mateo County Environmental Health  
Entity Title: Not reported  
Affiliation Address: 2000 Alameda de las Pulgas, Suite 100  
Affiliation City: San Mateo  
Affiliation State: CA  
Affiliation Country: Not reported  
Affiliation Zip: 94403  
Affiliation Phone: (650) 372-6200,

Affiliation Type Desc: Environmental Contact  
Entity Name: Karen Sieverson  
Entity Title: Not reported  
Affiliation Address: 1 HACKER WAY, ATTN: KAREN SIEVERSON  
Affiliation City: Menlo Park  
Affiliation State: CA  
Affiliation Country: Not reported  
Affiliation Zip: 94025  
Affiliation Phone: ,

Affiliation Type Desc: Document Preparer  
Entity Name: Karen Sieverson  
Entity Title: Not reported  
Affiliation Address: Not reported  
Affiliation City: Not reported  
Affiliation State: Not reported  
Affiliation Country: Not reported  
Affiliation Zip: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**META PLATFORMS, INC. MPK62PS/63PS (Continued)**

**S123299647**

Affiliation Phone: ,

Affiliation Type Desc: Parent Corporation  
Entity Name: Meta Platforms, Inc.  
Entity Title: Not reported  
Affiliation Address: Not reported  
Affiliation City: Not reported  
Affiliation State: Not reported  
Affiliation Country: Not reported  
Affiliation Zip: Not reported  
Affiliation Phone: ,

Affiliation Type Desc: Identification Signer  
Entity Name: Karen Sieverson  
Entity Title: Global EHS Compliance Manager  
Affiliation Address: Not reported  
Affiliation City: Not reported  
Affiliation State: Not reported  
Affiliation Country: Not reported  
Affiliation Zip: Not reported  
Affiliation Phone: ,

Affiliation Type Desc: Legal Owner  
Entity Name: Meta Platforms, Inc.  
Entity Title: Not reported  
Affiliation Address: 1 Hacker Way  
Affiliation City: Menlo Park  
Affiliation State: CA  
Affiliation Country: United States  
Affiliation Zip: 94025  
Affiliation Phone: (650) 543-4800,

Affiliation Type Desc: Property Owner  
Entity Name: Bohannon Development Company  
Entity Title: Not reported  
Affiliation Address: Sixty 31st Avenue  
Affiliation City: San Mateo  
Affiliation State: CA  
Affiliation Country: United States  
Affiliation Zip: 94403  
Affiliation Phone: (650) 345-8222,

Affiliation Type Desc: Facility Mailing Address  
Entity Name: Mailing Address  
Entity Title: Not reported  
Affiliation Address: 1 Hacker Way  
Affiliation City: Menlo Park  
Affiliation State: CA  
Affiliation Country: Not reported  
Affiliation Zip: 94025  
Affiliation Phone: ,

Affiliation Type Desc: Operator  
Entity Name: Meta Platforms, Inc.  
Entity Title: Not reported  
Affiliation Address: Not reported  
Affiliation City: Not reported

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**META PLATFORMS, INC. MPK62PS/63PS (Continued)**

**S123299647**

Affiliation State: Not reported  
 Affiliation Country: Not reported  
 Affiliation Zip: Not reported  
 Affiliation Phone: (650) 543-4800,

**107  
 SSE  
 1/8-1/4  
 0.181 mi.  
 954 ft.**

**JOHNSON & JOHNSON PRODUCTS INC  
 4100 BAYSHORE HIGHWAY  
 MENLO PARK, CA 94025**

**RCRA-SQG 1000320817  
 FINDS CAD028666170  
 ECHO**

**Relative:  
 Higher  
 Actual:  
 19 ft.**

RCRA Listings:  
 Date Form Received by Agency: 19960901  
 Handler Name: JOHNSON & JOHNSON PRODUCTS INC  
 Handler Address: 4100 BAYSHORE HIGHWAY  
 Handler City,State,Zip: MENLO PARK, CA 94025  
 EPA ID: CAD028666170  
 Contact Name: Not reported  
 Contact Address: Not reported  
 Contact City,State,Zip: Not reported  
 Contact Telephone: Not reported  
 Contact Fax: Not reported  
 Contact Email: Not reported  
 Contact Title: Not reported  
 EPA Region: 09  
 Land Type: Not reported  
 Federal Waste Generator Description: Small Quantity Generator  
 Non-Notifier: Not reported  
 Biennial Report Cycle: Not reported  
 Accessibility: Not reported  
 Active Site Indicator: Handler Activities  
 State District Owner: CA  
 State District: 2  
 Mailing Address: BAYSHORE HIGHWAY  
 Mailing City,State,Zip: MENLO PARK, CA 94025  
 Owner Name: JOHNSON & JOHNSON PRODUCTS INC  
 Owner Type: Private  
 Operator Name: NOT REQUIRED  
 Operator Type: Private  
 Short-Term Generator Activity: No  
 Importer Activity: No  
 Mixed Waste Generator: No  
 Transporter Activity: No  
 Transfer Facility Activity: No  
 Recycler Activity with Storage: No  
 Small Quantity On-Site Burner Exemption: No  
 Smelting Melting and Refining Furnace Exemption: No  
 Underground Injection Control: No  
 Off-Site Waste Receipt: No  
 Universal Waste Indicator: No  
 Universal Waste Destination Facility: No  
 Federal Universal Waste: No  
 Active Site Fed-Reg Treatment Storage and Disposal Facility: Not reported  
 Active Site Converter Treatment storage and Disposal Facility: Not reported  
 Active Site State-Reg Treatment Storage and Disposal Facility: Not reported  
 Active Site State-Reg Handler: ---  
 Federal Facility Indicator: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**JOHNSON & JOHNSON PRODUCTS INC (Continued)**

**1000320817**

Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20000915
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name:	NOT REQUIRED
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	NOT REQUIRED
Owner/Operator City,State,Zip:	NOT REQUIRED, ME 99999
Owner/Operator Telephone:	415-555-1212
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	JOHNSON & JOHNSON PRODUCTS INC
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**JOHNSON & JOHNSON PRODUCTS INC (Continued)**

**1000320817**

Owner/Operator Address: NOT REQUIRED  
Owner/Operator City,State,Zip: NOT REQUIRED, ME 99999  
Owner/Operator Telephone: 415-555-1212  
Owner/Operator Telephone Ext: Not reported  
Owner/Operator Fax: Not reported  
Owner/Operator Email: Not reported

Historic Generators:

Receive Date: 19960901  
Handler Name: JOHNSON & JOHNSON PRODUCTS INC  
Federal Waste Generator Description: Small Quantity Generator  
State District Owner: CA  
Large Quantity Handler of Universal Waste: No  
Recognized Trader Importer: No  
Recognized Trader Exporter: No  
Spent Lead Acid Battery Importer: No  
Spent Lead Acid Battery Exporter: No  
Current Record: Yes  
Non Storage Recycler Activity: Not reported  
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:

NAICS Codes: No NAICS Codes Found

Facility Has Received Notices of Violations:

Violations: No Violations Found

Evaluation Action Summary:

Evaluations: No Evaluations Found

FINDS:

Registry ID: 110002640768

[Click Here for FRS Facility Detail Report:](#)

Environmental Interest/Information System:

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

[Click this hyperlink](#) while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid: 1000320817  
Registry ID: 110002640768  
DFR URL: <http://echo.epa.gov/detailed-facility-report?fid=110002640768>  
Name: JOHNSON & JOHNSON PRODUCTS INC  
Address: 4100 BAYSHORE HIGHWAY  
City,State,Zip: MENLO PARK, CA 94025

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**M108**  
**West**  
**1/8-1/4**  
**0.183 mi.**  
**967 ft.**

**INNOVATIVE DRIVE CORP**  
**3592 HAVEN AVE STE A**  
**REDWOOD CITY, CA 94063**

**RCRA NonGen / NLR**

**1024830040**  
**CAL000364456**

**Site 1 of 25 in cluster M**

**Relative:**  
**Higher**  
**Actual:**  
**12 ft.**

RCRA Listings:		
Date Form Received by Agency:		20110609
Handler Name:	INNOVATIVE DRIVE CORP	
Handler Address:		3592 HAVEN AVE STE A
Handler City,State,Zip:		REDWOOD CITY, CA 94063-4603
EPA ID:		CAL000364456
Contact Name:		BRETT KELLY
Contact Address:		3592 HAVEN AVE STE A
Contact City,State,Zip:		REDWOOD CITY, CA 94063-4603
Contact Telephone:		650-391-4931
Contact Fax:		000-000-0000
Contact Email:		INFO@INNOVATIVEDRIVE.COM
Contact Title:		Not reported
EPA Region:		09
Land Type:		Not reported
Federal Waste Generator Description:		Not a generator, verified
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Handler Activities
State District Owner:		Not reported
State District:		Not reported
Mailing Address:		3592 HAVEN AVE STE A
Mailing City,State,Zip:		REDWOOD CITY, CA 94063-4603
Owner Name:	INNOVATIVE DRIVE CORP/ LUKE CLAUSEN	
Owner Type:		Other
Operator Name:	BRETT KELLY	
Operator Type:		Other
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No
Smelting Melting and Refining Furnace Exemption:		No
Underground Injection Control:		No
Off-Site Waste Receipt:		No
Universal Waste Indicator:		Yes
Universal Waste Destination Facility:		Yes
Federal Universal Waste:		No
Active Site Fed-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site Converter Treatment storage and Disposal Facility:		Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site State-Reg Handler:		---
Federal Facility Indicator:		Not reported
Hazardous Secondary Material Indicator:		N
Sub-Part K Indicator:		Not reported
Commercial TSD Indicator:		No
Treatment Storage and Disposal Type:		Not reported
2018 GPRA Permit Baseline:		Not on the Baseline
2018 GPRA Renewals Baseline:		Not on the Baseline
Permit Renewals Workload Universe:		Not reported

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**INNOVATIVE DRIVE CORP (Continued)**

**1024830040**

Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20181001
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name: BRETT KELLY	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	3592 HAVEN AVE STE A
Owner/Operator City,State,Zip:	REDWOOD CITY, CA 94063-4603
Owner/Operator Telephone:	650-391-4931
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name: INNOVATIVE DRIVE CORP/ LUKE CLAUSEN	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	3592 HAVEN AVE
Owner/Operator City,State,Zip:	REDWOOD CITY, CA 94061-3504
Owner/Operator Telephone:	650-391-4098
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**INNOVATIVE DRIVE CORP (Continued)**

**1024830040**

Historic Generators:

Receive Date:	20110609
Handler Name:	INNOVATIVE DRIVE CORP
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:

NAICS Code:	33636
NAICS Description:	MOTOR VEHICLE SEATING AND INTERIOR TRIM MANUFACTURING
NAICS Code:	337215
NAICS Description:	SHOWCASE, PARTITION, SHELVING, AND LOCKER MANUFACTURING

Facility Has Received Notices of Violations:

Violations: No Violations Found

Evaluation Action Summary:

Evaluations: No Evaluations Found

**M109**  
**West**  
**1/8-1/4**  
**0.183 mi.**  
**967 ft.**

**PIERCE INGER TRUST, ET. AL.**  
**3592 HAVEN**  
**REDWOOD CITY, CA 94063**

**CA LUST S100930676**  
**CA Cortese N/A**  
**CA CERS**

**Site 2 of 25 in cluster M**

**Relative:**  
**Higher**  
**Actual:**  
**12 ft.**

**SAN MATEO CO. LUST:**

Name:	PIERCE INGER TRUST, ET. AL.
Address:	3592 HAVEN AVE
City,State,Zip:	REDWOOD CITY, CA
Region:	SAN MATEO
Facility ID:	330208
Facility Status:	9- Case Closed
Global ID:	T0608129088
APN Number:	055122090
Case Type:	REDWOOD CITY, CA
EDR Link ID:	REDWOOD CITY, CA

**LUST:**

Name:	PIERCE INGER TRUST, ET. AL.
Address:	3592 HAVEN
City,State,Zip:	REDWOOD CITY, CA 94063
Lead Agency:	SAN MATEO COUNTY LOP
Case Type:	LUST Cleanup Site
Geo Track:	<a href="http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0608129088">http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0608129088</a>
Global Id:	T0608129088
Latitude:	37.485669



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**PIERCE INGER TRUST, ET. AL. (Continued)**

**S100930676**

Longitude: -122.185997  
Status: Completed - Case Closed  
Status Date: 03/27/2007  
Case Worker: Not reported  
RB Case Number: Not reported  
Local Agency: Not reported  
File Location: Local Agency Warehouse  
Local Case Number: 330208  
Potential Media Affect: Other Groundwater (uses other than drinking water)  
Potential Contaminants of Concern: Gasoline  
Site History: Not reported

LUST:

Global Id: T0608129088  
Contact Type: Regional Board Caseworker  
Contact Name: Regional Water Board  
Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)  
Address: 1515 CLAY ST SUITE 1400  
City: OAKLAND  
Email: Not reported  
Phone Number: Not reported

LUST:

Global Id: T0608129088  
Action Type: Other  
Date: 06/24/2004  
Action: Leak Discovery

Global Id: T0608129088  
Action Type: Other  
Date: 09/30/2004  
Action: Leak Reported

Global Id: T0608129088  
Action Type: RESPONSE  
Date: 11/27/2006  
Action: Electronic Reporting Submittal Due

Global Id: T0608129088  
Action Type: RESPONSE  
Date: 02/13/2007  
Action: Electronic Reporting Submittal Due

Global Id: T0608129088  
Action Type: RESPONSE  
Date: 03/12/2007  
Action: Other Report / Document

Global Id: T0608129088  
Action Type: RESPONSE  
Date: 01/12/2005  
Action: Preliminary Site Assessment Workplan

Global Id: T0608129088  
Action Type: RESPONSE  
Date: 11/02/2005  
Action: Soil and Water Investigation Report

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**PIERCE INGER TRUST, ET. AL. (Continued)**

**S100930676**

Global Id:	T0608129088
Action Type:	RESPONSE
Date:	05/22/2006
Action:	Soil and Water Investigation Report
Global Id:	T0608129088
Action Type:	RESPONSE
Date:	06/01/2006
Action:	Electronic Reporting Submittal Due
Global Id:	T0608129088
Action Type:	REMEDIATION
Date:	06/24/2004
Action:	Excavation
Global Id:	T0608129088
Action Type:	ENFORCEMENT
Date:	10/18/2004
Action:	Notice of Responsibility - #20041018
Global Id:	T0608129088
Action Type:	ENFORCEMENT
Date:	01/23/2006
Action:	Staff Letter - #20060123
Global Id:	T0608129088
Action Type:	ENFORCEMENT
Date:	03/27/2007
Action:	Closure/No Further Action Letter - #20070327
Global Id:	T0608129088
Action Type:	ENFORCEMENT
Date:	07/27/2005
Action:	Staff Letter - #20050727
Global Id:	T0608129088
Action Type:	ENFORCEMENT
Date:	10/14/2004
Action:	Staff Letter - #20041014
Global Id:	T0608129088
Action Type:	ENFORCEMENT
Date:	09/26/2006
Action:	Staff Letter - #20060926
Global Id:	T0608129088
Action Type:	ENFORCEMENT
Date:	02/13/2007
Action:	Staff Letter - #20070213
Global Id:	T0608129088
Action Type:	ENFORCEMENT
Date:	12/21/2006
Action:	Staff Letter - #20061221
Global Id:	T0608129088
Action Type:	Other

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**PIERCE INGER TRUST, ET. AL. (Continued)**

**S100930676**

Date: 06/24/2004  
Action: Leak Stopped  
  
Global Id: T0608129088  
Action Type: RESPONSE  
Date: 11/02/2005  
Action: Electronic Reporting Submittal Due

**LUST:**

Global Id: T0608129088  
Status: Open - Case Begin Date  
Status Date: 06/24/2004

Global Id: T0608129088  
Status: Open - Site Assessment  
Status Date: 09/30/2004

Global Id: T0608129088  
Status: Completed - Case Closed  
Status Date: 03/27/2007

**CORTESE:**

Name: PIERCE INGER TRUST, ET. AL.  
Address: 3592 HAVEN  
City,State,Zip: REDWOOD CITY, CA 94063  
Region: CORTESE  
Envirostor Id: Not reported  
Global ID: T0608129088  
Site/Facility Type: LUST CLEANUP SITE  
Cleanup Status: COMPLETED - CASE CLOSED  
Status Date: Not reported  
Site Code: Not reported  
Latitude: Not reported  
Longitude: Not reported  
Owner: Not reported  
Enf Type: Not reported  
Swat R: Not reported  
Flag: active  
Order No: Not reported  
Waste Discharge System No: Not reported  
Effective Date: Not reported  
Region 2: Not reported  
WID Id: Not reported  
Solid Waste Id No: Not reported  
Waste Management Uit Name: Not reported  
File Name: Active Open

**CERS:**

Name: PIERCE INGER TRUST, ET. AL.  
Address: 3592 HAVEN  
City,State,Zip: REDWOOD CITY, CA 94063  
Site ID: 208887  
CERS ID: T0608129088  
CERS Description: Leaking Underground Storage Tank Cleanup Site

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**PIERCE INGER TRUST, ET. AL. (Continued)**

**S100930676**

Affiliation:

Affiliation Type Desc: Regional Board Caseworker  
Entity Name: Regional Water Board - SAN FRANCISCO BAY RWQCB (REGION 2)  
Entity Title: Not reported  
Affiliation Address: 1515 CLAY ST SUITE 1400  
Affiliation City: OAKLAND  
Affiliation State: CA  
Affiliation Country: Not reported  
Affiliation Zip: Not reported  
Affiliation Phone: ,

Affiliation Type Desc: Regional Board Caseworker  
Entity Name: UUU - SAN FRANCISCO BAY RWQCB (REGION 2)  
Entity Title: Not reported  
Affiliation Address: 1515 CLAY ST SUITE 1400  
Affiliation City: OAKLAND  
Affiliation State: CA  
Affiliation Country: Not reported  
Affiliation Zip: Not reported  
Affiliation Phone: ,

**M110**  
**West**  
**1/8-1/4**  
**0.183 mi.**  
**967 ft.**

**HAVEN OWNERS**  
**3592 HAVEN**  
**REDWOOD CITY, CA 94063**  
**Site 3 of 25 in cluster M**

**CA San Mateo Co. BI S113757984**  
**N/A**

**Relative:**  
**Higher**  
**Actual:**  
**12 ft.**

San Mateo Co. BI:  
Name: HAVEN OWNERS  
Address: 3592 HAVEN  
City,State,Zip: REDWOOD CITY, CA 94063  
Region: SAN MATEO  
Facility ID: FA0028437  
Prog Element Code: UNDERGROUND TANK - GENERAL  
Record Id: PR0047239  
Description: UNDERGROUND TANK - GENERAL  
Facility Status: Inactive, non-billable  
Program Category: UNDERGROUND TANK PROGRAM

**M111**  
**West**  
**1/8-1/4**  
**0.183 mi.**  
**967 ft.**

**INNOVATIVE DRIVE CORPORATION**  
**3592 HAVEN**  
**REDWOOD CITY, CA 94063**  
**Site 4 of 25 in cluster M**

**CA San Mateo Co. BI S125911039**  
**N/A**

**Relative:**  
**Higher**  
**Actual:**  
**12 ft.**

San Mateo Co. BI:  
Name: INNOVATIVE DRIVE CORPORATION  
Address: 3592 HAVEN  
City,State,Zip: REDWOOD CITY, CA 94063  
Region: SAN MATEO  
Facility ID: FA0067031  
Prog Element Code: GENERATES <27 GAL/YEAR  
Record Id: PR0090263  
Description: GENERATES <27 GAL/YEAR  
Facility Status: Active, billable

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**INNOVATIVE DRIVE CORPORATION (Continued)**

**S125911039**

Program Category: HAZARDOUS WASTE PROGRAM  
Name: INNOVATIVE DRIVE CORPORATION  
Address: 3592 HAVEN  
City,State,Zip: REDWOOD CITY, CA 94063  
Region: SAN MATEO  
Facility ID: FA0067031  
Prog Element Code: STORES MV FUELS OR WASTE ONLY  
Record Id: PR0090264  
Description: STORES MV FUELS OR WASTE ONLY  
Facility Status: Active, billable  
Program Category: BUSINESS PLAN PROGRAM

**M112  
West  
1/8-1/4  
0.183 mi.  
967 ft.**

**BENNETT HOPKINS CORP  
3592 HAVEN  
REDWOOD CITY, CA 94063**

**CA San Mateo Co. BI**

**S113755277  
N/A**

**Site 5 of 25 in cluster M**

**Relative:  
Higher  
Actual:  
12 ft.**

San Mateo Co. BI:

Name: BENNETT HOPKINS CORP  
Address: 3592 HAVEN  
City,State,Zip: REDWOOD CITY, CA 94063  
Region: SAN MATEO  
Facility ID: FA0004005  
Prog Element Code: GENERATES and RECYCLES WASTE OIL/SOLVENT  
Record Id: PR0011193  
Description: GENERATES & RECYCLES WASTE OIL/SOLVENT  
Facility Status: Inactive, non-billable  
Program Category: HAZARDOUS WASTE PROGRAM

Name: BENNETT HOPKINS CORP  
Address: 3592 HAVEN  
City,State,Zip: REDWOOD CITY, CA 94063  
Region: SAN MATEO  
Facility ID: FA0004005  
Prog Element Code: STORMWATER ANNUAL INSPECTION FEE  
Record Id: PR0040696  
Description: STORMWATER ANNUAL FEE - INSP FREQ EVERY 2 YRS  
Facility Status: Inactive, non-billable  
Program Category: STORMWATER

Name: BENNETT HOPKINS CORP  
Address: 3592 HAVEN  
City,State,Zip: REDWOOD CITY, CA 94063  
Region: SAN MATEO  
Facility ID: FA0004005  
Prog Element Code: STORES HAZ MAT <1,199GAL,9,999LB,4,799FT3  
Record Id: PR0003729  
Description: STORES HAZ MAT <1,199GAL,9,999LB,4,799CF  
Facility Status: Inactive, non-billable  
Program Category: BUSINESS PLAN PROGRAM

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**J113**  
**SW**  
**1/8-1/4**  
**0.186 mi.**  
**984 ft.**

**VIESTURS BENKIS**  
**3725 HOOVER STREET**  
**REDWOOD CITY, CA 94063**

**RCRA NonGen / NLR**

**1026482591**  
**CAC003088641**

**Site 3 of 6 in cluster J**

**Relative:**  
**Higher**  
**Actual:**  
**13 ft.**

RCRA Listings:		20201015
Date Form Received by Agency:		20201015
Handler Name:	VIESTURS BENKIS	
Handler Address:		3725 HOOVER STREET
Handler City,State,Zip:		REDWOOD CITY, CA 94063
EPA ID:		CAC003088641
Contact Name:		VIESTURS BENKIS
Contact Address:		3725 HOOVER STREET
Contact City,State,Zip:		REDWOOD CITY, CA 94063
Contact Telephone:		650-255-8245
Contact Fax:		Not reported
Contact Email:		MELISA@ENV-REM.COM
Contact Title:		Not reported
EPA Region:		09
Land Type:		Not reported
Federal Waste Generator Description:		Not a generator, verified
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Not reported
State District Owner:		Not reported
State District:		Not reported
Mailing Address:		3725 HOOVER STREET
Mailing City,State,Zip:		REDWOOD CITY, CA 94063
Owner Name:	VIESTURS BENKIS	
Owner Type:		Other
Operator Name:	VIESTURS BENKIS	
Operator Type:		Other
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No
Smelting Melting and Refining Furnace Exemption:		No
Underground Injection Control:		No
Off-Site Waste Receipt:		No
Universal Waste Indicator:		No
Universal Waste Destination Facility:		No
Federal Universal Waste:		No
Active Site Fed-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site Converter Treatment storage and Disposal Facility:		Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site State-Reg Handler:		---
Federal Facility Indicator:		Not reported
Hazardous Secondary Material Indicator:		N
Sub-Part K Indicator:		Not reported
Commercial TSD Indicator:		No
Treatment Storage and Disposal Type:		Not reported
2018 GPRR Permit Baseline:		Not on the Baseline
2018 GPRR Renewals Baseline:		Not on the Baseline
Permit Renewals Workload Universe:		Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**VIESTURS BENKIS (Continued)**

**1026482591**

Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20201026
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	VIESTURS BENKIS
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	3725 HOOVER STREET
Owner/Operator City,State,Zip:	REDWOOD CITY, CA 94063
Owner/Operator Telephone:	650-255-8245
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	VIESTURS BENKIS
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	3725 HOOVER STREET
Owner/Operator City,State,Zip:	REDWOOD CITY, CA 94063
Owner/Operator Telephone:	650-255-8245
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**VIESTURS BENKIS (Continued)**

**1026482591**

Historic Generators:

Receive Date: 20201015  
Handler Name: VIESTURS BENKIS  
Federal Waste Generator Description: Not a generator, verified  
State District Owner: Not reported  
Large Quantity Handler of Universal Waste: No  
Recognized Trader Importer: No  
Recognized Trader Exporter: No  
Spent Lead Acid Battery Importer: No  
Spent Lead Acid Battery Exporter: No  
Current Record: Yes  
Non Storage Recycler Activity: Not reported  
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:

NAICS Code: 56299  
NAICS Description: ALL OTHER WASTE MANAGEMENT SERVICES

Facility Has Received Notices of Violations:

Violations: No Violations Found

Evaluation Action Summary:

Evaluations: No Evaluations Found

**M114**  
**West**  
**1/8-1/4**  
**0.192 mi.**  
**1012 ft.**

**PREMIER PROPERTIES**  
**37.4861/-122.18599**  
**MENLO PARK, CA**  
**Site 6 of 25 in cluster M**

**PFAS ECHO 1027408322**  
**N/A**

**Relative:**  
**Higher**  
**Actual:**  
**11 ft.**

PFAS ECHO:

Name: PREMIER PROPERTIES  
Address: 37.4861/-122.18599  
City,State,Zip: MENLO PARK, CA  
Latitude: 37.4861  
Longitude: -122.18599  
Count: -1  
County: SAN MATEO  
Status: Active  
Region: 09  
Industry: Plastics and Resins  
ECHO Facility Report: <https://echo.epa.gov/detailed-facility-report?fid=110000785473>  
Facility Percent Minority: 64.961  
Facility Derived Tribes: Not reported  
Facility Population: 4705.74  
EJSCREEN Flag US: Y  
EJSCREEN Report: [https://ejscreen.epa.gov/mapper/mobile/EJSCREEN\\_mobile.aspx?geometry=%7B%22x%22:-122.18599,%22y%22:37.4861,%22spatialReference%22:%7B%22wkid%22:4326%7D%7D&unit=9035&areatype=&areaid=&basemap=streets&distance=1](https://ejscreen.epa.gov/mapper/mobile/EJSCREEN_mobile.aspx?geometry=%7B%22x%22:-122.18599,%22y%22:37.4861,%22spatialReference%22:%7B%22wkid%22:4326%7D%7D&unit=9035&areatype=&areaid=&basemap=streets&distance=1)  
EPA Programs: RCRA  
Federal Facility: No  
Federal Agency: Not reported  
Facility FIPS Code: 06081  
Facility Indian Country Flag: N  
Facility Collection Method: ADDRESS MATCHING-HOUSE NUMBER



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**PREMIER PROPERTIES (Continued)**

**1027408322**

Facility Derived HUC:	18050004
Facility Derived WBD:	180500040902
Facility Derived CD113:	14
Facility Derived CB2010:	060816103021059
Facility Major Flag:	Not reported
Facility Active Flag:	Y
Facility Inspection Count:	0
Facility Date Last Inspection:	Not reported
Facility Days Last Inspection:	Not reported
Facility Informal Count:	0
Facility Date Last Informal Action:	Not reported
Facility Formal Action Count:	0
Facility Date Last Formal Action:	Not reported
Facility Total Penalties:	0
Facility Penalty Count:	Not reported
Facility Date Last Penalty:	Not reported
Facility Last Penalty AMT:	Not reported
Facility QTRS With NC:	0
Facility Programs With SNC:	0
Facility Compliance Status:	No Violation Identified
Facility SNC Flag:	N
AIR Flag:	N
NPDES Flag:	N
SDWIS Flag:	N
RCRA Flag:	Y
TRI Flag:	N
GHG Flag:	N
AIR IDS:	Not reported
CAA Permit Types:	Not reported
CAA NAICS:	Not reported
CAA SICS:	Not reported
NPDES IDS:	Not reported
CWA Permit Types:	Not reported
CWA NAICS:	Not reported
CWA SICS:	Not reported
RCRA IDS:	CAD983647926
RCRA Permit Types:	LQG
RCRA NAICS:	325211
SDWA IDS:	Not reported
SDWA System Types:	Not reported
SDWA Compliance Status:	Not reported
SDWA SNC Flag:	N
TRI IDS:	Not reported
TRI Releases Transfers:	Not reported
TRI On Site Releases:	Not reported
TRI Off Site Transfers:	Not reported
TRI Reporter:	Not reported
Facility IMP Water Flag:	Not reported

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

EDR ID Number  
 EPA ID Number

**M115**  
**West**  
**1/8-1/4**  
**0.196 mi.**  
**1037 ft.**

**GENERAL CIRCUITS INC**  
**37.48612/-122.18607**  
**MENLO PARK, CA**  
**Site 7 of 25 in cluster M**

**PFAS ECHO**    **1027363078**  
**N/A**

**Relative:**  
**Higher**  
**Actual:**  
**11 ft.**

**PFAS ECHO:**  
 Name: GENERAL CIRCUITS INC  
 Address: 37.48612/-122.18607  
 City,State,Zip: MENLO PARK, CA  
 Latitude: 37.48612  
 Longitude: -122.18607  
 Count: -1  
 County: SAN MATEO  
 Status: Active  
 Region: 09  
 Industry: Electronics Industry  
 ECHO Facility Report: <https://echo.epa.gov/detailed-facility-report?fid=110002146295>  
 Facility Percent Minority: 64.925  
 Facility Derived Tribes: Not reported  
 Facility Population: 4712.05  
 EJSCREEN Flag US: N  
 EJSCREEN Report: [https://ejscreen.epa.gov/mapper/mobile/EJSCREEN\\_mobile.aspx?geometry=%7B%22x%22:-122.18607,%22y%22:37.48612,%22spatialReference%22:%7B%22wkid%22:4326%7D%7D&unit=9035&areatype=&areaid=&basemap=streets&distance=1](https://ejscreen.epa.gov/mapper/mobile/EJSCREEN_mobile.aspx?geometry=%7B%22x%22:-122.18607,%22y%22:37.48612,%22spatialReference%22:%7B%22wkid%22:4326%7D%7D&unit=9035&areatype=&areaid=&basemap=streets&distance=1)  
  
**EPA Programs:** RCRA  
**Federal Facility:** No  
**Federal Agency:** Not reported  
**Facility FIPS Code:** 06081  
**Facility Indian Country Flag:** N  
**Facility Collection Method:** ADDRESS MATCHING-HOUSE NUMBER  
**Facility Derived HUC:** 18050004  
**Facility Derived WBD:** 180500040902  
**Facility Derived CD113:** 14  
**Facility Derived CB2010:** 060816117004019  
**Facility Major Flag:** Not reported  
**Facility Active Flag:** Y  
**Facility Inspection Count:** 0  
**Facility Date Last Inspection:** Not reported  
**Facility Days Last Inspection:** Not reported  
**Facility Informal Count:** 0  
**Facility Date Last Informal Action:** Not reported  
**Facility Formal Action Count:** 0  
**Facility Date Last Formal Action:** Not reported  
**Facility Total Penalties:** 0  
**Facility Penalty Count:** Not reported  
**Facility Date Last Penalty:** Not reported  
**Facility Last Penalty AMT:** Not reported  
**Facility QTRS With NC:** 0  
**Facility Programs With SNC:** 0  
**Facility Compliance Status:** No Violation Identified  
**Facility SNC Flag:** N  
**AIR Flag:** N  
**NPDES Flag:** N  
**SDWIS Flag:** N  
**RCRA Flag:** Y  
**TRI Flag:** N  
**GHG Flag:** N  
**AIR IDS:** Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GENERAL CIRCUITS INC (Continued)**

**1027363078**

CAA Permit Types: Not reported  
CAA NAICS: Not reported  
CAA SICS: Not reported  
NPDES IDS: Not reported  
CWA Permit Types: Not reported  
CWA NAICS: Not reported  
CWA SICS: Not reported  
RCRA IDS: CAD982462335  
RCRA Permit Types: SQG  
RCRA NAICS: Not reported  
SDWA IDS: Not reported  
SDWA System Types: Not reported  
SDWA Compliance Status: Not reported  
SDWA SNC Flag: N  
TRI IDS: 94025GNRLC3585H  
TRI Releases Transfers: Not reported  
TRI On Site Releases: Not reported  
TRI Off Site Transfers: Not reported  
TRI Reporter: Not reported  
Facility IMP Water Flag: Not reported

**M116**  
**WNW**  
**1/8-1/4**  
**0.198 mi.**  
**1044 ft.**

**RAK MOTORSPORTS**  
**3585 HAVEN**  
**MENLO PARK, CA 94025**  
**Site 8 of 25 in cluster M**

**CA San Mateo Co. BI** **S122980371**  
**N/A**

**Relative:**  
**Higher**  
**Actual:**  
**11 ft.**

San Mateo Co. BI:  
Name: RAK MOTORSPORTS  
Address: 3585 HAVEN  
City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0064630  
Prog Element Code: GENERATES and RECYCLES WASTE OIL/SOLVENT  
Record Id: PR0087489  
Description: GENERATES & RECYCLES WASTE OIL/SOLVENT  
Facility Status: Inactive, non-billable  
Program Category: HAZARDOUS WASTE PROGRAM

**M117**  
**WNW**  
**1/8-1/4**  
**0.198 mi.**  
**1044 ft.**

**WORKSHOP 337 LLC**  
**3585 HAVEN AVE UNIT D**  
**MENLO PARK, CA 94025**  
**Site 9 of 25 in cluster M**

**RCRA NonGen / NLR** **1025876594**  
**CAL000449730**

**Relative:**  
**Higher**  
**Actual:**  
**11 ft.**

RCRA Listings:  
Date Form Received by Agency: 20191007  
Handler Name: WORKSHOP 337 LLC  
Handler Address: 3585 HAVEN AVE UNIT D  
Handler City,State,Zip: MENLO PARK, CA 94025  
EPA ID: CAL000449730  
Contact Name: GRAYSON WOLF  
Contact Address: 3585 HAVEN AVE UNIT D  
Contact City,State,Zip: MENLO PARK, CA 94025  
Contact Telephone: 408-695-3882  
Contact Fax: Not reported

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**WORKSHOP 337 LLC (Continued)**

**1025876594**

Contact Email:		WORKSHOP337@GMAIL.COM
Contact Title:		Not reported
EPA Region:		09
Land Type:		Not reported
Federal Waste Generator Description:		Not a generator, verified
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Not reported
State District Owner:		Not reported
State District:		Not reported
Mailing Address:		3585 HAVEN AVE UNIT D
Mailing City,State,Zip:		MENLO PARK, CA 94025
Owner Name:	GRAYSON WOLF	
Owner Type:		Other
Operator Name:	GRAYSON WOLF	
Operator Type:		Other
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No
Smelting Melting and Refining Furnace Exemption:		No
Underground Injection Control:		No
Off-Site Waste Receipt:		No
Universal Waste Indicator:		No
Universal Waste Destination Facility:		No
Federal Universal Waste:		No
Active Site Fed-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site Converter Treatment storage and Disposal Facility:		Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site State-Reg Handler:		---
Federal Facility Indicator:		Not reported
Hazardous Secondary Material Indicator:		N
Sub-Part K Indicator:		Not reported
Commercial TSD Indicator:		No
Treatment Storage and Disposal Type:		Not reported
2018 GPRA Permit Baseline:		Not on the Baseline
2018 GPRA Renewals Baseline:		Not on the Baseline
Permit Renewals Workload Universe:		Not reported
Permit Workload Universe:		Not reported
Permit Progress Universe:		Not reported
Post-Closure Workload Universe:		Not reported
Closure Workload Universe:		Not reported
202 GPRA Corrective Action Baseline:		No
Corrective Action Workload Universe:		No
Subject to Corrective Action Universe:		No
Non-TSDs Where RCRA CA has Been Imposed Universe:		No
TSDs Potentially Subject to CA Under 3004 (u)/(v) Universe:		No
TSDs Only Subject to CA under Discretionary Auth Universe:		No
Corrective Action Priority Ranking:		No NCAPS ranking
Environmental Control Indicator:		No
Institutional Control Indicator:		No
Human Exposure Controls Indicator:		N/A
Groundwater Controls Indicator:		N/A

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**WORKSHOP 337 LLC (Continued)**

**1025876594**

Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20191011
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name: GRAYSON WOLF	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	3585 HAVEN AVE
Owner/Operator City,State,Zip:	MENLO PARK, CA 94025
Owner/Operator Telephone:	408-695-3882
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name: GRAYSON WOLF	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	3585 HAVEN AVE UNIT D
Owner/Operator City,State,Zip:	MENLO PARK, CA 94025
Owner/Operator Telephone:	408-695-3882
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	20191007
Handler Name: WORKSHOP 337 LLC	
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**WORKSHOP 337 LLC (Continued)**

**1025876594**

List of NAICS Codes and Descriptions:

NAICS Code: 811111  
 NAICS Description: GENERAL AUTOMOTIVE REPAIR

Facility Has Received Notices of Violations:

Violations: No Violations Found

Evaluation Action Summary:

Evaluations: No Evaluations Found

**M118**  
**WNW**  
**1/8-1/4**  
**0.198 mi.**  
**1044 ft.**

**RAK MOTORSPORTS**  
**3585 HAVEN AVE UNIT I**  
**MENLO PARK, CA 94025**  
**Site 10 of 25 in cluster M**

**RCRA NonGen / NLR**

**1024841637**  
**CAL000391410**

**Relative:**  
**Higher**  
**Actual:**  
**11 ft.**

RCRA Listings:  
 Date Form Received by Agency: 20131119  
 Handler Name: RAK MOTORSPORTS  
 Handler Address: 3585 HAVEN AVE UNIT I  
 Handler City,State,Zip: MENLO PARK, CA 94025-1009  
 EPA ID: CAL000391410  
 Contact Name: ROBERT KAMIENSKI  
 Contact Address: 3585 HAVEN AVE UNIT I  
 Contact City,State,Zip: MENLO PARK, CA 94025  
 Contact Telephone: 650-701-3585  
 Contact Fax: Not reported  
 Contact Email: RAKMOTORSPORTS@GMAIL.COM  
 Contact Title: Not reported  
 EPA Region: 09  
 Land Type: Not reported  
 Federal Waste Generator Description: Not a generator, verified  
 Non-Notifier: Not reported  
 Biennial Report Cycle: Not reported  
 Accessibility: Not reported  
 Active Site Indicator: Handler Activities  
 State District Owner: Not reported  
 State District: Not reported  
 Mailing Address: 3585 HAVEN AVE UNIT I  
 Mailing City,State,Zip: MENLO PARK, CA 94025-1009  
 Owner Name: ROBERT KAMIENSKI  
 Owner Type: Other  
 Operator Name: ROBERT KAMIENSKI  
 Operator Type: Other  
 Short-Term Generator Activity: No  
 Importer Activity: No  
 Mixed Waste Generator: No  
 Transporter Activity: No  
 Transfer Facility Activity: No  
 Recycler Activity with Storage: No  
 Small Quantity On-Site Burner Exemption: No  
 Smelting Melting and Refining Furnace Exemption: No  
 Underground Injection Control: No  
 Off-Site Waste Receipt: No  
 Universal Waste Indicator: Yes

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**RAK MOTORSPORTS (Continued)**

**1024841637**

Universal Waste Destination Facility:	Yes
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDs Where RCRA CA has Been Imposed Universe:	No
TSDs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20180906
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

**Handler - Owner Operator:**

Owner/Operator Indicator:	Operator
Owner/Operator Name: ROBERT KAMIENSKI	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	3585 HAVEN AVE UNIT I
Owner/Operator City,State,Zip:	MENLO PARK, CA 94025
Owner/Operator Telephone:	650-701-3585
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**RAK MOTORSPORTS (Continued)**

**1024841637**

Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name:	ROBERT KAMIENSKI
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	3585 HAVEN AVE UNIT I
Owner/Operator City,State,Zip:	MENLO PARK, CA 94025-0000
Owner/Operator Telephone:	650-520-6209
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	20131119
Handler Name:	RAK MOTORSPORTS
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:

NAICS Code:	811111
NAICS Description:	GENERAL AUTOMOTIVE REPAIR

Facility Has Received Notices of Violations:

Violations:	No Violations Found
-------------	---------------------

Evaluation Action Summary:

Evaluations:	No Evaluations Found
--------------	----------------------

**M119**  
**WNW**  
**1/8-1/4**  
**0.198 mi.**  
**1044 ft.**

**SYNTHEGO CORPORATION**  
**3585 HAVEN AVE STE A**  
**MENLO PARK, CA 94025**  
**Site 11 of 25 in cluster M**

**RCRA NonGen / NLR**

**1027468191**  
**CAL000472555**

**Relative:**  
**Higher**  
**Actual:**  
**11 ft.**

RCRA Listings:	
Date Form Received by Agency:	20220812
Handler Name:	SYNTHEGO CORPORATION
Handler Address:	3585 HAVEN AVE STE A
Handler City,State,Zip:	MENLO PARK, CA 94025
EPA ID:	CAL000472555
Contact Name:	TREVOR LONGBOTTOM
Contact Address:	3696 HAVEN AVE STE A
Contact City,State,Zip:	REDWOOD CITY, CA 94063
Contact Telephone:	650-224-5207
Contact Fax:	Not reported



Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**SYNTHEGO CORPORATION (Continued)**

**1027468191**

Contact Email:	TREVOR.LONGBOTTOM@SYNTHEGO.COM
Contact Title:	Not reported
EPA Region:	09
Land Type:	Not reported
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Not reported
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	3696 HAVEN AVE STE A
Mailing City,State,Zip:	REDWOOD CITY, CA 94063
Owner Name:	SYNTHEGO CORPORATION
Owner Type:	Other
Operator Name:	TREVOR LONGBOTTOM
Operator Type:	Other
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDs Where RCRA CA has Been Imposed Universe:	No
TSDs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SYNTHEGO CORPORATION (Continued)**

**1027468191**

Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20220816
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name:	TREVOR LONGBOTTOM
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	3696 HAVEN AVE STE A
Owner/Operator City,State,Zip:	REDWOOD CITY, CA 94063
Owner/Operator Telephone:	650-224-5207
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	SYNTHEGO CORPORATION
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	3696 HAVEN AVE STE A
Owner/Operator City,State,Zip:	REDWOOD CITY, CA 94063
Owner/Operator Telephone:	888-611-6883
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	20220812
Handler Name:	SYNTHEGO CORPORATION
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	No
Electronic Manifest Broker:	No

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**SYNTHEGO CORPORATION (Continued)**

**1027468191**

List of NAICS Codes and Descriptions:

NAICS Code: 541715  
 NAICS Description: RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT NANOTECHNOLOGY AND BIOTECHNOLOGY)

Facility Has Received Notices of Violations:

Violations: No Violations Found

Evaluation Action Summary:

Evaluations: No Evaluations Found

**M120**  
**WNW**  
**1/8-1/4**  
**0.198 mi.**  
**1044 ft.**

**GENERAL CIRCUITS INCORPORATED**  
**3585 HAVEN AVENUE**  
**MENLO PARK, CA 94025**  
**Site 12 of 25 in cluster M**

**CA ENVIROSTOR** **1000214038**  
**CA HIST UST** **N/A**  
**CA San Mateo Co. BI**  
**CA HWP**

**Relative:**  
**Higher**  
**Actual:**  
**11 ft.**

**ENVIROSTOR:**  
 Name: GENERAL CIRCUITS INC  
 Address: 3585 HAVEN AVENUE  
 City,State,Zip: MENLO PARK, CA 940250000  
 Facility ID: 80001497  
 Status: Inactive - Needs Evaluation  
 Status Date: 06/29/2009  
 Site Code: Not reported  
 Site Type: Corrective Action  
 Site Type Detailed: Corrective Action  
 Acres: 0  
 NPL: NO  
 Regulatory Agencies: NONE SPECIFIED  
 Lead Agency: NONE SPECIFIED  
 Program Manager: Not reported  
 Supervisor: Julie Pettijohn  
 Division Branch: Cleanup Berkeley  
 Assembly: 24  
 Senate: 13  
 Special Program: Not reported  
 Restricted Use: NO  
 Site Mgmt Req: NONE SPECIFIED  
 Funding: Not reported  
 Latitude: 37.48664  
 Longitude: -122.1858  
 APN: 055130240  
 Past Use: NONE SPECIFIED  
 Potential COC: NONE SPECIFIED  
 Confirmed COC: NONE SPECIFIED  
 Potential Description: NONE SPECIFIED  
 Alias Name: 055130240  
 Alias Type: APN  
 Alias Name: CAD982462335  
 Alias Type: EPA Identification Number  
 Alias Name: 80001497  
 Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GENERAL CIRCUITS INCORPORATED (Continued)**

**1000214038**

Completed Sub Area Name: Not reported  
Completed Document Type: Preliminary Assessment Report  
Completed Date: 03/08/1991  
Comments: Not reported

Future Area Name: Not reported  
Future Sub Area Name: Not reported  
Future Document Type: Not reported  
Future Due Date: Not reported  
Schedule Area Name: Not reported  
Schedule Sub Area Name: Not reported  
Schedule Document Type: Not reported  
Schedule Due Date: Not reported  
Schedule Revised Date: Not reported

**HIST UST:**

Name: GENERAL CIRCUITS INCORPORATED  
Address: 3585 HAVEN AVENUE  
City,State,Zip: MENLO PARK, CA 94025  
File Number: 0002BECC  
URL: <http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002BECC.pdf>  
Region: STATE  
Facility ID: 00000000648  
Facility Type: Other  
Other Type: CIRCUIT MFC.  
Contact Name: BOB GRAY  
Telephone: 4153647717  
Owner Name: GENERAL CIRCUITS, INCORPORATED  
Owner Address: 3585 HAVEN AVENUE  
Owner City,St,Zip: MENLO PARK, CA 94025  
Total Tanks: 0001  
  
Tank Num: 001  
Container Num: 1  
Year Installed: 1982  
Tank Capacity: 00000115  
Tank Used for: WASTE  
Type of Fuel: Not reported  
Container Construction Thickness: 3  
Leak Detection: Visual

Click here for Geo Tracker PDF:

**San Mateo Co. BI:**

Name: LCL INTERNATIONAL INC  
Address: 3585 HAVEN  
City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0022969  
Prog Element Code: GENERATES and RECYCLES WASTE OIL/SOLVENT  
Record Id: PR0025929  
Description: GENERATES & RECYCLES WASTE OIL/SOLVENT  
Facility Status: Inactive, non-billable  
Program Category: HAZARDOUS WASTE PROGRAM

Name: LCL INTERNATIONAL INC

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GENERAL CIRCUITS INCORPORATED (Continued)**

**1000214038**

Address: 3585 HAVEN  
City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0022969  
Prog Element Code: STORMWATER ANNUAL INSPECTION FEE  
Record Id: PR0040614  
Description: STORMWATER ANNUAL FEE - INSP FREQ EVERY 2 YRS  
Facility Status: Inactive, non-billable  
Program Category: STORMWATER

Name: LCL INTERNATIONAL INC  
Address: 3585 HAVEN  
City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0022969  
Prog Element Code: STORES HAZ MAT <219GAL,1,999LB, 879FT3  
Record Id: PR0025930  
Description: STORES HAZ MAT <219GAL,1,999LB, 879CF  
Facility Status: Inactive, non-billable  
Program Category: BUSINESS PLAN PROGRAM

Name: NICKELSON FOIL & EMBOSSING  
Address: 3585 HAVEN  
City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0027450  
Prog Element Code: STORMWATER ANNUAL INSPECTION FEE  
Record Id: PR0043625  
Description: STORMWATER ANNUAL FEE - INSP FREQ EVERY 2 YRS  
Facility Status: Inactive, non-billable  
Program Category: STORMWATER

Name: NICKELSON FOIL & EMBOSSING  
Address: 3585 HAVEN  
City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0027450  
Prog Element Code: GENERATES and RECYCLES WASTE OIL/SOLVENT  
Record Id: PR0043624  
Description: GENERATES & RECYCLES WASTE OIL/SOLVENT  
Facility Status: Inactive, non-billable  
Program Category: HAZARDOUS WASTE PROGRAM

Name: NICKELSON FOIL & EMBOSSING  
Address: 3585 HAVEN  
City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0027450  
Prog Element Code: STORES HAZ MAT <219GAL,1,999LB, 879FT3  
Record Id: PR0043623  
Description: STORES HAZ MAT <219GAL,1,999LB, 879CF  
Facility Status: Inactive, non-billable  
Program Category: BUSINESS PLAN PROGRAM

HWP:  
EPA ID: CAD982462335  
Name: GENERAL CIRCUITS INC

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**GENERAL CIRCUITS INCORPORATED (Continued)**

**1000214038**

Address: 3585 HAVEN AVENUE  
 Cleanup Status: PROTECTIVE FILER  
 Latitude: 37.48664  
 Longitude: -122.1858  
 Facility Type: Historical - Non-Operating  
 Facility Size: Not reported  
 Supervisor: Not reported  
 Site Code: Not reported  
 Senate District: 13  
 Assembly District: 22  
 Public Information Officer: Not reported  
 Commercial Offsite Facility Types: Not reported  
 Quarterly Update: 10/18/2017- There are two general circuits in Estor. CAD982462335 and CAD074665704 General Circuits Inc are both the same facility. The EPA ID # CAD 982462335 is a duplicate as the facility changed addressed from 3549 J Haven Ave to 3585 Haven Ave. For both EPA ID #s the ISD was rescinded and the facility sent in a withdrawal letter.

Project Manager Lead: Not reported  
 Project Manager: Not reported  
 Permit Type: Not reported  
 Permit Effective Date: Not reported  
 Permit Expiration Date: Not reported  
 Calenviroscreen Score: 46-50%  
 Total Planned Hours: Not reported  
 Total Planned Amount: Not reported  
 Total Actual Hours: Not reported

Activities:  
 EPA ID: CAD982462335  
 Facility Type: Historical - Non-Operating  
 Facility Name: GENERAL CIRCUITS INC  
 Project Manager: Not reported  
 Project Manager Lead: Not reported  
 Supervisor: Not reported  
 Facility Status: PROTECTIVE FILER  
 Activity Type: Protective Filer Status  
 Permit Being Renewed: Not reported  
 Permit Being Modified: Not reported  
 Final Date: Not reported  
 Type: Not reported  
 Title Description: Not reported  
 Due Date: Not reported  
 Comments: Not reported  
 Unit Names: Unit1  
 Event Description: Protective Filer Status - PROTECTIVE FILER (APPROVED)  
 Actual Date: 11/07/1989

**M121**      **GENERAL CIRCUITS INC**  
**WNW**      **3585 HAVEN AVENUE**  
**1/8-1/4**      **MENLO PARK, CA 94025**  
**0.198 mi.**  
**1044 ft.**      **Site 13 of 25 in cluster M**

**SEMS-ARCHIVE**      **1000214026**  
**CORRACTS**      **CAD982462335**  
**RCRA-SQG**  
**CA HAZNET**  
**CA HWTS**

**Relative:**      SEMS Archive:  
**Higher**      Site ID:      0903257  
**Actual:**      EPA ID:      CAD982462335  
**11 ft.**      Name:      GENERAL CIRCUITS

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GENERAL CIRCUITS INC (Continued)**

**1000214026**

Address: 3585 HAVEN AVE  
Address 2: Not reported  
City,State,Zip: MENLO PARK, CA 94025  
Cong District: 11  
FIPS Code: 06081  
FF: N  
NPL: Not on the NPL  
Non NPL Status: NFRAP-Site does not qualify for the NPL based on existing information

**SEMS Archive Detail:**

Region: 09  
Site ID: 0903257  
EPA ID: CAD982462335  
Site Name: GENERAL CIRCUITS  
NPL: N  
FF: N  
OU: 00  
Action Code: VS  
Action Name: ARCH SITE  
SEQ: 1  
Start Date: Not reported  
Finish Date: 1996-01-23 05:00:00  
Qual: Not reported  
Current Action Lead: EPA Perf In-Hse

Region: 09  
Site ID: 0903257  
EPA ID: CAD982462335  
Site Name: GENERAL CIRCUITS  
NPL: N  
FF: N  
OU: 00  
Action Code: PA  
Action Name: PA  
SEQ: 1  
Start Date: Not reported  
Finish Date: 1991-03-08 05:00:00  
Qual: D  
Current Action Lead: EPA Perf

Region: 09  
Site ID: 0903257  
EPA ID: CAD982462335  
Site Name: GENERAL CIRCUITS  
NPL: N  
FF: N  
OU: 00  
Action Code: DS  
Action Name: DISCVRY  
SEQ: 1  
Start Date: 1990-10-18 04:00:00  
Finish Date: 1990-10-18 04:00:00  
Qual: Not reported  
Current Action Lead: EPA Perf

**CORRACTS:**

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**GENERAL CIRCUITS INC (Continued)**

**1000214026**

Name: GENERAL CIRCUITS INC  
 Address: 3585 HAVEN AVENUE  
 Address 2: Not reported  
 EPA ID: CAD982462335  
 Area Name: ENTIRE FACILITY  
 Corrective Action: CA PRIORITIZATION-LOW CA PRIORITY  
 Actual Date: 19910308  
 Air Release Indicator: Not reported  
 Groundwater Release Indicator: Not reported  
 Soil Release Indicator: Not reported  
 Surface Water Release Indicator: Not reported

RCRA Listings:

Date Form Received by Agency: 19960901  
 Handler Name: GENERAL CIRCUITS INC  
 Handler Address: 3585 HAVEN AVENUE  
 Handler City,State,Zip: MENLO PARK, CA 94025  
 EPA ID: CAD982462335  
 Contact Name: Not reported  
 Contact Address: Not reported  
 Contact City,State,Zip: Not reported  
 Contact Telephone: Not reported  
 Contact Fax: Not reported  
 Contact Email: Not reported  
 Contact Title: Not reported  
 EPA Region: 09  
 Land Type: Not reported  
 Federal Waste Generator Description: Small Quantity Generator  
 Non-Notifier: Not reported  
 Biennial Report Cycle: Not reported  
 Accessibility: Not reported  
 Active Site Indicator: Handler Activities  
 State District Owner: CA  
 State District: 2  
 Mailing Address: 3601 HAVEN AVENUE  
 Mailing City,State,Zip: MENLO PARK, CA 94025  
 Owner Name: Not reported  
 Owner Type: Not reported  
 Operator Name: NOT REQUIRED  
 Operator Type: Private  
 Short-Term Generator Activity: No  
 Importer Activity: No  
 Mixed Waste Generator: No  
 Transporter Activity: No  
 Transfer Facility Activity: No  
 Recycler Activity with Storage: No  
 Small Quantity On-Site Burner Exemption: No  
 Smelting Melting and Refining Furnace Exemption: No  
 Underground Injection Control: No  
 Off-Site Waste Receipt: No  
 Universal Waste Indicator: No  
 Universal Waste Destination Facility: No  
 Federal Universal Waste: No  
 Active Site Fed-Reg Treatment Storage and Disposal Facility: Not reported  
 Active Site Converter Treatment storage and Disposal Facility: Not reported  
 Active Site State-Reg Treatment Storage and Disposal Facility: Not reported  
 Active Site State-Reg Handler: ---



Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**GENERAL CIRCUITS INC (Continued)**

**1000214026**

Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	Low
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20020627
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

**Handler - Owner Operator:**

Owner/Operator Indicator:	Operator
Owner/Operator Name: NOT REQUIRED	
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	NOT REQUIRED
Owner/Operator City,State,Zip:	NOT REQUIRED, ME 99999
Owner/Operator Telephone:	415-555-1212
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name: GENERAL CIRCUITS INC	
Legal Status:	Private
Date Became Current:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GENERAL CIRCUITS INC (Continued)**

**1000214026**

Date Ended Current: Not reported  
Owner/Operator Address: NOT REQUIRED  
Owner/Operator City,State,Zip: NOT REQUIRED, ME 99999  
Owner/Operator Telephone: 415-555-1212  
Owner/Operator Telephone Ext: Not reported  
Owner/Operator Fax: Not reported  
Owner/Operator Email: Not reported

Historic Generators:

Receive Date: 19960901  
Handler Name: GENERAL CIRCUITS INC  
Federal Waste Generator Description: Small Quantity Generator  
State District Owner: CA  
Large Quantity Handler of Universal Waste: No  
Recognized Trader Importer: No  
Recognized Trader Exporter: No  
Spent Lead Acid Battery Importer: No  
Spent Lead Acid Battery Exporter: No  
Current Record: Yes  
Non Storage Recycler Activity: Not reported  
Electronic Manifest Broker: Not reported

Receive Date: 19890109  
Handler Name: GENERAL CIRCUITS INC  
Federal Waste Generator Description: Large Quantity Generator  
State District Owner: CA  
Large Quantity Handler of Universal Waste: No  
Recognized Trader Importer: No  
Recognized Trader Exporter: No  
Spent Lead Acid Battery Importer: No  
Spent Lead Acid Battery Exporter: No  
Current Record: No  
Non Storage Recycler Activity: Not reported  
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:

NAICS Codes: No NAICS Codes Found

Facility Has Received Notices of Violations:

Violations: No Violations Found

Evaluation Action Summary:

Evaluations: No Evaluations Found

HAZNET:

Name: GENERAL CIRCUITS INC  
Address: 3585 HAVEN AVENUE  
Address 2: Not reported  
City,State,Zip: MENLO PARK, CA 940250000  
Contact: UNDELIVERABLE PER FEES 6/94  
Telephone: --  
Mailing Name: Not reported  
Mailing Address: 3601 HAVEN AVENUE

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GENERAL CIRCUITS INC (Continued)**

**1000214026**

Year:	1993
Gepaid:	CAD982462335
TSD EPA ID:	CAT000646117
CA Waste Code:	181 - Other inorganic solid waste
Disposal Method:	D80 - Disposal, Land Fill
Tons:	1
Year:	1992
Gepaid:	CAD982462335
TSD EPA ID:	CAD000628149
CA Waste Code:	513 - Empty containers less than 30 gallons
Disposal Method:	H01 - Transfer Station
Tons:	0.15
Year:	1992
Gepaid:	CAD982462335
TSD EPA ID:	CAD000628149
CA Waste Code:	724 - Liquids with lead >= 500 Mg./L
Disposal Method:	H01 - Transfer Station
Tons:	2.5228
Year:	1992
Gepaid:	CAD982462335
TSD EPA ID:	CAD000628149
CA Waste Code:	726 - Liquids with nickel >= 134 Mg./L
Disposal Method:	H01 - Transfer Station
Tons:	0.2293
Year:	1992
Gepaid:	CAD982462335
TSD EPA ID:	CAT000646117
CA Waste Code:	181 - Other inorganic solid waste
Disposal Method:	T01 - Treatment, Tank
Tons:	6
Year:	1992
Gepaid:	CAD982462335
TSD EPA ID:	CAD000628149
CA Waste Code:	792 - Liquids with pH <= 2 with metals
Disposal Method:	H01 - Transfer Station
Tons:	50.6607
Year:	1992
Gepaid:	CAD982462335
TSD EPA ID:	CAD000628149
CA Waste Code:	792 - Liquids with pH <= 2 with metals
Disposal Method:	-
Tons:	1.8348
Year:	1992
Gepaid:	CAD982462335
TSD EPA ID:	CAD008488025
CA Waste Code:	792 - Liquids with pH <= 2 with metals
Disposal Method:	R01 - Recycler
Tons:	3.8989
Year:	1992

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GENERAL CIRCUITS INC (Continued)**

**1000214026**

Gepaid: CAD982462335  
TSD EPA ID: CAD069138899  
CA Waste Code: 009 -  
Disposal Method: 01 -  
Tons: 0.0083

Year: 1992  
Gepaid: CAD982462335  
TSD EPA ID: CAT000646117  
CA Waste Code: 181 - Other inorganic solid waste  
Disposal Method: D80 - Disposal, Land Fill  
Tons: 116.3064

[Click this hyperlink](#) while viewing on your computer to access  
68 additional CA HAZNET: record(s) in the EDR Site Report.

Additional Info:

Year: 1993  
Gen EPA ID: CAD982462335

Shipment Date: 19930408  
Creation Date: 9/6/1995 0:00:00  
Receipt Date: 19930412  
Manifest ID: 90794726  
Trans EPA ID: CAD980584510  
Trans Name: Not reported  
Trans 2 EPA ID: Not reported  
Trans 2 Name: Not reported  
TSD EPA ID: CAT000646117  
Trans Name: Not reported  
TSD Alt EPA ID: Not reported  
TSD Alt Name: Not reported  
Waste Code Description: 181 - Other inorganic solid waste Organics  
RCRA Code: Not reported  
Meth Code: D80 - Disposal, Land Fill  
Quantity Tons: 1  
Waste Quantity: 2000  
Quantity Unit: P  
Additional Code 1: Not reported  
Additional Code 2: Not reported  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported

HWTS:

Name: GENERAL CIRCUITS INC  
Address: 3585 HAVEN AVENUE  
Address 2: Not reported  
City,State,Zip: MENLO PARK, CA 94025  
EPA ID: CAD982462335  
Inactive Date: 06/30/1994  
Create Date: 06/15/1989  
Last Act Date: Not reported  
Mailing Name: Not reported  
Mailing Address: 3601 HAVEN AVENUE

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GENERAL CIRCUITS INC (Continued)**

**1000214026**

Mailing Address 2: Not reported  
Mailing City,State,Zip: MENLO PARK, CA 940250000  
Owner Name: Not reported  
Owner Address: Not reported  
Owner Address 2: Not reported  
Owner City,State,Zip: Not reported  
Contact Name: UNDELIVERABLE PER FEES 6/94  
Contact Address: Not reported  
Contact Address 2: Not reported  
City,State,Zip: Not reported  
Facility Status: Inactive  
Facility Type: PERMANENT  
Category: FEDERAL  
Latitude: 37.48605  
Longitude: -122.186454

**M122**  
**West**  
**1/8-1/4**  
**0.199 mi.**  
**1053 ft.**

**ALS ROOFING SUPPLY**  
**3586 HAVEN**  
**REDWOOD CITY, CA 94063**  
**Site 14 of 25 in cluster M**

**CA San Mateo Co. BI S113755879**  
**N/A**

**Relative:**  
**Higher**  
**Actual:**  
**13 ft.**

San Mateo Co. BI:  
Name: ALS ROOFING SUPPLY  
Address: 3586 HAVEN  
City,State,Zip: REDWOOD CITY, CA 94063  
Region: SAN MATEO  
Facility ID: FA0012934  
Prog Element Code: STORES HAZ MAT <219GAL,1,999LB, 879FT3  
Record Id: PR0003957  
Description: STORES HAZ MAT <219GAL,1,999LB, 879CF  
Facility Status: Inactive, non-billable  
Program Category: BUSINESS PLAN PROGRAM

**J123**  
**WSW**  
**1/8-1/4**  
**0.210 mi.**  
**1110 ft.**

**B & D AUTOWORKS**  
**1253 ANNETTE**  
**REDWOOD CITY, CA 94063**  
**Site 4 of 6 in cluster J**

**CA San Mateo Co. BI S113756845**  
**N/A**

**Relative:**  
**Higher**  
**Actual:**  
**13 ft.**

San Mateo Co. BI:  
Name: B & D AUTOWORKS  
Address: 1253 ANNETTE  
City,State,Zip: REDWOOD CITY, CA 94063  
Region: SAN MATEO  
Facility ID: FA0022857  
Prog Element Code: GENERATES and RECYCLES WASTE OIL/SOLVENT  
Record Id: PR0025667  
Description: GENERATES & RECYCLES WASTE OIL/SOLVENT  
Facility Status: Inactive, non-billable  
Program Category: HAZARDOUS WASTE PROGRAM

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**M124**  
**West**  
**1/8-1/4**  
**0.211 mi.**  
**1115 ft.**

**ELDORADO FORKLIFT CO**  
**3582 HAVEN AVE**  
**REDWOOD CITY, CA 94063**

**RCRA-SQG**    **1010562214**  
**CAR000188318**

**Site 15 of 25 in cluster M**

**Relative:**  
**Higher**  
**Actual:**  
**12 ft.**

RCRA Listings:		
Date Form Received by Agency:		20071029
Handler Name:	ELDORADO FORKLIFT CO	
Handler Address:		3582 HAVEN AVE
Handler City,State,Zip:		REDWOOD CITY, CA 94063
EPA ID:		CAR000188318
Contact Name:		MARK G PHILIPOPOULOS
Contact Address:		3582 HAVEN AVE
Contact City,State,Zip:		REDWOOD CITY, CA 94063
Contact Telephone:		650-361-1666
Contact Fax:		Not reported
Contact Email:		ELDOFORK@SBCGLOBAL.NET
Contact Title:		Not reported
EPA Region:		09
Land Type:		Private
Federal Waste Generator Description:		Small Quantity Generator
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Handler Activities
State District Owner:		Not reported
State District:		Not reported
Mailing Address:		3582 HAVEN AVE
Mailing City,State,Zip:		REDWOOD CITY, CA 94063
Owner Name:	LARS PIERCE	
Owner Type:		Private
Operator Name:	ELDORADO FORKLIFT	
Operator Type:		Private
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No
Smelting Melting and Refining Furnace Exemption:		No
Underground Injection Control:		No
Off-Site Waste Receipt:		No
Universal Waste Indicator:		No
Universal Waste Destination Facility:		No
Federal Universal Waste:		No
Active Site Fed-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site Converter Treatment storage and Disposal Facility:		Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site State-Reg Handler:		---
Federal Facility Indicator:		Not reported
Hazardous Secondary Material Indicator:		NN
Sub-Part K Indicator:		Not reported
Commercial TSD Indicator:		No
Treatment Storage and Disposal Type:		Not reported
2018 GPRA Permit Baseline:		Not on the Baseline
2018 GPRA Renewals Baseline:		Not on the Baseline
Permit Renewals Workload Universe:		Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ELDORADO FORKLIFT CO (Continued)**

**1010562214**

Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20071105
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Hazardous Waste Summary:

Waste Code:	D001
Waste Description:	IGNITABLE WASTE

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	LARS PIERCE
Legal Status:	Private
Date Became Current:	19710501
Date Ended Current:	Not reported
Owner/Operator Address:	3582 HAVEN AVE
Owner/Operator City,State,Zip:	REDWOOD CITY, CA 94063
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	ELDORADO FORKLIFT
Legal Status:	Private
Date Became Current:	20071015
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ELDORADO FORKLIFT CO (Continued)**

**1010562214**

Owner/Operator Telephone: Not reported  
Owner/Operator Telephone Ext: Not reported  
Owner/Operator Fax: Not reported  
Owner/Operator Email: Not reported

Historic Generators:

Receive Date: 20071029  
Handler Name: ELDORADO FORKLIFT CO  
Federal Waste Generator Description: Small Quantity Generator  
State District Owner: Not reported  
Large Quantity Handler of Universal Waste: No  
Recognized Trader Importer: No  
Recognized Trader Exporter: No  
Spent Lead Acid Battery Importer: No  
Spent Lead Acid Battery Exporter: No  
Current Record: Yes  
Non Storage Recycler Activity: Not reported  
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:

NAICS Code: 81131  
NAICS Description: COMMERCIAL AND INDUSTRIAL MACHINERY AND EQUIPMENT (EXCEPT AUTOMOTIVE AND ELECTRONIC) REPAIR AND MAINTENANCE

Facility Has Received Notices of Violations:

Violations: No Violations Found

Evaluation Action Summary:

Evaluations: No Evaluations Found

**M125**  
**West**  
**1/8-1/4**  
**0.211 mi.**  
**1115 ft.**

**EL DORADO FORKLIFT CO**  
**3582 HAVEN**  
**REDWOOD CITY, CA 94063**  
**Site 16 of 25 in cluster M**

**CA San Mateo Co. BI S113758438**  
**N/A**

**Relative:**  
**Higher**  
**Actual:**  
**12 ft.**

San Mateo Co. BI:  
Name: EL DORADO FORKLIFT CO  
Address: 3582 HAVEN  
City,State,Zip: REDWOOD CITY, CA 94063  
Region: SAN MATEO  
Facility ID: FA0037676  
Prog Element Code: GENERATES and RECYCLES WASTE OIL/SOLVENT  
Record Id: PR0054561  
Description: GENERATES & RECYCLES WASTE OIL/SOLVENT  
Facility Status: Active, billable  
Program Category: HAZARDOUS WASTE PROGRAM

Name: EL DORADO FORKLIFT CO  
Address: 3582 HAVEN  
City,State,Zip: REDWOOD CITY, CA 94063  
Region: SAN MATEO  
Facility ID: FA0037676  
Prog Element Code: STORMWATER ANNUAL INSPECTION FEE  
Record Id: PR0054562



Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**EL DORADO FORKLIFT CO (Continued)**

**S113758438**

Description: STORMWATER ANNUAL FEE - INSP FREQ EVERY 2 YRS  
 Facility Status: Inactive, non-billable  
 Program Category: STORMWATER

Name: EL DORADO FORKLIFT CO  
 Address: 3582 HAVEN  
 City,State,Zip: REDWOOD CITY, CA 94063  
 Region: SAN MATEO  
 Facility ID: FA0037676  
 Prog Element Code: STORES HAZ MAT <219GAL,1,999LB, 879FT3  
 Record Id: PR0054560  
 Description: STORES HAZ MAT <219GAL,1,999LB, 879CF  
 Facility Status: Active, billable  
 Program Category: BUSINESS PLAN PROGRAM

**M126**  
**West**  
**1/8-1/4**  
**0.211 mi.**  
**1115 ft.**

**EL DORADO FORKLIFT CO**  
**3582 HAVEN AVE**  
**REDWOOD CITY, CA 94063**

**CA CERS HAZ WASTE**  
**CA CERS**

**S121772829**  
**N/A**

**Site 17 of 25 in cluster M**

**Relative:**  
**Higher**  
**Actual:**  
**12 ft.**

CERS HAZ WASTE:  
 Name: EL DORADO FORKLIFT CO  
 Address: 3582 HAVEN AVE  
 City,State,Zip: REDWOOD CITY, CA 94063  
 Site ID: 392085  
 CERS ID: 10070485  
 CERS Description: Hazardous Waste Generator

CERS:  
 Name: EL DORADO FORKLIFT CO  
 Address: 3582 HAVEN AVE  
 City,State,Zip: REDWOOD CITY, CA 94063  
 Site ID: 392085  
 CERS ID: 10070485  
 CERS Description: Chemical Storage Facilities

Violations:  
 Site ID: 392085  
 Site Name: EL DORADO FORKLIFT CO  
 Violation Date: 08-18-2014  
 Citation: 40 CFR 1 265.32 - U.S. Code of Federal Regulations, Title 40, Chapter 1, Section(s) 265.32  
 Violation Description: Failure of the facility to maintain the following emergency equipment or equivalents: 1) An internal communications or alarm system capable of providing immediate emergency instruction (voice or signal) to facility personnel; 2) A device, such as a telephone (immediately available at the scene of Operations/ Maintenance ) or a hand-held two-way radio, capable of summoning emergency assistance from local police departments, fire departments, or State or local emergency response teams; 3) Portable fire extinguishers, fire control equipment (including special extinguishing equipment, such as that using foam, inert gas, or dry chemicals), spill control equipment, and decontamination equipment; and 4) Water at adequate volume and pressure to supply water hose streams, or foam producing equipment, or automatic sprinklers, or water spray systems.  
 Violation Notes: Returned to compliance on 09/10/2014. extinguisher last serviced in July 2010. Service within 30 days and forward receipt.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**EL DORADO FORKLIFT CO (Continued)**

**S121772829**

Violation Division: San Mateo County Environmental Health  
Violation Program: HW  
Violation Source: CERS,

Site ID: 392085  
Site Name: EL DORADO FORKLIFT CO  
Violation Date: 08-18-2014  
Citation: 22 CCR 12 66262.40(a) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.40(a)  
Violation Description: Failure to maintain uniform hazardous waste manifest, consolidated manifest, or bills of lading copies for three years.  
Violation Notes: Returned to compliance on 09/10/2014. manifest missing for wash rack sludge. Contact SK and forward within 30 days.

Violation Division: San Mateo County Environmental Health  
Violation Program: HW  
Violation Source: CERS,

Site ID: 392085  
Site Name: EL DORADO FORKLIFT CO  
Violation Date: 08-20-2018  
Citation: 40 CFR 1 262.34(d)(5)(ii) - U.S. Code of Federal Regulations, Title 40, Chapter 1, Section(s) 262.34(d)(5)(ii)  
Violation Description: Failure to post the following information next to the telephone: (A) The name and telephone number of the emergency coordinator; (B) Location of fire extinguishers and spill control material, and, if present, fire alarm; and (C) The telephone number of the fire department, unless the facility has a direct alarm.  
Violation Notes: Returned to compliance on 09/26/2018. A sample emergency procedures document will be provided along with this inspection report. Fill out the form, post, and provide documentation to SMCUPA within 30 days.

Violation Division: San Mateo County Environmental Health  
Violation Program: HW  
Violation Source: CERS,

Site ID: 392085  
Site Name: EL DORADO FORKLIFT CO  
Violation Date: 08-18-2014  
Citation: 22 CCR 16 66266.130 - California Code of Regulations, Title 22, Chapter 16, Section(s) 66266.130  
Violation Description: Failure to properly handle, manage, label, and recycle used oil and fuel filters.  
Violation Notes: Returned to compliance on 09/10/2014. oil filter drum was missing date  
Violation Division: San Mateo County Environmental Health  
Violation Program: HW  
Violation Source: CERS,

Site ID: 392085  
Site Name: EL DORADO FORKLIFT CO  
Violation Date: 08-15-2016  
Citation: 22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)  
Violation Description: Failure to properly label hazardous waste accumulation containers and portable tanks with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.  
Violation Notes: Returned to compliance on 09/08/2016. There are no labels on the drums

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**EL DORADO FORKLIFT CO (Continued)**

**S121772829**

of wash rack sludge. Label drums and ensure all information remains legible. Labels can be protected with sheet protectors or plastic baggies since wash rack gets wet. Additionally, all the labels on the waste oil, and coolant were missing the facility information. Fill in the facility name, address, and EPA ID number for the labels to be complete. Send proof to SM CUPA within 30 days.

Violation Division: San Mateo County Environmental Health  
Violation Program: HW  
Violation Source: CERS,

Site ID: 392085  
Site Name: EL DORADO FORKLIFT CO  
Violation Date: 08-18-2014  
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)  
Violation Description: Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.  
Violation Notes: Returned to compliance on 09/12/2014. add waste coolant to HMBP, 55 x1  
Violation Division: San Mateo County Environmental Health  
Violation Program: HMRRP  
Violation Source: CERS,

Site ID: 392085  
Site Name: EL DORADO FORKLIFT CO  
Violation Date: 09-13-2021  
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)  
Violation Description: Failure to complete and electronically submit a business plan when storing/handling a hazardous material at or above reportable quantities.  
Violation Notes: Returned to compliance on 11/12/2021.  
Violation Division: San Mateo County Environmental Health  
Violation Program: HMRRP  
Violation Source: CERS,

Site ID: 392085  
Site Name: EL DORADO FORKLIFT CO  
Violation Date: 08-20-2018  
Citation: 22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)  
Violation Description: Failure to properly label hazardous waste accumulation containers and portable tanks with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.  
Violation Notes: Returned to compliance on 09/26/2018. label the small drum of used oil that the filters are being drained into. There is an old label on the drum currently. Provide documentation of the new label to SMCUPA within 30 days.  
Violation Division: San Mateo County Environmental Health  
Violation Program: HW  
Violation Source: CERS,

Site ID: 392085  
Site Name: EL DORADO FORKLIFT CO  
Violation Date: 08-18-2014

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**EL DORADO FORKLIFT CO (Continued)**

**S121772829**

Citation: 22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)  
Violation Description: Failure to properly label hazardous waste accumulation containers with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.  
Violation Notes: Returned to compliance on 09/10/2014. waste coolant, waste washrack sludge and drum of oil from draining filters were missing labels.  
Violation Division: San Mateo County Environmental Health  
Violation Program: HW  
Violation Source: CERS,

Evaluation:

Eval General Type: Other/Unknown  
Eval Date: 03-30-2022  
Violations Found: No  
Eval Type: Other, not routine, done by local agency  
Eval Notes: Not reported  
Eval Division: San Mateo County Environmental Health  
Eval Program: HMRRP  
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection  
Eval Date: 05-06-2021  
Violations Found: No  
Eval Type: Routine done by local agency  
Eval Notes: Inspection conducted during Covid-19 pandemic. Facility generates waste oil, waste coolant, waste oil filters, and batteries.  
Eval Division: San Mateo County Environmental Health  
Eval Program: HW  
Eval Source: CERS,

Eval General Type: Other/Unknown  
Eval Date: 07-22-2020  
Violations Found: No  
Eval Type: Other, not routine, done by local agency  
Eval Notes: Not reported  
Eval Division: San Mateo County Environmental Health  
Eval Program: HMRRP  
Eval Source: CERS,

Eval General Type: Other/Unknown  
Eval Date: 08-21-2017  
Violations Found: No  
Eval Type: Other, not routine, done by local agency  
Eval Notes: Not reported  
Eval Division: San Mateo County Environmental Health  
Eval Program: HMRRP  
Eval Source: CERS,

Eval General Type: Other/Unknown  
Eval Date: 09-22-2015  
Violations Found: No  
Eval Type: Other, not routine, done by local agency  
Eval Notes: Not reported  
Eval Division: San Mateo County Environmental Health  
Eval Program: HMRRP

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**EL DORADO FORKLIFT CO (Continued)**

**S121772829**

Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection  
Eval Date: 08-15-2016  
Violations Found: No  
Eval Type: Routine done by local agency  
Eval Notes: Last HMBP submission 9/29/2015 on Portal accepted. Minor changes requested for re-submission. Contact inspector if help is needed with the re-submission.

Eval Division: San Mateo County Environmental Health  
Eval Program: HMRRP  
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection  
Eval Date: 08-15-2016  
Violations Found: Yes  
Eval Type: Routine done by local agency  
Eval Notes: EPA ID number CAL000326209 active. Waste Generated: used oil approx 125 gals every 4-6 weeks, waste coolant, used oil filters every 3 months, parts washer sludge every 12 weeks, wash rack sludge annually.

Eval Division: San Mateo County Environmental Health  
Eval Program: HW  
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection  
Eval Date: 08-20-2018  
Violations Found: No  
Eval Type: Routine done by local agency  
Eval Notes: Last HMBP submission, 8/9/2018 accepted on Portal with following notes "Thank you! For the next submission, add your evacuation assembly area to your facility map. "

Eval Division: San Mateo County Environmental Health  
Eval Program: HMRRP  
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection  
Eval Date: 08-20-2018  
Violations Found: Yes  
Eval Type: Routine done by local agency  
Eval Notes: Waste generated - Used oil approx 150 -200 gallons per month, Used oil filters, 2 drums every 2 - 3 months, 50 gallons coolant ever 2 - 3 months. Spray paint is only paint used in spray booth. Ensure cans are empty before disposing in the garbage. Recommend having a small container to collect cans if for some reason they cannot be emptied. Non empty cans must be disposed of as hazardous waste.

Eval Division: San Mateo County Environmental Health  
Eval Program: HW  
Eval Source: CERS,

Eval General Type: Other/Unknown  
Eval Date: 07-29-2019  
Violations Found: No  
Eval Type: Other, not routine, done by local agency  
Eval Notes: Not reported  
Eval Division: San Mateo County Environmental Health  
Eval Program: HMRRP  
Eval Source: CERS,

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**EL DORADO FORKLIFT CO (Continued)**

**S121772829**

Eval General Type: Compliance Evaluation Inspection  
Eval Date: 08-18-2014  
Violations Found: Yes  
Eval Type: Routine done by local agency  
Eval Notes: Not reported  
Eval Division: San Mateo County Environmental Health  
Eval Program: HMRRP  
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection  
Eval Date: 08-18-2014  
Violations Found: Yes  
Eval Type: Routine done by local agency  
Eval Notes: Not reported  
Eval Division: San Mateo County Environmental Health  
Eval Program: HW  
Eval Source: CERS,

Eval General Type: Other/Unknown  
Eval Date: 08-24-2015  
Violations Found: No  
Eval Type: Other, not routine, done by local agency  
Eval Notes: Not reported  
Eval Division: San Mateo County Environmental Health  
Eval Program: HMRRP  
Eval Source: CERS,

Eval General Type: Other/Unknown  
Eval Date: 09-13-2021  
Violations Found: Yes  
Eval Type: Other, not routine, done by local agency  
Eval Notes: Not reported  
Eval Division: San Mateo County Environmental Health  
Eval Program: HMRRP  
Eval Source: CERS,

Eval General Type: Other/Unknown  
Eval Date: 12-17-2021  
Violations Found: No  
Eval Type: Other, not routine, done by local agency  
Eval Notes: Not reported  
Eval Division: San Mateo County Environmental Health  
Eval Program: HMRRP  
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection  
Eval Date: 05-06-2021  
Violations Found: No  
Eval Type: Routine done by local agency  
Eval Notes: Inspection conducted during Covid-19 pandemic.  
Eval Division: San Mateo County Environmental Health  
Eval Program: HMRRP  
Eval Source: CERS,

Eval General Type: Other/Unknown  
Eval Date: 07-22-2014  
Violations Found: No

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**EL DORADO FORKLIFT CO (Continued)**

**S121772829**

Eval Type: Other, not routine, done by local agency  
Eval Notes: Not reported  
Eval Division: San Mateo County Environmental Health  
Eval Program: HMRRP  
Eval Source: CERS,

Eval General Type: Other/Unknown  
Eval Date: 08-09-2018  
Violations Found: No  
Eval Type: Other, not routine, done by local agency  
Eval Notes: Not reported  
Eval Division: San Mateo County Environmental Health  
Eval Program: HMRRP  
Eval Source: CERS,

Eval General Type: Other/Unknown  
Eval Date: 10-07-2015  
Violations Found: No  
Eval Type: Other, not routine, done by local agency  
Eval Notes: Not reported  
Eval Division: San Mateo County Environmental Health  
Eval Program: HMRRP  
Eval Source: CERS,

**Enforcement Action:**

Site ID: 392085  
Site Name: EL DORADO FORKLIFT CO  
Site Address: 3582 HAVEN AVE  
Site City: REDWOOD CITY  
Site Zip: 94063  
Enf Action Date: 08-18-2014  
Enf Action Type: Notice of Violation (Unified Program)  
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection  
Enf Action Notes: Not reported  
Enf Action Division: San Mateo County Environmental Health  
Enf Action Program: HMRRP  
Enf Action Source: CERS,

Site ID: 392085  
Site Name: EL DORADO FORKLIFT CO  
Site Address: 3582 HAVEN AVE  
Site City: REDWOOD CITY  
Site Zip: 94063  
Enf Action Date: 08-18-2014  
Enf Action Type: Notice of Violation (Unified Program)  
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection  
Enf Action Notes: Not reported  
Enf Action Division: San Mateo County Environmental Health  
Enf Action Program: HW  
Enf Action Source: CERS,

**Affiliation:**

Affiliation Type Desc: Legal Owner  
Entity Name: PHILIPOPOULOS, PHIL  
Entity Title: Not reported  
Affiliation Address: 3582 HAVEN

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**EL DORADO FORKLIFT CO (Continued)**

**S121772829**

Affiliation City: REDWOOD CITY  
Affiliation State: CA  
Affiliation Country: United States  
Affiliation Zip: 94063  
Affiliation Phone: (650) 361-1666,

Affiliation Type Desc: CUPA District  
Entity Name: San Mateo County Environmental Health  
Entity Title: Not reported  
Affiliation Address: 2000 Alameda de las Pulgas, Suite 100  
Affiliation City: San Mateo  
Affiliation State: CA  
Affiliation Country: Not reported  
Affiliation Zip: 94403  
Affiliation Phone: (650) 372-6200,

Affiliation Type Desc: Document Preparer  
Entity Name: Mark Philipopoulos  
Entity Title: Not reported  
Affiliation Address: Not reported  
Affiliation City: Not reported  
Affiliation State: Not reported  
Affiliation Country: Not reported  
Affiliation Zip: Not reported  
Affiliation Phone: ,

Affiliation Type Desc: Environmental Contact  
Entity Name: Mark Philipopoulos  
Entity Title: Not reported  
Affiliation Address: 3582 Haven Ave.  
Affiliation City: Redwood City  
Affiliation State: CA  
Affiliation Country: Not reported  
Affiliation Zip: 94063  
Affiliation Phone: ,

Affiliation Type Desc: Facility Mailing Address  
Entity Name: Mailing Address  
Entity Title: Not reported  
Affiliation Address: 3582 HAVEN AVE  
Affiliation City: REDWOOD CITY  
Affiliation State: CA  
Affiliation Country: Not reported  
Affiliation Zip: 94063  
Affiliation Phone: ,

Affiliation Type Desc: Identification Signer  
Entity Name: Mark Philipopoulos  
Entity Title: Manager  
Affiliation Address: Not reported  
Affiliation City: Not reported  
Affiliation State: Not reported  
Affiliation Country: Not reported  
Affiliation Zip: Not reported  
Affiliation Phone: ,

Affiliation Type Desc: Operator



Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**EL DORADO FORKLIFT CO (Continued)**

**S121772829**

Entity Name:	Eldorado Forklift Co.
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(650) 361-1666,
Affiliation Type Desc:	Parent Corporation
Entity Name:	EL DORADO FORKLIFT CO
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,

**M127**  
**West**  
**1/8-1/4**  
**0.211 mi.**  
**1115 ft.**

**ELDORADO FORKLIFT CO**  
**3582 HAVEN AVE**  
**REDWOOD CITY, CA 94063**

**RCRA NonGen / NLR**

**1024818581**  
**CAL000326209**

**Site 18 of 25 in cluster M**

**Relative:**  
**Higher**  
**Actual:**  
**12 ft.**

RCRA Listings:		
Date Form Received by Agency:		20071026
Handler Name:	ELDORADO FORKLIFT CO	
Handler Address:		3582 HAVEN AVE
Handler City,State,Zip:		REDWOOD CITY, CA 94063
EPA ID:		CAL000326209
Contact Name:		MARK PHILIPOPOULAS
Contact Address:		3582 HAVEN AVE
Contact City,State,Zip:		REDWOOD CITY, CA 94063
Contact Telephone:		650-361-1666
Contact Fax:		650-361-1944
Contact Email:		MARK@ELDORADOFORKLIFT.COM
Contact Title:		Not reported
EPA Region:		09
Land Type:		Not reported
Federal Waste Generator Description:		Not a generator, verified
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Handler Activities
State District Owner:		Not reported
State District:		Not reported
Mailing Address:		3582 HAVEN AVE
Mailing City,State,Zip:		REDWOOD CITY, CA 94063-0000
Owner Name:	ELDORADO FORKLIFT CO	
Owner Type:		Other
Operator Name:	MARK PHILIPOPOULAS	
Operator Type:		Other
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**ELDORADO FORKLIFT CO (Continued)**

**1024818581**

Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	Yes
Universal Waste Destination Facility:	Yes
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRC Permit Baseline:	Not on the Baseline
2018 GPRC Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRC Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDs Where RCRA CA has Been Imposed Universe:	No
TSDs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20180905
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name: MARK PHILIPOPOULAS	
Legal Status:	Other

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ELDORADO FORKLIFT CO (Continued)**

**1024818581**

Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	3582 HAVEN AVE
Owner/Operator City,State,Zip:	REDWOOD CITY, CA 94063
Owner/Operator Telephone:	650-361-1666
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name:	ELDORADO FORKLIFT CO
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	3582 HAVEN AVE
Owner/Operator City,State,Zip:	REDWOOD CITY, CA 94063-0000
Owner/Operator Telephone:	650-361-1666
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	20071026
Handler Name:	ELDORADO FORKLIFT CO
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:

NAICS Code:	81149
NAICS Description:	OTHER PERSONAL AND HOUSEHOLD GOODS REPAIR AND MAINTENANCE

Facility Has Received Notices of Violations:

Violations:	No Violations Found
-------------	---------------------

Evaluation Action Summary:

Evaluations:	No Evaluations Found
--------------	----------------------

MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Site

Database(s)

EDR ID Number  
EPA ID Number

**M128**      **DE MARTINIS SANDWICH SHOP**      **CA San Mateo Co. BI**      **S123179660**  
**West**      **3582 HAVEN**           **N/A**  
**1/8-1/4**      **REDWOOD CITY, CA 94063**  
**0.211 mi.**  
**1115 ft.**      **Site 19 of 25 in cluster M**

**Relative:**      San Mateo Co. BI:  
**Higher**      Name:      DE MARTINIS SANDWICH SHOP  
**Actual:**      Address:      3582 HAVEN  
**12 ft.**      City,State,Zip:      REDWOOD CITY, CA 94063  
                  Region:      SAN MATEO  
                  Facility ID:      FA0002055  
                  Prog Element Code:      STORMWATER ANNUAL INSPECTION FEE  
                  Record Id:      PR0042128  
                  Description:      STORMWATER ANNUAL FEE - INSP FREQ EVERY 2 YRS  
                  Facility Status:      Inactive, non-billable  
                  Program Category:      STORMWATER

**J129**      **VAZQUEZ GARAGE**      **CA San Mateo Co. BI**      **S113756192**  
**WSW**      **1251 ANNETTE**           **N/A**  
**1/8-1/4**      **REDWOOD CITY, CA 94063**  
**0.213 mi.**  
**1123 ft.**      **Site 5 of 6 in cluster J**

**Relative:**      San Mateo Co. BI:  
**Higher**      Name:      VAZQUEZ GARAGE  
**Actual:**      Address:      1251 ANNETTE  
**13 ft.**      City,State,Zip:      REDWOOD CITY, CA 94063  
                  Region:      SAN MATEO  
                  Facility ID:      FA0016122  
                  Prog Element Code:      STORES MV FUELS OR WASTE ONLY  
                  Record Id:      PR0011393  
                  Description:      STORES MV FUELS OR WASTE ONLY  
                  Facility Status:      Inactive, non-billable  
                  Program Category:      BUSINESS PLAN PROGRAM

**J130**      **T MOBILE WEST CORP SFO3548A**      **CA San Mateo Co. BI**      **S113758817**  
**WSW**      **1251 ANNETTE**           **N/A**  
**1/8-1/4**      **REDWOOD CITY, CA 94063**  
**0.213 mi.**  
**1123 ft.**      **Site 6 of 6 in cluster J**

**Relative:**      San Mateo Co. BI:  
**Higher**      Name:      T MOBILE WEST CORP SFO3548A  
**Actual:**      Address:      1251 ANNETTE  
**13 ft.**      City,State,Zip:      REDWOOD CITY, CA 94063  
                  Region:      SAN MATEO  
                  Facility ID:      FA0046201  
                  Prog Element Code:      STORES MV FUELS OR WASTE ONLY  
                  Record Id:      PR0062022  
                  Description:      STORES MV FUELS OR WASTE ONLY  
                  Facility Status:      Inactive, non-billable  
                  Program Category:      BUSINESS PLAN PROGRAM

Name:      T MOBILE WEST CORP SFO3548A  
 Address:      1251 ANNETTE  
 City,State,Zip:      REDWOOD CITY, CA 94063  
 Region:      SAN MATEO

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**T MOBILE WEST CORP SFO3548A (Continued)**

**S113758817**

Facility ID: FA0046201  
Prog Element Code: STORMWATER ANNUAL INSPECTION FEE  
Record Id: PR0062023  
Description: STORMWATER ANNUAL FEE - INSP FREQ EVERY 2 YRS  
Facility Status: Inactive, non-billable  
Program Category: STORMWATER

**M131  
West  
1/8-1/4  
0.217 mi.  
1148 ft.**

**MIDLAND PACIFIC CORP  
3536 HAVEN  
MENLO PARK, CA 94025**

**CA LUST  
CA Cortese  
CA HIST CORTESE  
CA CERS**

**S101308622  
N/A**

**Site 20 of 25 in cluster M**

**Relative:  
Higher  
Actual:  
12 ft.**

**SAN MATEO CO. LUST:**  
Name: MIDLAND PACIFIC CORP  
Address: 3536 HAVEN AVE  
City,State,Zip: MENLO PARK, CA  
Region: SAN MATEO  
Facility ID: 440031  
Facility Status: 9- Case Closed  
Global ID: T0608100330  
APN Number: 055122340  
Case Type: MENLO PARK, CA  
EDR Link ID: MENLO PARK, CA

**LUST:**

Name: MIDLAND PACIFIC CORP  
Address: 3536 HAVEN  
City,State,Zip: MENLO PARK, CA 94025  
Lead Agency: SAN MATEO COUNTY LOP  
Case Type: LUST Cleanup Site  
Geo Track: [http://geotracker.waterboards.ca.gov/profile\\_report.asp?global\\_id=T0608100330](http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0608100330)  
Global Id: T0608100330  
Latitude: 37.486  
Longitude: -122.1865  
Status: Completed - Case Closed  
Status Date: 10/24/1995  
Case Worker: Not reported  
RB Case Number: 41-0345  
Local Agency: Not reported  
File Location: Local Agency  
Local Case Number: 440031  
Potential Media Affect: Other Groundwater (uses other than drinking water)  
Potential Contaminants of Concern: Gasoline  
Site History: Not reported

**LUST:**

Global Id: T0608100330  
Contact Type: Regional Board Caseworker  
Contact Name: Regional Water Board  
Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)  
Address: 1515 CLAY ST SUITE 1400  
City: OAKLAND  
Email: Not reported  
Phone Number: Not reported

**LUST:**

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MIDLAND PACIFIC CORP (Continued)**

**S101308622**

Global Id: T0608100330  
Action Type: Other  
Date: 05/21/1992  
Action: Leak Discovery

Global Id: T0608100330  
Action Type: Other  
Date: 08/08/1990  
Action: Leak Reported

Global Id: T0608100330  
Action Type: ENFORCEMENT  
Date: 10/10/1990  
Action: Notice of Responsibility - #1

**LUST:**

Global Id: T0608100330  
Status: Open - Case Begin Date  
Status Date: 08/08/1990

Global Id: T0608100330  
Status: Completed - Case Closed  
Status Date: 10/24/1995

**LUST REG 2:**

Region: 2  
Facility Id: Not reported  
Facility Status: Case Closed  
Case Number: 440031  
How Discovered: OM  
Leak Cause: Unknown  
Leak Source: Unknown  
Date Leak Confirmed: Not reported  
Oversight Program: LUST  
Prelim. Site Assessment Workplan Submitted: Not reported  
Preliminary Site Assessment Began: Not reported  
Pollution Characterization Began: Not reported  
Pollution Remediation Plan Submitted: Not reported  
Date Remediation Action Underway: Not reported  
Date Post Remedial Action Monitoring Began: Not reported

**CORTESE:**

Name: MIDLAND PACIFIC CORP  
Address: 3536 HAVEN  
City, State, Zip: MENLO PARK, CA 94025  
Region: CORTESE  
Envirostor Id: Not reported  
Global ID: T0608100330  
Site/Facility Type: LUST CLEANUP SITE  
Cleanup Status: COMPLETED - CASE CLOSED  
Status Date: Not reported  
Site Code: Not reported  
Latitude: Not reported  
Longitude: Not reported  
Owner: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MIDLAND PACIFIC CORP (Continued)**

**S101308622**

Enf Type: Not reported  
Swat R: Not reported  
Flag: active  
Order No: Not reported  
Waste Discharge System No: Not reported  
Effective Date: Not reported  
Region 2: Not reported  
WID Id: Not reported  
Solid Waste Id No: Not reported  
Waste Management Uit Name: Not reported  
File Name: Active Open

**HIST CORTESE:**

edr\_fname: MIDLAND PACIFIC CORPORATI  
edr\_fadd1: 3536 HAVEN  
City,State,Zip: MENLO PARK, CA  
Region: CORTESE  
Facility County Code: 41  
Reg By: LTNKA  
Reg Id: 41-0345

**CERS:**

Name: MIDLAND PACIFIC CORP  
Address: 3536 HAVEN  
City,State,Zip: MENLO PARK, CA 94025  
Site ID: 204565  
CERS ID: T0608100330  
CERS Description: Leaking Underground Storage Tank Cleanup Site

**Affiliation:**

Affiliation Type Desc: Regional Board Caseworker  
Entity Name: UUU - SAN FRANCISCO BAY RWQCB (REGION 2)  
Entity Title: Not reported  
Affiliation Address: 1515 CLAY ST SUITE 1400  
Affiliation City: OAKLAND  
Affiliation State: CA  
Affiliation Country: Not reported  
Affiliation Zip: Not reported  
Affiliation Phone: ,

Affiliation Type Desc: Regional Board Caseworker  
Entity Name: Regional Water Board - SAN FRANCISCO BAY RWQCB (REGION 2)  
Entity Title: Not reported  
Affiliation Address: 1515 CLAY ST SUITE 1400  
Affiliation City: OAKLAND  
Affiliation State: CA  
Affiliation Country: Not reported  
Affiliation Zip: Not reported  
Affiliation Phone: ,

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

<p><b>1132</b>  <b>ESE</b>  <b>1/8-1/4</b>  <b>0.221 mi.</b>  <b>1168 ft.</b></p>	<p><b>STUDIO RED INC</b>  <b>115 INDEPENDENCE DR</b>  <b>MENLO PARK, CA 94025</b></p> <p><b>Site 2 of 5 in cluster I</b></p>	<p><b>RCRA NonGen / NLR</b></p>	<p><b>1024793465</b>  <b>CAL000138931</b></p>
<p><b>Relative:</b>  <b>Higher</b></p> <p><b>Actual:</b>  <b>12 ft.</b></p>	<p>RCRA Listings:</p> <p>Date Form Received by Agency: 19970324</p> <p>Handler Name: STUDIO RED INC</p> <p>Handler Address: 115 INDEPENDENCE DR</p> <p>Handler City,State,Zip: MENLO PARK, CA 94025</p> <p>EPA ID: CAL000138931</p> <p>Contact Name: PHILIP BOURGEOIS</p> <p>Contact Address: 115 INDEPENDENCE DR</p> <p>Contact City,State,Zip: MENLO PARK, CA 94025</p> <p>Contact Telephone: 650-324-2244</p> <p>Contact Fax: 000-000-0000</p> <p>Contact Email: PHIL@STUDIORED.COM</p> <p>Contact Title: Not reported</p> <p>EPA Region: 09</p> <p>Land Type: Not reported</p> <p>Federal Waste Generator Description: Not a generator, verified</p> <p>Non-Notifier: Not reported</p> <p>Biennial Report Cycle: Not reported</p> <p>Accessibility: Not reported</p> <p>Active Site Indicator: Handler Activities</p> <p>State District Owner: Not reported</p> <p>State District: Not reported</p> <p>Mailing Address: 115 INDEPENDENCE DR</p> <p>Mailing City,State,Zip: MENLO PARK, CA 94025-0000</p> <p>Owner Name: PHILIP BOURGEOIS</p> <p>Owner Type: Other</p> <p>Operator Name: PHILIP BOURGEOIS</p> <p>Operator Type: Other</p> <p>Short-Term Generator Activity: No</p> <p>Importer Activity: No</p> <p>Mixed Waste Generator: No</p> <p>Transporter Activity: No</p> <p>Transfer Facility Activity: No</p> <p>Recycler Activity with Storage: No</p> <p>Small Quantity On-Site Burner Exemption: No</p> <p>Smelting Melting and Refining Furnace Exemption: No</p> <p>Underground Injection Control: No</p> <p>Off-Site Waste Receipt: No</p> <p>Universal Waste Indicator: Yes</p> <p>Universal Waste Destination Facility: Yes</p> <p>Federal Universal Waste: No</p> <p>Active Site Fed-Reg Treatment Storage and Disposal Facility: Not reported</p> <p>Active Site Converter Treatment storage and Disposal Facility: Not reported</p> <p>Active Site State-Reg Treatment Storage and Disposal Facility: Not reported</p> <p>Active Site State-Reg Handler: ---</p> <p>Federal Facility Indicator: Not reported</p> <p>Hazardous Secondary Material Indicator: N</p> <p>Sub-Part K Indicator: Not reported</p> <p>Commercial TSD Indicator: No</p> <p>Treatment Storage and Disposal Type: Not reported</p> <p>2018 GPRA Permit Baseline: Not on the Baseline</p> <p>2018 GPRA Renewals Baseline: Not on the Baseline</p> <p>Permit Renewals Workload Universe: Not reported</p>		



Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**STUDIO RED INC (Continued)**

**1024793465**

Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20180905
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name: PHILIP BOURGEOIS	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	115 INDEPENDENCE DR
Owner/Operator City,State,Zip:	MENLO PARK, CA 94025-0000
Owner/Operator Telephone:	650-324-2244
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name: PHILIP BOURGEOIS	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	115 INDEPENDENCE DR
Owner/Operator City,State,Zip:	MENLO PARK, CA 94025
Owner/Operator Telephone:	650-324-2244
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**STUDIO RED INC (Continued)**

**1024793465**

Historic Generators:

Receive Date: 19970324  
Handler Name: STUDIO RED INC  
Federal Waste Generator Description: Not a generator, verified  
State District Owner: Not reported  
Large Quantity Handler of Universal Waste: No  
Recognized Trader Importer: No  
Recognized Trader Exporter: No  
Spent Lead Acid Battery Importer: No  
Spent Lead Acid Battery Exporter: No  
Current Record: Yes  
Non Storage Recycler Activity: Not reported  
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:

NAICS Code: 336399  
NAICS Description: ALL OTHER MOTOR VEHICLE PARTS MANUFACTURING  
  
NAICS Code: 54149  
NAICS Description: OTHER SPECIALIZED DESIGN SERVICES

Facility Has Received Notices of Violations:

Violations: No Violations Found

Evaluation Action Summary:

Evaluations: No Evaluations Found

1133  
ESE  
1/8-1/4  
0.221 mi.  
1168 ft.

**STUDIO RED  
115 INDEPENDENCE  
MENLO PARK, CA 94025**

**CA CPS-SLIC  
CA San Mateo Co. BI  
CA EMI  
CA CERS**

**S101007121  
N/A**

**Site 3 of 5 in cluster I**

**Relative:  
Higher  
Actual:  
12 ft.**

SLIC REG 2:  
Region: 2  
Facility ID: SLT2O100106  
Facility Status: Leak being confirmed  
Date Closed: Not reported  
Local Case #: Not reported  
How Discovered: Not reported  
Leak Cause: Not reported  
Leak Source: Not reported  
Date Confirmed: Not reported  
Date Prelim Site Assmnt Workplan Submitted: Not reported  
Date Preliminary Site Assessment Began: Not reported  
Date Pollution Characterization Began: Not reported  
Date Remediation Plan Submitted: Not reported  
Date Remedial Action Underway: Not reported  
Date Post Remedial Action Monitoring Began: Not reported

San Mateo Co. BI:

Name: STUDIO RED  
Address: 115 INDEPENDENCE  
City,State,Zip: MENLO PARK, CA 94025

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**STUDIO RED (Continued)**

**S101007121**

Region: SAN MATEO  
Facility ID: FA0052107  
Prog Element Code: GENERATES <27 GAL/YEAR  
Record Id: PR0072276  
Description: GENERATES <27 GAL/YEAR  
Facility Status: Active, billable  
Program Category: HAZARDOUS WASTE PROGRAM

Name: STUDIO RED  
Address: 115 INDEPENDENCE  
City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0052107  
Prog Element Code: STORMWATER ANNUAL INSPECTION FEE  
Record Id: PR0072277  
Description: STORMWATER ANNUAL FEE - INSP FREQ EVERY 2 YRS  
Facility Status: Inactive, non-billable  
Program Category: STORMWATER

**EMI:**

Name: RAYCHEM CORPORATION  
Address: 115 INDEPENDENCE  
City,State,Zip: MENLO PARK, CA  
Year: 1990  
County Code: 41  
Air Basin: SF  
Facility ID: 662  
Air District Name: BA  
SIC Code: 3433  
Air District Name: BAY AREA AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 0  
Reactive Organic Gases Tons/Yr: 0  
Carbon Monoxide Emissions Tons/Yr: 0  
NOX - Oxides of Nitrogen Tons/Yr: 0  
SOX - Oxides of Sulphur Tons/Yr: 0  
Particulate Matter Tons/Yr: 0  
Part. Matter 10 Micrometers and Smlr Tons/Yr:0

**CERS:**

Name: MENLO PORTAL  
Address: 115 INDEPENDENCE DR & 104-110 CONSTITUTION DR  
City,State,Zip: MENLO PARK, CA 94025  
Site ID: 244016  
CERS ID: SLT2O100106  
CERS Description: Cleanup Program Site

**Affiliation:**

Affiliation Type Desc: Regional Board Caseworker  
Entity Name: KIMBERLEE WEST - SAN FRANCISCO BAY RWQCB (REGION 2)  
Entity Title: Not reported  
Affiliation Address: 1515 Clay Street  
Affiliation City: OAKLAND  
Affiliation State: CA  
Affiliation Country: Not reported  
Affiliation Zip: Not reported

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**STUDIO RED (Continued)**

**S101007121**

Affiliation Phone: 5106222432,

1134  
 ESE  
 1/8-1/4  
 0.221 mi.  
 1168 ft.

**MENLO PORTAL**  
**115 INDEPENDENCE DRIVE**  
**MENLO PARK, CA 94025**

**Site 4 of 5 in cluster I**

**CA CPS-SLIC**  
**CA NPDES**  
**CA CIWQS**  
**CA CERS**  
**CA HWTS**

**S124807403**  
**N/A**

**Relative:**  
**Higher**  
**Actual:**  
**12 ft.**

**CPS-SLIC:**  
 Name: MENLO PORTAL  
 Address: 115 INDEPENDENCE DR & 104-110 CONSTITUTION DR  
 City,State,Zip: MENLO PARK, CA 94025  
 Region: STATE  
**Facility Status: Open - Remediation**  
 Status Date: 08/16/2021  
 Global Id: SLT2O100106  
 Lead Agency: SAN FRANCISCO BAY RWQCB (REGION 2)  
 Lead Agency Case Number: Not reported  
 Latitude: 37.4848247104198  
 Longitude: -122.178338966934  
 Case Type: Cleanup Program Site  
 Case Worker: KAW  
 Local Agency: Not reported  
 RB Case Number: 41S0044  
 File Location: Regional Board  
 Potential Media Affected: Aquifer used for drinking water supply, Soil Vapor  
 Potential Contaminants of Concern: Dichloroethene (DCE), Trichloroethylene (TCE), Vinyl chloride, Arsenic, Benzene, Diesel, Gasoline, Total Petroleum Hydrocarbons (TPH)  
 Site History: The site is located in Bohannon Industrial Park Unit 3. The parcel area is 39,650 sf. Prior to construction of the building around 1966, the site was used for agriculture. The building was used for component manufacturing by Electro Nuclear Laboratories from 1974 to approx. 1975. The bldg. had been occupied by semiconductor manufacturing companies, including Raychem Corporation from 1983 to 1994. The 1989 Phase I & II Site Investigation results showed TCE up to 610 ug/l and above MCL concentrations of Cd, Cr, and Ag in GW sample from MW-2. No source of contamination confirmed on-site. Raychem also formerly occupied the adjoining property at 119 Independence GW sample from the MMW-1 in 1997 contained up to 420 ug/l TCE, 35 ug/l DCE, and 35,000 ug/l chlorobenzene. Case was inactive for many years. In 2021, the Site was three separate properties each with a building that was historically used for industrial operations and was converted to office use in the 1990s. In 2021, the site was redevelop the Site with one commercial and one residential use building. The residential building is a seven-story multi-family apartment building on the eastern portion of the Site with ground-floor tenant amenities and parking. The office building is a three-story building on the western portion of the Site with a parking garage on the ground and second floors. Vapor intrusion concerns are mitigated by building design, the addition of 3 feet of clean soil across the site before the site is redeveloped, and construction earthwork/ soil removal. No remediation or mitigation measures are required; however, post-construction, pre-occupancy sampling is required to demonstrate that vapor intrusion is not a threat.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MENLO PORTAL (Continued)**

**S124807403**

[Click here to access the California GeoTracker records for this facility:](#)

**NPDES:**

Name: MENLO PORTAL  
Address: 115 INDEPENDENCE DRIVE  
City,State,Zip: MENLO PARK, CA 94025  
Facility Status: Active  
NPDES Number: CAS000002  
Region: 2  
Agency Number: 0  
Regulatory Measure ID: 539525  
Place ID: Not reported  
Order Number: 2009-0009-DWQ  
WDID: 2 41C394930  
Regulatory Measure Type: Enrollee  
Program Type: Construction  
Adoption Date Of Regulatory Measure: Not reported  
Effective Date Of Regulatory Measure: 08/26/2021  
Termination Date Of Regulatory Measure: Not reported  
Expiration Date Of Regulatory Measure: Not reported  
Discharge Address: 450 Sansome Street Suite 500  
Discharge Name: GS MP Portal Owner LLC  
Discharge City: San Francisco  
Discharge State: California  
Discharge Zip: 94111  
Status: Not reported  
Status Date: Not reported  
Operator Name: Not reported  
Operator Address: Not reported  
Operator City: Not reported  
Operator State: Not reported  
Operator Zip: Not reported

Name: MENLO PORTAL  
Address: 115 INDEPENDENCE DRIVE  
City,State,Zip: MENLO PARK, CA 94025  
Facility Status: Not reported  
NPDES Number: Not reported  
Region: Not reported  
Agency Number: Not reported  
Regulatory Measure ID: Not reported  
Place ID: Not reported  
Order Number: Not reported  
WDID: 2 41C394930  
Regulatory Measure Type: Construction  
Program Type: Not reported  
Adoption Date Of Regulatory Measure: Not reported  
Effective Date Of Regulatory Measure: Not reported  
Termination Date Of Regulatory Measure: Not reported  
Expiration Date Of Regulatory Measure: Not reported  
Discharge Address: Not reported  
Discharge Name: Not reported  
Discharge City: Not reported  
Discharge State: Not reported  
Discharge Zip: Not reported  
Status: Active

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MENLO PORTAL (Continued)**

**S124807403**

Status Date: 08/26/2021  
Operator Name: GS MP Portal Owner LLC  
Operator Address: 450 Sansome Street Suite 500  
Operator City: San Francisco  
Operator State: California  
Operator Zip: 94111

**CIWQS:**

Name: MENLO PORTAL  
Address: 115 INDEPENDENCE DRIVE  
City,State,Zip: MENLO PARK, CA 94025  
Agency: GS MP Portal Owner LLC  
Agency Address: 450 Sansome Street Suite 500, San Francisco, CA 94111  
Place/Project Type: Construction - Other: Offices, Residential  
SIC/NAICS: Not reported  
Region: 2  
Program: CONSTW  
Regulatory Measure Status: Active  
Regulatory Measure Type: Storm water construction  
Order Number: 2009-0009-DWQ  
WDID: 2 41C394930  
NPDES Number: CAS000002  
Adoption Date: Not reported  
Effective Date: 08/26/2021  
Termination Date: Not reported  
Expiration/Review Date: Not reported  
Design Flow: Not reported  
Major/Minor: Not reported  
Complexity: Not reported  
TTWQ: Not reported  
Enforcement Actions within 5 years: 0  
Violations within 5 years: 0  
Latitude: 37.48403  
Longitude: -122.17829

**CERS:**

Name: MENLO PORTAL  
Address: 115 INDEPENDENCE DRIVE  
City,State,Zip: MENLO PARK, CA 94025  
Site ID: 593715  
CERS ID: 896649  
CERS Description: Construction Storm Water

**Affiliation:**

Affiliation Type Desc: Owner/Operator  
Entity Name: GS MP Portal Owner LLC  
Entity Title: Operator  
Affiliation Address: 450 Sansome Street Suite 500  
Affiliation City: San Francisco  
Affiliation State: CA  
Affiliation Country: Not reported  
Affiliation Zip: 94111  
Affiliation Phone: ,

**HWTS:**

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MENLO PORTAL (Continued)**

**S124807403**

Name: STUDIO RED INC  
Address: 115 INDEPENDENCE DR  
Address 2: Not reported  
City,State,Zip: MENLO PARK, CA 94025  
EPA ID: CAL000138931  
Inactive Date: 06/30/2020  
Create Date: 03/24/1997  
Last Act Date: Not reported  
Mailing Name: Not reported  
Mailing Address: 115 INDEPENDENCE DR  
Mailing Address 2: Not reported  
Mailing City,State,Zip: MENLO PARK, CA 940250000  
Owner Name: PHILIP BOURGEOIS  
Owner Address: 115 INDEPENDENCE DR  
Owner Address 2: Not reported  
Owner City,State,Zip: MENLO PARK, CA 940250000  
Contact Name: PHILIP BOURGEOIS  
Contact Address: 115 INDEPENDENCE DR  
Contact Address 2: Not reported  
City,State,Zip: MENLO PARK, CA 94025  
Facility Status: Inactive  
Facility Type: PERMANENT  
Category: STATE  
Latitude: 37.484672  
Longitude: -122.179319

**NAICS:**

EPA ID: CAL000138931  
Create Date: 2012-05-03 09:37:15.680  
NAICS Code: 336399  
NAICS Description: All Other Motor Vehicle Parts Manufacturing  
Issued EPA ID Date: 1997-03-24 00:00:00  
Inactive Date: 2020-06-30 00:00:00  
Facility Name: STUDIO RED INC  
Facility Address: 115 INDEPENDENCE DR  
Facility Address 2: Not reported  
Facility City: MENLO PARK  
Facility County: Not reported  
Facility State: CA  
Facility Zip: 94025

EPA ID: CAL000138931  
Create Date: 2013-10-15 15:45:40.993  
NAICS Code: 54149  
NAICS Description: Other Specialized Design Services  
Issued EPA ID Date: 1997-03-24 00:00:00  
Inactive Date: 2020-06-30 00:00:00  
Facility Name: STUDIO RED INC  
Facility Address: 115 INDEPENDENCE DR  
Facility Address 2: Not reported  
Facility City: MENLO PARK  
Facility County: Not reported  
Facility State: CA  
Facility Zip: 94025

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**1135**      **WATERGURU INC.**      **RCRA NonGen / NLR**      **1026712320**  
**ESE**      **115 INDEPENDENCE DR.**  
**1/8-1/4**      **MENLO PARK, CA 94025**  
**0.221 mi.**  
**1168 ft.**      **Site 5 of 5 in cluster I**

**Relative:**  
**Higher**  
**Actual:**  
**12 ft.**

RCRA Listings:  
 Date Form Received by Agency: 20210112  
 Handler Name: WATERGURU INC.  
 Handler Address: 115 INDEPENDENCE DR.  
 Handler City,State,Zip: MENLO PARK, CA 94025  
 EPA ID: CAC003100545  
 Contact Name: DANIEL GNEKOW  
 Contact Address: 115 INDEPENDENCE DR.  
 Contact City,State,Zip: MENLO PARK, CA 94025  
 Contact Telephone: 530-355-3324  
 Contact Fax: Not reported  
 Contact Email: DANIELG@WATERGURU.COM  
 Contact Title: Not reported  
 EPA Region: 09  
 Land Type: Not reported  
 Federal Waste Generator Description: Not a generator, verified  
 Non-Notifier: Not reported  
 Biennial Report Cycle: Not reported  
 Accessibility: Not reported  
 Active Site Indicator: Not reported  
 State District Owner: Not reported  
 State District: Not reported  
 Mailing Address: 115 INDEPENDENCE DR.  
 Mailing City,State,Zip: MENLO PARK, CA 94025  
 Owner Name: DANIEL GNEKOW  
 Owner Type: Other  
 Operator Name: DANIEL GNEKOW  
 Operator Type: Other  
 Short-Term Generator Activity: No  
 Importer Activity: No  
 Mixed Waste Generator: No  
 Transporter Activity: No  
 Transfer Facility Activity: No  
 Recycler Activity with Storage: No  
 Small Quantity On-Site Burner Exemption: No  
 Smelting Melting and Refining Furnace Exemption: No  
 Underground Injection Control: No  
 Off-Site Waste Receipt: No  
 Universal Waste Indicator: No  
 Universal Waste Destination Facility: No  
 Federal Universal Waste: No  
 Active Site Fed-Reg Treatment Storage and Disposal Facility: Not reported  
 Active Site Converter Treatment storage and Disposal Facility: Not reported  
 Active Site State-Reg Treatment Storage and Disposal Facility: Not reported  
 Active Site State-Reg Handler: ---  
 Federal Facility Indicator: Not reported  
 Hazardous Secondary Material Indicator: N  
 Sub-Part K Indicator: Not reported  
 Commercial TSD Indicator: No  
 Treatment Storage and Disposal Type: Not reported  
 2018 GPRA Permit Baseline: Not on the Baseline  
 2018 GPRA Renewals Baseline: Not on the Baseline  
 Permit Renewals Workload Universe: Not reported



Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**WATERGURU INC. (Continued)**

**1026712320**

Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20210226
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name: DANIEL GNEKOW	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	115 INDEPENDENCE DR.
Owner/Operator City,State,Zip:	MENLO PARK, CA 94025
Owner/Operator Telephone:	530-355-3324
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name: DANIEL GNEKOW	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	115 INDEPENDENCE DR.
Owner/Operator City,State,Zip:	MENLO PARK, CA 94025
Owner/Operator Telephone:	530-355-3324
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**WATERGURU INC. (Continued)**

**1026712320**

Historic Generators:

Receive Date: 20210112  
Handler Name: WATERGURU INC.  
Federal Waste Generator Description: Not a generator, verified  
State District Owner: Not reported  
Large Quantity Handler of Universal Waste: No  
Recognized Trader Importer: No  
Recognized Trader Exporter: No  
Spent Lead Acid Battery Importer: No  
Spent Lead Acid Battery Exporter: No  
Current Record: Yes  
Non Storage Recycler Activity: No  
Electronic Manifest Broker: No

List of NAICS Codes and Descriptions:

NAICS Code: 56299  
NAICS Description: ALL OTHER WASTE MANAGEMENT SERVICES

Facility Has Received Notices of Violations:

Violations: No Violations Found

Evaluation Action Summary:

Evaluations: No Evaluations Found

L136  
ESE  
1/8-1/4  
0.224 mi.  
1183 ft.

**GS MP PORTAL OWNER, LLC**  
**110 CONSTITUTION DR**  
**MENLO PARK, CA 94025**  
**Site 3 of 8 in cluster L**

**RCRA NonGen / NLR 1027074882**  
**CAC003146591**

**Relative:**  
**Lower**  
**Actual:**  
**9 ft.**

RCRA Listings:  
Date Form Received by Agency: 20211103  
Handler Name: GS MP PORTAL OWNER, LLC  
Handler Address: 110 CONSTITUTION DR  
Handler City,State,Zip: MENLO PARK, CA 94025  
EPA ID: CAC003146591  
Contact Name: AMIR DAVOODI  
Contact Address: 110 CONSTITUTION DR  
Contact City,State,Zip: MENLO PARK, CA 94025  
Contact Telephone: 415-717-5182  
Contact Fax: Not reported  
Contact Email: AMIR.DAVOODI@GREYSTAR.COM  
Contact Title: Not reported  
EPA Region: 09  
Land Type: Not reported  
Federal Waste Generator Description: Not a generator, verified  
Non-Notifier: Not reported  
Biennial Report Cycle: Not reported  
Accessibility: Not reported  
Active Site Indicator: Not reported  
State District Owner: Not reported  
State District: Not reported  
Mailing Address: 465 MEETING ST  
Mailing City,State,Zip: CHARLESTON, SC 29403  
Owner Name: CHAD ZAKSKORN

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**GS MP PORTAL OWNER, LLC (Continued)**

**1027074882**

Owner Type:		Other
Operator Name:	AMIR DAVOODI	
Operator Type:		Other
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No
Smelting Melting and Refining Furnace Exemption:		No
Underground Injection Control:		No
Off-Site Waste Receipt:		No
Universal Waste Indicator:		No
Universal Waste Destination Facility:		No
Federal Universal Waste:		No
Active Site Fed-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site Converter Treatment storage and Disposal Facility:		Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site State-Reg Handler:		---
Federal Facility Indicator:		Not reported
Hazardous Secondary Material Indicator:		N
Sub-Part K Indicator:		Not reported
Commercial TSD Indicator:		No
Treatment Storage and Disposal Type:		Not reported
2018 GPRA Permit Baseline:		Not on the Baseline
2018 GPRA Renewals Baseline:		Not on the Baseline
Permit Renewals Workload Universe:		Not reported
Permit Workload Universe:		Not reported
Permit Progress Universe:		Not reported
Post-Closure Workload Universe:		Not reported
Closure Workload Universe:		Not reported
202 GPRA Corrective Action Baseline:		No
Corrective Action Workload Universe:		No
Subject to Corrective Action Universe:		No
Non-TSDs Where RCRA CA has Been Imposed Universe:		No
TSDs Potentially Subject to CA Under 3004 (u)/(v) Universe:		No
TSDs Only Subject to CA under Discretionary Auth Universe:		No
Corrective Action Priority Ranking:		No NCAPS ranking
Environmental Control Indicator:		No
Institutional Control Indicator:		No
Human Exposure Controls Indicator:		N/A
Groundwater Controls Indicator:		N/A
Operating TSD Universe:		Not reported
Full Enforcement Universe:		Not reported
Significant Non-Complier Universe:		No
Unaddressed Significant Non-Complier Universe:		No
Addressed Significant Non-Complier Universe:		No
Significant Non-Complier With a Compliance Schedule Universe:		No
Financial Assurance Required:	Not reported	
Handler Date of Last Change:		20211104
Recognized Trader-Importer:		No
Recognized Trader-Exporter:		No
Importer of Spent Lead Acid Batteries:		No
Exporter of Spent Lead Acid Batteries:		No
Recycler Activity Without Storage:		No
Manifest Broker:		No

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GS MP PORTAL OWNER, LLC (Continued)**

**1027074882**

Sub-Part P Indicator: No

Handler - Owner Operator:

Owner/Operator Indicator: Owner  
Owner/Operator Name: CHAD ZAKSKORN  
Legal Status: Other  
Date Became Current: Not reported  
Date Ended Current: Not reported  
Owner/Operator Address: 465 MEETING ST  
Owner/Operator City,State,Zip: CHARLESTON, SC 29403  
Owner/Operator Telephone: 925-818-2814  
Owner/Operator Telephone Ext: Not reported  
Owner/Operator Fax: Not reported  
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator  
Owner/Operator Name: AMIR DAVOODI  
Legal Status: Other  
Date Became Current: Not reported  
Date Ended Current: Not reported  
Owner/Operator Address: 110 CONSTITUTION DR  
Owner/Operator City,State,Zip: MENLO PARK, CA 94025  
Owner/Operator Telephone: 415-717-5182  
Owner/Operator Telephone Ext: Not reported  
Owner/Operator Fax: Not reported  
Owner/Operator Email: Not reported

Historic Generators:

Receive Date: 20211103  
Handler Name: GS MP PORTAL OWNER, LLC  
Federal Waste Generator Description: Not a generator, verified  
State District Owner: Not reported  
Large Quantity Handler of Universal Waste: No  
Recognized Trader Importer: No  
Recognized Trader Exporter: No  
Spent Lead Acid Battery Importer: No  
Spent Lead Acid Battery Exporter: No  
Current Record: Yes  
Non Storage Recycler Activity: No  
Electronic Manifest Broker: No

List of NAICS Codes and Descriptions:

NAICS Code: 531110  
NAICS Description: LESSORS OF RESIDENTIAL BUILDINGS AND DWELLINGS

Facility Has Received Notices of Violations:

Violations: No Violations Found

Evaluation Action Summary:

Evaluations: No Evaluations Found

MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Site

Database(s)

EDR ID Number  
EPA ID Number

**L137**  
**ESE**  
**1/8-1/4**  
**0.224 mi.**  
**1183 ft.**

**SPACESONICS INC**  
**110 CONSTITUTION**  
**MENLO PARK, CA 94025**  
  
**Site 4 of 8 in cluster L**

**CA San Mateo Co. BI**

**S103952597**  
**N/A**

**Relative:**  
**Lower**  
  
**Actual:**  
**9 ft.**

San Mateo Co. BI:  
Name: SPACESONICS INC  
Address: 110 CONSTITUTION  
City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0015919  
Prog Element Code: GENERATES and RECYCLES WASTE OIL/SOLVENT  
Record Id: PR0011520  
Description: GENERATES & RECYCLES WASTE OIL/SOLVENT  
Facility Status: Inactive, non-billable  
Program Category: HAZARDOUS WASTE PROGRAM

Name: SPACESONICS INC  
Address: 110 CONSTITUTION  
City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0015919  
Prog Element Code: STORES HAZ MAT <1,199GAL,9,999LB,4,799FT3  
Record Id: PR0004184  
Description: STORES HAZ MAT <1,199GAL,9,999LB,4,799CF  
Facility Status: Inactive, non-billable  
Program Category: BUSINESS PLAN PROGRAM

**L138**  
**ESE**  
**1/8-1/4**  
**0.224 mi.**  
**1183 ft.**

**GS MP PORTAL OWNER, LLC**  
**110 CONSTITUTION DR**  
**MENLO PARK, CA 94025**  
  
**Site 5 of 8 in cluster L**

**RCRA-SQG**  
**FINDS**  
**ECHO**

**1000364810**  
**CAD030978225**

**Relative:**  
**Lower**  
  
**Actual:**  
**9 ft.**

RCRA Listings:  
Date Form Received by Agency: 19960901  
Handler Name: THERMAL TECHNOLOGY INC  
Handler Address: 110 CONSTITUTION DR  
Handler City,State,Zip: MENLO PARK, CA 94025  
EPA ID: CAD030978225  
Contact Name: Not reported  
Contact Address: Not reported  
Contact City,State,Zip: Not reported  
Contact Telephone: Not reported  
Contact Fax: Not reported  
Contact Email: Not reported  
Contact Title: Not reported  
EPA Region: 09  
Land Type: Not reported  
Federal Waste Generator Description: Small Quantity Generator  
Non-Notifier: Not reported  
Biennial Report Cycle: Not reported  
Accessibility: Not reported  
Active Site Indicator: Handler Activities  
State District Owner: CA  
State District: 2  
Mailing Address: CONSTITUTION DR  
Mailing City,State,Zip: MENLO PARK, CA 94025  
Owner Name: RICHARD FEHL

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**GS MP PORTAL OWNER, LLC (Continued)**

**1000364810**

Owner Type:		Private
Operator Name:	NOT REQUIRED	
Operator Type:		Private
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No
Smelting Melting and Refining Furnace Exemption:		No
Underground Injection Control:		No
Off-Site Waste Receipt:		No
Universal Waste Indicator:		No
Universal Waste Destination Facility:		No
Federal Universal Waste:		No
Active Site Fed-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site Converter Treatment storage and Disposal Facility:		Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site State-Reg Handler:		---
Federal Facility Indicator:		Not reported
Hazardous Secondary Material Indicator:		NN
Sub-Part K Indicator:		Not reported
Commercial TSD Indicator:		No
Treatment Storage and Disposal Type:		Not reported
2018 GPRA Permit Baseline:		Not on the Baseline
2018 GPRA Renewals Baseline:		Not on the Baseline
Permit Renewals Workload Universe:		Not reported
Permit Workload Universe:		Not reported
Permit Progress Universe:		Not reported
Post-Closure Workload Universe:		Not reported
Closure Workload Universe:		Not reported
202 GPRA Corrective Action Baseline:		No
Corrective Action Workload Universe:		No
Subject to Corrective Action Universe:		No
Non-TSDs Where RCRA CA has Been Imposed Universe:		No
TSDs Potentially Subject to CA Under 3004 (u)/(v) Universe:		No
TSDs Only Subject to CA under Discretionary Auth Universe:		No
Corrective Action Priority Ranking:		No NCAPS ranking
Environmental Control Indicator:		No
Institutional Control Indicator:		No
Human Exposure Controls Indicator:		N/A
Groundwater Controls Indicator:		N/A
Operating TSD Universe:		Not reported
Full Enforcement Universe:		Not reported
Significant Non-Complier Universe:		No
Unaddressed Significant Non-Complier Universe:		No
Addressed Significant Non-Complier Universe:		No
Significant Non-Complier With a Compliance Schedule Universe:		No
Financial Assurance Required:	Not reported	
Handler Date of Last Change:		20000915
Recognized Trader-Importer:		No
Recognized Trader-Exporter:		No
Importer of Spent Lead Acid Batteries:		No
Exporter of Spent Lead Acid Batteries:		No
Recycler Activity Without Storage:		Not reported
Manifest Broker:		Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GS MP PORTAL OWNER, LLC (Continued)**

**1000364810**

Sub-Part P Indicator: No

Handler - Owner Operator:  
Owner/Operator Indicator: Operator  
Owner/Operator Name: NOT REQUIRED  
Legal Status: Private  
Date Became Current: Not reported  
Date Ended Current: Not reported  
Owner/Operator Address: NOT REQUIRED  
Owner/Operator City,State,Zip: NOT REQUIRED, ME 99999  
Owner/Operator Telephone: 415-555-1212  
Owner/Operator Telephone Ext: Not reported  
Owner/Operator Fax: Not reported  
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner  
Owner/Operator Name: RICHARD FEHL  
Legal Status: Private  
Date Became Current: Not reported  
Date Ended Current: Not reported  
Owner/Operator Address: NOT REQUIRED  
Owner/Operator City,State,Zip: NOT REQUIRED, ME 99999  
Owner/Operator Telephone: 415-555-1212  
Owner/Operator Telephone Ext: Not reported  
Owner/Operator Fax: Not reported  
Owner/Operator Email: Not reported

Historic Generators:  
Receive Date: 19960901  
Handler Name: THERMAL TECHNOLOGY INC  
Federal Waste Generator Description: Small Quantity Generator  
State District Owner: CA  
Large Quantity Handler of Universal Waste: No  
Recognized Trader Importer: No  
Recognized Trader Exporter: No  
Spent Lead Acid Battery Importer: No  
Spent Lead Acid Battery Exporter: No  
Current Record: Yes  
Non Storage Recycler Activity: Not reported  
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:  
NAICS Code: 334419  
NAICS Description: OTHER ELECTRONIC COMPONENT MANUFACTURING

Facility Has Received Notices of Violations:  
Violations: No Violations Found

Evaluation Action Summary:  
Evaluations: No Evaluations Found

FINDS:

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**GS MP PORTAL OWNER, LLC (Continued)**

**1000364810**

Registry ID: 110071185921

Click Here for FRS Facility Detail Report:

Environmental Interest/Information System:

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Registry ID: 110009529849

Click Here for FRS Facility Detail Report:

Environmental Interest/Information System:

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid: 1000364810  
 Registry ID: 110009529849  
 DFR URL: <http://echo.epa.gov/detailed-facility-report?fid=110009529849>  
 Name: THERMAL TECHNOLOGY INC  
 Address: 110 CONSTITUTION DR  
 City,State,Zip: MENLO PARK, CA 94025

**L139**  
**East**  
**1/8-1/4**  
**0.225 mi.**  
**1189 ft.**

**OPTIVIA BIOTECHNOLOGY**  
**115 CONSTITUTION**  
**MENLO PARK, CA 94025**

**CA San Mateo Co. BI S103953007**  
**N/A**

**Site 6 of 8 in cluster L**

**Relative:**  
**Lower**  
**Actual:**  
**8 ft.**

San Mateo Co. BI:  
 Name: OPTIVIA BIOTECHNOLOGY  
 Address: 115 CONSTITUTION  
 City,State,Zip: MENLO PARK, CA 94025  
 Region: SAN MATEO  
 Facility ID: FA0047284  
 Prog Element Code: STORMWATER ANNUAL INSPECTION FEE  
 Record Id: PR0067847  
 Description: STORMWATER ANNUAL FEE - INSP FREQ EVERY 2 YRS  
 Facility Status: Inactive, non-billable  
 Program Category: STORMWATER

Name: OPTIVIA BIOTECHNOLOGY  
 Address: 115 CONSTITUTION  
 City,State,Zip: MENLO PARK, CA 94025  
 Region: SAN MATEO  
 Facility ID: FA0047284  
 Prog Element Code: SML QUANTITY GENERATOR(1-199lbs/Mo) OFF-SITE  
 Record Id: PR0064533



Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**OPTIVIA BIOTECHNOLOGY (Continued)**

**S103953007**

Description: SQG OFF-SITE TREATMENT (1-199 LB/MO)  
 Facility Status: Inactive, non-billable  
 Program Category: MEDICAL WASTE

Name: OPTIVIA BIOTECHNOLOGY  
 Address: 115 CONSTITUTION  
 City,State,Zip: MENLO PARK, CA 94025  
 Region: SAN MATEO  
 Facility ID: FA0047284  
 Prog Element Code: GENERATES <27 GAL/YEAR  
 Record Id: PR0081321  
 Description: GENERATES <27 GAL/YEAR  
 Facility Status: Inactive, non-billable  
 Program Category: HAZARDOUS WASTE PROGRAM

Name: OPTIVIA BIOTECHNOLOGY  
 Address: 115 CONSTITUTION  
 City,State,Zip: MENLO PARK, CA 94025  
 Region: SAN MATEO  
 Facility ID: FA0047284  
 Prog Element Code: STORES HAZ MAT <219GAL,1,999LB, 879FT3  
 Record Id: PR0067844  
 Description: STORES HAZ MAT <219GAL,1,999LB, 879CF  
 Facility Status: Inactive, non-billable  
 Program Category: BUSINESS PLAN PROGRAM

**L140**  
**East**  
**1/8-1/4**  
**0.225 mi.**  
**1189 ft.**

**115 CONSTITUTION DR**  
**115 CONSTITUTION DR**  
**MENLO PARK, CA 94025**

**CA LUST** **S104493781**  
**N/A**

**Site 7 of 8 in cluster L**

**Relative:**  
**Lower**  
**Actual:**  
**8 ft.**

LUST REG 2:  
 Region: 2  
 Facility Id: 41-1145  
 Facility Status: Case Closed  
 Case Number: RWQCB3  
 How Discovered: Tank Closure  
 Leak Cause: UNK  
 Leak Source: UNK  
 Date Leak Confirmed: 7/15/1995  
 Oversight Program: LUST  
 Prelim. Site Assesment Wokplan Submitted: Not reported  
 Preliminary Site Assesment Began: Not reported  
 Pollution Characterization Began: Not reported  
 Pollution Remediation Plan Submitted: Not reported  
 Date Remediation Action Underway: Not reported  
 Date Post Remedial Action Monitoring Began: Not reported

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**L141**      **THERMAL TECHNOLOGY INC**  
**East**      **37.48504/-122.17783**  
**1/8-1/4**      **MENLO PARK, CA**  
**0.225 mi.**  
**1190 ft.**      **Site 8 of 8 in cluster L**

**PFAS ECHO**      **1027428462**  
                                  **N/A**

**Relative:**  
**Lower**  
**Actual:**  
**9 ft.**

**PFAS ECHO:**  
 Name: THERMAL TECHNOLOGY INC  
 Address: 37.48504/-122.17783  
 City,State,Zip: MENLO PARK, CA  
 Latitude: 37.48504  
 Longitude: -122.17783  
 Count: -1  
 County: SAN MATEO  
 Status: Active  
 Region: 09  
 Industry: Electronics Industry  
 ECHO Facility Report: <https://echo.epa.gov/detailed-facility-report?fid=110009529849>  
 Facility Percent Minority: 65.894  
 Facility Derived Tribes: Not reported  
 Facility Population: 4712.41  
 EJSCREEN Flag US: N  
 EJSCREEN Report: [https://ejscreen.epa.gov/mapper/mobile/EJSCREEN\\_mobile.aspx?geometry=%7B%22x%22:-122.17783,%22y%22:37.48504,%22spatialReference%22:%7B%22wkid%22:4326%7D%7D&unit=9035&areatype=&areaid=&basemap=streets&distance=1](https://ejscreen.epa.gov/mapper/mobile/EJSCREEN_mobile.aspx?geometry=%7B%22x%22:-122.17783,%22y%22:37.48504,%22spatialReference%22:%7B%22wkid%22:4326%7D%7D&unit=9035&areatype=&areaid=&basemap=streets&distance=1)  
 EPA Programs: RCRA  
 Federal Facility: No  
 Federal Agency: Not reported  
 Facility FIPS Code: 06081  
 Facility Indian Country Flag: N  
 Facility Collection Method: ADDRESS MATCHING-HOUSE NUMBER  
 Facility Derived HUC: 18050004  
 Facility Derived WBD: 180500040902  
 Facility Derived CD113: 14  
 Facility Derived CB2010: 060816117004016  
 Facility Major Flag: Not reported  
 Facility Active Flag: Y  
 Facility Inspection Count: 0  
 Facility Date Last Inspection: Not reported  
 Facility Days Last Inspection: Not reported  
 Facility Informal Count: 0  
 Facility Date Last Informal Action: Not reported  
 Facility Formal Action Count: 0  
 Facility Date Last Formal Action: Not reported  
 Facility Total Penalties: 0  
 Facility Penalty Count: Not reported  
 Facility Date Last Penalty: Not reported  
 Facility Last Penalty AMT: Not reported  
 Facility QTRS With NC: 0  
 Facility Programs With SNC: 0  
 Facility Compliance Status: No Violation Identified  
 Facility SNC Flag: N  
 AIR Flag: N  
 NPDES Flag: N  
 SDWIS Flag: N  
 RCRA Flag: Y  
 TRI Flag: N  
 GHG Flag: N  
 AIR IDS: Not reported

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**THERMAL TECHNOLOGY INC (Continued)**

**1027428462**

CAA Permit Types:	Not reported
CAA NAICS:	Not reported
CAA SICS:	Not reported
NPDES IDS:	Not reported
CWA Permit Types:	Not reported
CWA NAICS:	Not reported
CWA SICS:	Not reported
RCRA IDS:	CAD030978225
RCRA Permit Types:	SQG
RCRA NAICS:	334419
SDWA IDS:	Not reported
SDWA System Types:	Not reported
SDWA Compliance Status:	Not reported
SDWA SNC Flag:	N
TRI IDS:	Not reported
TRI Releases Transfers:	Not reported
TRI On Site Releases:	Not reported
TRI Off Site Transfers:	Not reported
TRI Reporter:	Not reported
Facility IMP Water Flag:	Not reported

**M142**  
**West**  
**1/8-1/4**  
**0.232 mi.**  
**1225 ft.**

**GRIFFIN PAINTING, INC.**  
**3580 HAVEN**  
**REDWOOD CITY, CA 94063**  
**Site 21 of 25 in cluster M**

**CA San Mateo Co. BI S113757965**  
**N/A**

**Relative:**  
**Higher**  
**Actual:**  
**12 ft.**

San Mateo Co. BI:	
Name:	GRIFFIN PAINTING, INC.
Address:	3580 HAVEN
City,State,Zip:	REDWOOD CITY, CA 94063
Region:	SAN MATEO
Facility ID:	FA0028325
Prog Element Code:	STORMWATER ANNUAL INSPECTION FEE
Record Id:	PR0046907
Description:	STORMWATER ANNUAL FEE - INSP FREQ EVERY 2 YRS
Facility Status:	Inactive, non-billable
Program Category:	STORMWATER
Name:	GRIFFIN PAINTING, INC.
Address:	3580 HAVEN
City,State,Zip:	REDWOOD CITY, CA 94063
Region:	SAN MATEO
Facility ID:	FA0028325
Prog Element Code:	GENERATES and RECYCLES WASTE OIL/SOLVENT
Record Id:	PR0046906
Description:	GENERATES & RECYCLES WASTE OIL/SOLVENT
Facility Status:	Active, billable
Program Category:	HAZARDOUS WASTE PROGRAM
Name:	GRIFFIN PAINTING, INC.
Address:	3580 HAVEN
City,State,Zip:	REDWOOD CITY, CA 94063
Region:	SAN MATEO
Facility ID:	FA0028325
Prog Element Code:	STORES HAZ MAT <219GAL,1,999LB, 879FT3
Record Id:	PR0046905
Description:	STORES HAZ MAT <219GAL,1,999LB, 879CF

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**GRIFFIN PAINTING, INC. (Continued)**

**S113757965**

Facility Status: Active, billable  
 Program Category: BUSINESS PLAN PROGRAM

**M143**  
**West**  
**1/8-1/4**  
**0.232 mi.**  
**1225 ft.**

**GRIFFIN PAINTING INC**  
**3580 HAVEN AVE STE 2**  
**REDWOOD CITY, CA 94063**

**RCRA NonGen / NLR**

**1024808371**  
**CAL000279457**

**Site 22 of 25 in cluster M**

**Relative:**  
**Higher**  
**Actual:**  
**12 ft.**

RCRA Listings:		
Date Form Received by Agency:		20040226
Handler Name:	GRIFFIN PAINTING INC	
Handler Address:		3580 HAVEN AVE STE 2
Handler City,State,Zip:		REDWOOD CITY, CA 94063-4639
EPA ID:		CAL000279457
Contact Name:		VICTORIA OLSEN
Contact Address:		3580 HAVEN AVE STE 2
Contact City,State,Zip:		REDWOOD CITY, CA 94063
Contact Telephone:		650-368-3190
Contact Fax:		650-368-3192
Contact Email:		VICTORIA@GRIFFINPAINTING.COM
Contact Title:		Not reported
EPA Region:		09
Land Type:		Not reported
Federal Waste Generator Description:		Not a generator, verified
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Handler Activities
State District Owner:		Not reported
State District:		Not reported
Mailing Address:		3580 HAVEN AVE STE 2
Mailing City,State,Zip:		REDWOOD CITY, CA 94063-4639
Owner Name:	GRIFFIN PAINTING INC	
Owner Type:		Other
Operator Name:	VICTORIA OLSEN	
Operator Type:		Other
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No
Smelting Melting and Refining Furnace Exemption:		No
Underground Injection Control:		No
Off-Site Waste Receipt:		No
Universal Waste Indicator:		Yes
Universal Waste Destination Facility:		Yes
Federal Universal Waste:		No
Active Site Fed-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site Converter Treatment storage and Disposal Facility:		Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site State-Reg Handler:		---
Federal Facility Indicator:		Not reported
Hazardous Secondary Material Indicator:		N
Sub-Part K Indicator:		Not reported
Commercial TSD Indicator:		No

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**GRIFFIN PAINTING INC (Continued)**

**1024808371**

Treatment Storage and Disposal Type:	Not reported
2018 GPRC Permit Baseline:	Not on the Baseline
2018 GPRC Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRC Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20180905
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name: GRIFFIN PAINTING INC	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	3580 HAVEN AVE STE 2
Owner/Operator City,State,Zip:	REDWOOD CITY, CA 94063-4639
Owner/Operator Telephone:	650-368-3190
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:

Owner/Operator Name: VICTORIA OLSEN	Operator
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	3580 HAVEN AVE STE 2
Owner/Operator City,State,Zip:	REDWOOD CITY, CA 94063
Owner/Operator Telephone:	650-368-3190

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GRIFFIN PAINTING INC (Continued)**

**1024808371**

Owner/Operator Telephone Ext: Not reported  
Owner/Operator Fax: Not reported  
Owner/Operator Email: Not reported

Historic Generators:

Receive Date: 20040226  
Handler Name: GRIFFIN PAINTING INC  
Federal Waste Generator Description: Not a generator, verified  
State District Owner: Not reported  
Large Quantity Handler of Universal Waste: No  
Recognized Trader Importer: No  
Recognized Trader Exporter: No  
Spent Lead Acid Battery Importer: No  
Spent Lead Acid Battery Exporter: No  
Current Record: Yes  
Non Storage Recycler Activity: Not reported  
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:

NAICS Code: 23521  
NAICS Description: PAINTING AND WALL COVERING CONTRACTORS

Facility Has Received Notices of Violations:

Violations: No Violations Found

Evaluation Action Summary:

Evaluations: No Evaluations Found

**M144**  
**West**  
**1/8-1/4**  
**0.232 mi.**  
**1225 ft.**

**GRIFFIN PAINTING, INC.**  
**3580 HAVEN AVE 2**  
**REDWOOD CITY, CA 94063**

**CA CERS HAZ WASTE**  
**CA CERS**

**S121763879**  
**N/A**

**Site 23 of 25 in cluster M**

**Relative:**  
**Higher**

**CERS HAZ WASTE:**

**Actual:**  
**12 ft.**

Name: GRIFFIN PAINTING, INC.  
Address: 3580 HAVEN AVE 2  
City,State,Zip: REDWOOD CITY, CA 94063  
Site ID: 34502  
CERS ID: 10068823  
CERS Description: Hazardous Waste Generator

**CERS:**

Name: GRIFFIN PAINTING, INC.  
Address: 3580 HAVEN AVE 2  
City,State,Zip: REDWOOD CITY, CA 94063  
Site ID: 34502  
CERS ID: 10068823  
CERS Description: Chemical Storage Facilities

**Violations:**

Site ID: 34502  
Site Name: GRIFFIN PAINTING, INC.  
Violation Date: 05-11-2021  
Citation: 22 CCR 12 66262.34(f) - California Code of Regulations, Title 22,

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GRIFFIN PAINTING, INC. (Continued)**

**S121763879**

Violation Description: Chapter 12, Section(s) 66262.34(f)  
Failure to properly label hazardous waste accumulation containers and portable tanks with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.

Violation Notes: Returned to compliance on 05/11/2021. Accumulation start date added to both drums today. Ensure that this date is added the day that the first drop of thinner waste is put into the drum.

Violation Division: San Mateo County Environmental Health  
Violation Program: HW  
Violation Source: CERS,

Site ID: 34502  
Site Name: GRIFFIN PAINTING, INC.  
Violation Date: 07-17-2018  
Citation: HSC 6.5 25123.3(h)(1) - California Health and Safety Code, Chapter 6.5, Section(s) 25123.3(h)(1)

Violation Description: Failure to send hazardous waste offsite for treatment, storage, or disposal within 180 days (or 270 days if waste is transported over 200 miles) for a generator who generates less than 1000 kilogram per month if all of the following conditions are met: (1) The quantity of hazardous waste accumulated onsite never exceeds 6,000 kilograms. (2) The generator complies with the requirements of 40 Code of Federal Regulations section 262.34(d), (e) and (f). (3) The generator does not hold acutely hazardous waste or extremely hazardous waste in an amount greater than one kilogram for more than 90 days.

Violation Notes: Returned to compliance on 07/30/2018. Last pickup of waste paint/solvent waste was 4/4/2017. Currently almost 2 drums are full. Have these picked up and provide documentation to SMCUPA within 30 days.

Violation Division: San Mateo County Environmental Health  
Violation Program: HW  
Violation Source: CERS,

Site ID: 34502  
Site Name: GRIFFIN PAINTING, INC.  
Violation Date: 05-11-2021  
Citation: HSC 6.5 25201.16(e) - California Health and Safety Code, Chapter 6.5, Section(s) 25201.16(e)

Violation Description: Failure of the universal waste handler to manage universal waste aerosol cans in a manner that prevents fire, explosion, and the unauthorized release of any universal waste or component of a universal waste to the environment.

Violation Notes: Returned to compliance on 08/09/2022. Observed drum of both empty and partially full aerosols waiting for sorting. Partially full aerosols are a hazardous waste and must be stored in a closed and labeled container. Empty aerosols can be placed in the regular trash. Because the drum contains partially full aerosols, it should be labeled as a hazardous waste container. The other option is to have two containers, one for empty non-hazardous aerosols and another for the partially full hazardous waste aerosols and sort them daily or immediately upon the decision to dispose. Please send verification of use of one of these options to inspector within 30 days.

Violation Division: San Mateo County Environmental Health  
Violation Program: HW  
Violation Source: CERS,

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GRIFFIN PAINTING, INC. (Continued)**

**S121763879**

Site ID: 34502  
Site Name: GRIFFIN PAINTING, INC.  
Violation Date: 08-05-2022  
Citation: HSC 6.95 25508(a)(3) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(3)  
Violation Description: Failure to complete and electronically submit a site map with all required content.  
Violation Notes: Not reported  
Violation Division: San Mateo County Environmental Health  
Violation Program: HMRRP  
Violation Source: CERS,

Site ID: 34502  
Site Name: GRIFFIN PAINTING, INC.  
Violation Date: 05-11-2021  
Citation: HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple  
Violation Description: Hazardous Waste Generator Program - Operations/Maintenance - General  
Violation Notes: Returned to compliance on 08/08/2022. Tenants using space at the back of the building near the flammable cabinet are storing open containers of what appears to be an unlabeled 5-gallon metal hazardous waste drum with a funnel. Also observed an open container of chemicals near the flammable cabinet and an unlabeled small can of coating material. If your tenants are generating hazardous waste, they need to be registered with the county. Please inform them of this requirement and how to handle the hazardous waste situations described above. Please provide their contact information to the inspector.  
Violation Division: San Mateo County Environmental Health  
Violation Program: HW  
Violation Source: CERS,

Site ID: 34502  
Site Name: GRIFFIN PAINTING, INC.  
Violation Date: 08-18-2014  
Citation: 22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)  
Violation Description: Failure to properly label hazardous waste accumulation containers with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.  
Violation Notes: Returned to compliance on 09/24/2014. 3 drums of waste paint related materials were not labeled 11/12/14 NOV sent E-mail was send 9/24 with photos, but not received - print copies received 11/19/14  
Violation Division: San Mateo County Environmental Health  
Violation Program: HW  
Violation Source: CERS,

Site ID: 34502  
Site Name: GRIFFIN PAINTING, INC.  
Violation Date: 07-17-2018  
Citation: 22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)  
Violation Description: Failure to properly label hazardous waste accumulation containers and portable tanks with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GRIFFIN PAINTING, INC. (Continued)**

**S121763879**

Violation Notes: Returned to compliance on 07/17/2018. One of the waste drums was missing a label at the time of the inspection. Label this drum with all required information filled in and provide documentation to SMCUPA within 30 days.

Violation Division: San Mateo County Environmental Health  
Violation Program: HW  
Violation Source: CERS,

Site ID: 34502  
Site Name: GRIFFIN PAINTING, INC.  
Violation Date: 08-18-2014  
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)

Violation Description: Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.

Violation Notes: Returned to compliance on 11/19/2014. update inventory - only material above threshold is 55 x 3 drums of waste paint related material Edits made 10/20/14, you just need to resubmit the HMBP 11/12/14 NOV sent

Violation Division: San Mateo County Environmental Health  
Violation Program: HMRRP  
Violation Source: CERS,

Site ID: 34502  
Site Name: GRIFFIN PAINTING, INC.  
Violation Date: 05-11-2021  
Citation: HSC 6.5 25123.3(h)(1) - California Health and Safety Code, Chapter 6.5, Section(s) 25123.3(h)(1)

Violation Description: Failure to send hazardous waste offsite for treatment, storage, or disposal of acute/extremely hazardous waste after the first 1-kilogram threshold amount was accumulated within a 90 day period.

Violation Notes: Returned to compliance on 06/10/2021. The last pickup was in February 2020 indicating that the current stored thinner waste may have been accumulating for more than 180 days. Ensure that hazardous waste is disposed within 6 months of its accumulation start date.

Violation Division: San Mateo County Environmental Health  
Violation Program: HW  
Violation Source: CERS,

Site ID: 34502  
Site Name: GRIFFIN PAINTING, INC.  
Violation Date: 05-11-2021  
Citation: HSC 6.95 25505(a)(4) - California Health and Safety Code, Chapter 6.95, Section(s) 25505(a)(4)

Violation Description: Failure to provide initial and annual training to all employees in safety procedures in the event of a release or threatened release of a hazardous material or failure to document and maintain training records for a minimum of three years.

Violation Notes: Returned to compliance on 08/04/2022. Records of training in emergency response and spill cleanup within the last 12 months not observed. Please conduct this training for all staff and send verification to the inspector within the next 30 days.

Violation Division: San Mateo County Environmental Health  
Violation Program: HMRRP  
Violation Source: CERS,

Site ID: 34502

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GRIFFIN PAINTING, INC. (Continued)**

**S121763879**

Site Name: GRIFFIN PAINTING, INC.  
Violation Date: 09-09-2021  
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)  
Violation Description: Failure to complete and electronically submit a business plan when storing/handling a hazardous material at or above reportable quantities.  
Violation Notes: Returned to compliance on 10/11/2021.  
Violation Division: San Mateo County Environmental Health  
Violation Program: HMRRP  
Violation Source: CERS,

Evaluation:

Eval General Type: Compliance Evaluation Inspection  
Eval Date: 07-17-2018  
Violations Found: Yes  
Eval Type: Routine done by local agency  
Eval Notes: EPA ID number CAL000279457 ACTIVE. Approximately 3-4 drums of waste solvent/paint generated per year. Approximately 7000-8000 lbs of recyclable paint waste sent to paint care program per year. All disposal records in order.

Eval Division: San Mateo County Environmental Health  
Eval Program: HW  
Eval Source: CERS,

Eval General Type: Other/Unknown  
Eval Date: 07-23-2014  
Violations Found: No  
Eval Type: Other, not routine, done by local agency  
Eval Notes: Not reported  
Eval Division: San Mateo County Environmental Health  
Eval Program: HMRRP  
Eval Source: CERS,

Eval General Type: Other/Unknown  
Eval Date: 07-25-2017  
Violations Found: No  
Eval Type: Other, not routine, done by local agency  
Eval Notes: Not reported  
Eval Division: San Mateo County Environmental Health  
Eval Program: HMRRP  
Eval Source: CERS,

Eval General Type: Other/Unknown  
Eval Date: 08-05-2022  
Violations Found: Yes  
Eval Type: Other, not routine, done by local agency  
Eval Notes: Not reported  
Eval Division: San Mateo County Environmental Health  
Eval Program: HMRRP  
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection  
Eval Date: 05-11-2021  
Violations Found: Yes  
Eval Type: Routine done by local agency  
Eval Notes: Inspection conducted during COvi-19 pandemic. Stores paint thinner

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GRIFFIN PAINTING, INC. (Continued)**

**S121763879**

waste above threshold.

Eval Division: San Mateo County Environmental Health  
Eval Program: HMRRP  
Eval Source: CERS,

Eval General Type: Other/Unknown  
Eval Date: 06-12-2020  
Violations Found: No  
Eval Type: Other, not routine, done by local agency  
Eval Notes: Not reported

Eval Division: San Mateo County Environmental Health  
Eval Program: HMRRP  
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection  
Eval Date: 07-17-2018  
Violations Found: No  
Eval Type: Routine done by local agency  
Eval Notes: Last HMBP submission 6/28/2018 Accepted on Portal with the following notes "For next submission, add your evacuation assembly point to the facility map. Thank you! "

Eval Division: San Mateo County Environmental Health  
Eval Program: HMRRP  
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection  
Eval Date: 08-18-2014  
Violations Found: Yes  
Eval Type: Routine done by local agency  
Eval Notes: Not reported

Eval Division: San Mateo County Environmental Health  
Eval Program: HMRRP  
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection  
Eval Date: 08-18-2014  
Violations Found: Yes  
Eval Type: Routine done by local agency  
Eval Notes: Not reported

Eval Division: San Mateo County Environmental Health  
Eval Program: HW  
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection  
Eval Date: 05-11-2021  
Violations Found: Yes  
Eval Type: Routine done by local agency  
Eval Notes: Inspection conducted during Covid-19 pandemic. Facility generates latex and oil-based paints that are picked up by Paint Care and paint thinner waste and aerosols.

Eval Division: San Mateo County Environmental Health  
Eval Program: HW  
Eval Source: CERS,

Eval General Type: Other/Unknown  
Eval Date: 06-14-2019  
Violations Found: No

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**GRIFFIN PAINTING, INC. (Continued)**

**S121763879**

Eval Type:	Other, not routine, done by local agency
Eval Notes:	Not reported
Eval Division:	San Mateo County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS,
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	08-09-2016
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Last submission on Portal 12/3/2015 rejected requesting 2, separate 24 hour emergency response phone numbers. This was corrected on site and plan was re-submitted today
Eval Division:	San Mateo County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS,
Eval General Type:	Other/Unknown
Eval Date:	12-07-2015
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Not reported
Eval Division:	San Mateo County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS,
Eval General Type:	Other/Unknown
Eval Date:	07-02-2018
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Not reported
Eval Division:	San Mateo County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS,
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	08-09-2016
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Paint waste and thinner waste approximately 4000 lbs per year. 3-4 55 gallon drums of thinner waste and bulk pickup of waste paint for recycling. EPA ID number is active and all records are in order.
Eval Division:	San Mateo County Environmental Health
Eval Program:	HW
Eval Source:	CERS,
Eval General Type:	Other/Unknown
Eval Date:	09-09-2021
Violations Found:	Yes
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Not reported
Eval Division:	San Mateo County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS,
Eval General Type:	Other/Unknown
Eval Date:	12-17-2021

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GRIFFIN PAINTING, INC. (Continued)**

**S121763879**

Violations Found: No  
Eval Type: Other, not routine, done by local agency  
Eval Notes: Not reported  
Eval Division: San Mateo County Environmental Health  
Eval Program: HMRRP  
Eval Source: CERS,

Enforcement Action:

Site ID: 34502  
Site Name: GRIFFIN PAINTING, INC.  
Site Address: 3580 HAVEN AVE 2  
Site City: REDWOOD CITY  
Site Zip: 94063  
Enf Action Date: 08-18-2014  
Enf Action Type: Notice of Violation (Unified Program)  
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection  
Enf Action Notes: Not reported  
Enf Action Division: San Mateo County Environmental Health  
Enf Action Program: HMRRP  
Enf Action Source: CERS,

Site ID: 34502  
Site Name: GRIFFIN PAINTING, INC.  
Site Address: 3580 HAVEN AVE 2  
Site City: REDWOOD CITY  
Site Zip: 94063  
Enf Action Date: 08-18-2014  
Enf Action Type: Notice of Violation (Unified Program)  
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection  
Enf Action Notes: Not reported  
Enf Action Division: San Mateo County Environmental Health  
Enf Action Program: HW  
Enf Action Source: CERS,

Site ID: 34502  
Site Name: GRIFFIN PAINTING, INC.  
Site Address: 3580 HAVEN AVE 2  
Site City: REDWOOD CITY  
Site Zip: 94063  
Enf Action Date: 11-10-2014  
Enf Action Type: Notice of Violation (Unified Program)  
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection  
Enf Action Notes: Not reported  
Enf Action Division: San Mateo County Environmental Health  
Enf Action Program: HMRRP  
Enf Action Source: CERS,

Site ID: 34502  
Site Name: GRIFFIN PAINTING, INC.  
Site Address: 3580 HAVEN AVE 2  
Site City: REDWOOD CITY  
Site Zip: 94063  
Enf Action Date: 11-10-2014  
Enf Action Type: Notice of Violation (Unified Program)  
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection  
Enf Action Notes: Not reported  
Enf Action Division: San Mateo County Environmental Health

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GRIFFIN PAINTING, INC. (Continued)**

**S121763879**

Enf Action Program: HW  
Enf Action Source: CERS,

Affiliation:

Affiliation Type Desc: Identification Signer  
Entity Name: Victoria Olsen  
Entity Title: Administrative Assistant  
Affiliation Address: Not reported  
Affiliation City: Not reported  
Affiliation State: Not reported  
Affiliation Country: Not reported  
Affiliation Zip: Not reported  
Affiliation Phone: ,

Affiliation Type Desc: Parent Corporation  
Entity Name: GRIFFIN PAINTING  
Entity Title: Not reported  
Affiliation Address: Not reported  
Affiliation City: Not reported  
Affiliation State: Not reported  
Affiliation Country: Not reported  
Affiliation Zip: Not reported  
Affiliation Phone: ,

Affiliation Type Desc: Document Preparer  
Entity Name: Victoria Olsen  
Entity Title: Not reported  
Affiliation Address: Not reported  
Affiliation City: Not reported  
Affiliation State: Not reported  
Affiliation Country: Not reported  
Affiliation Zip: Not reported  
Affiliation Phone: ,

Affiliation Type Desc: CUPA District  
Entity Name: San Mateo County Environmental Health  
Entity Title: Not reported  
Affiliation Address: 2000 Alameda de las Pulgas, Suite 100  
Affiliation City: San Mateo  
Affiliation State: CA  
Affiliation Country: Not reported  
Affiliation Zip: 94403  
Affiliation Phone: (650) 372-6200,

Affiliation Type Desc: Environmental Contact  
Entity Name: Victoria Olsen  
Entity Title: Not reported  
Affiliation Address: 3580 Haven Ave., Unit #2  
Affiliation City: Redwood City  
Affiliation State: CA  
Affiliation Country: Not reported  
Affiliation Zip: 94063  
Affiliation Phone: ,

Affiliation Type Desc: Legal Owner  
Entity Name: GRIFFIN, MARK  
Entity Title: Not reported

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**GRIFFIN PAINTING, INC. (Continued)**

**S121763879**

Affiliation Address: 3580 HAVEN AVE 2  
 Affiliation City: REDWOOD CITY  
 Affiliation State: CA  
 Affiliation Country: United States  
 Affiliation Zip: 94063  
 Affiliation Phone: (650) 368-3190,

Affiliation Type Desc: Operator  
 Entity Name: Griffin Painting, Inc.  
 Entity Title: Not reported  
 Affiliation Address: Not reported  
 Affiliation City: Not reported  
 Affiliation State: Not reported  
 Affiliation Country: Not reported  
 Affiliation Zip: Not reported  
 Affiliation Phone: (650) 368-3190,

Affiliation Type Desc: Facility Mailing Address  
 Entity Name: Mailing Address  
 Entity Title: Not reported  
 Affiliation Address: 3580 HAVEN AVE 2  
 Affiliation City: REDWOOD CITY  
 Affiliation State: CA  
 Affiliation Country: Not reported  
 Affiliation Zip: 94063  
 Affiliation Phone: ,

**M145**  
**West**  
**1/8-1/4**  
**0.232 mi.**  
**1225 ft.**

**ACTION SIGN SYSTEMS, INC.**  
**3580 HAVEN**  
**REDWOOD CITY, CA 94063**  
**Site 24 of 25 in cluster M**

**CA San Mateo Co. BI S119781760**  
**N/A**

**Relative:**  
**Higher**  
**Actual:**  
**12 ft.**

San Mateo Co. BI:  
 Name: ACTION SIGN SYSTEMS, INC.  
 Address: 3580 HAVEN  
 City,State,Zip: REDWOOD CITY, CA 94063  
 Region: SAN MATEO  
 Facility ID: FA0060529  
 Prog Element Code: GENERATES <27 GAL/YEAR  
 Record Id: PR0083043  
 Description: GENERATES <27 GAL/YEAR  
 Facility Status: Active, billable  
 Program Category: HAZARDOUS WASTE PROGRAM

Name: ACTION SIGN SYSTEMS, INC.  
 Address: 3580 HAVEN  
 City,State,Zip: REDWOOD CITY, CA 94063  
 Region: SAN MATEO  
 Facility ID: FA0060529  
 Prog Element Code: STORMWATER ANNUAL INSPECTION FEE  
 Record Id: PR0083044  
 Description: STORMWATER ANNUAL FEE - INSP FREQ EVERY 2 YRS  
 Facility Status: Inactive, non-billable  
 Program Category: STORMWATER

Name: ACTION SIGN SYSTEMS, INC.

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**ACTION SIGN SYSTEMS, INC. (Continued)**

**S119781760**

Address: 3580 HAVEN  
 City,State,Zip: REDWOOD CITY, CA 94063  
 Region: SAN MATEO  
 Facility ID: FA0060529  
 Prog Element Code: STORES MV FUELS OR WASTE ONLY  
 Record Id: PR0083042  
 Description: STORES MV FUELS OR WASTE ONLY  
 Facility Status: Inactive, non-billable  
 Program Category: BUSINESS PLAN PROGRAM

**M146**  
**West**  
**1/8-1/4**  
**0.232 mi.**  
**1225 ft.**

**DNG CUMMINGS INC DBA ACTION SIGN SYSTEMS**  
**3580 HAVEN AVE STE 1**  
**REDWOOD CITY, CA 94063**  
**Site 25 of 25 in cluster M**

**RCRA NonGen / NLR**

**1024855271**  
**CAL000417735**

**Relative:**  
**Higher**  
**Actual:**  
**12 ft.**

RCRA Listings:  
 Date Form Received by Agency: 20160603  
 Handler Name: DNG CUMMINGS INC DBA ACTION SIGN SYSTEMS  
 Handler Address: 3580 HAVEN AVE STE 1  
 Handler City,State,Zip: REDWOOD CITY, CA 94063  
 EPA ID: CAL000417735  
 Contact Name: JULIE SCHNEIDER  
 Contact Address: 3580 HAVEN AVE  
 Contact City,State,Zip: REDWOOD CITY, CA 94063  
 Contact Telephone: 650-593-8974  
 Contact Fax: 650-591-0319  
 Contact Email: JULIE@ACTIONSIGNSYSTEMS.COM  
 Contact Title: Not reported  
 EPA Region: 09  
 Land Type: Not reported  
 Federal Waste Generator Description: Not a generator, verified  
 Non-Notifier: Not reported  
 Biennial Report Cycle: Not reported  
 Accessibility: Not reported  
 Active Site Indicator: Handler Activities  
 State District Owner: Not reported  
 State District: Not reported  
 Mailing Address: 3580 HAVEN AVE STE 1  
 Mailing City,State,Zip: REDWOOD CITY, CA 94063  
 Owner Name: DNG CUMMINGS INC  
 Owner Type: Other  
 Operator Name: JULIE SCHNEIDER  
 Operator Type: Other  
 Short-Term Generator Activity: No  
 Importer Activity: No  
 Mixed Waste Generator: No  
 Transporter Activity: No  
 Transfer Facility Activity: No  
 Recycler Activity with Storage: No  
 Small Quantity On-Site Burner Exemption: No  
 Smelting Melting and Refining Furnace Exemption: No  
 Underground Injection Control: No  
 Off-Site Waste Receipt: No  
 Universal Waste Indicator: Yes  
 Universal Waste Destination Facility: Yes  
 Federal Universal Waste: No  
 Active Site Fed-Reg Treatment Storage and Disposal Facility: Not reported



Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**DNG CUMMINGS INC DBA ACTION SIGN SYSTEMS (Continued)**

**102485271**

Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20180906
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name: DNG CUMMINGS INC	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	3580 HAVEN AVE STE 1
Owner/Operator City,State,Zip:	REDWOOD CITY, CA 94063
Owner/Operator Telephone:	650-593-8974
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator: Operator

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DNG CUMMINGS INC DBA ACTION SIGN SYSTEMS (Continued)**

**1024855271**

Owner/Operator Name: JULIE SCHNEIDER  
Legal Status: Other  
Date Became Current: Not reported  
Date Ended Current: Not reported  
Owner/Operator Address: 3580 HAVEN AVE  
Owner/Operator City,State,Zip: REDWOOD CITY, CA 94063  
Owner/Operator Telephone: 650-593-8974  
Owner/Operator Telephone Ext: Not reported  
Owner/Operator Fax: Not reported  
Owner/Operator Email: Not reported

Historic Generators:

Receive Date: 20160603  
Handler Name: DNG CUMMINGS INC DBA ACTION SIGN SYSTEMS  
Federal Waste Generator Description: Not a generator, verified  
State District Owner: Not reported  
Large Quantity Handler of Universal Waste: No  
Recognized Trader Importer: No  
Recognized Trader Exporter: No  
Spent Lead Acid Battery Importer: No  
Spent Lead Acid Battery Exporter: No  
Current Record: Yes  
Non Storage Recycler Activity: Not reported  
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:

NAICS Code: 56299  
NAICS Description: ALL OTHER WASTE MANAGEMENT SERVICES

Facility Has Received Notices of Violations:

Violations: No Violations Found

Evaluation Action Summary:

Evaluations: No Evaluations Found

147  
South  
1/8-1/4  
0.243 mi.  
1283 ft.

**FITNESS 101 AND FORMER CRITCHFIELD MECHANICAL FACI**  
**4085 CAMPBELL AVENUE & 40 SCOTT DRIVE**  
**MENLO PARK, CA 94025**

**CA CPS-SLIC S111417977**  
**CA CERS N/A**

**Relative:**  
**Higher**  
**Actual:**  
**16 ft.**

CPS-SLIC:  
Name: FITNESS 101 AND FORMER CRITCHFIELD MECHANICAL FACILITIES  
Address: 4085 CAMPBELL AVENUE & 40 SCOTT DRIVE  
City,State,Zip: MENLO PARK, CA 94025  
Region: STATE  
**Facility Status: Completed - Case Closed**  
Status Date: 07/10/2015  
Global Id: T10000003488  
Lead Agency: SAN FRANCISCO BAY RWQCB (REGION 2)  
Lead Agency Case Number: Not reported  
Latitude: 37.481772  
Longitude: -122.181401  
Case Type: Cleanup Program Site  
Case Worker: UUU

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FITNESS 101 AND FORMER CRITCHFIELD MECHANICAL FACILITIES (Continued)**

**S111417977**

Local Agency: Not reported  
RB Case Number: 41S0192  
File Location: All Files are on GeoTracker or in the Local Agency Database  
Potential Media Affected: Other Groundwater (uses other than drinking water), Soil  
Potential Contaminants of Concern: Tetrachloroethylene (PCE)  
Site History: Not reported

[Click here to access the California GeoTracker records for this facility:](#)

**CERS:**

Name: FITNESS 101 AND FORMER CRITCHFIELD MECHANICAL FACILITIES  
Address: 4085 CAMPBELL AVENUE & 40 SCOTT DRIVE  
City,State,Zip: MENLO PARK, CA 94025  
Site ID: 247818  
CERS ID: T10000003488  
CERS Description: Cleanup Program Site

**Affiliation:**

Affiliation Type Desc: Regional Board Caseworker  
Entity Name: Regional Water Board - SAN FRANCISCO BAY RWQCB (REGION 2)  
Entity Title: Not reported  
Affiliation Address: 1515 CLAY ST SUITE 1400  
Affiliation City: OAKLAND  
Affiliation State: CA  
Affiliation Country: Not reported  
Affiliation Zip: Not reported  
Affiliation Phone: ,

148  
South  
1/8-1/4  
0.243 mi.  
1283 ft.

**CHAMP INC DBA FITNESS 101  
40 SCOTT  
MENLO PARK, CA 94025**

**CA San Mateo Co. BI S123180641  
N/A**

**Relative:  
Higher  
Actual:  
16 ft.**

San Mateo Co. BI:  
Name: CHAMP INC DBA FITNESS 101  
Address: 40 SCOTT  
City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0022733  
Prog Element Code: STORMWATER ANNUAL INSPECTION FEE  
Record Id: PR0041986  
Description: STORMWATER ANNUAL FEE - INSP FREQ EVERY 2 YRS  
Facility Status: Inactive, non-billable  
Program Category: STORMWATER

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**N149**  
**WNW**  
**1/8-1/4**  
**0.247 mi.**  
**1305 ft.**

**BAY PACKAGING & CONVERTING CO INC**  
**37.48629/-122.18697**  
**MENLO PARK, CA**  
**Site 1 of 3 in cluster N**

**PFAS ECHO**    **1027329671**  
**N/A**

**Relative:**  
**Higher**  
**Actual:**  
**12 ft.**

**PFAS ECHO:**  
 Name: BAY PACKAGING & CONVERTING CO INC  
 Address: 37.48629/-122.18697  
 City,State,Zip: MENLO PARK, CA  
 Latitude: 37.48629  
 Longitude: -122.18697  
 Count: -1  
 County: SAN MATEO  
 Status: Unknown  
 Region: 09  
 Industry: Printing  
 ECHO Facility Report: <https://echo.epa.gov/detailed-facility-report?fid=110001196606>  
 Facility Percent Minority: 64.503  
 Facility Derived Tribes: Not reported  
 Facility Population: 4731.18  
 EJSCREEN Flag US: Y  
 EJSCREEN Report: [https://ejscreen.epa.gov/mapper/mobile/EJSCREEN\\_mobile.aspx?geometry=%7B%22x%22:-122.18697,%22y%22:37.48629,%22spatialReference%22:%7B%22wkid%22:4326%7D%7D&unit=9035&areatype=&areaid=&basemap=streets&distance=1](https://ejscreen.epa.gov/mapper/mobile/EJSCREEN_mobile.aspx?geometry=%7B%22x%22:-122.18697,%22y%22:37.48629,%22spatialReference%22:%7B%22wkid%22:4326%7D%7D&unit=9035&areatype=&areaid=&basemap=streets&distance=1)  
 EPA Programs: Not reported  
 Federal Facility: No  
 Federal Agency: Not reported  
 Facility FIPS Code: 06081  
 Facility Indian Country Flag: N  
 Facility Collection Method: ADDRESS MATCHING-HOUSE NUMBER  
 Facility Derived HUC: 18050004  
 Facility Derived WBD: 180500040902  
 Facility Derived CD113: 14  
 Facility Derived CB2010: 060816103021059  
 Facility Major Flag: Not reported  
 Facility Active Flag: Not reported  
 Facility Inspection Count: 0  
 Facility Date Last Inspection: Not reported  
 Facility Days Last Inspection: Not reported  
 Facility Informal Count: 0  
 Facility Date Last Informal Action: Not reported  
 Facility Formal Action Count: 0  
 Facility Date Last Formal Action: Not reported  
 Facility Total Penalties: 0  
 Facility Penalty Count: Not reported  
 Facility Date Last Penalty: Not reported  
 Facility Last Penalty AMT: Not reported  
 Facility QTRS With NC: Not reported  
 Facility Programs With SNC: 0  
 Facility Compliance Status: Not reported  
 Facility SNC Flag: N  
 AIR Flag: N  
 NPDES Flag: N  
 SDWIS Flag: N  
 RCRA Flag: N  
 TRI Flag: N  
 GHG Flag: N  
 AIR IDS: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BAY PACKAGING & CONVERTING CO INC (Continued)**

**1027329671**

CAA Permit Types:	Not reported
CAA NAICS:	Not reported
CAA SICS:	Not reported
NPDES IDS:	Not reported
CWA Permit Types:	Not reported
CWA NAICS:	Not reported
CWA SICS:	Not reported
RCRA IDS:	Not reported
RCRA Permit Types:	Not reported
RCRA NAICS:	Not reported
SDWA IDS:	Not reported
SDWA System Types:	Not reported
SDWA Compliance Status:	Not reported
SDWA SNC Flag:	N
TRI IDS:	94026BYPCK3575H
TRI Releases Transfers:	Not reported
TRI On Site Releases:	Not reported
TRI Off Site Transfers:	Not reported
TRI Reporter:	Not reported
Facility IMP Water Flag:	Not reported
Name:	BAY PACKAGING & CONVERTING CO INC
Address:	37.48629/-122.18697
City,State,Zip:	MENLO PARK, CA
Latitude:	37.48629
Longitude:	-122.18697
Count:	-1
County:	SAN MATEO
Status:	Unknown
Region:	09
Industry:	Paper Mills and Products
ECHO Facility Report:	<a href="https://echo.epa.gov/detailed-facility-report?fid=110001196606">https://echo.epa.gov/detailed-facility-report?fid=110001196606</a>
Facility Percent Minority:	64.503
Facility Derived Tribes:	Not reported
Facility Population:	4731.18
EJSCREEN Flag US:	Y
EJSCREEN Report:	<a href="https://ejscreen.epa.gov/mapper/mobile/EJSCREEN_mobile.aspx?geometry=%7B%22x%22:-122.18697,%22y%22:37.48629,%22spatialReference%22:%7B%22wkid%22:4326%7D%7D&amp;unit=9035&amp;areatype=&amp;areaid=&amp;basemap=streets&amp;distance=1">https://ejscreen.epa.gov/mapper/mobile/EJSCREEN_mobile.aspx?geometry=%7B%22x%22:-122.18697,%22y%22:37.48629,%22spatialReference%22:%7B%22wkid%22:4326%7D%7D&amp;unit=9035&amp;areatype=&amp;areaid=&amp;basemap=streets&amp;distance=1</a>
EPA Programs:	Not reported
Federal Facility:	No
Federal Agency:	Not reported
Facility FIPS Code:	06081
Facility Indian Country Flag:	N
Facility Collection Method:	ADDRESS MATCHING-HOUSE NUMBER
Facility Derived HUC:	18050004
Facility Derived WBD:	180500040902
Facility Derived CD113:	14
Facility Derived CB2010:	060816103021059
Facility Major Flag:	Not reported
Facility Active Flag:	Not reported
Facility Inspection Count:	0
Facility Date Last Inspection:	Not reported
Facility Days Last Inspection:	Not reported
Facility Informal Count:	0
Facility Date Last Informal Action:	Not reported
Facility Formal Action Count:	0

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BAY PACKAGING & CONVERTING CO INC (Continued)**

**1027329671**

Facility Date Last Formal Action: Not reported  
Facility Total Penalties: 0  
Facility Penalty Count: Not reported  
Facility Date Last Penalty: Not reported  
Facility Last Penalty AMT: Not reported  
Facility QTRS With NC: Not reported  
Facility Programs With SNC: 0  
Facility Compliance Status: Not reported  
Facility SNC Flag: N  
AIR Flag: N  
NPDES Flag: N  
SDWIS Flag: N  
RCRA Flag: N  
TRI Flag: N  
GHG Flag: N  
AIR IDS: Not reported  
CAA Permit Types: Not reported  
CAA NAICS: Not reported  
CAA SICS: Not reported  
NPDES IDS: Not reported  
CWA Permit Types: Not reported  
CWA NAICS: Not reported  
CWA SICS: Not reported  
RCRA IDS: Not reported  
RCRA Permit Types: Not reported  
RCRA NAICS: Not reported  
SDWA IDS: Not reported  
SDWA System Types: Not reported  
SDWA Compliance Status: Not reported  
SDWA SNC Flag: N  
TRI IDS: 94026BYPCK3575H  
TRI Releases Transfers: Not reported  
TRI On Site Releases: Not reported  
TRI Off Site Transfers: Not reported  
TRI Reporter: Not reported  
Facility IMP Water Flag: Not reported

Name: BAY PACKAGING & CONVERTING CO INC  
Address: 37.48629/-122.18697  
City,State,Zip: MENLO PARK, CA  
Latitude: 37.48629  
Longitude: -122.18697  
Count: -1  
County: SAN MATEO  
Status: Unknown  
Region: 09  
Industry: Plastics and Resins  
ECHO Facility Report: <https://echo.epa.gov/detailed-facility-report?fid=110001196606>  
Facility Percent Minority: 64.503  
Facility Derived Tribes: Not reported  
Facility Population: 4731.18  
EJSCREEN Flag US: Y  
EJSCREEN Report: [https://ejscreen.epa.gov/mapper/mobile/EJSCREEN\\_mobile.aspx?geometry=%7B%22x%22:-122.18697,%22y%22:37.48629,%22spatialReference%22:%7B%22wkid%22:4326%7D%7D&unit=9035&areatype=&areaid=&basemap=streets&distance=1](https://ejscreen.epa.gov/mapper/mobile/EJSCREEN_mobile.aspx?geometry=%7B%22x%22:-122.18697,%22y%22:37.48629,%22spatialReference%22:%7B%22wkid%22:4326%7D%7D&unit=9035&areatype=&areaid=&basemap=streets&distance=1)  
EPA Programs: Not reported  
Federal Facility: No

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BAY PACKAGING & CONVERTING CO INC (Continued)**

**1027329671**

Federal Agency:	Not reported
Facility FIPS Code:	06081
Facility Indian Country Flag:	N
Facility Collection Method:	ADDRESS MATCHING-HOUSE NUMBER
Facility Derived HUC:	18050004
Facility Derived WBD:	180500040902
Facility Derived CD113:	14
Facility Derived CB2010:	060816103021059
Facility Major Flag:	Not reported
Facility Active Flag:	Not reported
Facility Inspection Count:	0
Facility Date Last Inspection:	Not reported
Facility Days Last Inspection:	Not reported
Facility Informal Count:	0
Facility Date Last Informal Action:	Not reported
Facility Formal Action Count:	0
Facility Date Last Formal Action:	Not reported
Facility Total Penalties:	0
Facility Penalty Count:	Not reported
Facility Date Last Penalty:	Not reported
Facility Last Penalty AMT:	Not reported
Facility QTRS With NC:	Not reported
Facility Programs With SNC:	0
Facility Compliance Status:	Not reported
Facility SNC Flag:	N
AIR Flag:	N
NPDES Flag:	N
SDWIS Flag:	N
RCRA Flag:	N
TRI Flag:	N
GHG Flag:	N
AIR IDS:	Not reported
CAA Permit Types:	Not reported
CAA NAICS:	Not reported
CAA SICS:	Not reported
NPDES IDS:	Not reported
CWA Permit Types:	Not reported
CWA NAICS:	Not reported
CWA SICS:	Not reported
RCRA IDS:	Not reported
RCRA Permit Types:	Not reported
RCRA NAICS:	Not reported
SDWA IDS:	Not reported
SDWA System Types:	Not reported
SDWA Compliance Status:	Not reported
SDWA SNC Flag:	N
TRI IDS:	94026BYPCK3575H
TRI Releases Transfers:	Not reported
TRI On Site Releases:	Not reported
TRI Off Site Transfers:	Not reported
TRI Reporter:	Not reported
Facility IMP Water Flag:	Not reported

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**N150**  
**West**  
**1/8-1/4**  
**0.249 mi.**  
**1316 ft.**

**SITWORKS LANDSCAPE**  
**3570 HAVEN AVE**  
**REDWOOD CITY, CA 94063**

**RCRA NonGen / NLR**

**1024762468**  
**CAC002982330**

**Site 2 of 3 in cluster N**

**Relative:**  
**Higher**  
**Actual:**  
**12 ft.**

RCRA Listings:		
Date Form Received by Agency:		20180927
Handler Name:	SITWORKS LANDSCAPE	
Handler Address:		3570 HAVEN AVE
Handler City,State,Zip:		REDWOOD CITY, CA 94063
EPA ID:		CAC002982330
Contact Name:		GRANT HATFIELD
Contact Address:		5327 JACUZZI ST
Contact City,State,Zip:		RICHMOND, CA 94806
Contact Telephone:		510-406-8945
Contact Fax:		Not reported
Contact Email:		GRANT@SITWORKSLANDSCAPE.COM
Contact Title:		Not reported
EPA Region:		09
Land Type:		Not reported
Federal Waste Generator Description:		Not a generator, verified
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Handler Activities
State District Owner:		Not reported
State District:		Not reported
Mailing Address:		5327 JACUZZI ST
Mailing City,State,Zip:		RICHMOND, CA 94806
Owner Name:	GRANT HATFIELD	
Owner Type:		Other
Operator Name:	GRANT HATFIELD	
Operator Type:		Other
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No
Smelting Melting and Refining Furnace Exemption:		No
Underground Injection Control:		No
Off-Site Waste Receipt:		No
Universal Waste Indicator:		Yes
Universal Waste Destination Facility:		Yes
Federal Universal Waste:		No
Active Site Fed-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site Converter Treatment storage and Disposal Facility:		Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site State-Reg Handler:		---
Federal Facility Indicator:		Not reported
Hazardous Secondary Material Indicator:		N
Sub-Part K Indicator:		Not reported
Commercial TSD Indicator:		No
Treatment Storage and Disposal Type:		Not reported
2018 GPRA Permit Baseline:		Not on the Baseline
2018 GPRA Renewals Baseline:		Not on the Baseline
Permit Renewals Workload Universe:		Not reported



Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**SITWORKS LANDSCAPE (Continued)**

**1024762468**

Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20181001
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name: GRANT HATFIELD	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	5327 JACUZZI ST
Owner/Operator City,State,Zip:	RICHMOND, CA 94806
Owner/Operator Telephone:	510-406-8945
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name: GRANT HATFIELD	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	5327 JACUZZI ST
Owner/Operator City,State,Zip:	RICHMOND, CA 94806
Owner/Operator Telephone:	510-406-8945
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SITWORKS LANDSCAPE (Continued)**

**1024762468**

Historic Generators:

Receive Date: 20180927  
Handler Name: SITEWORKS LANDSCAPE  
Federal Waste Generator Description: Not a generator, verified  
State District Owner: Not reported  
Large Quantity Handler of Universal Waste: No  
Recognized Trader Importer: No  
Recognized Trader Exporter: No  
Spent Lead Acid Battery Importer: No  
Spent Lead Acid Battery Exporter: No  
Current Record: Yes  
Non Storage Recycler Activity: Not reported  
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:

NAICS Code: 561730  
NAICS Description: LANDSCAPING SERVICES

Facility Has Received Notices of Violations:

Violations: No Violations Found

Evaluation Action Summary:

Evaluations: No Evaluations Found

151  
ESE  
1/4-1/2  
0.258 mi.  
1360 ft.

**SEIBERT, J., MACHINE CORP**  
**119 INDEPENDENCE DR.**  
**MENLO PARK, CA 94025**

**CA ENVIROSTOR S101482217**  
**CA San Mateo Co. BI N/A**

**Relative:**  
**Higher**  
**Actual:**  
**11 ft.**

ENVIROSTOR:

Name: SEIBERT, J., MACHINE CORP  
Address: 119 INDEPENDENCE DR.  
City,State,Zip: MENLO PARK, CA 94025  
Facility ID: 41350016  
Status: Refer: Other Agency  
Status Date: 03/31/1995  
Site Code: Not reported  
Site Type: Historical  
Site Type Detailed: \* Historical  
Acres: Not reported  
NPL: NO  
Regulatory Agencies: NONE SPECIFIED  
Lead Agency: NONE SPECIFIED  
Program Manager: Not reported  
Supervisor: Referred - Not Assigned  
Division Branch: Cleanup Berkeley  
Assembly: 24  
Senate: 13  
Special Program: Not reported  
Restricted Use: NO  
Site Mgmt Req: NONE SPECIFIED  
Funding: Not reported  
Latitude: 37.48393  
Longitude: -122.1777

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SEIBERT, J., MACHINE CORP (Continued)**

**S101482217**

APN: 055236180  
Past Use: NONE SPECIFIED  
Potential COC: NONE SPECIFIED  
Confirmed COC: NONE SPECIFIED  
Potential Description: NONE SPECIFIED  
Alias Name: 055236180  
Alias Type: APN  
Alias Name: 41350016  
Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Site Screening  
Completed Date: 06/01/1988  
Comments: SITE SCREENING DONE NEED MORE INFO

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: \* Discovery  
Completed Date: 08/01/1980  
Comments: FACILITY IDENTIFIED INACTIVE SITE I.D.'D IN INITIAL RESEARCH

Future Area Name: Not reported  
Future Sub Area Name: Not reported  
Future Document Type: Not reported  
Future Due Date: Not reported  
Schedule Area Name: Not reported  
Schedule Sub Area Name: Not reported  
Schedule Document Type: Not reported  
Schedule Due Date: Not reported  
Schedule Revised Date: Not reported

San Mateo Co. BI:

Name: MOTION PRO INC  
Address: 119 INDEPENDENCE  
City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0024825  
Prog Element Code: GENERATES <27 GAL/YEAR  
Record Id: PR0030764  
Description: GENERATES <27 GAL/YEAR  
Facility Status: Inactive, non-billable  
Program Category: HAZARDOUS WASTE PROGRAM

Name: MOTION PRO INC  
Address: 119 INDEPENDENCE  
City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0024825  
Prog Element Code: STORES HAZ MAT <219GAL,1,999LB, 879FT3  
Record Id: PR0030763  
Description: STORES HAZ MAT <219GAL,1,999LB, 879CF  
Facility Status: Inactive, non-billable  
Program Category: BUSINESS PLAN PROGRAM

Name: MOTION PRO INC

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SEIBERT, J., MACHINE CORP (Continued)**

**S101482217**

Address: 119 INDEPENDENCE  
City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0024825  
Prog Element Code: STORMWATER ANNUAL INSPECTION FEE  
Record Id: PR0040645  
Description: STORMWATER ANNUAL FEE - INSP FREQ EVERY 2 YRS  
Facility Status: Inactive, non-billable  
Program Category: STORMWATER

**O152**  
**ESE**  
**1/4-1/2**  
**0.262 mi.**  
**1384 ft.**

**MOREING COMPANY**  
**120 CONSTITUTION**  
**MENLO PARK, CA 94125**  
**Site 1 of 3 in cluster O**

**CA LUST** **S110060721**  
**CA HIST CORTESE** **N/A**  
**CA CERS**

**Relative:**  
**Lower**  
**Actual:**  
**9 ft.**

**LUST:**  
Name: MOREING COMPANY  
Address: 120 CONSTITUTION DR  
City,State,Zip: MENLO PARK, CA 94025  
Lead Agency: SAN FRANCISCO BAY RWQCB (REGION 2)  
Case Type: LUST Cleanup Site  
Geo Track: [http://geotracker.waterboards.ca.gov/profile\\_report.asp?global\\_id=T0608100690](http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0608100690)  
Global Id: T0608100690  
Latitude: 37.484447  
Longitude: -122.177365  
Status: Completed - Case Closed  
Status Date: 04/08/1998  
Case Worker: UUU  
RB Case Number: 41-0729  
Local Agency: Not reported  
File Location: Not reported  
Local Case Number: 440042  
Potential Media Affect: Under Investigation  
Potential Contaminants of Concern: Gasoline  
Site History: Not reported

**LUST:**  
Global Id: T0608100690  
Contact Type: Regional Board Caseworker  
Contact Name: Regional Water Board  
Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)  
Address: 1515 CLAY ST SUITE 1400  
City: OAKLAND  
Email: Not reported  
Phone Number: Not reported

**LUST:**  
Global Id: T0608100690  
Action Type: Other  
Date: 04/01/1993  
Action: Leak Discovery

Global Id: T0608100690  
Action Type: Other  
Date: 04/01/1993  
Action: Leak Reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MOREING COMPANY (Continued)**

**S110060721**

Global Id: T0608100690  
Action Type: ENFORCEMENT  
Date: 04/01/1993  
Action: \* Historical Enforcement

Global Id: T0608100690  
Action Type: Other  
Date: 04/01/1993  
Action: Leak Stopped

**LUST:**

Global Id: T0608100690  
Status: Open - Case Begin Date  
Status Date: 04/01/1993

Global Id: T0608100690  
Status: Open - Site Assessment  
Status Date: 02/01/1996

Global Id: T0608100690  
Status: Completed - Case Closed  
Status Date: 04/08/1998

**HIST CORTESE:**

edr\_fname: MOREING COMPANY  
edr\_fadd1: 120 CONSTITUTION  
City,State,Zip: MENLO PARK, CA 94125  
Region: CORTESE  
Facility County Code: 41  
Reg By: LTNKA  
Reg Id: 41-0729

**CERS:**

Name: MOREING COMPANY  
Address: 120 CONSTITUTION DR  
City,State,Zip: MENLO PARK, CA 94025  
Site ID: 192415  
CERS ID: T0608100690  
CERS Description: Leaking Underground Storage Tank Cleanup Site

**Affiliation:**

Affiliation Type Desc: Regional Board Caseworker  
Entity Name: Regional Water Board - SAN FRANCISCO BAY RWQCB (REGION 2)  
Entity Title: Not reported  
Affiliation Address: 1515 CLAY ST SUITE 1400  
Affiliation City: OAKLAND  
Affiliation State: CA  
Affiliation Country: Not reported  
Affiliation Zip: Not reported  
Affiliation Phone: ,

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**O153**     **JA MOREING COMPANY**  
**ESE**       **120 CONSTITUTION DR**  
**1/4-1/2**    **MENLO PARK, CA 94025**  
**0.262 mi.**  
**1384 ft.**

**CA CPS-SLIC**   **S106235274**  
**CA NON-CASE INFO**   **N/A**

**Relative:**  
**Lower**

SLIC REG 2:

**Actual:**  
**9 ft.**

Region: 2  
 Facility ID: SLT2O098104  
 Facility Status: Leak being confirmed  
 Date Closed: Not reported  
 Local Case #: Not reported  
 How Discovered: Not reported  
 Leak Cause: Not reported  
 Leak Source: Not reported  
 Date Confirmed: Not reported  
 Date Prelim Site Assmnt Workplan Submitted: Not reported  
 Date Preliminary Site Assessment Began: Not reported  
 Date Pollution Characterization Began: Not reported  
 Date Remediation Plan Submitted: Not reported  
 Date Remedial Action Underway: Not reported  
 Date Post Remedial Action Monitoring Began: Not reported

**NON-CASE INFO:**

Name: Address: City,State,Zip: Global ID: Case Type: Status: Status Date: Lead Agency: Case Worker: Local Agency: RB Case Number: Loc Case Number: File Location: Potential Contaminants of Concern: Potential Media Affected: Site History:	JA MOREING COMPANY 120 CONSTITUTION DR MENLO PARK, CA 94025 SLT2O098104 Non-Case Information Informational Item / Review Complete 12/04/2020 SAN FRANCISCO BAY RWQCB (REGION 2) KAW Not reported 41S0144 Not reported Not reported * Volatile Organic Compounds (VOC) Not reported In 1993, San Mateo County required environmental sampling to follow-up on a gasoline UST that was removed from the property in 1986. The sampling results did not indicate residual gasoline contamination (THP-g), but trichloroethene (TCE) was detected. I believe that 120 Constitution became an official site with requirements for investigation and possibly cleanup in 1993. Follow-up sampling in 1994, 1995, and 1997 confirmed the presence of chlorinated solvents, including TCE, in soil and groundwater at the Site. In 1998, the Water Board issued a No Further Action letter stating that the groundwater pollution appears to be migrating from an off-property source, and the Water Board does not intend to require further action by the property owner at this time. However, should new information become available indicating that the pollution is caused by a source on the property or should any owners refuse reasonable access to Water Board staff or other responsible party for investigation or remediation, the Water Board would reconsider its decision. The case was then closed. In 2018, the Water Board reopened the case as a non-case informational item to further investigate the source of the known TCE contamination in the area. The property owner complied with the requirement for a Site History Report and provided
---	---

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**JA MOREING COMPANY (Continued)**

**S106235274**

	the results of 2010 groundwater and soil vapor sampling.
Begin Date:	Not reported
How Discovered:	Not reported
How Discovered Description:	Not reported
Stop Method:	Not reported
Stop Description:	Not reported
Latitude:	37.4845449096237
Longitude:	-122.177378456345
Geotracker:	<a href="http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=SLT2O098104">http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=SLT2O098104</a>

**O154**  
**ESE**  
**1/4-1/2**  
**0.262 mi.**  
**1384 ft.**

**MOREING COMPANY**  
**120 CONSTITUTION DR**  
**MENLO PARK, CA 94025**  
**Site 3 of 3 in cluster O**

**CA LUST** **S106610919**  
**CA Cortese** **N/A**

**Relative:**  
**Lower**  
**Actual:**  
**9 ft.**

**LUST REG 2:**  
 Region: 2  
 Facility Id: 41-0729  
 Facility Status: Case Closed  
 Case Number: 440042  
 How Discovered: Tank Closure  
 Leak Cause: UNK  
 Leak Source: Tank  
 Date Leak Confirmed: 2/1/1996  
 Oversight Program: LUST  
 Prelim. Site Assesment Wokplan Submitted: Not reported  
 Preliminary Site Assesment Began: Not reported  
 Pollution Characterization Began: Not reported  
 Pollution Remediation Plan Submitted: Not reported  
 Date Remediation Action Underway: Not reported  
 Date Post Remedial Action Monitoring Began: Not reported

**CORTESE:**

Name:	MOREING COMPANY
Address:	120 CONSTITUTION DR
City,State,Zip:	MENLO PARK, CA 94025
Region:	CORTESE
Envirostor Id:	Not reported
Global ID:	T0608100690
Site/Facility Type:	LUST CLEANUP SITE
Cleanup Status:	COMPLETED - CASE CLOSED
Status Date:	Not reported
Site Code:	Not reported
Latitude:	Not reported
Longitude:	Not reported
Owner:	Not reported
Enf Type:	Not reported
Swat R:	Not reported
Flag:	active
Order No:	Not reported
Waste Discharge System No:	Not reported
Effective Date:	Not reported
Region 2:	Not reported
WID Id:	Not reported
Solid Waste Id No:	Not reported
Waste Management Uit Name:	Not reported

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**MOREING COMPANY (Continued)**

**S106610919**

File Name: Active Open

**N155**  
**West**  
**1/4-1/2**  
**0.277 mi.**  
**1465 ft.**

**GENERAL CIRCUITS INC.**  
**3549 J HAVEN AVENUE**  
**MENLO PARK, CA 94025**  
**Site 3 of 3 in cluster N**

**SEMS-ARCHIVE**  
**CORRACTS**  
**RCRA-SQG**  
**CA ENVIROSTOR**  
**FINDS**  
**ECHO**  
**CA HWP**

**1000214027**  
**CAD074665704**

**Relative:**  
**Higher**

**Actual:**  
**12 ft.**

SEMS Archive:  
 Site ID: 0903283  
 EPA ID: CAD074665704  
 Name: GENERAL CIRCUITS INC  
 Address: 3549 J HAVEN AVE  
 Address 2: Not reported  
 City,State,Zip: MENLO PARK, CA 94025  
 Cong District: 11  
 FIPS Code: 06081  
 FF: N  
 NPL: Not on the NPL  
 Non NPL Status: NFRAP-Site does not qualify for the NPL based on existing information

SEMS Archive Detail:

Region: 09  
 Site ID: 0903283  
 EPA ID: CAD074665704  
 Site Name: GENERAL CIRCUITS INC  
 NPL: N  
 FF: N  
 OU: 00  
 Action Code: VS  
 Action Name: ARCH SITE  
 SEQ: 1  
 Start Date: Not reported  
 Finish Date: 1996-01-23 05:00:00  
 Qual: Not reported  
 Current Action Lead: EPA Perf In-Hse

Region: 09  
 Site ID: 0903283  
 EPA ID: CAD074665704  
 Site Name: GENERAL CIRCUITS INC  
 NPL: N  
 FF: N  
 OU: 00  
 Action Code: PA  
 Action Name: PA  
 SEQ: 1  
 Start Date: Not reported  
 Finish Date: 1991-03-28 05:00:00  
 Qual: D  
 Current Action Lead: EPA Perf

Region: 09  
 Site ID: 0903283  
 EPA ID: CAD074665704  
 Site Name: GENERAL CIRCUITS INC



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GENERAL CIRCUITS INC. (Continued)**

**1000214027**

NPL: N  
FF: N  
OU: 00  
Action Code: DS  
Action Name: DISCVRY  
SEQ: 1  
Start Date: 1990-08-24 04:00:00  
Finish Date: 1990-08-24 04:00:00  
Qual: Not reported  
Current Action Lead: EPA Perf

**CORRACTS:**

Name: GENERAL CIRCUITS INC.  
Address: 3549 J HAVEN AVENUE  
Address 2: Not reported  
EPA ID: CAD074665704  
Area Name: ENTIRE FACILITY  
Corrective Action: CA PRIORITIZATION-LOW CA PRIORITY  
Actual Date: 19910328  
Air Release Indicator: Not reported  
Groundwater Release Indicator: Not reported  
Soil Release Indicator: Not reported  
Surface Water Release Indicator: Not reported

**RCRA Listings:**

Date Form Received by Agency: 19960901  
Handler Name: GENERAL CIRCUITS INC.  
Handler Address: 3549 J HAVEN AVENUE  
Handler City,State,Zip: MENLO PARK, CA 94025  
EPA ID: CAD074665704  
Contact Name: Not reported  
Contact Address: Not reported  
Contact City,State,Zip: Not reported  
Contact Telephone: Not reported  
Contact Fax: Not reported  
Contact Email: Not reported  
Contact Title: Not reported  
EPA Region: 09  
Land Type: Not reported  
Federal Waste Generator Description: Small Quantity Generator  
Non-Notifier: Not reported  
Biennial Report Cycle: Not reported  
Accessibility: Not reported  
Active Site Indicator: Handler Activities  
State District Owner: CA  
State District: 2  
Mailing Address: 3549 J HAVEN AVENUE  
Mailing City,State,Zip: MENLO PARK, CA 94025  
Owner Name: Not reported  
Owner Type: Not reported  
Operator Name: GENERAL CIRCUITS, INC.  
Operator Type: Private  
Short-Term Generator Activity: No  
Importer Activity: No  
Mixed Waste Generator: No

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**GENERAL CIRCUITS INC. (Continued)**

**1000214027**

Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRC Permit Baseline:	Not on the Baseline
2018 GPRC Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRC Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	Low
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20020627
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Handler - Owner Operator:  
 Owner/Operator Indicator: Operator  
 Owner/Operator Name: GENERAL CIRCUITS, INC.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GENERAL CIRCUITS INC. (Continued)**

**1000214027**

Legal Status: Private  
Date Became Current: Not reported  
Date Ended Current: Not reported  
Owner/Operator Address: 3549 J HAVEN AVENUE  
Owner/Operator City,State,Zip: CITY NOT REPORTED, CA 99999  
Owner/Operator Telephone: 415-364-7717  
Owner/Operator Telephone Ext: Not reported  
Owner/Operator Fax: Not reported  
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner  
Owner/Operator Name: HAVEN ASSOCIATES  
Legal Status: Private  
Date Became Current: Not reported  
Date Ended Current: Not reported  
Owner/Operator Address: 100 HARBOR BLVD  
Owner/Operator City,State,Zip: BELMONT, CA 94002  
Owner/Operator Telephone: 415-592-0933  
Owner/Operator Telephone Ext: Not reported  
Owner/Operator Fax: Not reported  
Owner/Operator Email: Not reported

Historic Generators:

Receive Date: 19960901  
Handler Name: GENERAL CIRCUITS INC.  
Federal Waste Generator Description: Small Quantity Generator  
State District Owner: CA  
Large Quantity Handler of Universal Waste: No  
Recognized Trader Importer: No  
Recognized Trader Exporter: No  
Spent Lead Acid Battery Importer: No  
Spent Lead Acid Battery Exporter: No  
Current Record: Yes  
Non Storage Recycler Activity: Not reported  
Electronic Manifest Broker: Not reported

Receive Date: 19801117  
Handler Name: GENERAL CIRCUITS INC.  
Federal Waste Generator Description: Large Quantity Generator  
State District Owner: CA  
Large Quantity Handler of Universal Waste: No  
Recognized Trader Importer: No  
Recognized Trader Exporter: No  
Spent Lead Acid Battery Importer: No  
Spent Lead Acid Battery Exporter: No  
Current Record: No  
Non Storage Recycler Activity: Not reported  
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:

NAICS Code: 334419  
NAICS Description: OTHER ELECTRONIC COMPONENT MANUFACTURING

Facility Has Received Notices of Violation:

Found Violation: Yes  
Agency Which Determined Violation: State

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**GENERAL CIRCUITS INC. (Continued)**

**1000214027**

Violation Short Description:	Generators - General
Date Violation was Determined:	19890501
Actual Return to Compliance Date:	19920722
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	001
Date of Enforcement Action:	19920722
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	R9
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	FINAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY
Enforcement Responsible Person:	R9
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	19870505
Actual Return to Compliance Date:	19920722
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	001
Date of Enforcement Action:	19871118
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	R9
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GENERAL CIRCUITS INC. (Continued)**

**1000214027**

Consent/Final Order Lead Agency: Not reported  
Enforcement Type: WRITTEN INFORMAL  
Enforcement Responsible Person: R9  
Enforcement Responsible Sub-Organization: Not reported  
SEP Sequence Number: Not reported  
SEP Expenditure Amount: Not reported  
SEP Scheduled Completion Date: Not reported  
SEP Actual Date: Not reported  
SEP Defaulted Date: Not reported  
SEP Type: Not reported  
SEP Type Description: Not reported  
Proposed Amount: Not reported  
Final Monetary Amount: Not reported  
Paid Amount: Not reported  
Final Count: Not reported  
Final Amount: Not reported

Found Violation: No  
Agency Which Determined Violation: Not reported  
Violation Short Description: Not reported  
Date Violation was Determined: Not reported  
Actual Return to Compliance Date: Not reported  
Return to Compliance Qualifier: Not reported  
Violation Responsible Agency: Not reported  
Scheduled Compliance Date: Not reported  
Enforcement Identifier: Not reported  
Date of Enforcement Action: Not reported  
Enforcement Responsible Agency: Not reported  
Enforcement Docket Number: Not reported  
Enforcement Attorney: Not reported  
Corrective Action Component: Not reported  
Appeal Initiated Date: Not reported  
Appeal Resolution Date: Not reported  
Disposition Status Date: Not reported  
Disposition Status: Not reported  
Disposition Status Description: Not reported  
Consent/Final Order Sequence Number: Not reported  
Consent/Final Order Respondent Name: Not reported  
Consent/Final Order Lead Agency: Not reported  
Enforcement Type: Not reported  
Enforcement Responsible Person: Not reported  
Enforcement Responsible Sub-Organization: Not reported  
SEP Sequence Number: Not reported  
SEP Expenditure Amount: Not reported  
SEP Scheduled Completion Date: Not reported  
SEP Actual Date: Not reported  
SEP Defaulted Date: Not reported  
SEP Type: Not reported  
SEP Type Description: Not reported  
Proposed Amount: Not reported  
Final Monetary Amount: Not reported  
Paid Amount: Not reported  
Final Count: Not reported  
Final Amount: Not reported

Found Violation: No  
Agency Which Determined Violation: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GENERAL CIRCUITS INC. (Continued)**

**1000214027**

Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	19870505
Actual Return to Compliance Date:	19920722
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GENERAL CIRCUITS INC. (Continued)**

1000214027

Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	19840412
Actual Return to Compliance Date:	19920722
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	19840612
Enforcement Identifier:	001
Date of Enforcement Action:	19840412
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	R9
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	R9
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GENERAL CIRCUITS INC. (Continued)**

**1000214027**

Violation Short Description:	Generators - General
Date Violation was Determined:	19890501
Actual Return to Compliance Date:	19920722
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	002
Date of Enforcement Action:	19890608
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	R9
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	R9
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	19890501
Actual Return to Compliance Date:	19920722
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	001
Date of Enforcement Action:	19890608
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	R9
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GENERAL CIRCUITS INC. (Continued)**

**1000214027**

Consent/Final Order Lead Agency: Not reported  
Enforcement Type: REFERRAL TO ATTORNEY GENERAL  
Enforcement Responsible Person: R9  
Enforcement Responsible Sub-Organization: Not reported  
SEP Sequence Number: Not reported  
SEP Expenditure Amount: Not reported  
SEP Scheduled Completion Date: Not reported  
SEP Actual Date: Not reported  
SEP Defaulted Date: Not reported  
SEP Type: Not reported  
SEP Type Description: Not reported  
Proposed Amount: Not reported  
Final Monetary Amount: Not reported  
Paid Amount: Not reported  
Final Count: Not reported  
Final Amount: Not reported

Found Violation: Yes  
Agency Which Determined Violation: State  
Violation Short Description: Generators - General  
Date Violation was Determined: 19890501  
Actual Return to Compliance Date: 19920722  
Return to Compliance Qualifier: Observed  
Violation Responsible Agency: State  
Scheduled Compliance Date: Not reported  
Enforcement Identifier: 001  
Date of Enforcement Action: 19891002  
Enforcement Responsible Agency: State  
Enforcement Docket Number: Not reported  
Enforcement Attorney: R9  
Corrective Action Component: No  
Appeal Initiated Date: Not reported  
Appeal Resolution Date: Not reported  
Disposition Status Date: Not reported  
Disposition Status: Not reported  
Disposition Status Description: Not reported  
Consent/Final Order Sequence Number: Not reported  
Consent/Final Order Respondent Name: Not reported  
Consent/Final Order Lead Agency: Not reported  
Enforcement Type: INITIAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY  
Enforcement Responsible Person: R9  
Enforcement Responsible Sub-Organization: Not reported  
SEP Sequence Number: Not reported  
SEP Expenditure Amount: Not reported  
SEP Scheduled Completion Date: Not reported  
SEP Actual Date: Not reported  
SEP Defaulted Date: Not reported  
SEP Type: Not reported  
SEP Type Description: Not reported  
Proposed Amount: Not reported  
Final Monetary Amount: Not reported  
Paid Amount: Not reported  
Final Count: Not reported  
Final Amount: Not reported

Evaluation Action Summary:

Evaluation Date: 19890501

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GENERAL CIRCUITS INC. (Continued)**

**1000214027**

Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19920722
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19870505
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19920722
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19870902
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	R9
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19890516
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	R9
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19870505
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9
Evaluation Responsible Sub-Organization:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GENERAL CIRCUITS INC. (Continued)**

**1000214027**

Actual Return to Compliance Date: 19920722  
Scheduled Compliance Date: Not reported  
Date of Request: Not reported  
Date Response Received: Not reported  
Request Agency: Not reported  
Former Citation: Not reported

Evaluation Date: 19840412  
Evaluation Responsible Agency: State  
Found Violation: Yes  
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Evaluation Responsible Person Identifier: R9  
Evaluation Responsible Sub-Organization: Not reported  
Actual Return to Compliance Date: 19920722  
Scheduled Compliance Date: 19840612  
Date of Request: Not reported  
Date Response Received: Not reported  
Request Agency: Not reported  
Former Citation: Not reported

Evaluation Date: 19890501  
Evaluation Responsible Agency: State  
Found Violation: Yes  
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Evaluation Responsible Person Identifier: R9  
Evaluation Responsible Sub-Organization: Not reported  
Actual Return to Compliance Date: 19920722  
Scheduled Compliance Date: Not reported  
Date of Request: Not reported  
Date Response Received: Not reported  
Request Agency: Not reported  
Former Citation: Not reported

Evaluation Date: 19890501  
Evaluation Responsible Agency: State  
Found Violation: Yes  
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Evaluation Responsible Person Identifier: R9  
Evaluation Responsible Sub-Organization: Not reported  
Actual Return to Compliance Date: 19920722  
Scheduled Compliance Date: Not reported  
Date of Request: Not reported  
Date Response Received: Not reported  
Request Agency: Not reported  
Former Citation: Not reported

Evaluation Date: 19890501  
Evaluation Responsible Agency: State  
Found Violation: Yes  
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Evaluation Responsible Person Identifier: R9  
Evaluation Responsible Sub-Organization: Not reported  
Actual Return to Compliance Date: 19920722  
Scheduled Compliance Date: Not reported  
Date of Request: Not reported  
Date Response Received: Not reported  
Request Agency: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GENERAL CIRCUITS INC. (Continued)**

**1000214027**

Former Citation: Not reported

**ENVIROSTOR:**

Name: GENERAL CIRCUITS INC.  
Address: 3549 J HAVEN AVENUE  
City,State,Zip: MENLO PARK, CA 940250000  
Facility ID: 80001670  
Status: Refer: EPA  
Status Date: 01/01/2008  
Site Code: Not reported  
Site Type: Corrective Action  
Site Type Detailed: Corrective Action  
Acres: 0  
NPL: NO  
Regulatory Agencies: US EPA  
Lead Agency: S EP  
Program Manager: Not reported  
Supervisor: \* Unknown  
Division Branch: Cleanup Berkeley  
Assembly: 24  
Senate: 13  
Special Program: Not reported  
Restricted Use: NO  
Site Mgmt Req: NONE SPECIFIED  
Funding: Not reported  
Latitude: 37.48722  
Longitude: -122.1886  
APN: 055130310  
Past Use: NONE SPECIFIED  
Potential COC: NONE SPECIFIED  
Confirmed COC: NONE SPECIFIED  
Potential Description: NONE SPECIFIED  
Alias Name: 055130310  
Alias Type: APN  
Alias Name: CAD074665704  
Alias Type: EPA Identification Number  
Alias Name: 110000609805  
Alias Type: EPA (FRS #)  
Alias Name: 80001670  
Alias Type: Envirostor ID Number

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GENERAL CIRCUITS INC. (Continued)**

**1000214027**

Completed Info:

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Preliminary Assessment Report  
Completed Date: 03/28/1991  
Comments: Not reported

Future Area Name: Not reported  
Future Sub Area Name: Not reported  
Future Document Type: Not reported  
Future Due Date: Not reported  
Schedule Area Name: Not reported  
Schedule Sub Area Name: Not reported  
Schedule Document Type: Not reported  
Schedule Due Date: Not reported  
Schedule Revised Date: Not reported

FINDS:

Registry ID: 110000609805

[Click Here for FRS Facility Detail Report:](#)

Environmental Interest/Information System:

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

[Click this hyperlink](#) while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid: 1000214027  
Registry ID: 110000609805  
DFR URL: <http://echo.epa.gov/detailed-facility-report?fid=110000609805>  
Name: GENERAL CIRCUITS INC.  
Address: 3549 J HAVEN AVENUE  
City,State,Zip: MENLO PARK, CA 94025

HWP:

EPA ID: CAD074665704  
Name: GENERAL CIRCUITS INC.  
Address: 3549 J HAVEN AVENUE  
Cleanup Status: PROTECTIVE FILER  
Latitude: 37.48722  
Longitude: -122.1886  
Facility Type: Historical - Non-Operating  
Facility Size: Not reported  
Supervisor: Not reported  
Site Code: Not reported  
Senate District: 13  
Assembly District: 22  
Public Information Officer: Not reported  
Commercial Offsite Facility Types: Not reported  
Quarterly Update: 10/18/2017 - There are two general circuits in Estor. CAD982462335 and

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**GENERAL CIRCUITS INC. (Continued)**

**1000214027**

CAD074665704 General Circuits Inc are both the same facility. The EPA ID # CAD 982462335 is a duplicate as the facility changed addressed from 3549 J Haven Ave to 3585 Haven Ave. For both EPA ID #s the ISD was rescinded and the facility sent in a withdrawal letter.

Project Manager Lead: Not reported  
 Project Manager: Not reported  
 Permit Type: RCRA  
 Permit Effective Date: Not reported  
 Permit Expiration Date: Not reported  
 Calenviroscreen Score: 46-50%  
 Total Planned Hours: Not reported  
 Total Planned Amount: Not reported  
 Total Actual Hours: Not reported

Activities:

EPA ID: CAD074665704  
 Facility Type: Historical - Non-Operating  
 Facility Name: GENERAL CIRCUITS INC.  
 Project Manager: Not reported  
 Project Manager Lead: Not reported  
 Supervisor: Not reported  
 Facility Status: PROTECTIVE FILER  
 Activity Type: Protective Filer Status  
 Permit Being Renewed: Not reported  
 Permit Being Modified: Not reported  
 Final Date: Not reported  
 Type: Not reported  
 Title Description: Protective Filer  
 Due Date: Not reported  
 Comments: Facility is protective filer.  
 Unit Names: CONTAIN1, TANKTRT1  
 Event Description: Protective Filer Status - PROTECTIVE FILER (APPROVED)  
 Actual Date: 11/07/1989

Alias:

EPA ID: CAD074665704  
 Facility Type: Historical - Non-Operating  
 Facility Name: GENERAL CIRCUITS INC.  
 Facility Status: PROTECTIVE FILER  
 Project Manager: Not reported  
 Project Manager Lead: Not reported  
 Supervisor: Not reported  
 Alias Type: FRS  
 Alias: 110000609805

**P156** **BP OIL #11207**  
**SSW** **1110 MARSH**  
**1/4-1/2** **MENLO PARK, CA 94025**  
**0.313 mi.**  
**1652 ft.** **Site 1 of 2 in cluster P**

**CA LUST** **S101593673**  
**CA FID UST** **N/A**  
**CA San Mateo Co. BI**  
**CA Cortese**  
**CA CERS**

**Relative:** **HIGHER** **SAN MATEO CO. LUST:**  
**Actual:** **17 ft.** **Name:** **BP #11207**  
**Address:** **1110 MARSH RD**  
**City,State,Zip:** **MENLO PARK, CA**  
**Region:** **SAN MATEO**  
**Facility ID:** **440018**

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BP OIL #11207 (Continued)**

**S101593673**

Facility Status: 9- Case Closed  
Global ID: T0608100334  
APN Number: 055251320  
Case Type: MENLO PARK, CA  
EDR Link ID: MENLO PARK, CA

LUST:

Name: BP #11207  
Address: 1110 MARSH  
City,State,Zip: MENLO PARK, CA 94025  
Lead Agency: SAN MATEO COUNTY LOP  
Case Type: LUST Cleanup Site  
Geo Track: [http://geotracker.waterboards.ca.gov/profile\\_report.asp?global\\_id=T0608100334](http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0608100334)  
Global Id: T0608100334  
Latitude: 37.48  
Longitude: -122.1831  
Status: Completed - Case Closed  
Status Date: 02/24/2010  
Case Worker: BG  
RB Case Number: 41-0351  
Local Agency: SAN MATEO COUNTY LOP  
File Location: Local Agency  
Local Case Number: 440018  
Potential Media Affect: Other Groundwater (uses other than drinking water)  
Potential Contaminants of Concern: Diesel  
Site History: Not reported

LUST:

Global Id: T0608100334  
Contact Type: Local Agency Caseworker  
Contact Name: BRIAN GWINN  
Organization Name: SAN MATEO COUNTY LOP  
Address: 2000 Alameda de las Pulgas, Suite 100  
City: SAN MATEO  
Email: bgwinn@smcgov.org  
Phone Number: 6502724590

Global Id: T0608100334  
Contact Type: Regional Board Caseworker  
Contact Name: Regional Water Board  
Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)  
Address: 1515 CLAY ST SUITE 1400  
City: OAKLAND  
Email: Not reported  
Phone Number: Not reported

LUST:

Global Id: T0608100334  
Action Type: RESPONSE  
Date: 03/24/2009  
Action: Monitoring Report - Other

Global Id: T0608100334  
Action Type: ENFORCEMENT  
Date: 10/21/2008  
Action: Staff Letter - #20081021

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BP OIL #11207 (Continued)**

**S101593673**

Global Id: T0608100334  
Action Type: Other  
Date: 03/03/1986  
Action: Leak Reported

Global Id: T0608100334  
Action Type: ENFORCEMENT  
Date: 02/18/2010  
Action: Closure/No Further Action Letter - #20100218

Global Id: T0608100334  
Action Type: Other  
Date: 03/03/1986  
Action: Leak Discovery

Global Id: T0608100334  
Action Type: ENFORCEMENT  
Date: 01/31/1989  
Action: Notice of Responsibility - #1

Global Id: T0608100334  
Action Type: ENFORCEMENT  
Date: 08/14/2009  
Action: Staff Letter - #20090814

Global Id: T0608100334  
Action Type: ENFORCEMENT  
Date: 09/23/2009  
Action: Staff Letter - #20090923

Global Id: T0608100334  
Action Type: RESPONSE  
Date: 09/23/2010  
Action: Well Destruction Report

Global Id: T0608100334  
Action Type: ENFORCEMENT  
Date: 07/14/2009  
Action: LOP Case Closure Summary to RB - #20090714

Global Id: T0608100334  
Action Type: ENFORCEMENT  
Date: 07/02/2009  
Action: Staff Letter - #20090702

Global Id: T0608100334  
Action Type: RESPONSE  
Date: 12/24/2008  
Action: Other Workplan

Global Id: T0608100334  
Action Type: RESPONSE  
Date: 08/14/2010  
Action: Well Destruction Workplan

LUST:  
Global Id: T0608100334



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BP OIL #11207 (Continued)**

**S101593673**

Status: Open - Case Begin Date  
Status Date: 03/03/1986  
  
Global Id: T0608100334  
Status: Open - Verification Monitoring  
Status Date: 03/03/1986  
  
Global Id: T0608100334  
Status: Completed - Case Closed  
Status Date: 02/24/2010

**LUST REG 2:**

Region: 2  
Facility Id: Not reported  
Facility Status: Post remedial action monitoring  
Case Number: 440018  
How Discovered: OM  
Leak Cause: Unknown  
Leak Source: Unknown  
Date Leak Confirmed: Not reported  
Oversight Program: LUST  
Prelim. Site Assessment Wokplan Submitted: Not reported  
Preliminary Site Assessment Began: Not reported  
Pollution Characterization Began: Not reported  
Pollution Remediation Plan Submitted: Not reported  
Date Remediation Action Underway: Not reported  
Date Post Remedial Action Monitoring Began: 1/1/1965

**CA FID UST:**

Facility ID: 41000111  
Regulated By: UTNKA  
Regulated ID: Not reported  
Cortese Code: Not reported  
SIC Code: Not reported  
Facility Phone: 4150000000  
Mail To: Not reported  
Mailing Address: 2868 PROSPECT DR  
Mailing Address 2: Not reported  
Mailing City,St,Zip: MENLO PARK 94025  
Contact: Not reported  
Contact Phone: Not reported  
DUNs Number: Not reported  
NPDES Number: Not reported  
EPA ID: Not reported  
Comments: Not reported  
Status: Active

**San Mateo Co. BI:**

Name: MARSH AUTO REPAIR  
Address: 1110 MARSH  
City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0024096  
Prog Element Code: GENERATES and RECYCLES WASTE OIL/SOLVENT  
Record Id: PR0028432

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BP OIL #11207 (Continued)**

**S101593673**

Description: GENERATES & RECYCLES WASTE OIL/SOLVENT  
Facility Status: Inactive, non-billable  
Program Category: HAZARDOUS WASTE PROGRAM

Name: MARSH AUTO REPAIR  
Address: 1110 MARSH  
City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0024096  
Prog Element Code: STORES MV FUELS OR WASTE ONLY  
Record Id: PR0028433  
Description: STORES MV FUELS OR WASTE ONLY  
Facility Status: Inactive, non-billable  
Program Category: BUSINESS PLAN PROGRAM

Name: MARSH ROAD CHEVRON  
Address: 1110 MARSH  
City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0017572  
Prog Element Code: STORES MV FUELS OR WASTE ONLY  
Record Id: PR0004112  
Description: STORES MV FUELS OR WASTE ONLY  
Facility Status: Active, billable  
Program Category: BUSINESS PLAN PROGRAM

Name: MARSH ROAD CHEVRON  
Address: 1110 MARSH  
City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0017572  
Prog Element Code: UNDERGROUND TANK - GENERAL  
Record Id: PR0022528  
Description: UNDERGROUND TANK - GENERAL  
Facility Status: Active, billable  
Program Category: UNDERGROUND TANK PROGRAM

Name: MARSH ROAD CHEVRON  
Address: 1110 MARSH  
City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0017572  
Prog Element Code: STORMWATER ANNUAL INSPECTION FEE  
Record Id: PR0040560  
Description: STORMWATER ANNUAL FEE - INSP FREQ EVERY 2 YRS  
Facility Status: Inactive, non-billable  
Program Category: STORMWATER

Name: MARSH ROAD CHEVRON  
Address: 1110 MARSH  
City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0017572  
Prog Element Code: GENERATES <27 GAL/YEAR  
Record Id: PR0024761  
Description: GENERATES <27 GAL/YEAR  
Facility Status: Active, billable

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BP OIL #11207 (Continued)**

**S101593673**

Program Category: HAZARDOUS WASTE PROGRAM  
  
Name: MARSH ROAD CHEVRON  
Address: 1110 MARSH  
City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0004282  
Prog Element Code: STORMWATER ANNUAL INSPECTION FEE  
Record Id: PR0041932  
Description: STORMWATER ANNUAL FEE - INSP FREQ EVERY 2 YRS  
Facility Status: Inactive, non-billable  
Program Category: STORMWATER

Name: MENLO SMOG  
Address: 1110 MARSH  
City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0038574  
Prog Element Code: GENERATES and RECYCLES WASTE OIL/SOLVENT  
Record Id: PR0055029  
Description: GENERATES & RECYCLES WASTE OIL/SOLVENT  
Facility Status: Active, billable  
Program Category: HAZARDOUS WASTE PROGRAM

Name: MENLO SMOG  
Address: 1110 MARSH  
City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0038574  
Prog Element Code: STORMWATER ANNUAL INSPECTION FEE  
Record Id: PR0055030  
Description: STORMWATER ANNUAL FEE - INSP FREQ EVERY 2 YRS  
Facility Status: Inactive, non-billable  
Program Category: STORMWATER

Name: MENLO SMOG  
Address: 1110 MARSH  
City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0038574  
Prog Element Code: BUSINESS PLAN - GENERAL  
Record Id: PR0065305  
Description: BUSINESS PLAN - GENERAL  
Facility Status: Inactive, non-billable  
Program Category: BUSINESS PLAN PROGRAM

Name: MENLO SMOG  
Address: 1110 MARSH  
City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0038574  
Prog Element Code: STORES MV FUELS OR WASTE ONLY  
Record Id: PR0080081  
Description: STORES MV FUELS OR WASTE ONLY  
Facility Status: Inactive, non-billable  
Program Category: BUSINESS PLAN PROGRAM

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BP OIL #11207 (Continued)**

**S101593673**

**CORTESE:**

Name: BP #11207  
Address: 1110 MARSH  
City,State,Zip: MENLO PARK, CA 94025  
Region: CORTESE  
Envirostor Id: Not reported  
Global ID: T0608100334  
Site/Facility Type: LUST CLEANUP SITE  
Cleanup Status: COMPLETED - CASE CLOSED  
Status Date: Not reported  
Site Code: Not reported  
Latitude: Not reported  
Longitude: Not reported  
Owner: Not reported  
Enf Type: Not reported  
Swat R: Not reported  
Flag: active  
Order No: Not reported  
Waste Discharge System No: Not reported  
Effective Date: Not reported  
Region 2: Not reported  
WID Id: Not reported  
Solid Waste Id No: Not reported  
Waste Management Uit Name: Not reported  
File Name: Active Open

**CERS:**

Name: BP #11207  
Address: 1110 MARSH  
City,State,Zip: MENLO PARK, CA 94025  
Site ID: 249202  
CERS ID: T0608100334  
CERS Description: Leaking Underground Storage Tank Cleanup Site

**Affiliation:**

Affiliation Type Desc: Local Agency Caseworker  
Entity Name: BRIAN GWINN - SAN MATEO COUNTY LOP  
Entity Title: Not reported  
Affiliation Address: 2000 Alameda de las Pulgas, Suite 100  
Affiliation City: SAN MATEO  
Affiliation State: CA  
Affiliation Country: Not reported  
Affiliation Zip: Not reported  
Affiliation Phone: 6502724590,

Affiliation Type Desc: Regional Board Caseworker  
Entity Name: Regional Water Board - SAN FRANCISCO BAY RWQCB (REGION 2)  
Entity Title: Not reported  
Affiliation Address: 1515 CLAY ST SUITE 1400  
Affiliation City: OAKLAND  
Affiliation State: CA  
Affiliation Country: Not reported  
Affiliation Zip: Not reported  
Affiliation Phone: ,

Affiliation Type Desc: Regional Board Caseworker  
Entity Name: UUU - SAN FRANCISCO BAY RWQCB (REGION 2)

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BP OIL #11207 (Continued)**

**S101593673**

Entity Title: Not reported  
Affiliation Address: 1515 CLAY ST SUITE 1400  
Affiliation City: OAKLAND  
Affiliation State: CA  
Affiliation Country: Not reported  
Affiliation Zip: Not reported  
Affiliation Phone: ,

**P157  
SSW  
1/4-1/2  
0.313 mi.  
1652 ft.**

**BP  
1110 MARSH  
MENLO PARK, CA 94025  
Site 2 of 2 in cluster P**

**CA SWEEPS UST S103892634  
CA HIST CORTESE N/A**

**Relative:  
Higher  
Actual:  
17 ft.**

**SWEEPS UST:**  
Name: BP OIL COMPANY SITE 11207  
Address: 1110 MARSH RD  
City: MENLO PARK  
Status: Active  
Comp Number: 440025  
Number: 1  
Board Of Equalization: Not reported  
Referral Date: 05-13-94  
Action Date: 05-13-94  
Created Date: 10-13-88  
Owner Tank Id: UNK  
SWRCB Tank Id: 41-000-440025-000001  
Tank Status: A  
Capacity: 10000  
Active Date: 04-05-94  
Tank Use: M.V. FUEL  
STG: P  
Content: PLUS UNLEADED  
Number Of Tanks: 4

Name: BP OIL COMPANY SITE 11207  
Address: 1110 MARSH RD  
City: MENLO PARK  
Status: Active  
Comp Number: 440025  
Number: 1  
Board Of Equalization: Not reported  
Referral Date: 05-13-94  
Action Date: 05-13-94  
Created Date: 10-13-88  
Owner Tank Id: Not reported  
SWRCB Tank Id: 41-000-440025-000002  
Tank Status: A  
Capacity: 12000  
Active Date: 04-05-94  
Tank Use: M.V. FUEL  
STG: P  
Content: REG UNLEADED  
Number Of Tanks: Not reported

Name: BP OIL COMPANY SITE 11207  
Address: 1110 MARSH RD

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BP (Continued)**

**S103892634**

City: MENLO PARK  
Status: Active  
Comp Number: 440025  
Number: 1  
Board Of Equalization: Not reported  
Referral Date: 05-13-94  
Action Date: 05-13-94  
Created Date: 10-13-88  
Owner Tank Id: Not reported  
SWRCB Tank Id: 41-000-440025-000003  
Tank Status: A  
Capacity: 10000  
Active Date: 04-05-94  
Tank Use: M.V. FUEL  
STG: P  
Content: LEADED  
Number Of Tanks: Not reported

Name: BP OIL COMPANY SITE 11207  
Address: 1110 MARSH RD  
City: MENLO PARK  
Status: Active  
Comp Number: 440025  
Number: 1  
Board Of Equalization: Not reported  
Referral Date: 05-13-94  
Action Date: 05-13-94  
Created Date: 10-13-88  
Owner Tank Id: Not reported  
SWRCB Tank Id: 41-000-440025-000004  
Tank Status: A  
Capacity: 1000  
Active Date: 04-05-94  
Tank Use: OIL  
STG: W  
Content: WASTE OIL  
Number Of Tanks: Not reported

**HIST CORTESE:**

edr\_fname: BP  
edr\_fadd1: 1110 MARSH  
City,State,Zip: MENLO PARK, CA 94025  
Region: CORTESE  
Facility County Code: 41  
Reg By: LTNKA  
Reg Id: 41-0351

**Q158** **AUTOMATIC RAIN COMPANY**  
**SSE** **4060 CAMPBELL AVE**  
**1/4-1/2** **MENLO PARK, CA 94025**  
**0.337 mi.**  
**1780 ft.** **Site 1 of 4 in cluster Q**

**CA LUST** **S104972876**  
**CA SWEEPS UST** **N/A**  
**CA San Mateo Co. BI**  
**CA Cortese**  
**CA HIST CORTESE**  
**CA CERS**

**Relative:**  
**Higher** **SAN MATEO CO. LUST:**  
**Actual:** **Name:** **AUTOMATIC RAIN CO.**  
**18 ft.** **Address:** **4060 CAMPBELL AVE**

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**AUTOMATIC RAIN COMPANY (Continued)**

**S104972876**

City,State,Zip: MENLO PARK, CA  
Region: SAN MATEO  
Facility ID: 440047  
Facility Status: 9- Case Closed  
Global ID: T0608100888  
APN Number: 055253200  
Case Type: MENLO PARK, CA  
EDR Link ID: MENLO PARK, CA

LUST:

Name: AUTOMATIC RAIN CO.  
Address: 4060 CAMPBELL AVENUE  
City,State,Zip: MENLO PARK, CA 94025  
Lead Agency: SAN MATEO COUNTY LOP  
Case Type: LUST Cleanup Site  
Geo Track: [http://geotracker.waterboards.ca.gov/profile\\_report.asp?global\\_id=T0608100888](http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0608100888)  
Global Id: T0608100888  
Latitude: 37.4804562399769  
Longitude: -122.180108428001  
Status: Completed - Case Closed  
Status Date: 08/12/1999  
Case Worker: Not reported  
RB Case Number: 41-0969  
Local Agency: Not reported  
File Location: Local Agency  
Local Case Number: 440047  
Potential Media Affect: Other Groundwater (uses other than drinking water)  
Potential Contaminants of Concern: Gasoline  
Site History: Not reported

LUST:

Global Id: T0608100888  
Contact Type: Regional Board Caseworker  
Contact Name: Regional Water Board  
Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)  
Address: 1515 CLAY ST SUITE 1400  
City: OAKLAND  
Email: Not reported  
Phone Number: Not reported

LUST:

Global Id: T0608100888  
Action Type: Other  
Date: 02/16/1996  
Action: Leak Reported

Global Id: T0608100888  
Action Type: ENFORCEMENT  
Date: 03/12/1996  
Action: Notice of Responsibility - #1

LUST:

Global Id: T0608100888  
Status: Open - Case Begin Date  
Status Date: 02/16/1996

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**AUTOMATIC RAIN COMPANY (Continued)**

**S104972876**

Global Id: T0608100888  
Status: Completed - Case Closed  
Status Date: 08/12/1999

**SWEEPS UST:**

Name: AUTOMATIC RAIN COMPANY  
Address: 4060 CAMPBELL AVE  
City: MENLO PARK  
Status: Active  
Comp Number: 440007  
Number: 9  
Board Of Equalization: 44-025352  
Referral Date: 04-04-94  
Action Date: 04-04-94  
Created Date: 10-13-88  
Owner Tank Id: 1  
SWRCB Tank Id: 41-000-440007-000001  
Tank Status: A  
Capacity: 6000  
Active Date: 04-04-94  
Tank Use: M.V. FUEL  
STG: P  
Content: REG UNLEADED  
Number Of Tanks: 2

Name: AUTOMATIC RAIN COMPANY  
Address: 4060 CAMPBELL AVE  
City: MENLO PARK  
Status: Active  
Comp Number: 440007  
Number: 9  
Board Of Equalization: 44-025352  
Referral Date: 04-04-94  
Action Date: 04-04-94  
Created Date: 10-13-88  
Owner Tank Id: 2  
SWRCB Tank Id: 41-000-440007-000002  
Tank Status: A  
Capacity: 4000  
Active Date: 04-04-94  
Tank Use: M.V. FUEL  
STG: P  
Content: REG UNLEADED  
Number Of Tanks: Not reported

**San Mateo Co. BI:**

Name: HORIZON  
Address: 4060 CAMPBELL AVENUE  
City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0017561  
Prog Element Code: UNDERGROUND TANK - GENERAL  
Record Id: PR0022521  
Description: UNDERGROUND TANK - GENERAL  
Facility Status: Inactive, non-billable



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**AUTOMATIC RAIN COMPANY (Continued)**

**S104972876**

Program Category: UNDERGROUND TANK PROGRAM  
  
Name: HORIZON  
Address: 4060 CAMPBELL AVENUE  
City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0017561  
Prog Element Code: STORMWATER ANNUAL INSPECTION FEE  
Record Id: PR0040557  
Description: STORMWATER ANNUAL FEE - INSP FREQ EVERY 2 YRS  
Facility Status: Inactive, non-billable  
Program Category: STORMWATER

Name: HORIZON  
Address: 4060 CAMPBELL AVENUE  
City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0017561  
Prog Element Code: STORES HAZ MAT <6999 GAL, 55999 LB, 2799FT^3  
Record Id: PR0023474  
Description: STORES HAZ MAT <6999 GAL, 55999 LB, 2799CF  
Facility Status: Active, billable  
Program Category: BUSINESS PLAN PROGRAM

**CORTESE:**

Name: AUTOMATIC RAIN CO.  
Address: 4060 CAMPBELL AVENUE  
City,State,Zip: MENLO PARK, CA 94025  
Region: CORTESE  
Envirostor Id: Not reported  
Global ID: T0608100888  
Site/Facility Type: LUST CLEANUP SITE  
Cleanup Status: COMPLETED - CASE CLOSED  
Status Date: Not reported  
Site Code: Not reported  
Latitude: Not reported  
Longitude: Not reported  
Owner: Not reported  
Enf Type: Not reported  
Swat R: Not reported  
Flag: active  
Order No: Not reported  
Waste Discharge System No: Not reported  
Effective Date: Not reported  
Region 2: Not reported  
WID Id: Not reported  
Solid Waste Id No: Not reported  
Waste Management Uit Name: Not reported  
File Name: Active Open

**HIST CORTESE:**

edr\_fname: AUTOMATIC RAIN COMPANY  
edr\_fadd1: 4060 CAMPBELL  
City,State,Zip: MENLO PARK, CA 94025  
Region: CORTESE  
Facility County Code: 41

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**AUTOMATIC RAIN COMPANY (Continued)**

**S104972876**

Reg By: LTNKA  
Reg Id: 41-0969

**CERS:**

Name: AUTOMATIC RAIN CO.  
Address: 4060 CAMPBELL AVENUE  
City,State,Zip: MENLO PARK, CA 94025  
Site ID: 195797  
CERS ID: T0608100888  
CERS Description: Leaking Underground Storage Tank Cleanup Site

**Affiliation:**

Affiliation Type Desc: Regional Board Caseworker  
Entity Name: Regional Water Board - SAN FRANCISCO BAY RWQCB (REGION 2)  
Entity Title: Not reported  
Affiliation Address: 1515 CLAY ST SUITE 1400  
Affiliation City: OAKLAND  
Affiliation State: CA  
Affiliation Country: Not reported  
Affiliation Zip: Not reported  
Affiliation Phone: ,

Affiliation Type Desc: Regional Board Caseworker  
Entity Name: UUU - SAN FRANCISCO BAY RWQCB (REGION 2)  
Entity Title: Not reported  
Affiliation Address: 1515 CLAY ST SUITE 1400  
Affiliation City: OAKLAND  
Affiliation State: CA  
Affiliation Country: Not reported  
Affiliation Zip: Not reported  
Affiliation Phone: ,

**Q159**  
**SSE**  
**1/4-1/2**  
**0.337 mi.**  
**1780 ft.**

**AUTOMATIC RAIN COMPANY**  
**4060 CAMPBELL AVE**  
**MENLO PARK, CA 94025**  
**Site 2 of 4 in cluster Q**

**CA LUST** **S101594063**  
**CA FID UST** **N/A**

**Relative:**  
**Higher**

LUST REG 2:  
Region: 2  
Facility Id: Not reported  
Facility Status: Case Closed  
Case Number: 440047  
How Discovered: OM  
Leak Cause: Unknown  
Leak Source: Unknown  
Date Leak Confirmed: Not reported  
Oversight Program: LUST  
Prelim. Site Assessment Workplan Submitted: Not reported  
Preliminary Site Assessment Began: Not reported  
Pollution Characterization Began: Not reported  
Pollution Remediation Plan Submitted: Not reported  
Date Remediation Action Underway: Not reported  
Date Post Remedial Action Monitoring Began: Not reported

**Actual:**  
**18 ft.**

CA FID UST:

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**AUTOMATIC RAIN COMPANY (Continued)**

**S101594063**

Facility ID: 41004900  
Regulated By: UTNKA  
Regulated ID: Not reported  
Cortese Code: Not reported  
SIC Code: Not reported  
Facility Phone: Not reported  
Mail To: Not reported  
Mailing Address: 4060 CAMPBELL AVE  
Mailing Address 2: Not reported  
Mailing City,St,Zip: MENLO PARK 94025  
Contact: Not reported  
Contact Phone: Not reported  
DUNs Number: Not reported  
NPDES Number: Not reported  
EPA ID: Not reported  
Comments: Not reported  
Status: Active

**Q160**  
**SSE**  
**1/4-1/2**  
**0.367 mi.**  
**1938 ft.**

**WEST VALLEY PROP (WVP III)**  
**4040 CAMPBELL AVENUE**  
**MENLO PARK, CA 94025**

**CA BROWNFIELDS** **S113171243**  
**N/A**

**Site 3 of 4 in cluster Q**

**Relative:**  
**Higher**  
**Actual:**  
**18 ft.**

**BROWNFIELDS:**  
Name: WEST VALLEY PROP (WVP III)  
Address: 4040 CAMPBELL AVENUE  
City,State,Zip: MENLO PARK, CA 94025  
Global ID: T0608126742  
Latitude: 37.480489805  
Longitude: -122.18065518  
Project Type: Cleanup Program Site  
Status: Completed - Case Closed  
Status Date: 10/16/2014  
Lead Agency: SAN FRANCISCO BAY RWQCB (REGION 2)  
Last Correspondence Date: 02/24/2015  
Release Type: Not reported  
Contaminant(s) of Concern: Trichloroethylene (TCE)  
Media of Concern: Other Groundwater (uses other than drinking water)  
Past Use(s) that Caused Contamination: Not reported  
Human Health Exposure Controlled: INSUFFICIENT DATA  
Human Health Exposure Controlled Date: 05/02/1997  
Groundwater Migration Controlled: UNDETERMINED  
Groundwater Migration Controlled Date: 05/02/1997  
Primary Caseworker Name: Regional Water Board  
Primary Caseworker Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)  
Primary Caseworker Phone Number: 510-622-3277  
Primary Caseworker Address: 1515 CLAY ST SUITE 1400  
Primary Caseworker Address: OAKLAND  
Primary Caseworker Address: C  
Primary Caseworker Email: Not reported

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**Q161**      **WVP III**  
**SSE**        **4040 CAMPBELL**  
**1/4-1/2**     **MENLO PARK, CA 94025**  
**0.367 mi.**  
**1938 ft.**     **Site 4 of 4 in cluster Q**

**CA CPS-SLIC**    **S103171347**  
**CA San Mateo Co. BI**    **N/A**  
**CA HIST CORTESE**  
**CA CERS**

**Relative:**  
**Higher**  
**Actual:**  
**18 ft.**

**CPS-SLIC:**  
 Name: WEST VALLEY PROP (WVP III)  
 Address: 4040 CAMPBELL AVENUE  
 City,State,Zip: MENLO PARK, CA 94025  
 Region: STATE  
**Facility Status: Completed - Case Closed**  
 Status Date: 10/16/2014  
 Global Id: T0608126742  
 Lead Agency: SAN FRANCISCO BAY RWQCB (REGION 2)  
 Lead Agency Case Number: Not reported  
 Latitude: 37.480489805  
 Longitude: -122.18065518  
 Case Type: Cleanup Program Site  
 Case Worker: UUU  
 Local Agency: Not reported  
 RB Case Number: 41S0186  
 File Location: Not reported  
 Potential Media Affected: Other Groundwater (uses other than drinking water)  
 Potential Contaminants of Concern: Trichloroethylene (TCE)  
 Site History: Not reported

[Click here to access the California GeoTracker records for this facility:](#)

**San Mateo Co. BI:**

Name: EKAGEN  
 Address: 4040 CAMPBELL  
 City,State,Zip: MENLO PARK, CA 94025  
 Region: SAN MATEO  
 Facility ID: FA0022635  
 Prog Element Code: GENERATES and RECYCLES WASTE OIL/SOLVENT  
 Record Id: PR0025074  
 Description: GENERATES & RECYCLES WASTE OIL/SOLVENT  
 Facility Status: Inactive, non-billable  
 Program Category: HAZARDOUS WASTE PROGRAM

Name: EKAGEN  
 Address: 4040 CAMPBELL  
 City,State,Zip: MENLO PARK, CA 94025  
 Region: SAN MATEO  
 Facility ID: FA0022635  
 Prog Element Code: STORES HAZ MAT <219GAL,1,999LB, 879FT3  
 Record Id: PR0025978  
 Description: STORES HAZ MAT <219GAL,1,999LB, 879CF  
 Facility Status: Inactive, non-billable  
 Program Category: BUSINESS PLAN PROGRAM

Name: PAN PACIFIC PHARMACEUTICALS IN  
 Address: 4040 CAMPBELL  
 City,State,Zip: MENLO PARK, CA 94025  
 Region: SAN MATEO  
 Facility ID: FA0015156  
 Prog Element Code: GENERATES <27 GAL/YEAR  
 Record Id: PR0034307

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**WVP III (Continued)**

**S103171347**

Description: GENERATES <27 GAL/YEAR  
Facility Status: Inactive, non-billable  
Program Category: HAZARDOUS WASTE PROGRAM

Name: PAN PACIFIC PHARMACEUTICALS IN  
Address: 4040 CAMPBELL  
City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0015156  
Prog Element Code: STORES HAZ MAT <219GAL,1,999LB, 879FT3  
Record Id: PR0034306  
Description: STORES HAZ MAT <219GAL,1,999LB, 879CF  
Facility Status: Inactive, non-billable  
Program Category: BUSINESS PLAN PROGRAM

Name: PROGENITOR INC  
Address: 4040 CAMPBELL  
City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0016379  
Prog Element Code: GEN <1 TONS HAZ WASTE/YR  
Record Id: PR0011525  
Description: GEN <1 TONS HAZ WASTE/YR  
Facility Status: Inactive, non-billable  
Program Category: HAZARDOUS WASTE PROGRAM

Name: PROGENITOR INC  
Address: 4040 CAMPBELL  
City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0016379  
Prog Element Code: COND EXEMPT - SQ TREATMENT  
Record Id: PR0030099  
Description: COND EXEMPT - SQ TREATMENT  
Facility Status: Inactive, non-billable  
Program Category: CONDITIONALLY EXEMPT (CE)

Name: PROGENITOR INC  
Address: 4040 CAMPBELL  
City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0016379  
Prog Element Code: STORES RADIOACTIVE MATERIALS  
Record Id: PR0004187  
Description: STORES RADIOACTIVE MATERIALS  
Facility Status: Inactive, non-billable  
Program Category: BUSINESS PLAN PROGRAM

Name: PHERIN PHARMACEUTICALS  
Address: 4040 CAMPBELL  
City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0016380  
Prog Element Code: GENERATES <27 GAL/YEAR  
Record Id: PR0011524  
Description: GENERATES <27 GAL/YEAR  
Facility Status: Inactive, non-billable

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**WVP III (Continued)**

**S103171347**

Program Category: HAZARDOUS WASTE PROGRAM

Name: PHERIN PHARMACEUTICALS  
Address: 4040 CAMPBELL  
City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0016380  
Prog Element Code: STORES RADIOACTIVE MATERIALS  
Record Id: PR0004186  
Description: STORES RADIOACTIVE MATERIALS  
Facility Status: Inactive, non-billable  
Program Category: BUSINESS PLAN PROGRAM

Name: TAUTONA GRP RESEARCH & DVLP CO  
Address: 4040 CAMPBELL  
City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0046946  
Prog Element Code: GEN <1 TONS HAZ WASTE/YR  
Record Id: PR0063956  
Description: GEN <1 TONS HAZ WASTE/YR  
Facility Status: Inactive, non-billable  
Program Category: HAZARDOUS WASTE PROGRAM

Name: TAUTONA GRP RESEARCH & DVLP CO  
Address: 4040 CAMPBELL  
City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0046946  
Prog Element Code: STORMWATER ANNUAL INSPECTION FEE  
Record Id: PR0064040  
Description: STORMWATER ANNUAL FEE - INSP FREQ EVERY 2 YRS  
Facility Status: Inactive, non-billable  
Program Category: STORMWATER

Name: TAUTONA GRP RESEARCH & DVLP CO  
Address: 4040 CAMPBELL  
City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0046946  
Prog Element Code: STORES HAZ MAT <219GAL,1,999LB, 879FT3  
Record Id: PR0063955  
Description: STORES HAZ MAT <219GAL,1,999LB, 879CF  
Facility Status: Inactive, non-billable  
Program Category: BUSINESS PLAN PROGRAM

Name: CAMITRO CORP  
Address: 4040 CAMPBELL  
City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0026835  
Prog Element Code: STORMWATER ANNUAL INSPECTION FEE  
Record Id: PR0040665  
Description: STORMWATER ANNUAL FEE - INSP FREQ EVERY 2 YRS  
Facility Status: Inactive, non-billable  
Program Category: STORMWATER

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**WVP III (Continued)**

**S103171347**

Name: CAMITRO CORP  
Address: 4040 CAMPBELL  
City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0026835  
Prog Element Code: GEN <1 TONS HAZ WASTE/YR  
Record Id: PR0039796  
Description: GEN <1 TONS HAZ WASTE/YR  
Facility Status: Inactive, non-billable  
Program Category: HAZARDOUS WASTE PROGRAM

Name: CAMITRO CORP  
Address: 4040 CAMPBELL  
City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0026835  
Prog Element Code: STORES RADIOACTIVE MATERIALS  
Record Id: PR0039795  
Description: STORES RADIOACTIVE MATERIALS  
Facility Status: Inactive, non-billable  
Program Category: BUSINESS PLAN PROGRAM

HIST CORTESE:  
edr\_fname: WVP III  
edr\_fadd1: 4040 CAMPBELL  
City,State,Zip: MENLO PARK, CA 94025  
Region: CORTESE  
Facility County Code: 41  
Reg By: LTNKA  
Reg Id: 41-1014

CERS:  
Name: WEST VALLEY PROP (WVP III)  
Address: 4040 CAMPBELL AVENUE  
City,State,Zip: MENLO PARK, CA 94025  
Site ID: 187999  
CERS ID: T0608126742  
CERS Description: Cleanup Program Site

Affiliation:  
Affiliation Type Desc: Regional Board Caseworker  
Entity Name: Regional Water Board - SAN FRANCISCO BAY RWQCB (REGION 2)  
Entity Title: Not reported  
Affiliation Address: 1515 CLAY ST SUITE 1400  
Affiliation City: OAKLAND  
Affiliation State: CA  
Affiliation Country: Not reported  
Affiliation Zip: Not reported  
Affiliation Phone: ,

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

R162 KREBS ENGINEERS  
ESE 1205 CHRYSLER  
1/4-1/2 MENLO PARK, CA 94025  
0.396 mi.  
2091 ft. Site 1 of 2 in cluster R

CA CPS-SLIC 1000164994  
CA San Mateo Co. BI N/A  
CA HIST CORTESE  
CA CERS

Relative:  
Higher  
Actual:  
11 ft.

CPS-SLIC:  
Name: KREBS ENGINEERS  
Address: 1205 CHRYSLER DR  
City,State,Zip: MENLO PARK, CA 94025  
Region: STATE  
**Facility Status: Completed - Case Closed**  
Status Date: 06/02/2009  
Global Id: T0608100940  
Lead Agency: SAN FRANCISCO BAY RWQCB (REGION 2)  
Lead Agency Case Number: 449051  
Latitude: 37.482641  
Longitude: -122.175578  
Case Type: Cleanup Program Site  
Case Worker: UUU  
Local Agency: Not reported  
RB Case Number: 41S0157  
File Location: Not reported  
Potential Media Affected: Not reported  
Potential Contaminants of Concern: Stoddard solvent / Mineral Sprits / Distillates  
Site History: Not reported

[Click here to access the California GeoTracker records for this facility:](#)

San Mateo Co. BI:

Name: ROTO ROOTER  
Address: 1205 CHRYSLER  
City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0024340  
Prog Element Code: GENERATES and RECYCLES WASTE OIL/SOLVENT  
Record Id: PR0028949  
Description: GENERATES & RECYCLES WASTE OIL/SOLVENT  
Facility Status: Inactive, non-billable  
Program Category: HAZARDOUS WASTE PROGRAM

Name: ROTO ROOTER  
Address: 1205 CHRYSLER  
City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0024340  
Prog Element Code: STORES HAZ MAT <219GAL,1,999LB, 879FT3  
Record Id: PR0028950  
Description: STORES HAZ MAT <219GAL,1,999LB, 879CF  
Facility Status: Inactive, non-billable  
Program Category: BUSINESS PLAN PROGRAM

Name: KREBS ENGINEERS  
Address: 1205 CHRYSLER  
City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0014357  
Prog Element Code: GENERATES and RECYCLES WASTE OIL/SOLVENT  
Record Id: PR0024901



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**KREBS ENGINEERS (Continued)**

1000164994

Description: GENERATES & RECYCLES WASTE OIL/SOLVENT  
Facility Status: Inactive, non-billable  
Program Category: HAZARDOUS WASTE PROGRAM

Name: KREBS ENGINEERS  
Address: 1205 CHRYSLER  
City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0014357  
Prog Element Code: STORES HAZ MAT <1,199GAL,9,999LB,4,799FT3  
Record Id: PR0024902  
Description: STORES HAZ MAT <1,199GAL,9,999LB,4,799CF  
Facility Status: Inactive, non-billable  
Program Category: BUSINESS PLAN PROGRAM

HIST CORTESE:  
edr\_fname: KREBS ENGINEERS  
edr\_fadd1: 1205 CHRYSLER  
City,State,Zip: MENLO PARK, CA 94025  
Region: CORTESE  
Facility County Code: 41  
Reg By: LTNKA  
Reg Id: 41-1027

CERS:  
Name: KREBS ENGINEERS  
Address: 1205 CHRYSLER DR  
City,State,Zip: MENLO PARK, CA 94025  
Site ID: 248046  
CERS ID: T0608100940  
CERS Description: Cleanup Program Site

Affiliation:  
Affiliation Type Desc: Regional Board Caseworker  
Entity Name: Regional Water Board - SAN FRANCISCO BAY RWQCB (REGION 2)  
Entity Title: Not reported  
Affiliation Address: 1515 CLAY ST SUITE 1400  
Affiliation City: OAKLAND  
Affiliation State: CA  
Affiliation Country: Not reported  
Affiliation Zip: Not reported  
Affiliation Phone: ,

R163 BAY ASSOCIATES  
ESE 1150 CHRYSLER  
1/4-1/2 MENLO PARK, CA 94025  
0.420 mi.  
2220 ft. Site 2 of 2 in cluster R

Relative:  
Higher

Actual:  
11 ft.

SAN MATEO CO. LUST:  
Name: BAY ASSOCIATES  
Address: 1150 CHRYSLER DR  
City,State,Zip: MENLO PARK, CA

CA LUST S101308616  
CA San Mateo Co. BI N/A  
CA Cortese  
CA HIST CORTESE  
CA NPDES  
CA WDS  
CA CIWQS  
CA CERS

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BAY ASSOCIATES (Continued)**

**S101308616**

Region: SAN MATEO  
Facility ID: 440005  
Facility Status: 9- Case Closed  
Global ID: T0608100059  
APN Number: 055243010  
Case Type: MENLO PARK, CA  
EDR Link ID: MENLO PARK, CA

**LUST:**

Name: BAY ASSOCIATES  
Address: 1150 CHRYSLER DRIVE  
City,State,Zip: MENLO PARK, CA 94025  
Lead Agency: SAN MATEO COUNTY LOP  
Case Type: LUST Cleanup Site  
Geo Track: [http://geotracker.waterboards.ca.gov/profile\\_report.asp?global\\_id=T0608100059](http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0608100059)  
Global Id: T0608100059  
Latitude: 37.4827762649464  
Longitude: -122.174985408783  
Status: Completed - Case Closed  
Status Date: 04/10/1999  
Case Worker: Not reported  
RB Case Number: 41-0063  
Local Agency: Not reported  
File Location: Local Agency  
Local Case Number: 440005  
Potential Media Affect: Other Groundwater (uses other than drinking water)  
Potential Contaminants of Concern: Gasoline  
Site History: Not reported

**LUST:**

Global Id: T0608100059  
Contact Type: Regional Board Caseworker  
Contact Name: Regional Water Board  
Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)  
Address: 1515 CLAY ST SUITE 1400  
City: OAKLAND  
Email: Not reported  
Phone Number: Not reported

**LUST:**

Global Id: T0608100059  
Action Type: Other  
Date: 06/22/1985  
Action: Leak Reported

Global Id: T0608100059  
Action Type: Other  
Date: 06/22/1985  
Action: Leak Discovery

Global Id: T0608100059  
Action Type: ENFORCEMENT  
Date: 06/22/1992  
Action: Notice of Responsibility - #1

**LUST:**

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BAY ASSOCIATES (Continued)**

**S101308616**

Global Id: T0608100059  
Status: Open - Case Begin Date  
Status Date: 06/22/1985

Global Id: T0608100059  
Status: Completed - Case Closed  
Status Date: 04/10/1999

**LUST REG 2:**

Region: 2  
Facility Id: Not reported  
Facility Status: Case Closed  
Case Number: 440005  
How Discovered: OM  
Leak Cause: Unknown  
Leak Source: Unknown  
Date Leak Confirmed: Not reported  
Oversight Program: LUST  
Prelim. Site Assessment Workplan Submitted: Not reported  
Preliminary Site Assessment Began: Not reported  
Pollution Characterization Began: Not reported  
Pollution Remediation Plan Submitted: Not reported  
Date Remediation Action Underway: Not reported  
Date Post Remedial Action Monitoring Began: Not reported

**San Mateo Co. BI:**

Name: L-3 RANDTRON ANTENNA SYSTEMS  
Address: 1150 CHRYSLER PLANT  
City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0005309  
Prog Element Code: GEN 1-5 TONS HAZ WASTE/YR  
Record Id: PR0004086  
Description: GEN 1-5 TONS HAZ WASTE/YR  
Facility Status: Active, billable  
Program Category: HAZARDOUS WASTE PROGRAM

Name: L-3 RANDTRON ANTENNA SYSTEMS  
Address: 1150 CHRYSLER PLANT  
City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0005309  
Prog Element Code: 3091  
Record Id: PR0040524  
Description: STORMWATER ANNUAL INSPECTION FEE  
Facility Status: Inactive, non-billable  
Program Category: STORMWATER

Name: L-3 RANDTRON ANTENNA SYSTEMS  
Address: 1150 CHRYSLER PLANT  
City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0005309  
Prog Element Code: STORES HAZ MAT <1,199GAL,9,999LB,4,799FT3  
Record Id: PR0004087

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BAY ASSOCIATES (Continued)**

**S101308616**

Description: STORES HAZ MAT <1,199GAL,9,999LB,4,799CF  
Facility Status: Active, billable  
Program Category: BUSINESS PLAN PROGRAM

**CORTESE:**

Name: BAY ASSOCIATES  
Address: 1150 CHRYSLER DRIVE  
City,State,Zip: MENLO PARK, CA 94025  
Region: CORTESE  
Envirostor Id: Not reported  
Global ID: T0608100059  
Site/Facility Type: LUST CLEANUP SITE  
Cleanup Status: COMPLETED - CASE CLOSED  
Status Date: Not reported  
Site Code: Not reported  
Latitude: Not reported  
Longitude: Not reported  
Owner: Not reported  
Enf Type: Not reported  
Swat R: Not reported  
Flag: active  
Order No: Not reported  
Waste Discharge System No: Not reported  
Effective Date: Not reported  
Region 2: Not reported  
WID Id: Not reported  
Solid Waste Id No: Not reported  
Waste Management Uit Name: Not reported  
File Name: Active Open

**HIST CORTESE:**

edr\_fname: BAY ASSOCIATES  
edr\_fadd1: 1150 CHRYSLER  
City,State,Zip: MENLO PARK, CA  
Region: CORTESE  
Facility County Code: 41  
Reg By: LTNKA  
Reg Id: 41-0063

**NPDES:**

Name: L3HARRIS RANDTRON ANTENNA SYSTEMS  
Address: 1150 CHRYSLER DR  
City,State,Zip: MENLO PARK, CA 94025  
Facility Status: Active  
NPDES Number: CAS000001  
Region: 2  
Agency Number: 0  
Regulatory Measure ID: 182930  
Place ID: Not reported  
Order Number: 97-03-DWQ  
WDID: 2 41NEC000047  
Regulatory Measure Type: Enrollee  
Program Type: Industrial  
Adoption Date Of Regulatory Measure: Not reported  
Effective Date Of Regulatory Measure: 07/07/1997  
Termination Date Of Regulatory Measure: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BAY ASSOCIATES (Continued)**

**S101308616**

Expiration Date Of Regulatory Measure: Not reported  
Discharge Address: 130 Constitution Dr  
Discharge Name: L3 Communications Corp  
Discharge City: Menlo Park  
Discharge State: California  
Discharge Zip: 94025  
Status: Not reported  
Status Date: Not reported  
Operator Name: Not reported  
Operator Address: Not reported  
Operator City: Not reported  
Operator State: Not reported  
Operator Zip: Not reported

NPDES as of 03/2018:  
NPDES Number: CAS000001  
Status: Active  
Agency Number: 0  
Region: 2  
Regulatory Measure ID: 182930  
Order Number: 97-03-DWQ  
Regulatory Measure Type: Enrollee  
Place ID: Not reported  
WDID: 2 41NEC000047  
Program Type: Industrial  
Adoption Date Of Regulatory Measure: Not reported  
Effective Date Of Regulatory Measure: 07/07/1997  
Expiration Date Of Regulatory Measure: Not reported  
Termination Date Of Regulatory Measure: Not reported  
Discharge Name: L3 Communications Corp  
Discharge Address: 130 Constitution Dr  
Discharge City: Menlo Park  
Discharge State: California  
Discharge Zip: 94025  
Received Date: Not reported  
Processed Date: Not reported  
Status: Not reported  
Status Date: Not reported  
Place Size: Not reported  
Place Size Unit: Not reported  
Contact: Not reported  
Contact Title: Not reported  
Contact Phone: Not reported  
Contact Phone Ext: Not reported  
Contact Email: Not reported  
Operator Name: Not reported  
Operator Address: Not reported  
Operator City: Not reported  
Operator State: Not reported  
Operator Zip: Not reported  
Operator Contact: Not reported  
Operator Contact Title: Not reported  
Operator Contact Phone: Not reported  
Operator Contact Phone Ext: Not reported  
Operator Contact Email: Not reported  
Operator Type: Not reported  
Developer: Not reported  
Developer Address: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BAY ASSOCIATES (Continued)**

**S101308616**

Developer City:	Not reported
Developer State:	Not reported
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commercial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Not reported
Receiving Water Name:	Not reported
Certifier:	Not reported
Certifier Title:	Not reported
Certification Date:	Not reported
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported
NPDES Number:	Not reported
Status:	Not reported
Agency Number:	Not reported
Region:	2
Regulatory Measure ID:	182930
Order Number:	Not reported
Regulatory Measure Type:	Industrial
Place ID:	Not reported
WDID:	2 41NEC000047
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Not reported
Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Received Date:	07/09/2015
Processed Date:	07/07/1997
Status:	Active
Status Date:	07/09/2015
Place Size:	60443

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BAY ASSOCIATES (Continued)**

**S101308616**

Place Size Unit:	Acres
Contact:	Randy C Perkins
Contact Title:	EH&S / Facilities Manager
Contact Phone:	650-326-9500
Contact Phone Ext:	483
Contact Email:	randy.perkins@l-3com.com
Operator Name:	L3 Communications Corp
Operator Address:	130 Constitution Dr
Operator City:	Menlo Park
Operator State:	California
Operator Zip:	94025
Operator Contact:	Randy Perkins
Operator Contact Title:	EH&S / Facilities Manager
Operator Contact Phone:	650-326-9500
Operator Contact Phone Ext:	483
Operator Contact Email:	randy.perkins@L-3com.com
Operator Type:	Private Business
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	California
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	650-823-6179
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commercial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	N
Receiving Water Name:	Municipal storm water system
Certifier:	Randy Perkins
Certifier Title:	EH&S / Facilities Manager
Certification Date:	29-SEP-16
Primary Sic:	3812-Search, Detection, Navigation, Guidance, Aeronautical, and Nautical Systems and Instruments
Secondary Sic:	Not reported
Tertiary Sic:	Not reported
Name:	L3HARRIS RANDTRON ANTENNA SYSTEMS
Address:	1150 CHRYSLER DR
City,State,Zip:	MENLO PARK, CA 94025

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BAY ASSOCIATES (Continued)**

**S101308616**

Facility Status:	Not reported
NPDES Number:	Not reported
Region:	Not reported
Agency Number:	Not reported
Regulatory Measure ID:	Not reported
Place ID:	Not reported
Order Number:	Not reported
WDID:	2 41NEC000047
Regulatory Measure Type:	Industrial
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	Not reported
Discharge Name:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Status:	Active
Status Date:	07/09/2015
Operator Name:	L3 Communications Corp
Operator Address:	130 Constitution Dr
Operator City:	Menlo Park
Operator State:	California
Operator Zip:	94025
NPDES as of 03/2018:	
NPDES Number:	CAS000001
Status:	Active
Agency Number:	0
Region:	2
Regulatory Measure ID:	182930
Order Number:	97-03-DWQ
Regulatory Measure Type:	Enrollee
Place ID:	Not reported
WDID:	2 41NEC000047
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	07/07/1997
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	L3 Communications Corp
Discharge Address:	130 Constitution Dr
Discharge City:	Menlo Park
Discharge State:	California
Discharge Zip:	94025
Received Date:	Not reported
Processed Date:	Not reported
Status:	Not reported
Status Date:	Not reported
Place Size:	Not reported
Place Size Unit:	Not reported
Contact:	Not reported
Contact Title:	Not reported
Contact Phone:	Not reported
Contact Phone Ext:	Not reported
Contact Email:	Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BAY ASSOCIATES (Continued)**

**S101308616**

Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported
Operator Contact:	Not reported
Operator Contact Title:	Not reported
Operator Contact Phone:	Not reported
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	Not reported
Operator Type:	Not reported
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	Not reported
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commercial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Not reported
Receiving Water Name:	Not reported
Certifier:	Not reported
Certifier Title:	Not reported
Certification Date:	Not reported
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported
NPDES Number:	Not reported
Status:	Not reported
Agency Number:	Not reported
Region:	2
Regulatory Measure ID:	182930
Order Number:	Not reported
Regulatory Measure Type:	Industrial
Place ID:	Not reported
WDID:	2 41NEC000047
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BAY ASSOCIATES (Continued)**

**S101308616**

Effective Date Of Regulatory Measure: Not reported  
Expiration Date Of Regulatory Measure: Not reported  
Termination Date Of Regulatory Measure: Not reported  
Discharge Name: Not reported  
Discharge Address: Not reported  
Discharge City: Not reported  
Discharge State: Not reported  
Discharge Zip: Not reported  
Received Date: 07/09/2015  
Processed Date: 07/07/1997  
Status: Active  
Status Date: 07/09/2015  
Place Size: 60443  
Place Size Unit: Acres  
Contact: Randy C Perkins  
Contact Title: EH&S / Facilities Manager  
Contact Phone: 650-326-9500  
Contact Phone Ext: 483  
Contact Email: randy.perkins@l-3com.com  
Operator Name: L3 Communications Corp  
Operator Address: 130 Constitution Dr  
Operator City: Menlo Park  
Operator State: California  
Operator Zip: 94025  
Operator Contact: Randy Perkins  
Operator Contact Title: EH&S / Facilities Manager  
Operator Contact Phone: 650-326-9500  
Operator Contact Phone Ext: 483  
Operator Contact Email: randy.perkins@L-3com.com  
Operator Type: Private Business  
Developer: Not reported  
Developer Address: Not reported  
Developer City: Not reported  
Developer State: California  
Developer Zip: Not reported  
Developer Contact: Not reported  
Developer Contact Title: Not reported  
Constype Linear Utility Ind: Not reported  
Emergency Phone: 650-823-6179  
Emergency Phone Ext: Not reported  
Constype Above Ground Ind: Not reported  
Constype Below Ground Ind: Not reported  
Constype Cable Line Ind: Not reported  
Constype Comm Line Ind: Not reported  
Constype Commercial Ind: Not reported  
Constype Electrical Line Ind: Not reported  
Constype Gas Line Ind: Not reported  
Constype Industrial Ind: Not reported  
Constype Other Description: Not reported  
Constype Other Ind: Not reported  
Constype Recons Ind: Not reported  
Constype Residential Ind: Not reported  
Constype Transport Ind: Not reported  
Constype Utility Description: Not reported  
Constype Utility Ind: Not reported  
Constype Water Sewer Ind: Not reported  
Dir Discharge Uswater Ind: N

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BAY ASSOCIATES (Continued)**

**S101308616**

Receiving Water Name: Municipal storm water system  
Certifier: Randy Perkins  
Certifier Title: EH&S / Facilities Manager  
Certification Date: 29-SEP-16  
Primary Sic: 3812-Search, Detection, Navigation, Guidance, Aeronautical, and Nautical Systems and Instruments  
Secondary Sic: Not reported  
Tertiary Sic: Not reported

**WDS:**

Name: L3 COMMUNICATIONS CORP  
Address: 1150 Chrysler Dr  
City: MENLO PARK  
Facility ID: San Francisco Bay 411013248  
Facility Type: Industrial - Facility that treats and/or disposes of liquid or semisolid wastes from any servicing, producing, manufacturing or processing operation of whatever nature, including mining, gravel washing, geothermal operations, air conditioning, ship building and repairing, oil production, storage and disposal operations, water pumping.  
Facility Status: Active - Any facility with a continuous or seasonal discharge that is under Waste Discharge Requirements.  
NPDES Number: CAS000001 The 1st 2 characters designate the state. The remaining 7 are assigned by the Regional Board  
Subregion: 2  
Facility Telephone: 6503269500  
Facility Contact: HEATHER ZINN  
Agency Name: L3 COMMUNICATIONS CORP  
Agency Address: 130 Constitution Dr  
Agency City,St,Zip: Menlo Park 940251141  
Agency Contact: HEATHER ZINN  
Agency Telephone: 6503269500  
Agency Type: ?  
SIC Code: 0  
SIC Code 2: Not reported  
Primary Waste Type: Not reported  
Primary Waste: Not reported  
Waste Type2: Not reported  
Waste2: Not reported  
Primary Waste Type: Not reported  
Secondary Waste: Not reported  
Secondary Waste Type: Not reported  
Design Flow: 0  
Baseline Flow: 0  
Reclamation: Not reported  
POTW: Not reported  
Treat To Water: Minor Threat to Water Quality. A violation of a regional board order should cause a relatively minor impairment of beneficial uses compared to a major or minor threat. Not: All nurds without a TTWQ will be considered a minor threat to water quality unless coded at a higher Level. A Zero (0) may be used to code those NURDS that are found to represent no threat to water quality.  
Complexity: Category C - Facilities having no waste treatment systems, such as cooling water dischargers or those who must comply through best management practices, facilities with passive waste treatment and disposal systems, such as septic systems with subsurface disposal, or

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BAY ASSOCIATES (Continued)**

**S101308616**

dischargers having waste storage systems with land disposal such as dairy waste ponds.

**CIWQS:**

Name: L3HARRIS RANDTRON ANTENNA SYSTEMS  
Address: 1150 CHRYSLER DR  
City,State,Zip: MENLO PARK, CA 94025  
Agency: L3 Communications Corp  
Agency Address: 130 Constitution Dr, Menlo Park, CA 94025  
Place/Project Type: Industrial - Search, Detection, Navigation, Guidance, Aeronautical, and Nautical Systems and Instruments  
SIC/NAICS: 3812  
Region: 2  
Program: INDSTW  
Regulatory Measure Status: Active  
Regulatory Measure Type: Storm water industrial  
Order Number: 2014-0057-DWQ  
WDID: 2 41NEC000047  
NPDES Number: CAS000001  
Adoption Date: Not reported  
Effective Date: 07/07/1997  
Termination Date: Not reported  
Expiration/Review Date: Not reported  
Design Flow: Not reported  
Major/Minor: Not reported  
Complexity: Not reported  
TTWQ: Not reported  
Enforcement Actions within 5 years: 0  
Violations within 5 years: 0  
Latitude: 37.48248  
Longitude: -122.17555

**CERS:**

Name: L3HARRIS RANDTRON ANTENNA SYSTEMS  
Address: 1150 CHRYSLER DR  
City,State,Zip: MENLO PARK, CA 94025  
Site ID: 535188  
CERS ID: 235759  
CERS Description: Industrial Facility Storm Water

**Affiliation:**

Affiliation Type Desc: Owner/Operator  
Entity Name: L3 Communications Corp  
Entity Title: Operator  
Affiliation Address: 130 Constitution Dr  
Affiliation City: Menlo Park  
Affiliation State: CA  
Affiliation Country: Not reported  
Affiliation Zip: 94025  
Affiliation Phone: ,

Name: BAY ASSOCIATES  
Address: 1150 CHRYSLER DRIVE  
City,State,Zip: MENLO PARK, CA 94025  
Site ID: 227605  
CERS ID: T0608100059

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BAY ASSOCIATES (Continued)**

**S101308616**

CERS Description: Leaking Underground Storage Tank Cleanup Site

Affiliation:  
Affiliation Type Desc: Regional Board Caseworker  
Entity Name: Regional Water Board - SAN FRANCISCO BAY RWQCB (REGION 2)  
Entity Title: Not reported  
Affiliation Address: 1515 CLAY ST SUITE 1400  
Affiliation City: OAKLAND  
Affiliation State: CA  
Affiliation Country: Not reported  
Affiliation Zip: Not reported  
Affiliation Phone: ,

Affiliation Type Desc: Regional Board Caseworker  
Entity Name: UUU - SAN FRANCISCO BAY RWQCB (REGION 2)  
Entity Title: Not reported  
Affiliation Address: 1515 CLAY ST SUITE 1400  
Affiliation City: OAKLAND  
Affiliation State: CA  
Affiliation Country: Not reported  
Affiliation Zip: Not reported  
Affiliation Phone: ,

164  
SE  
1/4-1/2  
0.449 mi.  
2372 ft.

**AMOROSO PROPERTY**  
**135 COMMONWEALTH DRIVE**  
**MENLO PARK, CA 94025**

**CA LUST**  
**CA CPS-SLIC**  
**CA San Mateo Co. BI**  
**CA CERS**

**S103950044**  
**N/A**

**Relative:**  
**Higher**  
**Actual:**  
**13 ft.**

**SAN MATEO CO. LUST:**  
Name: AMOROSO PROPERTY  
Address: 135 COMMONWEALTH DR  
City,State,Zip: MENLO PARK, CA  
Region: SAN MATEO  
Facility ID: 449083  
Facility Status: 9- Case Closed  
Global ID: SL0608132881  
APN Number: 055243260  
Case Type: MENLO PARK, CA  
EDR Link ID: MENLO PARK, CA

**CPS-SLIC:**  
Name: AMOROSO PROPERTY  
Address: 135 COMMONWEALTH DRIVE  
City,State,Zip: MENLO PARK, CA 94025  
Region: STATE  
**Facility Status: Completed - Case Closed**  
Status Date: 12/08/2009  
Global Id: SL0608132881  
Lead Agency: SAN MATEO COUNTY LOP  
Lead Agency Case Number: 449083  
Latitude: 37.4816865007213  
Longitude: -122.175393104553  
Case Type: Cleanup Program Site  
Case Worker: Not reported  
Local Agency: Not reported  
RB Case Number: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**AMOROSO PROPERTY (Continued)**

**S103950044**

File Location: Local Agency Warehouse  
Potential Media Affected: Under Investigation  
Potential Contaminants of Concern: Benzene  
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

San Mateo Co. BI:

Name: RAYCHEM CORPORATION  
Address: 135 COMMONWEALTH  
City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0004466  
Prog Element Code: GEN <1 TONS HAZ WASTE/YR  
Record Id: PR0011485  
Description: GEN <1 TONS HAZ WASTE/YR  
Facility Status: Inactive, non-billable  
Program Category: HAZARDOUS WASTE PROGRAM

CERS:

Name: AMOROSO PROPERTY  
Address: 135 COMMONWEALTH DRIVE  
City,State,Zip: MENLO PARK, CA 94025  
Site ID: 250628  
CERS ID: SL0608132881  
CERS Description: Cleanup Program Site

Affiliation:

Affiliation Type Desc: Regional Board Caseworker  
Entity Name: Regional Water Board - SAN FRANCISCO BAY RWQCB (REGION 2)  
Entity Title: Not reported  
Affiliation Address: 1515 CLAY ST SUITE 1400  
Affiliation City: OAKLAND  
Affiliation State: CA  
Affiliation Country: Not reported  
Affiliation Zip: Not reported  
Affiliation Phone: ,

**S165 KNAPPKINS**  
**SSE 4055 BOHANNON**  
**1/4-1/2 MENLO PARK, CA 94026**

**CA LUST S103892574**  
**CA HIST CORTESE N/A**  
**CA CERS**

**0.457 mi.**  
**2411 ft.**

**Site 1 of 4 in cluster S**

**Relative:**  
**Higher**  
**Actual:**  
**20 ft.**

LUST:  
Name: KNAPPKINS  
Address: 4055 BOHANNON  
City,State,Zip: MENLO PARK, CA 94025  
Lead Agency: SAN MATEO COUNTY LOP  
Case Type: LUST Cleanup Site  
Geo Track: [http://geotracker.waterboards.ca.gov/profile\\_report.asp?global\\_id=T0608100295](http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0608100295)  
Global Id: T0608100295  
Latitude: 37.480449  
Longitude: -122.17911  
Status: Completed - Case Closed  
Status Date: 06/30/1998

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**KNAPPKINS (Continued)**

**S103892574**

Case Worker: Not reported  
RB Case Number: 41-0310  
Local Agency: Not reported  
File Location: Local Agency  
Local Case Number: 440032  
Potential Media Affect: Other Groundwater (uses other than drinking water)  
Potential Contaminants of Concern: Gasoline  
Site History: Not reported

LUST:

Global Id: T0608100295  
Contact Type: Regional Board Caseworker  
Contact Name: Regional Water Board  
Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)  
Address: 1515 CLAY ST SUITE 1400  
City: OAKLAND  
Email: Not reported  
Phone Number: Not reported

LUST:

Global Id: T0608100295  
Action Type: Other  
Date: 04/18/1991  
Action: Leak Discovery

Global Id: T0608100295  
Action Type: Other  
Date: 09/05/1990  
Action: Leak Reported

Global Id: T0608100295  
Action Type: REMEDIATION  
Date: 01/20/1994  
Action: Pump & Treat (P&T) Groundwater

Global Id: T0608100295  
Action Type: REMEDIATION  
Date: 01/20/1994  
Action: Not reported

Global Id: T0608100295  
Action Type: REMEDIATION  
Date: 01/20/1994  
Action: Other (Use Description Field)

Global Id: T0608100295  
Action Type: ENFORCEMENT  
Date: 04/23/1991  
Action: Notice of Responsibility - #1

Global Id: T0608100295  
Action Type: ENFORCEMENT  
Date: 06/30/1998  
Action: Closure/No Further Action Letter

LUST:

Global Id: T0608100295

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**KNAPPKINS (Continued)**

**S103892574**

Status: Open - Case Begin Date  
Status Date: 09/05/1990  
  
Global Id: T0608100295  
Status: Completed - Case Closed  
Status Date: 06/30/1998

**HIST CORTESE:**

edr\_fname: KNAPPKINS  
edr\_fadd1: 4055 BOHANNON  
City,State,Zip: MENLO PARK, CA 94026  
Region: CORTESE  
Facility County Code: 41  
Reg By: LTNKA  
Reg Id: 41-0310

**CERS:**

Name: KNAPPKINS  
Address: 4055 BOHANNON  
City,State,Zip: MENLO PARK, CA 94025  
Site ID: 242249  
CERS ID: T0608100295  
CERS Description: Leaking Underground Storage Tank Cleanup Site

**Affiliation:**

Affiliation Type Desc: Regional Board Caseworker  
Entity Name: Regional Water Board - SAN FRANCISCO BAY RWQCB (REGION 2)  
Entity Title: Not reported  
Affiliation Address: 1515 CLAY ST SUITE 1400  
Affiliation City: OAKLAND  
Affiliation State: CA  
Affiliation Country: Not reported  
Affiliation Zip: Not reported  
Affiliation Phone: ,

Affiliation Type Desc: Regional Board Caseworker  
Entity Name: UUU - SAN FRANCISCO BAY RWQCB (REGION 2)  
Entity Title: Not reported  
Affiliation Address: 1515 CLAY ST SUITE 1400  
Affiliation City: OAKLAND  
Affiliation State: CA  
Affiliation Country: Not reported  
Affiliation Zip: Not reported  
Affiliation Phone: ,

---

**S166**      **KNAPPKINS**  
**SSE**      **4055 BOHANNON**  
**1/4-1/2**    **MENLO PARK, CA 94025**  
**0.457 mi.**  
**2411 ft.**    **Site 2 of 4 in cluster S**

**CA LUST**    **S101303111**  
**CA San Mateo Co. BI**    **N/A**  
**CA Cortese**

**Relative:**      SAN MATEO CO. LUST:  
**Higher**          Name:              KNAPPKINS  
**Actual:**          Address:            4055 BOHANNON DR  
**20 ft.**              City,State,Zip:    MENLO PARK, CA



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**KNAPPKINS (Continued)**

**S101303111**

Region: SAN MATEO  
Facility ID: 440032  
Facility Status: 9- Case Closed  
Global ID: T0608100295  
APN Number: 055253030  
Case Type: MENLO PARK, CA  
EDR Link ID: MENLO PARK, CA

**LUST REG 2:**

Region: 2  
Facility Id: Not reported  
Facility Status: Case Closed  
Case Number: 440032  
How Discovered: OM  
Leak Cause: Unknown  
Leak Source: Unknown  
Date Leak Confirmed: Not reported  
Oversight Program: LUST  
Prelim. Site Assesment Wokplan Submitted: Not reported  
Preliminary Site Assesment Began: Not reported  
Pollution Characterization Began: Not reported  
Pollution Remediation Plan Submitted: Not reported  
Date Remediation Action Underway: Not reported  
Date Post Remedial Action Monitoring Began: Not reported

**San Mateo Co. BI:**

Name: CRITCHFIELD  
Address: 4055 BOHANNON  
City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0022909  
Prog Element Code: GENERATES and RECYCLES WASTE OIL/SOLVENT  
Record Id: PR0025788  
Description: GENERATES & RECYCLES WASTE OIL/SOLVENT  
Facility Status: Inactive, non-billable  
Program Category: HAZARDOUS WASTE PROGRAM

Name: CRITCHFIELD  
Address: 4055 BOHANNON  
City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0022909  
Prog Element Code: STORMWATER ANNUAL INSPECTION FEE  
Record Id: PR0040611  
Description: STORMWATER ANNUAL FEE - INSP FREQ EVERY 2 YRS  
Facility Status: Inactive, non-billable  
Program Category: STORMWATER

Name: CRITCHFIELD  
Address: 4055 BOHANNON  
City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0022909  
Prog Element Code: UNDERGROUND TANK - GENERAL  
Record Id: PR0026274  
Description: UNDERGROUND TANK - GENERAL

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**KNAPPKINS (Continued)**

**S101303111**

Facility Status: Inactive, non-billable  
Program Category: UNDERGROUND TANK PROGRAM  
  
Name: CRITCHFIELD  
Address: 4055 BOHANNON  
City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0022909  
Prog Element Code: STORES HAZ MAT <219GAL,1,999LB, 879FT3  
Record Id: PR0028461  
Description: STORES HAZ MAT <219GAL,1,999LB, 879CF  
Facility Status: Inactive, non-billable  
Program Category: BUSINESS PLAN PROGRAM

**CORTESE:**

Name: KNAPPKINS  
Address: 4055 BOHANNON  
City,State,Zip: MENLO PARK, CA 94025  
Region: CORTESE  
Envirostor Id: Not reported  
Global ID: T0608100295  
Site/Facility Type: LUST CLEANUP SITE  
Cleanup Status: COMPLETED - CASE CLOSED  
Status Date: Not reported  
Site Code: Not reported  
Latitude: Not reported  
Longitude: Not reported  
Owner: Not reported  
Enf Type: Not reported  
Swat R: Not reported  
Flag: active  
Order No: Not reported  
Waste Discharge System No: Not reported  
Effective Date: Not reported  
Region 2: Not reported  
WID Id: Not reported  
Solid Waste Id No: Not reported  
Waste Management Uit Name: Not reported  
File Name: Active Open

167  
South  
1/4-1/2  
0.458 mi.  
2418 ft.

**INFORMIX**  
**3905 BOHANNON**  
**MENLO PARK, CA 94025**

**CA LUST**  
**CA San Mateo Co. BI**  
**CA Cortese**  
**CA CERS**

**S109285842**  
**N/A**

**Relative:**  
**Higher**  
**Actual:**  
**23 ft.**

**SAN MATEO CO. LUST:**  
Name: INFORMIX  
Address: 3905 BOHANNON DR  
City,State,Zip: MENLO PARK, CA  
Region: SAN MATEO  
Facility ID: 449060  
Facility Status: 9- Case Closed  
Global ID: T0608162345  
APN Number: 055253140  
Case Type: MENLO PARK, CA  
EDR Link ID: MENLO PARK, CA

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**INFORMIX (Continued)**

**S109285842**

LUST:

Name: INFORMIX  
Address: 3905 BOHANNON  
City,State,Zip: MENLO PARK, CA 94025  
Lead Agency: SAN MATEO COUNTY LOP  
Case Type: LUST Cleanup Site  
Geo Track: [http://geotracker.waterboards.ca.gov/profile\\_report.asp?global\\_id=T0608162345](http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0608162345)  
Global Id: T0608162345  
Latitude: 37.479163  
Longitude: -122.180127  
Status: Completed - Case Closed  
Status Date: 11/30/2004  
Case Worker: Not reported  
RB Case Number: Not reported  
Local Agency: Not reported  
File Location: Local Agency Warehouse  
Local Case Number: 449060  
Potential Media Affect: Other Groundwater (uses other than drinking water)  
Potential Contaminants of Concern: Diesel  
Site History: Not reported

LUST:

Global Id: T0608162345  
Contact Type: Regional Board Caseworker  
Contact Name: Regional Water Board  
Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)  
Address: 1515 CLAY ST SUITE 1400  
City: OAKLAND  
Email: Not reported  
Phone Number: Not reported

LUST:

Global Id: T0608162345  
Action Type: RESPONSE  
Date: 02/15/2004  
Action: Monitoring Report - Quarterly

Global Id: T0608162345  
Action Type: RESPONSE  
Date: 05/15/2003  
Action: Monitoring Report - Quarterly

Global Id: T0608162345  
Action Type: RESPONSE  
Date: 08/15/2003  
Action: Monitoring Report - Quarterly

Global Id: T0608162345  
Action Type: RESPONSE  
Date: 11/15/2003  
Action: Monitoring Report - Quarterly

Global Id: T0608162345  
Action Type: RESPONSE  
Date: 06/18/2003  
Action: Final Remedial Action Report / Corrective Action Report

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**INFORMIX (Continued)**

**S109285842**

Global Id:	T0608162345
Action Type:	RESPONSE
Date:	11/17/2004
Action:	Unknown
Global Id:	T0608162345
Action Type:	Other
Date:	12/21/1999
Action:	Leak Reported
Global Id:	T0608162345
Action Type:	REMEDIATION
Date:	01/08/2001
Action:	Pump & Treat (P&T) Groundwater
Global Id:	T0608162345
Action Type:	REMEDIATION
Date:	01/06/2003
Action:	Pump & Treat (P&T) Groundwater
Global Id:	T0608162345
Action Type:	REMEDIATION
Date:	01/08/2001
Action:	Excavation
Global Id:	T0608162345
Action Type:	REMEDIATION
Date:	12/22/1999
Action:	Excavation
Global Id:	T0608162345
Action Type:	REMEDIATION
Date:	01/06/2003
Action:	Excavation
Global Id:	T0608162345
Action Type:	ENFORCEMENT
Date:	01/25/2000
Action:	* Historical Enforcement - #1
Global Id:	T0608162345
Action Type:	ENFORCEMENT
Date:	11/30/2004
Action:	Closure/No Further Action Letter - #20041130
Global Id:	T0608162345
Action Type:	ENFORCEMENT
Date:	08/27/2001
Action:	Staff Letter - #20010827
Global Id:	T0608162345
Action Type:	ENFORCEMENT
Date:	12/18/2002
Action:	Staff Letter - #20021218
Global Id:	T0608162345
Action Type:	ENFORCEMENT

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**INFORMIX (Continued)**

**S109285842**

Date: 05/17/2004  
Action: Staff Letter - #20040517

**LUST:**

Global Id: T0608162345  
Status: Open - Case Begin Date  
Status Date: 12/21/1999

Global Id: T0608162345  
Status: Open - Remediation  
Status Date: 12/21/1999

Global Id: T0608162345  
Status: Open - Verification Monitoring  
Status Date: 05/20/2003

Global Id: T0608162345  
Status: Completed - Case Closed  
Status Date: 11/30/2004

**San Mateo Co. BI:**

Name: INFORMIX SOFTWARE  
Address: 3905 BOHANNON  
City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0023715  
Prog Element Code: STORMWATER ANNUAL INSPECTION FEE  
Record Id: PR0040623  
Description: STORMWATER ANNUAL FEE - INSP FREQ EVERY 2 YRS  
Facility Status: Inactive, non-billable  
Program Category: STORMWATER

Name: INFORMIX SOFTWARE  
Address: 3905 BOHANNON  
City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0023715  
Prog Element Code: STORES HAZ MAT <1,199GAL,9,999LB,4,799FT3  
Record Id: PR0027621  
Description: STORES HAZ MAT <1,199GAL,9,999LB,4,799CF  
Facility Status: Inactive, non-billable  
Program Category: BUSINESS PLAN PROGRAM

Name: INFORMIX SOFTWARE  
Address: 3905 BOHANNON  
City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0023715  
Prog Element Code: ABOVE GROUND TANK/SPCC  
Record Id: PR0035379  
Description: ABOVE GROUND TANK/SPCC  
Facility Status: Inactive, non-billable  
Program Category: ABOVE GROUND PETROLEUM STORAGE (AST)

Name: APRIA HEALTHCARE

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**INFORMIX (Continued)**

**S109285842**

Address: 3905 BOHANNON  
City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0055076  
Prog Element Code: STORES HAZ MAT <3,499GAL,27,999LB,13,999FT3  
Record Id: PR0075971  
Description: STORES HAZ MAT <3,499GAL,27,999LB,13,999CF  
Facility Status: Active, billable  
Program Category: BUSINESS PLAN PROGRAM

**CORTESE:**

Name: INFORMIX  
Address: 3905 BOHANNON  
City,State,Zip: MENLO PARK, CA 94025  
Region: CORTESE  
Envirostor Id: Not reported  
Global ID: T0608162345  
Site/Facility Type: LUST CLEANUP SITE  
Cleanup Status: COMPLETED - CASE CLOSED  
Status Date: Not reported  
Site Code: Not reported  
Latitude: Not reported  
Longitude: Not reported  
Owner: Not reported  
Enf Type: Not reported  
Swat R: Not reported  
Flag: active  
Order No: Not reported  
Waste Discharge System No: Not reported  
Effective Date: Not reported  
Region 2: Not reported  
WID Id: Not reported  
Solid Waste Id No: Not reported  
Waste Management Uit Name: Not reported  
File Name: Active Open

**CERS:**

Name: INFORMIX  
Address: 3905 BOHANNON  
City,State,Zip: MENLO PARK, CA 94025  
Site ID: 197741  
CERS ID: T0608162345  
CERS Description: Leaking Underground Storage Tank Cleanup Site

**Affiliation:**

Affiliation Type Desc: Regional Board Caseworker  
Entity Name: UUU - SAN FRANCISCO BAY RWQCB (REGION 2)  
Entity Title: Not reported  
Affiliation Address: 1515 CLAY ST SUITE 1400  
Affiliation City: OAKLAND  
Affiliation State: CA  
Affiliation Country: Not reported  
Affiliation Zip: Not reported  
Affiliation Phone: ,

Affiliation Type Desc: Regional Board Caseworker  
Entity Name: Regional Water Board - SAN FRANCISCO BAY RWQCB (REGION 2)

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**INFORMIX (Continued)**

**S109285842**

Entity Title: Not reported  
 Affiliation Address: 1515 CLAY ST SUITE 1400  
 Affiliation City: OAKLAND  
 Affiliation State: CA  
 Affiliation Country: Not reported  
 Affiliation Zip: Not reported  
 Affiliation Phone: ,

**S168**  
**SSE**  
 1/4-1/2  
 0.460 mi.  
 2428 ft.

**PHARM CHEM LABORATORIES**  
**3925 BOHANNON DRIVE**  
**MENLO PARK, CA 94025**  
**Site 3 of 4 in cluster S**

**RCRA-SQG** 1000364681  
**CA CPS-SLIC** CAD053996807  
**FINDS**  
**ECHO**  
**CA San Mateo Co. BI**

**Relative:**  
**Higher**  
**Actual:**  
**21 ft.**

RCRA Listings:  
 Date Form Received by Agency: 19960901  
 Handler Name: PHARM CHEM LABORATORIES  
 Handler Address: 3925 BOHANNON DRIVE  
 Handler City,State,Zip: MENLO PARK, CA 94025  
 EPA ID: CAD053996807  
 Contact Name: Not reported  
 Contact Address: Not reported  
 Contact City,State,Zip: Not reported  
 Contact Telephone: Not reported  
 Contact Fax: Not reported  
 Contact Email: Not reported  
 Contact Title: Not reported  
 EPA Region: 09  
 Land Type: Not reported  
 Federal Waste Generator Description: Small Quantity Generator  
 Non-Notifier: Not reported  
 Biennial Report Cycle: Not reported  
 Accessibility: Not reported  
 Active Site Indicator: Handler Activities  
 State District Owner: CA  
 State District: 2  
 Mailing Address: BOHANNON DRIVE  
 Mailing City,State,Zip: MENLO PARK, CA 94025  
 Owner Name: JAMES A OSTENGA PHD  
 Owner Type: Private  
 Operator Name: NOT REQUIRED  
 Operator Type: Private  
 Short-Term Generator Activity: No  
 Importer Activity: No  
 Mixed Waste Generator: No  
 Transporter Activity: No  
 Transfer Facility Activity: No  
 Recycler Activity with Storage: No  
 Small Quantity On-Site Burner Exemption: No  
 Smelting Melting and Refining Furnace Exemption: No  
 Underground Injection Control: No  
 Off-Site Waste Receipt: No  
 Universal Waste Indicator: No  
 Universal Waste Destination Facility: No  
 Federal Universal Waste: No  
 Active Site Fed-Reg Treatment Storage and Disposal Facility: Not reported  
 Active Site Converter Treatment storage and Disposal Facility: Not reported

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**PHARM CHEM LABORATORIES (Continued)**

**1000364681**

Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDs Where RCRA CA has Been Imposed Universe:	No
TSDs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSD Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20060905
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name: JAMES A OSTENGA PHD	
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	NOT REQUIRED
Owner/Operator City,State,Zip:	NOT REQUIRED, ME 99999
Owner/Operator Telephone:	415-555-1212
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name: NOT REQUIRED	



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**PHARM CHEM LABORATORIES (Continued)**

**1000364681**

Legal Status: Private  
Date Became Current: Not reported  
Date Ended Current: Not reported  
Owner/Operator Address: NOT REQUIRED  
Owner/Operator City,State,Zip: NOT REQUIRED, ME 99999  
Owner/Operator Telephone: 415-555-1212  
Owner/Operator Telephone Ext: Not reported  
Owner/Operator Fax: Not reported  
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator  
Owner/Operator Name: NOT REQUIRED  
Legal Status: Private  
Date Became Current: Not reported  
Date Ended Current: Not reported  
Owner/Operator Address: NOT REQUIRED  
Owner/Operator City,State,Zip: NOT REQUIRED, ME 99999  
Owner/Operator Telephone: 415-555-1212  
Owner/Operator Telephone Ext: Not reported  
Owner/Operator Fax: Not reported  
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner  
Owner/Operator Name: JAMES A OSTENGA PHD  
Legal Status: Private  
Date Became Current: Not reported  
Date Ended Current: Not reported  
Owner/Operator Address: NOT REQUIRED  
Owner/Operator City,State,Zip: NOT REQUIRED, ME 99999  
Owner/Operator Telephone: 415-555-1212  
Owner/Operator Telephone Ext: Not reported  
Owner/Operator Fax: Not reported  
Owner/Operator Email: Not reported

Historic Generators:

Receive Date: 19960901  
Handler Name: PHARM CHEM LABORATORIES  
Federal Waste Generator Description: Large Quantity Generator  
State District Owner: CA  
Large Quantity Handler of Universal Waste: No  
Recognized Trader Importer: No  
Recognized Trader Exporter: No  
Spent Lead Acid Battery Importer: No  
Spent Lead Acid Battery Exporter: No  
Current Record: No  
Non Storage Recycler Activity: Not reported  
Electronic Manifest Broker: Not reported

Receive Date: 19960901  
Handler Name: PHARM CHEM LABORATORIES  
Federal Waste Generator Description: Small Quantity Generator  
State District Owner: CA  
Large Quantity Handler of Universal Waste: No  
Recognized Trader Importer: No  
Recognized Trader Exporter: No  
Spent Lead Acid Battery Importer: No  
Spent Lead Acid Battery Exporter: No

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**PHARM CHEM LABORATORIES (Continued)**

**1000364681**

Current Record: Yes  
Non Storage Recycler Activity: Not reported  
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:  
NAICS Codes: No NAICS Codes Found

Facility Has Received Notices of Violations:  
Violations: No Violations Found

Evaluation Action Summary:  
Evaluations: No Evaluations Found

**CPS-SLIC:**

Name: PHARM CHEM LABS INC  
Address: 3925 BOHANNON DR  
City,State,Zip: MENLO PARK, CA  
Region: STATE  
**Facility Status: Completed - Case Closed**  
Status Date: 05/11/2009  
Global Id: SLT2O096102  
Lead Agency: SAN FRANCISCO BAY RWQCB (REGION 2)  
Lead Agency Case Number: Not reported  
Latitude: 37.4788743686313  
Longitude: -122.179555387558  
Case Type: Cleanup Program Site  
Case Worker: UUU  
Local Agency: Not reported  
RB Case Number: 41S0045  
File Location: Not reported  
Potential Media Affected: Not reported  
Potential Contaminants of Concern: Not reported  
Site History: Not reported

[Click here to access the California GeoTracker records for this facility:](#)

**FINDS:**

Registry ID: 110009530766

[Click Here for FRS Facility Detail Report:](#)

**Environmental Interest/Information System:**

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.  
STATE MASTER

[Click this hyperlink](#) while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

**ECHO:**

Envid: 1000364681

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**PHARM CHEM LABORATORIES (Continued)**

**1000364681**

Registry ID: 110009530766  
DFR URL: <http://echo.epa.gov/detailed-facility-report?fid=110009530766>  
Name: PHARM CHEM LABORATORIES  
Address: 3925 BOHANNON DRIVE  
City,State,Zip: MENLO PARK, CA 94025

San Mateo Co. BI:

Name: SCRIBNER GRAPHIC PRESS  
Address: 3925 BOHANNON  
City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0022633  
Prog Element Code: GENERATES and RECYCLES WASTE OIL/SOLVENT  
Record Id: PR0025064  
Description: GENERATES & RECYCLES WASTE OIL/SOLVENT  
Facility Status: Inactive, non-billable  
Program Category: HAZARDOUS WASTE PROGRAM

Name: SCRIBNER GRAPHIC PRESS  
Address: 3925 BOHANNON  
City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0022633  
Prog Element Code: STORES HAZ MAT <219GAL,1,999LB, 879FT3  
Record Id: PR0025063  
Description: STORES HAZ MAT <219GAL,1,999LB, 879CF  
Facility Status: Inactive, non-billable  
Program Category: BUSINESS PLAN PROGRAM

Name: LINOTEXT  
Address: 3925 BOHANNON  
City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0025636  
Prog Element Code: GEN 1-5 TONS HAZ WASTE/YR  
Record Id: PR0034573  
Description: GEN 1-5 TONS HAZ WASTE/YR  
Facility Status: Inactive, non-billable  
Program Category: HAZARDOUS WASTE PROGRAM

Name: LINOTEXT  
Address: 3925 BOHANNON  
City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0025636  
Prog Element Code: STORMWATER ANNUAL INSPECTION FEE  
Record Id: PR0043305  
Description: STORMWATER ANNUAL FEE - INSP FREQ EVERY 2 YRS  
Facility Status: Inactive, non-billable  
Program Category: STORMWATER

Name: LINOTEXT  
Address: 3925 BOHANNON  
City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0025636  
Prog Element Code: STORES HAZ MAT <219GAL,1,999LB, 879FT3

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**PHARM CHEM LABORATORIES (Continued)**

**1000364681**

Record Id: PR0034572  
Description: STORES HAZ MAT <219GAL,1,999LB, 879CF  
Facility Status: Inactive, non-billable  
Program Category: BUSINESS PLAN PROGRAM

**S169**  
**SSE**  
**1/4-1/2**  
**0.460 mi.**  
**2428 ft.**

**PHARM CHEM LABS INC**  
**3925 BOHANNON DR**  
**MENLO PARK, CA 94025**

**CA LUST S102002478**  
**CA CPS-SLIC N/A**  
**CA CERS**

**Site 4 of 4 in cluster S**

**Relative:**  
**Higher**  
**Actual:**  
**21 ft.**

LUST REG 2:  
Region: 2  
Facility Id: 41S0045  
Facility Status: Post remedial action monitoring  
Case Number: Not reported  
How Discovered: Tank Closure  
Leak Cause: UNK  
Leak Source: UNK  
Date Leak Confirmed: Not reported  
Oversight Program: LUST  
Prelim. Site Assesment Wokplan Submitted: Not reported  
Preliminary Site Assesment Began: Not reported  
Pollution Characterization Began: Not reported  
Pollution Remediation Plan Submitted: Not reported  
Date Remediation Action Underway: Not reported  
Date Post Remedial Action Monitoring Began: 4/25/1991

SLIC REG 2:  
Region: 2  
Facility ID: SLT2O096102  
Facility Status: Leak being confirmed  
Date Closed: Not reported  
Local Case #: Not reported  
How Discovered: Not reported  
Leak Cause: Not reported  
Leak Source: Not reported  
Date Confirmed: Not reported  
Date Prelim Site Assmnt Workplan Submitted: Not reported  
Date Preliminary Site Assessment Began: Not reported  
Date Pollution Characterization Began: Not reported  
Date Remediation Plan Submitted: Not reported  
Date Remedial Action Underway: Not reported  
Date Post Remedial Action Monitoring Began: Not reported

CERS:  
Name: PHARM CHEM LABS INC  
Address: 3925 BOHANNON DR  
City,State,Zip: MENLO PARK, CA  
Site ID: 256429  
CERS ID: SLT2O096102  
CERS Description: Cleanup Program Site

Affiliation:  
Affiliation Type Desc: Regional Board Caseworker  
Entity Name: Regional Water Board - SAN FRANCISCO BAY RWQCB (REGION 2)  
Entity Title: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**PHARM CHEM LABS INC (Continued)**

**S102002478**

Affiliation Address: 1515 CLAY ST SUITE 1400  
Affiliation City: OAKLAND  
Affiliation State: CA  
Affiliation Country: Not reported  
Affiliation Zip: Not reported  
Affiliation Phone: ,

170  
South  
1/4-1/2  
0.464 mi.  
2449 ft.

**U.S. POSTAL SERVICE**  
**3875 BOHANNON**  
**MENLO PARK, CA 94025**

**CA LUST**  
**CA San Mateo Co. BI**  
**CA Cortese**  
**CA HIST CORTESE**  
**CA CERS**

**S101438312**  
**N/A**

**Relative:**  
**Higher**  
**Actual:**  
**23 ft.**

**SAN MATEO CO. LUST:**  
Name: U.S. POSTAL SERVICE  
Address: 3875 BOHANNON DR  
City,State,Zip: MENLO PARK, CA  
Region: SAN MATEO  
Facility ID: 440039  
Facility Status: 9- Case Closed  
Global ID: T0608100327  
APN Number: 055251120  
Case Type: MENLO PARK, CA  
EDR Link ID: MENLO PARK, CA

**LUST:**

Name: U.S. POSTAL SERVICE  
Address: 3875 BOHANNON  
City,State,Zip: MENLO PARK, CA 94025  
Lead Agency: SAN MATEO COUNTY LOP  
Case Type: LUST Cleanup Site  
Geo Track: [http://geotracker.waterboards.ca.gov/profile\\_report.asp?global\\_id=T0608100327](http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0608100327)  
Global Id: T0608100327  
Latitude: 37.4787729  
Longitude: -122.184012  
Status: Completed - Case Closed  
Status Date: 10/15/1999  
Case Worker: Not reported  
RB Case Number: 41-0342  
Local Agency: Not reported  
File Location: Local Agency  
Local Case Number: 440039  
Potential Media Affect: Other Groundwater (uses other than drinking water)  
Potential Contaminants of Concern: Gasoline  
Site History: Not reported

**LUST:**

Global Id: T0608100327  
Contact Type: Regional Board Caseworker  
Contact Name: Regional Water Board  
Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)  
Address: 1515 CLAY ST SUITE 1400  
City: OAKLAND  
Email: Not reported  
Phone Number: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**U.S. POSTAL SERVICE (Continued)**

**S101438312**

LUST:

Global Id: T0608100327  
Action Type: Other  
Date: 03/24/1992  
Action: Leak Discovery

Global Id: T0608100327  
Action Type: Other  
Date: 02/13/1992  
Action: Leak Reported

Global Id: T0608100327  
Action Type: ENFORCEMENT  
Date: 02/18/1992  
Action: Notice of Responsibility - #1

LUST:

Global Id: T0608100327  
Status: Open - Case Begin Date  
Status Date: 02/13/1992

Global Id: T0608100327  
Status: Completed - Case Closed  
Status Date: 10/15/1999

LUST REG 2:

Region: 2  
Facility Id: Not reported  
Facility Status: Case Closed  
Case Number: 440039  
How Discovered: OM  
Leak Cause: Unknown  
Leak Source: Unknown  
Date Leak Confirmed: Not reported  
Oversight Program: LUST  
Prelim. Site Assessment Workplan Submitted: Not reported  
Preliminary Site Assessment Began: Not reported  
Pollution Characterization Began: Not reported  
Pollution Remediation Plan Submitted: Not reported  
Date Remediation Action Underway: Not reported  
Date Post Remedial Action Monitoring Began: Not reported

San Mateo Co. BI:

Name: US POSTAL SERVICE  
Address: 3875 BOHANNON  
City, State, Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0017575  
Prog Element Code: UNDERGROUND TANK - GENERAL  
Record Id: PR0022531  
Description: UNDERGROUND TANK - GENERAL  
Facility Status: Inactive, non-billable  
Program Category: UNDERGROUND TANK PROGRAM

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**U.S. POSTAL SERVICE (Continued)**

**S101438312**

Name: US POSTAL SERVICE  
Address: 3875 BOHANNON  
City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0017575  
Prog Element Code: STORES MV FUELS OR WASTE ONLY  
Record Id: PR0023469  
Description: STORES MV FUELS OR WASTE ONLY  
Facility Status: Inactive, non-billable  
Program Category: BUSINESS PLAN PROGRAM

**CORTESE:**

Name: U.S. POSTAL SERVICE  
Address: 3875 BOHANNON  
City,State,Zip: MENLO PARK, CA 94025  
Region: CORTESE  
Envirostor Id: Not reported  
Global ID: T0608100327  
Site/Facility Type: LUST CLEANUP SITE  
Cleanup Status: COMPLETED - CASE CLOSED  
Status Date: Not reported  
Site Code: Not reported  
Latitude: Not reported  
Longitude: Not reported  
Owner: Not reported  
Enf Type: Not reported  
Swat R: Not reported  
Flag: active  
Order No: Not reported  
Waste Discharge System No: Not reported  
Effective Date: Not reported  
Region 2: Not reported  
WID Id: Not reported  
Solid Waste Id No: Not reported  
Waste Management Uit Name: Not reported  
File Name: Active Open

**HIST CORTESE:**

edr\_fname: US POSTAL SERVICE  
edr\_fadd1: 3875 BOHANNON  
City,State,Zip: MENLO PARK, CA 94025  
Region: CORTESE  
Facility County Code: 41  
Reg By: LTNKA  
Reg Id: 41-0342

**CERS:**

Name: U.S. POSTAL SERVICE  
Address: 3875 BOHANNON  
City,State,Zip: MENLO PARK, CA 94025  
Site ID: 229257  
CERS ID: T0608100327  
CERS Description: Leaking Underground Storage Tank Cleanup Site

**Affiliation:**

Affiliation Type Desc: Regional Board Caseworker

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**U.S. POSTAL SERVICE (Continued)**

**S101438312**

Entity Name: UUU - SAN FRANCISCO BAY RWQCB (REGION 2)  
Entity Title: Not reported  
Affiliation Address: 1515 CLAY ST SUITE 1400  
Affiliation City: OAKLAND  
Affiliation State: CA  
Affiliation Country: Not reported  
Affiliation Zip: Not reported  
Affiliation Phone: ,

Affiliation Type Desc: Regional Board Caseworker  
Entity Name: Regional Water Board - SAN FRANCISCO BAY RWQCB (REGION 2)  
Entity Title: Not reported  
Affiliation Address: 1515 CLAY ST SUITE 1400  
Affiliation City: OAKLAND  
Affiliation State: CA  
Affiliation Country: Not reported  
Affiliation Zip: Not reported  
Affiliation Phone: ,

T171  
SSW  
1/4-1/2  
0.473 mi.  
2496 ft.

**CHEVRON STATION#90754**  
**3805 BOHANNON DR**  
**MENLO PARK, CA 94025**

**Site 1 of 2 in cluster T**

**CA LUST**  
**CA SWEEPS UST**  
**CA San Mateo Co. BI**  
**CA HIST CORTESE**

**S100622903**  
**N/A**

**Relative:**  
**Higher**  
**Actual:**  
**22 ft.**

**SAN MATEO CO. LUST:**  
Name: CHEVRON 9-0754  
Address: 3805 BOHANNON DR  
City,State,Zip: MENLO PARK, CA  
Region: SAN MATEO  
Facility ID: 440052  
Facility Status: 9- Case Closed  
Global ID: T0608100997  
APN Number: 055251340, 055251280  
Case Type: MENLO PARK, CA  
EDR Link ID: MENLO PARK, CA

**LUST:**

Name: CHEVRON 9-0754  
Address: 3805 BOHANNON  
City,State,Zip: MENLO PARK, CA 94025  
Lead Agency: SAN MATEO COUNTY LOP  
Case Type: LUST Cleanup Site  
Geo Track: [http://geotracker.waterboards.ca.gov/profile\\_report.asp?global\\_id=T0608100997](http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0608100997)  
Global Id: T0608100997  
Latitude: 37.4787563  
Longitude: -122.1854144  
Status: Completed - Case Closed  
Status Date: 06/15/2004  
Case Worker: Not reported  
RB Case Number: 41-1086  
Local Agency: Not reported  
File Location: Local Agency  
Local Case Number: 440052  
Potential Media Affect: Other Groundwater (uses other than drinking water)  
Potential Contaminants of Concern: Gasoline



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CHEVRON STATION#90754 (Continued)**

**S100622903**

Site History: Not reported

LUST:  
Global Id: T0608100997  
Contact Type: Regional Board Caseworker  
Contact Name: Regional Water Board  
Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)  
Address: 1515 CLAY ST SUITE 1400  
City: OAKLAND  
Email: Not reported  
Phone Number: Not reported

LUST:  
Global Id: T0608100997  
Action Type: ENFORCEMENT  
Date: 06/26/2001  
Action: Staff Letter - #20010626

Global Id: T0608100997  
Action Type: Other  
Date: 03/31/1998  
Action: Leak Reported

Global Id: T0608100997  
Action Type: RESPONSE  
Date: 05/15/2004  
Action: Monitoring Report - Quarterly

Global Id: T0608100997  
Action Type: RESPONSE  
Date: 11/15/2003  
Action: Monitoring Report - Quarterly

Global Id: T0608100997  
Action Type: RESPONSE  
Date: 05/15/2003  
Action: Monitoring Report - Quarterly

Global Id: T0608100997  
Action Type: RESPONSE  
Date: 08/15/2003  
Action: Monitoring Report - Quarterly

Global Id: T0608100997  
Action Type: RESPONSE  
Date: 02/15/2004  
Action: Monitoring Report - Quarterly

Global Id: T0608100997  
Action Type: RESPONSE  
Date: 12/15/2003  
Action: Other Report / Document

Global Id: T0608100997  
Action Type: RESPONSE  
Date: 02/15/2004  
Action: Soil and Water Investigation Report

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CHEVRON STATION#90754 (Continued)**

**S100622903**

Global Id: T0608100997  
Action Type: RESPONSE  
Date: 08/30/2004  
Action: Unknown

Global Id: T0608100997  
Action Type: ENFORCEMENT  
Date: 12/04/2002  
Action: Staff Letter - #20021204

Global Id: T0608100997  
Action Type: ENFORCEMENT  
Date: 06/15/2004  
Action: Closure/No Further Action Letter - #20040615

Global Id: T0608100997  
Action Type: ENFORCEMENT  
Date: 04/06/1998  
Action: Notice of Responsibility - #1

Global Id: T0608100997  
Action Type: ENFORCEMENT  
Date: 04/14/2004  
Action: Staff Letter - #20040414

Global Id: T0608100997  
Action Type: ENFORCEMENT  
Date: 10/02/2003  
Action: Staff Letter - #20031002

**LUST:**

Global Id: T0608100997  
Status: Open - Case Begin Date  
Status Date: 03/31/1998

Global Id: T0608100997  
Status: Open - Site Assessment  
Status Date: 03/31/1998

Global Id: T0608100997  
Status: Open - Verification Monitoring  
Status Date: 02/19/2004

Global Id: T0608100997  
Status: Completed - Case Closed  
Status Date: 06/15/2004

**SWEEPS UST:**

Name: CHEVRON STATION#90754  
Address: 3805 BOHANNON DR  
City: MENLO PARK  
Status: Active  
Comp Number: 440019  
Number: 1  
Board Of Equalization: 44-025353

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CHEVRON STATION#90754 (Continued)**

**S100622903**

Referral Date: 01-28-94  
Action Date: 01-28-94  
Created Date: 10-13-88  
Owner Tank Id: Not reported  
SWRCB Tank Id: 41-000-440019-000001  
Tank Status: A  
Capacity: 10000  
Active Date: 05-18-93  
Tank Use: M.V. FUEL  
STG: P  
Content: REG UNLEADED  
Number Of Tanks: 4

Name: CHEVRON STATION#90754  
Address: 3805 BOHANNON DR  
City: MENLO PARK  
Status: Active  
Comp Number: 440019  
Number: 1  
Board Of Equalization: 44-025353  
Referral Date: 01-28-94  
Action Date: 01-28-94  
Created Date: 10-13-88  
Owner Tank Id: Not reported  
SWRCB Tank Id: 41-000-440019-000002  
Tank Status: A  
Capacity: 10000  
Active Date: 05-18-93  
Tank Use: M.V. FUEL  
STG: P  
Content: PRM UNLEADED  
Number Of Tanks: Not reported

Name: CHEVRON STATION#90754  
Address: 3805 BOHANNON DR  
City: MENLO PARK  
Status: Active  
Comp Number: 440019  
Number: 1  
Board Of Equalization: 44-025353  
Referral Date: 01-28-94  
Action Date: 01-28-94  
Created Date: 10-13-88  
Owner Tank Id: Not reported  
SWRCB Tank Id: 41-000-440019-000003  
Tank Status: A  
Capacity: 10000  
Active Date: 05-18-93  
Tank Use: M.V. FUEL  
STG: P  
Content: PLUS UNLEADED  
Number Of Tanks: Not reported

Name: CHEVRON STATION#90754  
Address: 3805 BOHANNON DR  
City: MENLO PARK  
Status: Active

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CHEVRON STATION#90754 (Continued)**

**S100622903**

Comp Number: 440019  
Number: 1  
Board Of Equalization: 44-025353  
Referral Date: 01-28-94  
Action Date: 01-28-94  
Created Date: 10-13-88  
Owner Tank Id: Not reported  
SWRCB Tank Id: 41-000-440019-000004  
Tank Status: A  
Capacity: 10000  
Active Date: 05-18-93  
Tank Use: OIL  
STG: W  
Content: LEADED GASOL  
Number Of Tanks: Not reported

San Mateo Co. BI:

Name: MARSH REED CHEVRON SERVICE  
Address: 3805 BOHANNON  
City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0014486  
Prog Element Code: GENERATES and RECYCLES WASTE OIL/SOLVENT  
Record Id: PR0024903  
Description: GENERATES & RECYCLES WASTE OIL/SOLVENT  
Facility Status: Inactive, non-billable  
Program Category: HAZARDOUS WASTE PROGRAM

Name: MARSH REED CHEVRON SERVICE  
Address: 3805 BOHANNON  
City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0014486  
Prog Element Code: STORES HAZ MAT <219GAL,1,999LB, 879FT3  
Record Id: PR0024904  
Description: STORES HAZ MAT <219GAL,1,999LB, 879CF  
Facility Status: Inactive, non-billable  
Program Category: BUSINESS PLAN PROGRAM

Name: CHEVRON STATION #0754  
Address: 3805 BOHANNON  
City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0017570  
Prog Element Code: STORES MV FUELS OR WASTE ONLY  
Record Id: PR0004102  
Description: STORES MV FUELS OR WASTE ONLY  
Facility Status: Inactive, non-billable  
Program Category: BUSINESS PLAN PROGRAM

Name: CHEVRON STATION #0754  
Address: 3805 BOHANNON  
City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0017570  
Prog Element Code: UNDERGROUND TANK - GENERAL  
Record Id: PR0025278

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CHEVRON STATION#90754 (Continued)**

**S100622903**

Description: UNDERGROUND TANK - GENERAL  
Facility Status: Inactive, non-billable  
Program Category: UNDERGROUND TANK PROGRAM  
  
Name: CHEVRON STATION #0754  
Address: 3805 BOHANNON  
City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0017570  
Prog Element Code: GENERATES and RECYCLES WASTE OIL/SOLVENT  
Record Id: PR0028311  
Description: GENERATES & RECYCLES WASTE OIL/SOLVENT  
Facility Status: Inactive, non-billable  
Program Category: HAZARDOUS WASTE PROGRAM

HIST CORTESE:  
edr\_fname: CHEVRON  
edr\_fadd1: 3805 BOHANNON  
City,State,Zip: MENLO PARK, CA 94025  
Region: CORTESE  
Facility County Code: 41  
Reg By: LTNKA  
Reg Id: 41-1086

**T172**  
**SSW**  
**1/4-1/2**  
**0.478 mi.**  
**2525 ft.**

**CHEVRON 9-0754**  
**3805 BOHANNON**  
**MENLO PARK, CA 94025**  
**Site 2 of 2 in cluster T**

**CA LUST** **S105030502**  
**CA Cortese** **N/A**  
**CA CERS**

**Relative:**  
**Higher**  
**Actual:**  
**22 ft.**

LUST REG 2:  
Region: 2  
Facility Id: Not reported  
Facility Status: Case Closed  
Case Number: 440052  
How Discovered: OM  
Leak Cause: Unknown  
Leak Source: Unknown  
Date Leak Confirmed: Not reported  
Oversight Program: LUST  
Prelim. Site Assessment Workplan Submitted: Not reported  
Preliminary Site Assessment Began: Not reported  
Pollution Characterization Began: 1/1/1965  
Pollution Remediation Plan Submitted: Not reported  
Date Remediation Action Underway: Not reported  
Date Post Remedial Action Monitoring Began: 2/19/2004

CORTESE:  
Name: CHEVRON 9-0754  
Address: 3805 BOHANNON  
City,State,Zip: MENLO PARK, CA 94025  
Region: CORTESE  
Envirostor Id: Not reported  
Global ID: T0608100997  
Site/Facility Type: LUST CLEANUP SITE  
Cleanup Status: COMPLETED - CASE CLOSED  
Status Date: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CHEVRON 9-0754 (Continued)**

**S105030502**

Site Code: Not reported  
Latitude: Not reported  
Longitude: Not reported  
Owner: Not reported  
Enf Type: Not reported  
Swat R: Not reported  
Flag: active  
Order No: Not reported  
Waste Discharge System No: Not reported  
Effective Date: Not reported  
Region 2: Not reported  
WID Id: Not reported  
Solid Waste Id No: Not reported  
Waste Management Uit Name: Not reported  
File Name: Active Open

**CERS:**

Name: CHEVRON 9-0754  
Address: 3805 BOHANNON  
City,State,Zip: MENLO PARK, CA 94025  
Site ID: 252222  
CERS ID: T0608100997  
CERS Description: Leaking Underground Storage Tank Cleanup Site

**Affiliation:**

Affiliation Type Desc: Regional Board Caseworker  
Entity Name: UUU - SAN FRANCISCO BAY RWQCB (REGION 2)  
Entity Title: Not reported  
Affiliation Address: 1515 CLAY ST SUITE 1400  
Affiliation City: OAKLAND  
Affiliation State: CA  
Affiliation Country: Not reported  
Affiliation Zip: Not reported  
Affiliation Phone: ,

Affiliation Type Desc: Regional Board Caseworker  
Entity Name: Regional Water Board - SAN FRANCISCO BAY RWQCB (REGION 2)  
Entity Title: Not reported  
Affiliation Address: 1515 CLAY ST SUITE 1400  
Affiliation City: OAKLAND  
Affiliation State: CA  
Affiliation Country: Not reported  
Affiliation Zip: Not reported  
Affiliation Phone: ,

**U173**  
**ESE**  
**1/4-1/2**  
**0.495 mi.**  
**2615 ft.**

**MENLO UPTOWN**  
**141 JEFFERSON DRIVE (AND 172 - 188 CONSTITUTION DRIVE)**  
**MENLO PARK, CA 94025**  
**Site 1 of 3 in cluster U**

**CA CPS-SLIC** **S126254776**  
**N/A**

**Relative:**  
**Higher**

**CPS-SLIC:**  
Name: MENLO UPTOWN  
Address: 141 JEFFERSON DRIVE (AND 172 - 188 CONSTITUTION DRIVE)  
City,State,Zip: MENLO PARK, CA 94025  
Region: STATE  
**Facility Status: Open - Remediation**

**Actual:**  
**11 ft.**

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**MENLO UPTOWN (Continued)**

**S126254776**

Status Date: 08/16/2021  
 Global Id: T10000014570  
 Lead Agency: SAN FRANCISCO BAY RWQCB (REGION 2)  
 Lead Agency Case Number: Not reported  
 Latitude: 37.48314  
 Longitude: -122.17345  
 Case Type: Cleanup Program Site  
 Case Worker: KAW  
 Local Agency: Not reported  
 RB Case Number: 41S0221  
 File Location: All Files are on GeoTracker or in the Local Agency Database  
 Potential Media Affected: Other Groundwater (uses other than drinking water), Soil Vapor  
 Potential Contaminants of Concern: Dichloroethene (DCE), Other Chlorinated Hydrocarbons, Other Solvent or Non-Petroleum Hydrocarbon, Tetrachloroethylene (PCE), Other Metal, Waste Oil / Motor / Hydraulic / Lubricating  
 Site History: The site is comprised of 3 parcels at 141 Jefferson Drive and 172 - 188 Constitution Drive which have been used for various commercial and industrial shops since the 1960s. Groundwater and soil vapor are contaminated with volatile organic compounds including chlorinated solvents. As of 2020, the 3 parcels are planned for redevelopment into 3 new residential buildings: one building would be seven stories with ground-floor parking garage and 6 levels of apartments; one building would be seven stories with ground-floor parking garage, ground-floor retail space, and 6 levels of apartments; and the third building would be made of up six townhome buildings that would each contain seven three-story units. Volatile organic compounds, including trichloroethene, exceed environmental screening levels (ESLs) in groundwater and soil vapor in the eastern-most portion of the Site. The 3 eastern-most townhome buildings, which are planned to be built in the area of the groundwater and soil vapor ESL exceedances, will be built with vapor intrusion mitigation systems (VIMS). Long-term operation, maintenance, and monitoring may be needed, in accordance with VIMS guidance.

[Click here to access the California GeoTracker records for this facility:](#)

**U174**  
**ESE**  
**1/4-1/2**  
**0.495 mi.**  
**2615 ft.**

**MENLO UPTOWN**  
**141 JEFFERSON DRIVE (AND 172 - 188 CONSTITUTION DRIVE)**  
**MENLO PARK, CA 94025**

**CA BROWNFIELDS S126285294**  
**N/A**

**Site 2 of 3 in cluster U**

**Relative:**  
**Higher**  
**Actual:**  
**11 ft.**

**BROWNFIELDS:**  
 Name: MENLO UPTOWN  
 Address: 141 JEFFERSON DRIVE (AND 172 - 188 CONSTITUTION DRIVE)  
 City, State, Zip: MENLO PARK, CA 94025  
 Global ID: T10000014570  
 Latitude: 37.48314  
 Longitude: -122.17345  
 Project Type: Cleanup Program Site  
 Status: Open - Remediation  
 Status Date: 08/16/2021  
 Lead Agency: SAN FRANCISCO BAY RWQCB (REGION 2)  
 Last Correspondence Date: 07/31/2022  
 Release Type: Unknown  
 Contaminant(s) of Concern: Dichloroethene (DCE), Other Chlorinated Hydrocarbons, Other Solvent or Non-Petroleum Hydrocarbon  
 Media of Concern: Other Groundwater (uses other than drinking water), Soil Vapor  
 Past Use(s) that Caused Contamination: MACHINE SHOP, MAINTENANCE / CLEANING, MANUFACTURING - ELECTRONIC,

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**MENLO UPTOWN (Continued)**

**S126285294**

MANUFACTURING - INDUSTRIAL MACHINERY, MANUFACTURING - OTHER,  
 PHOTOGRAPHIC PROCESSING

Human Health Exposure Controlled: YES  
 Human Health Exposure Controlled Date: 08/01/2021  
 Groundwater Migration Controlled: YES  
 Groundwater Migration Controlled Date: 08/01/2021  
 Primary Caseworker Name: KIMBERLEE WEST  
 Primary Caseworker Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)  
 Primary Caseworker Phone Number: 510-622-2432  
 Primary Caseworker Address: 1515 CLAY STREET  
 Primary Caseworker Address: OAKLAND  
 Primary Caseworker Address: C  
 Primary Caseworker Email: kimberlee.west@waterboards.ca.gov

**U175**  
**ESE**  
**1/2-1**  
**0.502 mi.**  
**2651 ft.**

**BAY ASSOCIATES WIRE TECH**  
**150 JEFFERSON DR**  
**MENLO PARK, CA 94025**  
**Site 3 of 3 in cluster U**

**CA ENVIROSTOR 1000857529**  
**CA SCH CAD983669664**  
**RCRA NonGen / NLR**  
**FINDS**  
**ECHO**  
**CA San Mateo Co. BI**

**Relative:**  
**Higher**  
**Actual:**  
**12 ft.**

**ENVIROSTOR:**  
 Name: MENLO PARK PROPOSED SCHOOL  
 Address: 150 JEFFERSON DRIVE  
 City,State,Zip: MENLO PARK, CA 94025  
 Facility ID: 60002163  
 Status: No Further Action  
 Status Date: 06/13/2016  
 Site Code: 204273  
 Site Type: School Investigation  
 Site Type Detailed: School  
 Acres: 2  
 NPL: NO  
 Regulatory Agencies: SMBRP  
 Lead Agency: SMBRP  
 Program Manager: Mellan Songco  
 Supervisor: Jose Salcedo  
 Division Branch: Northern California Schools & Santa Susana  
 Assembly: 24  
 Senate: 13  
 Special Program: Not reported  
 Restricted Use: NO  
 Site Mgmt Req: NONE SPECIFIED  
 Funding: School District  
 Latitude: 37.48216  
 Longitude: -122.1738  
 APN: 055-243-030, 055242090  
 Past Use: MANUFACTURING - ELECTRONIC, RAILROAD RIGHT OF WAY  
 Potential COC: Benzene Naturally Occurring Asbestos (NOA Polynuclear aromatic hydrocarbons (PAHs)  
 Confirmed COC: 30003-NO 30019-NO No Contaminants found 40002-NO  
 Potential Description: NMA, SOIL, SV  
 Alias Name: 150 Jefferson Drive  
 Alias Type: Alternate Name  
 Alias Name: Menlo Park Small High School Project  
 Alias Type: Alternate Name  
 Alias Name: New East Menlo Park Magnet High School  
 Alias Type: Alternate Name



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BAY ASSOCIATES WIRE TECH (Continued)**

**1000857529**

Alias Name: 055-243-030  
Alias Type: APN  
Alias Name: 055242090  
Alias Type: APN  
Alias Name: 204273  
Alias Type: Project Code (Site Code)  
Alias Name: 60002163  
Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Preliminary Endangerment Assessment Report  
Completed Date: 06/13/2016  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Fieldwork  
Completed Date: 02/10/2016  
Comments: On December 9, 2015, DTSC observed the implementation of the approved PEA Workplan.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Phase 1  
Completed Date: 04/21/2015  
Comments: On April 14, 2015, DTSC issued a determination that a PEA is required for the site.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Environmental Oversight Agreement Application  
Completed Date: 10/08/2015  
Comments: Received EOP Application for EOA from Mellan, via email, on 10/08/15.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Preliminary Endangerment Assessment Workplan  
Completed Date: 02/10/2016  
Comments: On November 30, 2015, DTSC approved the PEA Workplan for implementation.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Cost Recovery Closeout Memo  
Completed Date: 10/05/2017  
Comments: Site closed out.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Correspondence  
Completed Date: 10/05/2017  
Comments: DTSC sends letter to District re: refund.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Site Inspections/Visit (Non LUR)

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BAY ASSOCIATES WIRE TECH (Continued)**

**1000857529**

Completed Date: 06/16/2015  
Comments: On June 16, 2015, DTSC conducted a site visit followed by a scoping meeting with the District and their consultant, Cornerstone Earth Group.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Environmental Oversight Agreement  
Completed Date: 10/29/2015  
Comments: Fully executed EOA sent to District.

Future Area Name: Not reported  
Future Sub Area Name: Not reported  
Future Document Type: Not reported  
Future Due Date: Not reported  
Schedule Area Name: Not reported  
Schedule Sub Area Name: Not reported  
Schedule Document Type: Not reported  
Schedule Due Date: Not reported  
Schedule Revised Date: Not reported

**SCH:**

Name: MENLO PARK PROPOSED SCHOOL  
Address: 150 JEFFERSON DRIVE  
City,State,Zip: MENLO PARK, CA 94025  
Facility ID: 60002163  
Site Type: School Investigation  
Site Type Detail: School  
Site Mgmt. Req.: NONE SPECIFIED  
Acres: 2  
National Priorities List: NO  
Cleanup Oversight Agencies: SMBRP  
Lead Agency: SMBRP  
Lead Agency Description: DTSC - Site Cleanup Program  
Project Manager: Mellan Songco  
Supervisor: Jose Salcedo  
Division Branch: Northern California Schools & Santa Susana  
Site Code: 204273  
Assembly: 24  
Senate: 13  
Special Program Status: Not reported  
Status: No Further Action  
Status Date: 06/13/2016  
Restricted Use: NO  
Funding: School District  
Latitude: 37.48216  
Longitude: -122.1738  
APN: 055-243-030, 055242090  
Past Use: MANUFACTURING - ELECTRONIC, RAILROAD RIGHT OF WAY  
Potential COC: Benzene, Benzene, Naturally Occurring Asbestos (NOA, Polynuclear aromatic hydrocarbons (PAHs)  
Confirmed COC: 30003-NO, 30019-NO, No Contaminants found, 40002-NO  
Potential Description: NMA, SOIL, SV  
Alias Name: 150 Jefferson Drive  
Alias Type: Alternate Name  
Alias Name: Menlo Park Small High School Project

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BAY ASSOCIATES WIRE TECH (Continued)**

**1000857529**

Alias Type: Alternate Name  
Alias Name: New East Menlo Park Magnet High School  
Alias Type: Alternate Name  
Alias Name: 055-243-030  
Alias Type: APN  
Alias Name: 055242090  
Alias Type: APN  
Alias Name: 204273  
Alias Type: Project Code (Site Code)  
Alias Name: 60002163  
Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Preliminary Endangerment Assessment Report  
Completed Date: 06/13/2016  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Fieldwork  
Completed Date: 02/10/2016  
Comments: On December 9, 2015, DTSC observed the implementation of the approved PEA Workplan.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Phase 1  
Completed Date: 04/21/2015  
Comments: On April 14, 2015, DTSC issued a determination that a PEA is required for the site.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Environmental Oversight Agreement Application  
Completed Date: 10/08/2015  
Comments: Received EOP Application for EOA from Mellan, via email, on 10/08/15.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Preliminary Endangerment Assessment Workplan  
Completed Date: 02/10/2016  
Comments: On November 30, 2015, DTSC approved the PEA Workplan for implementation.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Cost Recovery Closeout Memo  
Completed Date: 10/05/2017  
Comments: Site closed out.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Correspondence  
Completed Date: 10/05/2017  
Comments: DTSC sends letter to District re: refund.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BAY ASSOCIATES WIRE TECH (Continued)**

**1000857529**

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Site Inspections/Visit (Non LUR)  
Completed Date: 06/16/2015  
Comments: On June 16, 2015, DTSC conducted a site visit followed by a scoping meeting with the District and their consultant, Cornerstone Earth Group.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Environmental Oversight Agreement  
Completed Date: 10/29/2015  
Comments: Fully executed EOA sent to District.

Future Area Name: Not reported  
Future Sub Area Name: Not reported  
Future Document Type: Not reported  
Future Due Date: Not reported  
Schedule Area Name: Not reported  
Schedule Sub Area Name: Not reported  
Schedule Document Type: Not reported  
Schedule Due Date: Not reported  
Schedule Revised Date: Not reported

**RCRA Listings:**

Date Form Received by Agency: 20080728  
Handler Name: BAY ASSOCIATES WIRE TECH  
Handler Address: 150 JEFFERSON DR  
Handler City,State,Zip: MENLO PARK, CA 94025  
EPA ID: CAD983669664  
Contact Name: ROBERT N MCANIFF  
Contact Address: 150 JEFFERSON DR  
Contact City,State,Zip: MENLO PARK, CA 94025  
Contact Telephone: 650-847-3926  
Contact Fax: Not reported  
Contact Email: ROBERT.MCANIFF@BAYCABLE.COM  
Contact Title: Not reported  
EPA Region: 09  
Land Type: Private  
Federal Waste Generator Description: Not a generator, verified  
Non-Notifier: Not reported  
Biennial Report Cycle: Not reported  
Accessibility: Not reported  
Active Site Indicator: Not reported  
State District Owner: Not reported  
State District: Not reported  
Mailing Address: 150 JEFFERSON DR  
Mailing City,State,Zip: MENLO PARK, CA 94025  
Owner Name: NEW ENGLAND WIRE TECH  
Owner Type: Private  
Operator Name: LAURENT MAYER  
Operator Type: Private  
Short-Term Generator Activity: No  
Importer Activity: No  
Mixed Waste Generator: No  
Transporter Activity: No  
Transfer Facility Activity: No

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**BAY ASSOCIATES WIRE TECH (Continued)**

**1000857529**

Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20080819
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	CHARLES CARPENTER MARTIN FISH
Legal Status:	Private
Date Became Current:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BAY ASSOCIATES WIRE TECH (Continued)**

**1000857529**

Date Ended Current: Not reported  
Owner/Operator Address: 150 JEFFERSON DR  
Owner/Operator City,State,Zip: MENLO PARK, CA 94025  
Owner/Operator Telephone: 415-321-2940  
Owner/Operator Telephone Ext: Not reported  
Owner/Operator Fax: Not reported  
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator  
Owner/Operator Name: LAURENT MAYER  
Legal Status: Private  
Date Became Current: 20080721  
Date Ended Current: Not reported  
Owner/Operator Address: Not reported  
Owner/Operator City,State,Zip: Not reported  
Owner/Operator Telephone: Not reported  
Owner/Operator Telephone Ext: Not reported  
Owner/Operator Fax: Not reported  
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner  
Owner/Operator Name: NEW ENGLAND WIRE TECH  
Legal Status: Private  
Date Became Current: 20080721  
Date Ended Current: Not reported  
Owner/Operator Address: 130 N MAIN ST  
Owner/Operator City,State,Zip: LISBON, NH 03585  
Owner/Operator Telephone: Not reported  
Owner/Operator Telephone Ext: Not reported  
Owner/Operator Fax: Not reported  
Owner/Operator Email: Not reported

Historic Generators:

Receive Date: 19930614  
Handler Name: ELECTRICAL WIRE PROD BAY ASSOC  
Federal Waste Generator Description: Small Quantity Generator  
State District Owner: Not reported  
Large Quantity Handler of Universal Waste: No  
Recognized Trader Importer: No  
Recognized Trader Exporter: No  
Spent Lead Acid Battery Importer: No  
Spent Lead Acid Battery Exporter: No  
Current Record: No  
Non Storage Recycler Activity: Not reported  
Electronic Manifest Broker: Not reported

Receive Date: 20080728  
Handler Name: BAY ASSOCIATES WIRE TECH  
Federal Waste Generator Description: Not a generator, verified  
State District Owner: Not reported  
Large Quantity Handler of Universal Waste: No  
Recognized Trader Importer: No  
Recognized Trader Exporter: No  
Spent Lead Acid Battery Importer: No  
Spent Lead Acid Battery Exporter: No  
Current Record: Yes  
Non Storage Recycler Activity: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BAY ASSOCIATES WIRE TECH (Continued)**

**1000857529**

Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:

NAICS Code: 331491  
NAICS Description: NONFERROUS METAL (EXCEPT COPPER AND ALUMINUM) ROLLING, DRAWING, AND EXTRUDING

NAICS Code: 335929  
NAICS Description: OTHER COMMUNICATION AND ENERGY WIRE MANUFACTURING

Facility Has Received Notices of Violations:

Violations: No Violations Found

Evaluation Action Summary:

Evaluations: No Evaluations Found

FINDS:

Registry ID: 110002900139

[Click Here for FRS Facility Detail Report:](#)

Environmental Interest/Information System:

California Hazardous Waste Tracking System - Datamart (HWTS-DATAMART) provides California with information on hazardous waste shipments for generators, transporters, and treatment, storage, and disposal facilities.

OSHA ESTABLISHMENT

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

STATE MASTER

[Click this hyperlink](#) while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid: 1000857529  
Registry ID: 110002900139  
DFR URL: <http://echo.epa.gov/detailed-facility-report?fid=110002900139>  
Name: ELECTRICAL WIRE PROD BAY ASSOC  
Address: 150 JEFFERSON DR  
City,State,Zip: MENLO PARK, CA 94025

San Mateo Co. BI:

Name: BAY ASSOCIATES INC  
Address: 150 JEFFERSON  
City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0024407  
Prog Element Code: STORMWATER ANNUAL INSPECTION FEE  
Record Id: PR0040638  
Description: STORMWATER ANNUAL FEE - INSP FREQ EVERY 2 YRS

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BAY ASSOCIATES WIRE TECH (Continued)**

**1000857529**

Facility Status: Inactive, non-billable  
Program Category: STORMWATER  
  
Name: BAY ASSOCIATES INC  
Address: 150 JEFFERSON  
City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0024407  
Prog Element Code: GEN <1 TONS HAZ WASTE/YR  
Record Id: PR0029065  
Description: GEN <1 TONS HAZ WASTE/YR  
Facility Status: Inactive, non-billable  
Program Category: HAZARDOUS WASTE PROGRAM

Name: BAY ASSOCIATES INC  
Address: 150 JEFFERSON  
City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0024407  
Prog Element Code: STORES HAZ MAT <1,199GAL,9,999LB,4,799FT3  
Record Id: PR0029064  
Description: STORES HAZ MAT <1,199GAL,9,999LB,4,799CF  
Facility Status: Inactive, non-billable  
Program Category: BUSINESS PLAN PROGRAM

Name: BAY ASSOC WIRE TECHNOLOGIES  
Address: 150 JEFFERSON  
City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0039399  
Prog Element Code: STORMWATER ANNUAL INSPECTION FEE  
Record Id: PR0055464  
Description: STORMWATER ANNUAL FEE - INSP FREQ EVERY 2 YRS  
Facility Status: Inactive, non-billable  
Program Category: STORMWATER

Name: BAY ASSOC WIRE TECHNOLOGIES  
Address: 150 JEFFERSON  
City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0039399  
Prog Element Code: STORES HAZ MAT <219GAL,1,999LB, 879FT3  
Record Id: PR0055462  
Description: STORES HAZ MAT <219GAL,1,999LB, 879CF  
Facility Status: Inactive, non-billable  
Program Category: BUSINESS PLAN PROGRAM

Name: BAY ASSOC WIRE TECHNOLOGIES  
Address: 150 JEFFERSON  
City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0039399  
Prog Element Code: GEN <1 TONS HAZ WASTE/YR  
Record Id: PR0055463  
Description: GEN <1 TONS HAZ WASTE/YR  
Facility Status: Inactive, non-billable  
Program Category: HAZARDOUS WASTE PROGRAM



Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**176**  
**ESE**  
**1/2-1**  
**0.599 mi.**  
**3165 ft.**  
  
**Relative:**  
**Lower**  
  
**Actual:**  
**8 ft.**

**MENLOTECH INC**  
**188 CONSTITUTION DR**  
**MENLO PARK, CA 94025**

**RCRA-SQG**  
**CA ENVIROSTOR**  
**CA LUST**  
**CA CPS-SLIC**  
**CA HIST UST**  
**CA San Mateo Co. BI**  
**CA HAZNET**  
**CA CIWQS**  
**CA CERS**  
**CA HWTS**

**1000111898**  
**CAD053243051**

RCRA Listings:

Date Form Received by Agency:		20040621
Handler Name:	MENLOTECH INC	
Handler Address:		188 CONSTITUTION DR
Handler City,State,Zip:		MENLO PARK, CA 94025-1117
EPA ID:		CAD053243051
Contact Name:		RAY MAUBERRET
Contact Address:		188 CONSTITUTION DR
Contact City,State,Zip:		MENLO PARK, CA 94025-1117
Contact Telephone:		415-661-9775
Contact Fax:		Not reported
Contact Email:		Not reported
Contact Title:		Not reported
EPA Region:		09
Land Type:		Private
Federal Waste Generator Description:		Small Quantity Generator
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Handler Activities
State District Owner:		Not reported
State District:		Not reported
Mailing Address:		188 CONSTITUTION DR
Mailing City,State,Zip:		MENLO PARK, CA 94025-1117
Owner Name:	RAY MAUBERRETT	
Owner Type:		Private
Operator Name:	RAY MAUBERRET	
Operator Type:		Private
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No
Smelting Melting and Refining Furnace Exemption:		No
Underground Injection Control:		No
Off-Site Waste Receipt:		No
Universal Waste Indicator:		No
Universal Waste Destination Facility:		No
Federal Universal Waste:		No
Active Site Fed-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site Converter Treatment storage and Disposal Facility:		Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site State-Reg Handler:		---
Federal Facility Indicator:		Not reported
Hazardous Secondary Material Indicator:		NN
Sub-Part K Indicator:		Not reported

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**MENLOTECH INC (Continued)**

**1000111898**

Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDs Where RCRA CA has Been Imposed Universe:	No
TSDs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20060905
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Biennial: List of Years

Year: 2003

[Click Here for Biennial Reporting System Data:](#)

Year: 2001

[Click Here for Biennial Reporting System Data:](#)

Hazardous Waste Summary:

Waste Code:	D001
Waste Description:	IGNITABLE WASTE
Waste Code:	D002
Waste Description:	CORROSIVE WASTE
Waste Code:	D004
Waste Description:	ARSENIC
Waste Code:	D007
Waste Description:	CHROMIUM

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MENLOTECH INC (Continued)**

**1000111898**

Waste Code: D008  
Waste Description: LEAD

Waste Code: F006  
Waste Description: WASTEWATER TREATMENT SLUDGES FROM ELECTROPLATING OPERATIONS, EXCEPT FROM THE FOLLOWING PROCESSES: (1) SULFURIC ACID ANODIZING OF ALUMINUM; (2) TIN PLATING ON CARBON STEEL; (3) ZINC PLATING (SEGREGATED BASIS) ON CARBON STEEL; (4) ALUMINUM OR ZINC-ALUMINUM PLATING ON CARBON STEEL; (5) CLEANING/STRIPPING ASSOCIATED WITH TIN, ZINC, AND ALUMINUM PLATING ON CARBON STEEL; AND (6) CHEMICAL ETCHING AND MILLING OF ALUMINUM.

Handler - Owner Operator:

Owner/Operator Indicator: Operator  
Owner/Operator Name: RAY MAUBERRET  
Legal Status: Private  
Date Became Current: 20040602  
Date Ended Current: Not reported  
Owner/Operator Address: Not reported  
Owner/Operator City,State,Zip: Not reported  
Owner/Operator Telephone: Not reported  
Owner/Operator Telephone Ext: Not reported  
Owner/Operator Fax: Not reported  
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner  
Owner/Operator Name: JAY SUH  
Legal Status: Private  
Date Became Current: Not reported  
Date Ended Current: Not reported  
Owner/Operator Address: 188 CONSTITUTION DR  
Owner/Operator City,State,Zip: MENLO PARK, CA 94025  
Owner/Operator Telephone: 415-324-4843  
Owner/Operator Telephone Ext: Not reported  
Owner/Operator Fax: Not reported  
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator  
Owner/Operator Name: JAY SUH  
Legal Status: Private  
Date Became Current: 19940101  
Date Ended Current: Not reported  
Owner/Operator Address: Not reported  
Owner/Operator City,State,Zip: Not reported  
Owner/Operator Telephone: Not reported  
Owner/Operator Telephone Ext: Not reported  
Owner/Operator Fax: Not reported  
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator  
Owner/Operator Name: RAY MAUBERRET  
Legal Status: Private  
Date Became Current: 20040602  
Date Ended Current: Not reported  
Owner/Operator Address: Not reported  
Owner/Operator City,State,Zip: Not reported  
Owner/Operator Telephone: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MENLOTECH INC (Continued)**

**1000111898**

Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name: RAY MAUBERRETT	
Legal Status:	Private
Date Became Current:	19600101
Date Ended Current:	Not reported
Owner/Operator Address:	188 CONSTITUTION DR
Owner/Operator City,State,Zip:	MENLO PARK, CA 94025-1117
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name: RAY MAUBERRETT	
Legal Status:	Private
Date Became Current:	19600101
Date Ended Current:	Not reported
Owner/Operator Address:	188 CONSTITUTION DR
Owner/Operator City,State,Zip:	MENLO PARK, CA 94025-1117
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name: JAY SUH	
Legal Status:	Private
Date Became Current:	19940101
Date Ended Current:	Not reported
Owner/Operator Address:	165 LYELL ST
Owner/Operator City,State,Zip:	LOS ALTOS, CA 94022
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name: NOT REQUIRED	
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	NOT REQUIRED
Owner/Operator City,State,Zip:	NOT REQUIRED, ME 99999
Owner/Operator Telephone:	415-555-1212
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	19960901
Handler Name:	MENLOTECH INC
Federal Waste Generator Description:	Small Quantity Generator
State District Owner:	CA

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MENLOTECH INC (Continued)**

**1000111898**

Large Quantity Handler of Universal Waste: No  
Recognized Trader Importer: No  
Recognized Trader Exporter: No  
Spent Lead Acid Battery Importer: No  
Spent Lead Acid Battery Exporter: No  
Current Record: No  
Non Storage Recycler Activity: Not reported  
Electronic Manifest Broker: Not reported

Receive Date: 20040621  
Handler Name: MENLOTECH INC  
Federal Waste Generator Description: Small Quantity Generator  
State District Owner: Not reported  
Large Quantity Handler of Universal Waste: No  
Recognized Trader Importer: No  
Recognized Trader Exporter: No  
Spent Lead Acid Battery Importer: No  
Spent Lead Acid Battery Exporter: No  
Current Record: Yes  
Non Storage Recycler Activity: Not reported  
Electronic Manifest Broker: Not reported

Receive Date: 19950131  
Handler Name: MENLOTECH INC  
Federal Waste Generator Description: Large Quantity Generator  
State District Owner: CA  
Large Quantity Handler of Universal Waste: No  
Recognized Trader Importer: No  
Recognized Trader Exporter: No  
Spent Lead Acid Battery Importer: No  
Spent Lead Acid Battery Exporter: No  
Current Record: No  
Non Storage Recycler Activity: Not reported  
Electronic Manifest Broker: Not reported

Receive Date: 20040621  
Handler Name: MENLOTECH INC  
Federal Waste Generator Description: Large Quantity Generator  
State District Owner: Not reported  
Large Quantity Handler of Universal Waste: No  
Recognized Trader Importer: No  
Recognized Trader Exporter: No  
Spent Lead Acid Battery Importer: No  
Spent Lead Acid Battery Exporter: No  
Current Record: No  
Non Storage Recycler Activity: Not reported  
Electronic Manifest Broker: Not reported

Receive Date: 19960229  
Handler Name: MENLOTECH, INC.  
Federal Waste Generator Description: Large Quantity Generator  
State District Owner: Not reported  
Large Quantity Handler of Universal Waste: No  
Recognized Trader Importer: No  
Recognized Trader Exporter: No  
Spent Lead Acid Battery Importer: No  
Spent Lead Acid Battery Exporter: No

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MENLOTECH INC (Continued)**

**1000111898**

Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported
Receive Date:	19990304
Handler Name:	MENLOTECH, INC.
Federal Waste Generator Description:	Large Quantity Generator
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported
Receive Date:	20000330
Handler Name:	MENLOTECH INC
Federal Waste Generator Description:	Large Quantity Generator
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported
Receive Date:	20020228
Handler Name:	MENLOTECH INC
Federal Waste Generator Description:	Large Quantity Generator
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported
Receive Date:	20040211
Handler Name:	MENLOTECH, INC
Federal Waste Generator Description:	Large Quantity Generator
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MENLOTECH INC (Continued)**

**1000111898**

List of NAICS Codes and Descriptions:

NAICS Code: 334412  
NAICS Description: BARE PRINTED CIRCUIT BOARD MANUFACTURING

NAICS Code: 334419  
NAICS Description: OTHER ELECTRONIC COMPONENT MANUFACTURING

NAICS Code: 56291  
NAICS Description: REMEDIATION SERVICES

Facility Has Received Notices of Violations:

Violations: No Violations Found

Evaluation Action Summary:

Evaluations: No Evaluations Found

ENVIROSTOR:

Name: MENLO TECH  
Address: 188 CONSTITUTION DRIVE  
City,State,Zip: MENLO PARK, CA 94025  
Facility ID: 70000160  
Status: Refer: RWQCB  
Status Date: 11/04/2020  
Site Code: 202275  
Site Type: Evaluation  
Site Type Detailed: Evaluation  
Acres: 0.8  
NPL: NO  
Regulatory Agencies: SMBRP  
Lead Agency: SMBRP  
Program Manager: Karen Steen  
Supervisor: Kimberly Walsh  
Division Branch: Cleanup Berkeley  
Assembly: 24  
Senate: 13  
Special Program: EPA - PASI  
Restricted Use: NO  
Site Mgmt Req: NONE SPECIFIED  
Funding: Responsible Party  
Latitude: 37.48302  
Longitude: -122.1717  
APN: 055-242-040, 055242040  
Past Use: MANUFACTURING - ELECTRONIC  
Potential COC: Total Chromium (1:6 ratio Cr VI:Cr III Lead Copper and compounds  
Confirmed COC: 30156-NO 30005-NO 30013-NO  
Potential Description: OTH, SOIL  
Alias Name: 055-242-040  
Alias Type: APN  
Alias Name: 055242040  
Alias Type: APN  
Alias Name: CAD053243051  
Alias Type: EPA Identification Number  
Alias Name: 110000862022  
Alias Type: EPA (FRS #)

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MENLOTECH INC (Continued)**

**100011898**

Alias Name: SL0608198685  
Alias Type: GeoTracker Global ID  
Alias Name: T10000014570  
Alias Type: GeoTracker Global ID  
Alias Name: 201640  
Alias Type: Project Code (Site Code)  
Alias Name: 202275  
Alias Type: Project Code (Site Code)  
Alias Name: 70000160  
Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Standard Voluntary Agreement  
Completed Date: 04/11/2006  
Comments: Final executed VCA signed by branch chief.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Amendment - Order/Agreement  
Completed Date: 09/17/2006  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Other Report  
Completed Date: 04/22/2020  
Comments: Historical permitting documents reviewed as a part of the PA/SI site screening.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Preliminary Assessment/Site Inspection Report (PA/SI)  
Completed Date: 10/09/2020  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Site Characterization Report  
Completed Date: 09/14/2006  
Comments: Final data review letter sent to RP with branch chief signature.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Voluntary Cleanup Agreement Termination Notification  
Completed Date: 04/13/2007  
Comments: Not reported

Future Area Name: Not reported  
Future Sub Area Name: Not reported  
Future Document Type: Not reported  
Future Due Date: Not reported  
Schedule Area Name: Not reported  
Schedule Sub Area Name: Not reported  
Schedule Document Type: Not reported  
Schedule Due Date: Not reported  
Schedule Revised Date: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MENLOTECH INC (Continued)**

**1000111898**

Name: MENLOTECH, INC.  
Address: 188 CONSTITUTION DRIVE  
City,State,Zip: MENLO PARK, CA 94025  
Facility ID: 71002456  
Status: Inactive - Needs Evaluation  
Status Date: Not reported  
Site Code: Not reported  
Site Type: Tiered Permit  
Site Type Detailed: Tiered Permit  
Acres: Not reported  
NPL: NO  
Regulatory Agencies: NONE SPECIFIED  
Lead Agency: NONE SPECIFIED  
Program Manager: Not reported  
Supervisor: Not reported  
Division Branch: Cleanup Berkeley  
Assembly: 24  
Senate: 13  
Special Program: Not reported  
Restricted Use: NO  
Site Mgmt Req: NONE SPECIFIED  
Funding: Not reported  
Latitude: 37.48307  
Longitude: -122.1716  
APN: NONE SPECIFIED  
Past Use: NONE SPECIFIED  
Potential COC: NONE SPECIFIED  
Confirmed COC: NONE SPECIFIED  
Potential Description: NONE SPECIFIED  
Alias Name: CAD053243051  
Alias Type: EPA Identification Number  
Alias Name: 110000862022  
Alias Type: EPA (FRS #)  
Alias Name: T10000014570  
Alias Type: GeoTracker Global ID  
Alias Name: 71002456  
Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: Not reported  
Completed Sub Area Name: Not reported  
Completed Document Type: Not reported  
Completed Date: Not reported  
Comments: Not reported

Future Area Name: Not reported  
Future Sub Area Name: Not reported  
Future Document Type: Not reported  
Future Due Date: Not reported  
Schedule Area Name: Not reported  
Schedule Sub Area Name: Not reported  
Schedule Document Type: Not reported  
Schedule Due Date: Not reported  
Schedule Revised Date: Not reported

SAN MATEO CO. LUST:

Name: MENLO TECH

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MENLOTECH INC (Continued)**

1000111898

Address: 188 CONSTITUTION DR  
City,State,Zip: MENLO PARK, CA  
Region: SAN MATEO  
Facility ID: 449078  
Facility Status: 9- Case Closed  
Global ID: SL0608198685  
APN Number: 055242040  
Case Type: MENLO PARK, CA  
EDR Link ID: MENLO PARK, CA

**CPS-SLIC:**

Name: MENLO TECH  
Address: 188 CONSTITUTION  
City,State,Zip: MENLO PARK, CA 94025  
Region: STATE  
**Facility Status: Completed - Case Closed**  
Status Date: 01/25/2005  
Global Id: SL0608198685  
Lead Agency: SAN MATEO COUNTY LOP  
Lead Agency Case Number: 449078  
Latitude: 37.483332  
Longitude: -122.171363  
Case Type: Cleanup Program Site  
Case Worker: Not reported  
Local Agency: Not reported  
RB Case Number: Not reported  
File Location: Local Agency Warehouse  
Potential Media Affected: Soil  
Potential Contaminants of Concern: Copper  
Site History: Not reported

[Click here to access the California GeoTracker records for this facility:](#)

**HIST UST:**

Name: JPR ELECTRONICS  
Address: 188 CONSTITUTION  
City,State,Zip: MENLO PARK, CA 94025  
File Number: 0002BF59  
URL: <http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002BF59.pdf>  
Region: STATE  
Facility ID: 00000047990  
Facility Type: Other  
Other Type: ELECTRONIC MANUF.  
Contact Name: JOHN SCHULTZ  
Telephone: 4153283746  
Owner Name: J.P.R. ELECTRONICS  
Owner Address: 188 CONSTITUTION  
Owner City,St,Zip: MENLO PARK, CA 94025  
Total Tanks: 0001  
  
Tank Num: 001  
Container Num: 001  
Year Installed: 1984  
Tank Capacity: 00000120  
Tank Used for: WASTE  
Type of Fuel: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MENLOTECH INC (Continued)**

**1000111898**

Container Construction Thickness: 3/8  
Leak Detection: Visual

[Click here for Geo Tracker PDF:](#)

San Mateo Co. BI:

Name: MENLO TECH  
Address: 188 CONSTITUTION DR  
City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0044041  
Prog Element Code: RISK MANAGEMENT AND PREVENTION PLAN - GENERAL  
Record Id: PR0071989  
Description: CALARP - GENERAL  
Facility Status: Inactive, non-billable  
Program Category: CALARP PROGRAM

HAZNET:

Name: MENLOTECH INC  
Address: 188 CONSTITUTION DR  
Address 2: Not reported  
City,State,Zip: MENLO PARK, CA 940251117  
Contact: RAY MANBERRET  
Telephone: 4156619775  
Mailing Name: Not reported  
Mailing Address: 188 CONSTITUTION DR

Year: 2004  
Gepaid: CAD053243051  
TSD EPA ID: CAT000646117  
CA Waste Code: 181 - Other inorganic solid waste  
Disposal Method: D80 - Disposal, Land Fill  
Tons: 166.8744

Year: 2003  
Gepaid: CAD053243051  
TSD EPA ID: CAT080013352  
CA Waste Code: 221 - Waste oil and mixed oil  
Disposal Method: R01 - Recycler  
Tons: 0.209

Year: 2003  
Gepaid: CAD053243051  
TSD EPA ID: CAD008488025  
CA Waste Code: 724 - Liquids with lead >= 500 Mg./L  
Disposal Method: R01 - Recycler  
Tons: 1.8348

Year: 2003  
Gepaid: CAD053243051  
TSD EPA ID: CAD097030993  
CA Waste Code: 181 - Other inorganic solid waste  
Disposal Method: R01 - Recycler  
Tons: 3.3

Year: 2003

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MENLOTECH INC (Continued)**

**1000111898**

Gepaid:	CAD053243051
TSD EPA ID:	CAD097030993
CA Waste Code:	181 - Other inorganic solid waste
Disposal Method:	D99 - Disposal, Other
Tons:	2.4
Year:	2003
Gepaid:	CAD053243051
TSD EPA ID:	CAT000646117
CA Waste Code:	181 - Other inorganic solid waste
Disposal Method:	D80 - Disposal, Land Fill
Tons:	94.458
Year:	2003
Gepaid:	CAD053243051
TSD EPA ID:	CAT000646117
CA Waste Code:	181 - Other inorganic solid waste
Disposal Method:	D99 - Disposal, Other
Tons:	Not reported
Year:	2003
Gepaid:	CAD053243051
TSD EPA ID:	CAD009452657
CA Waste Code:	121 - Alkaline solution (pH >= 12.5) with metals
Disposal Method:	R01 - Recycler
Tons:	1.251
Year:	2003
Gepaid:	CAD053243051
TSD EPA ID:	CAD009452657
CA Waste Code:	791 - Liquids with pH <= 2
Disposal Method:	R01 - Recycler
Tons:	0.3753
Year:	2003
Gepaid:	CAD053243051
TSD EPA ID:	CAD009452657
CA Waste Code:	791 - Liquids with pH <= 2
Disposal Method:	T03 - Treatment, Incineration
Tons:	0.2085

[Click this hyperlink](#) while viewing on your computer to access 91 additional CA HAZNET: record(s) in the EDR Site Report.

**Additional Info:**

Year:	2004
Gen EPA ID:	CAD053243051
Shipment Date:	20040714
Creation Date:	11/1/2004 12:36:11
Receipt Date:	20040714
Manifest ID:	98482362
Trans EPA ID:	CAL000221680
Trans Name:	GELIMA
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MENLOTECH INC (Continued)**

**1000111898**

TSDF EPA ID: CAT000646117  
Trans Name: CHEMICAL WASTE MANAGEMENT INC  
TSDF Alt EPA ID: CAT000646117  
TSDF Alt Name: Not reported  
Waste Code Description: 181 - Other inorganic solid waste Organics  
RCRA Code: NR  
Meth Code: D80 - Disposal, Land Fill  
Quantity Tons: 15.1704  
Waste Quantity: 18  
Quantity Unit: Y  
Additional Code 1: Not reported  
Additional Code 2: Not reported  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported

Shipment Date: 20040714  
Creation Date: 11/1/2004 12:36:11  
Receipt Date: 20040714  
Manifest ID: 98482363  
Trans EPA ID: CAR000097642  
Trans Name: JAMES BYARS TRUCKING  
Trans 2 EPA ID: Not reported  
Trans 2 Name: Not reported  
TSDF EPA ID: CAT000646117  
Trans Name: CHEMICAL WASTE MANAGEMENT INC  
TSDF Alt EPA ID: CAT000646117  
TSDF Alt Name: Not reported  
Waste Code Description: 181 - Other inorganic solid waste Organics  
RCRA Code: NR  
Meth Code: D80 - Disposal, Land Fill  
Quantity Tons: 15.1704  
Waste Quantity: 18  
Quantity Unit: Y  
Additional Code 1: Not reported  
Additional Code 2: Not reported  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported

Shipment Date: 20040714  
Creation Date: 11/1/2004 12:36:11  
Receipt Date: 20040714  
Manifest ID: 98482364  
Trans EPA ID: CAR000129486  
Trans Name: BAY VALLEY  
Trans 2 EPA ID: Not reported  
Trans 2 Name: Not reported  
TSDF EPA ID: CAT000646117  
Trans Name: CHEMICAL WASTE MANAGEMENT INC  
TSDF Alt EPA ID: CAT000646117  
TSDF Alt Name: Not reported  
Waste Code Description: 181 - Other inorganic solid waste Organics  
RCRA Code: NR  
Meth Code: D80 - Disposal, Land Fill  
Quantity Tons: 15.1704  
Waste Quantity: 18

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MENLOTECH INC (Continued)**

**1000111898**

Quantity Unit:	Y
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20040714
Creation Date:	11/1/2004 12:36:11
Receipt Date:	20040714
Manifest ID:	98482366
Trans EPA ID:	CAR000150110
Trans Name:	J RESENDIZ TRUCKING
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDf EPA ID:	CAT000646117
Trans Name:	CHEMICAL WASTE MANAGEMENT INC
TSDf Alt EPA ID:	CAT000646117
TSDf Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	NR
Meth Code:	D80 - Disposal, Land Fill
Quantity Tons:	15.1704
Waste Quantity:	18
Quantity Unit:	Y
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20040714
Creation Date:	11/1/2004 12:36:11
Receipt Date:	20040714
Manifest ID:	98482367
Trans EPA ID:	CAR000151159
Trans Name:	AMERICAN FLYER EXPRESS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDf EPA ID:	CAT000646117
Trans Name:	CHEMICAL WASTE MANAGEMENT INC
TSDf Alt EPA ID:	CAT000646117
TSDf Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	NR
Meth Code:	D80 - Disposal, Land Fill
Quantity Tons:	15.1704
Waste Quantity:	18
Quantity Unit:	Y
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20040714
Creation Date:	11/1/2004 12:36:11

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MENLOTECH INC (Continued)**

**1000111898**

Receipt Date: 20040714  
Manifest ID: 98482373  
Trans EPA ID: CAR000096925  
Trans Name: RLE  
Trans 2 EPA ID: Not reported  
Trans 2 Name: Not reported  
TSDf EPA ID: CAT000646117  
Trans Name: CHEMICAL WASTE MANAGEMENT INC  
TSDf Alt EPA ID: CAT000646117  
TSDf Alt Name: Not reported  
Waste Code Description: 181 - Other inorganic solid waste Organics  
RCRA Code: NR  
Meth Code: D80 - Disposal, Land Fill  
Quantity Tons: 15.1704  
Waste Quantity: 18  
Quantity Unit: Y  
Additional Code 1: Not reported  
Additional Code 2: Not reported  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported

Shipment Date: 20040714  
Creation Date: 11/1/2004 12:36:11  
Receipt Date: 20040714  
Manifest ID: 98482369  
Trans EPA ID: CAL000212367  
Trans Name: PACHECO & SONS  
Trans 2 EPA ID: Not reported  
Trans 2 Name: Not reported  
TSDf EPA ID: CAT000646117  
Trans Name: CHEMICAL WASTE MANAGEMENT INC  
TSDf Alt EPA ID: CAT000646117  
TSDf Alt Name: Not reported  
Waste Code Description: 181 - Other inorganic solid waste Organics  
RCRA Code: NR  
Meth Code: D80 - Disposal, Land Fill  
Quantity Tons: 15.1704  
Waste Quantity: 18  
Quantity Unit: Y  
Additional Code 1: Not reported  
Additional Code 2: Not reported  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported

Shipment Date: 20040714  
Creation Date: 11/1/2004 12:36:11  
Receipt Date: 20040715  
Manifest ID: 98482370  
Trans EPA ID: CAR000092726  
Trans Name: C&R TRUCKING  
Trans 2 EPA ID: Not reported  
Trans 2 Name: Not reported  
TSDf EPA ID: CAT000646117  
Trans Name: CHEMICAL WASTE MANAGEMENT INC  
TSDf Alt EPA ID: CAT000646117

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MENLOTECH INC (Continued)**

**1000111898**

TSDF Alt Name: Not reported  
Waste Code Description: 181 - Other inorganic solid waste Organics  
RCRA Code: NR  
Meth Code: D80 - Disposal, Land Fill  
Quantity Tons: 15.1704  
Waste Quantity: 18  
Quantity Unit: Y  
Additional Code 1: Not reported  
Additional Code 2: Not reported  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported

Shipment Date: 20040714  
Creation Date: 11/1/2004 12:36:11  
Receipt Date: 20040714  
Manifest ID: 98482371  
Trans EPA ID: CAR000084426  
Trans Name: SAI TRUCKING  
Trans 2 EPA ID: Not reported  
Trans 2 Name: Not reported  
TSDF EPA ID: CAT000646117  
Trans Name: CHEMICAL WASTE MANAGEMENT INC  
TSDF Alt EPA ID: CAT000646117  
TSDF Alt Name: Not reported  
Waste Code Description: 181 - Other inorganic solid waste Organics  
RCRA Code: NR  
Meth Code: D80 - Disposal, Land Fill  
Quantity Tons: 15.1704  
Waste Quantity: 18  
Quantity Unit: Y  
Additional Code 1: Not reported  
Additional Code 2: Not reported  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported

Shipment Date: 20040714  
Creation Date: 11/1/2004 12:36:11  
Receipt Date: 20040714  
Manifest ID: 98482372  
Trans EPA ID: CAL000223832  
Trans Name: RWT  
Trans 2 EPA ID: Not reported  
Trans 2 Name: Not reported  
TSDF EPA ID: CAT000646117  
Trans Name: CHEMICAL WASTE MANAGEMENT INC  
TSDF Alt EPA ID: CAT000646117  
TSDF Alt Name: Not reported  
Waste Code Description: 181 - Other inorganic solid waste Organics  
RCRA Code: NR  
Meth Code: D80 - Disposal, Land Fill  
Quantity Tons: 15.1704  
Waste Quantity: 18  
Quantity Unit: Y  
Additional Code 1: Not reported  
Additional Code 2: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MENLOTECH INC (Continued)**

**1000111898**

Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported

Additional Info:

Year: 2003  
Gen EPA ID: CAD053243051

Shipment Date: Not reported  
Creation Date: Not reported  
Receipt Date: Not reported  
Manifest ID: 22617187  
Trans EPA ID: CAD009452657  
Trans Name: Not reported  
Trans 2 EPA ID: Not reported  
Trans 2 Name: Not reported  
TSDf EPA ID: CAD009452657  
Trans Name: Not reported  
TSDf Alt EPA ID: CAD009452657  
TSDf Alt Name: Not reported  
Waste Code Description: 792 - Not reported  
RCRA Code: D002  
Meth Code: R01 - Recycler  
Quantity Tons: 0.1  
Waste Quantity: 200  
Quantity Unit: P  
Additional Code 1: Not reported  
Additional Code 2: Not reported  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported

Shipment Date: Not reported  
Creation Date: Not reported  
Receipt Date: Not reported  
Manifest ID: 22690221  
Trans EPA ID: CAD010925576  
Trans Name: Not reported  
Trans 2 EPA ID: NJD986607380  
Trans 2 Name: Not reported  
TSDf EPA ID: CAD008488025  
Trans Name: Not reported  
TSDf Alt EPA ID: CAD008488025  
TSDf Alt Name: Not reported  
Waste Code Description: 726 - Liquids with nickel > 134 mg/l  
RCRA Code: Not reported  
Meth Code: R01 - Recycler  
Quantity Tons: 0.22935  
Waste Quantity: 55  
Quantity Unit: G  
Additional Code 1: Not reported  
Additional Code 2: Not reported  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported

Shipment Date: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MENLOTECH INC (Continued)**

**1000111898**

Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	22690221
Trans EPA ID:	CAD010925576
Trans Name:	Not reported
Trans 2 EPA ID:	NJD986607380
Trans 2 Name:	Not reported
TSDf EPA ID:	CAD008488025
Trans Name:	Not reported
TSDf Alt EPA ID:	CAD008488025
TSDf Alt Name:	Not reported
Waste Code Description:	724 - Liquids with lead > 500 mg/l
RCRA Code:	D008
Meth Code:	R01 - Recycler
Quantity Tons:	0.9174
Waste Quantity:	220
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	Not reported
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	22617187
Trans EPA ID:	CAD009452657
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDf EPA ID:	CAD009452657
Trans Name:	Not reported
TSDf Alt EPA ID:	CAD009452657
TSDf Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	Not reported
Meth Code:	D99 - Disposal, Other
Quantity Tons:	0.125
Waste Quantity:	250
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	Not reported
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	22617187
Trans EPA ID:	CAD009452657
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDf EPA ID:	CAD009452657
Trans Name:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MENLOTECH INC (Continued)**

**1000111898**

TSDF Alt EPA ID: CAD009452657  
TSDF Alt Name: Not reported  
Waste Code Description: 551 - Laboratory waste chemicals 561 Detergent and soap  
RCRA Code: Not reported  
Meth Code: R01 - Recycler  
Quantity Tons: 0.03  
Waste Quantity: 60  
Quantity Unit: P  
Additional Code 1: Not reported  
Additional Code 2: Not reported  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported

Shipment Date: Not reported  
Creation Date: Not reported  
Receipt Date: Not reported  
Manifest ID: 22617187  
Trans EPA ID: CAD009452657  
Trans Name: Not reported  
Trans 2 EPA ID: Not reported  
Trans 2 Name: Not reported  
TSDF EPA ID: CAD009452657  
Trans Name: Not reported  
TSDF Alt EPA ID: CAD009452657  
TSDF Alt Name: Not reported  
Waste Code Description: 551 - Laboratory waste chemicals 561 Detergent and soap  
RCRA Code: Not reported  
Meth Code: R01 - Recycler  
Quantity Tons: 0.1  
Waste Quantity: 200  
Quantity Unit: P  
Additional Code 1: Not reported  
Additional Code 2: Not reported  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported

Shipment Date: Not reported  
Creation Date: Not reported  
Receipt Date: Not reported  
Manifest ID: 22617187  
Trans EPA ID: CAD009452657  
Trans Name: Not reported  
Trans 2 EPA ID: Not reported  
Trans 2 Name: Not reported  
TSDF EPA ID: CAD009452657  
Trans Name: Not reported  
TSDF Alt EPA ID: CAD009452657  
TSDF Alt Name: Not reported  
Waste Code Description: 551 - Laboratory waste chemicals 561 Detergent and soap  
RCRA Code: D008  
Meth Code: R01 - Recycler  
Quantity Tons: 0.1  
Waste Quantity: 200  
Quantity Unit: P  
Additional Code 1: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MENLOTECH INC (Continued)**

**1000111898**

Additional Code 2: Not reported  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported

Shipment Date: Not reported  
Creation Date: Not reported  
Receipt Date: Not reported  
Manifest ID: 22617187  
Trans EPA ID: CAD009452657  
Trans Name: Not reported  
Trans 2 EPA ID: Not reported  
Trans 2 Name: Not reported  
TSDf EPA ID: CAD009452657  
Trans Name: Not reported  
TSDf Alt EPA ID: CAD009452657  
TSDf Alt Name: Not reported  
Waste Code Description: 551 - Laboratory waste chemicals 561 Detergent and soap  
RCRA Code: D002  
Meth Code: R01 - Recycler  
Quantity Tons: 0.015  
Waste Quantity: 30  
Quantity Unit: P  
Additional Code 1: Not reported  
Additional Code 2: Not reported  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported

Shipment Date: Not reported  
Creation Date: Not reported  
Receipt Date: Not reported  
Manifest ID: 22617187  
Trans EPA ID: CAD009452657  
Trans Name: Not reported  
Trans 2 EPA ID: Not reported  
Trans 2 Name: Not reported  
TSDf EPA ID: CAD009452657  
Trans Name: Not reported  
TSDf Alt EPA ID: CAD009452657  
TSDf Alt Name: Not reported  
Waste Code Description: 551 - Laboratory waste chemicals 561 Detergent and soap  
RCRA Code: D002  
Meth Code: T03 - Treatment, Incineration  
Quantity Tons: 0.0125  
Waste Quantity: 25  
Quantity Unit: P  
Additional Code 1: Not reported  
Additional Code 2: Not reported  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported

Shipment Date: Not reported  
Creation Date: Not reported  
Receipt Date: Not reported  
Manifest ID: 22617187

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MENLOTECH INC (Continued)**

**1000111898**

Trans EPA ID: CAD009452657  
Trans Name: Not reported  
Trans 2 EPA ID: Not reported  
Trans 2 Name: Not reported  
TSDf EPA ID: CAD009452657  
Trans Name: Not reported  
TSDf Alt EPA ID: CAD009452657  
TSDf Alt Name: Not reported  
Waste Code Description: 791 - Liquids with pH < 2 792 Liquids with pH < 2 with metals  
RCRA Code: D002  
Meth Code: R01 - Recycler  
Quantity Tons: 0.015  
Waste Quantity: 30  
Quantity Unit: P  
Additional Code 1: Not reported  
Additional Code 2: Not reported  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported

Additional Info:

Year: 2002  
Gen EPA ID: CAD053243051

Shipment Date: 20021211  
Creation Date: 3/16/2007 18:30:20  
Receipt Date: 20021211  
Manifest ID: 21517148  
Trans EPA ID: CAD982052797  
Trans Name: Not reported  
Trans 2 EPA ID: Not reported  
Trans 2 Name: Not reported  
TSDf EPA ID: CAD982052797  
Trans Name: Not reported  
TSDf Alt EPA ID: CAD982052797  
TSDf Alt Name: Not reported  
Waste Code Description: 181 - Other inorganic solid waste Organics  
RCRA Code: D008  
Meth Code: R01 - Recycler  
Quantity Tons: 0.125  
Waste Quantity: 250  
Quantity Unit: P  
Additional Code 1: Not reported  
Additional Code 2: Not reported  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported

Shipment Date: 20021118  
Creation Date: 2/25/2003 18:31:38  
Receipt Date: 20021121  
Manifest ID: 21857003  
Trans EPA ID: CAD010925576  
Trans Name: Not reported  
Trans 2 EPA ID: NJD986607380  
Trans 2 Name: Not reported  
TSDf EPA ID: CAD008488025

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MENLOTECH INC (Continued)**

**1000111898**

Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	132 - Aqueous solution w/metals (< restricted levels and see waste code 121 for a list of metals
RCRA Code:	D002
Meth Code:	R01 - Recycler
Quantity Tons:	1.3761
Waste Quantity:	330
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20020910
Creation Date:	1/28/2003 18:31:46
Receipt Date:	20020913
Manifest ID:	21856999
Trans EPA ID:	CAD010925576
Trans Name:	Not reported
Trans 2 EPA ID:	NJD986607380
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008488025
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	132 - Aqueous solution w/metals (< restricted levels and see waste code 121 for a list of metals
RCRA Code:	D002
Meth Code:	R01 - Recycler
Quantity Tons:	1.60545
Waste Quantity:	385
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20020717
Creation Date:	1/21/2003 18:31:48
Receipt Date:	20020724
Manifest ID:	21876688
Trans EPA ID:	CAD010925576
Trans Name:	Not reported
Trans 2 EPA ID:	NJD986607380
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008488025
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	132 - Aqueous solution w/metals (< restricted levels and see waste code 121 for a list of metals
RCRA Code:	D002
Meth Code:	R01 - Recycler

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MENLOTECH INC (Continued)**

**1000111898**

Quantity Tons:	1.3761
Waste Quantity:	330
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20020703
Creation Date:	3/13/2003 18:31:17
Receipt Date:	20020703
Manifest ID:	21516960
Trans EPA ID:	CAD982052797
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDf EPA ID:	CAD982052797
Trans Name:	Not reported
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	D008
Meth Code:	R01 - Recycler
Quantity Tons:	0.15
Waste Quantity:	300
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20020703
Creation Date:	2/7/2003 18:31:14
Receipt Date:	20020710
Manifest ID:	21805064
Trans EPA ID:	CAD010925576
Trans Name:	Not reported
Trans 2 EPA ID:	CAR000047696
Trans 2 Name:	Not reported
TSDf EPA ID:	CAD097030993
Trans Name:	Not reported
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	F006
Meth Code:	D99 - Disposal, Other
Quantity Tons:	2.1175
Waste Quantity:	4235
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MENLOTECH INC (Continued)**

**1000111898**

Shipment Date:	20020531
Creation Date:	1/14/2003 18:31:21
Receipt Date:	20020605
Manifest ID:	21876561
Trans EPA ID:	CAD010925576
Trans Name:	Not reported
Trans 2 EPA ID:	NJD986607380
Trans 2 Name:	Not reported
TSDf EPA ID:	CAD008488025
Trans Name:	Not reported
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	132 - Aqueous solution w/metals (< restricted levels and see waste code 121 for a list of metals
RCRA Code:	D002
Meth Code:	R01 - Recycler
Quantity Tons:	0.68805
Waste Quantity:	165
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20020513
Creation Date:	1/24/2003 18:31:04
Receipt Date:	20020515
Manifest ID:	21876560
Trans EPA ID:	CAD010925576
Trans Name:	Not reported
Trans 2 EPA ID:	NJD986607380
Trans 2 Name:	Not reported
TSDf EPA ID:	CAD008488025
Trans Name:	Not reported
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	132 - Aqueous solution w/metals (< restricted levels and see waste code 121 for a list of metals
RCRA Code:	D002
Meth Code:	R01 - Recycler
Quantity Tons:	0.4587
Waste Quantity:	110
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20020426
Creation Date:	7/17/2002 18:34:52
Receipt Date:	20020430
Manifest ID:	21876559
Trans EPA ID:	CAD010925576
Trans Name:	Not reported
Trans 2 EPA ID:	NJD986607380



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MENLOTECH INC (Continued)**

**1000111898**

Trans 2 Name: Not reported  
TSDf EPA ID: CAD008488025  
Trans Name: Not reported  
TSDf Alt EPA ID: Not reported  
TSDf Alt Name: Not reported  
Waste Code Description: 132 - Aqueous solution w/metals (< restricted levels and see waste code 121 for a list of metals  
RCRA Code: D002  
Meth Code: R01 - Recycler  
Quantity Tons: 0.4587  
Waste Quantity: 110  
Quantity Unit: G  
Additional Code 1: Not reported  
Additional Code 2: Not reported  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported

Shipment Date: 20020423  
Creation Date: 1/8/2003 18:32:09  
Receipt Date: 20020503  
Manifest ID: 21639360  
Trans EPA ID: CAD010925576  
Trans Name: Not reported  
Trans 2 EPA ID: CAR000047696  
Trans 2 Name: Not reported  
TSDf EPA ID: CAD097030993  
Trans Name: Not reported  
TSDf Alt EPA ID: Not reported  
TSDf Alt Name: Not reported  
Waste Code Description: 181 - Other inorganic solid waste Organics  
RCRA Code: F006  
Meth Code: D99 - Disposal, Other  
Quantity Tons: 2.2875  
Waste Quantity: 4575  
Quantity Unit: P  
Additional Code 1: Not reported  
Additional Code 2: Not reported  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported

Additional Info:

Year: 2001  
Gen EPA ID: CAD053243051

Shipment Date: 20011115  
Creation Date: 1/16/2002 0:00:00  
Receipt Date: 20011115  
Manifest ID: 20759503  
Trans EPA ID: CAD069138899  
Trans Name: Not reported  
Trans 2 EPA ID: Not reported  
Trans 2 Name: Not reported  
TSDf EPA ID: CAD069138899  
Trans Name: Not reported  
TSDf Alt EPA ID: CAD069138899

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MENLOTECH INC (Continued)**

**1000111898**

TSDf Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	D008
Meth Code:	R01 - Recycler
Quantity Tons:	0.4
Waste Quantity:	800
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20011113
Creation Date:	1/16/2002 0:00:00
Receipt Date:	20011115
Manifest ID:	21180401
Trans EPA ID:	CAD010925576
Trans Name:	Not reported
Trans 2 EPA ID:	NJD986607380
Trans 2 Name:	Not reported
TSDf EPA ID:	CAD008488025
Trans Name:	Not reported
TSDf Alt EPA ID:	CAD008488025
TSDf Alt Name:	Not reported
Waste Code Description:	132 - Aqueous solution w/metals (< restricted levels and see waste code 121 for a list of metals
RCRA Code:	D002
Meth Code:	R01 - Recycler
Quantity Tons:	0.9174
Waste Quantity:	220
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20011018
Creation Date:	1/16/2002 0:00:00
Receipt Date:	20011025
Manifest ID:	21180400
Trans EPA ID:	CAD010925576
Trans Name:	Not reported
Trans 2 EPA ID:	NJD986607380
Trans 2 Name:	Not reported
TSDf EPA ID:	CAD008488025
Trans Name:	Not reported
TSDf Alt EPA ID:	CAD008488025
TSDf Alt Name:	Not reported
Waste Code Description:	132 - Aqueous solution w/metals (< restricted levels and see waste code 121 for a list of metals
RCRA Code:	D002
Meth Code:	R01 - Recycler
Quantity Tons:	1.3761
Waste Quantity:	330
Quantity Unit:	G

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MENLOTECH INC (Continued)**

**1000111898**

Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20011005
Creation Date:	1/16/2002 0:00:00
Receipt Date:	20011012
Manifest ID:	21182654
Trans EPA ID:	CAD010925576
Trans Name:	Not reported
Trans 2 EPA ID:	NJD986607380
Trans 2 Name:	Not reported
TSDf EPA ID:	CAD097030993
Trans Name:	Not reported
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	F006
Meth Code:	D99 - Disposal, Other
Quantity Tons:	2.3075
Waste Quantity:	4615
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20010906
Creation Date:	12/17/2001 0:00:00
Receipt Date:	20010912
Manifest ID:	20073999
Trans EPA ID:	CAD010925576
Trans Name:	Not reported
Trans 2 EPA ID:	NJD986607380
Trans 2 Name:	Not reported
TSDf EPA ID:	CAD008488025
Trans Name:	Not reported
TSDf Alt EPA ID:	CAD008488025
TSDf Alt Name:	Not reported
Waste Code Description:	132 - Aqueous solution w/metals (< restricted levels and see waste code 121 for a list of metals
RCRA Code:	D002
Meth Code:	R01 - Recycler
Quantity Tons:	1.3761
Waste Quantity:	330
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20010810
Creation Date:	10/1/2001 0:00:00

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MENLOTECH INC (Continued)**

**1000111898**

Receipt Date: Not reported  
Manifest ID: 99476371  
Trans EPA ID: CAD982413262  
Trans Name: Not reported  
Trans 2 EPA ID: Not reported  
Trans 2 Name: Not reported  
TSDf EPA ID: CAD059494310  
Trans Name: Not reported  
TSDf Alt EPA ID: Not reported  
TSDf Alt Name: Not reported  
Waste Code Description: 741 - Liquids with halogenated organic compounds > 1000 mg/l  
RCRA Code: F002  
Meth Code: - Not reported  
Quantity Tons: 0.417  
Waste Quantity: 100  
Quantity Unit: G  
Additional Code 1: Not reported  
Additional Code 2: Not reported  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported

Shipment Date: 20010810  
Creation Date: 10/1/2001 0:00:00  
Receipt Date: 20010810  
Manifest ID: 20759392  
Trans EPA ID: CAD069138899  
Trans Name: Not reported  
Trans 2 EPA ID: Not reported  
Trans 2 Name: Not reported  
TSDf EPA ID: CAD069138899  
Trans Name: Not reported  
TSDf Alt EPA ID: CAD069138899  
TSDf Alt Name: Not reported  
Waste Code Description: 181 - Other inorganic solid waste Organics  
RCRA Code: D008  
Meth Code: R01 - Recycler  
Quantity Tons: 0.3  
Waste Quantity: 600  
Quantity Unit: P  
Additional Code 1: Not reported  
Additional Code 2: Not reported  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported

Shipment Date: 20010731  
Creation Date: 10/3/2001 0:00:00  
Receipt Date: 20010802  
Manifest ID: 20745198  
Trans EPA ID: CAD010925576  
Trans Name: Not reported  
Trans 2 EPA ID: NJD986607380  
Trans 2 Name: Not reported  
TSDf EPA ID: CAD008488025  
Trans Name: Not reported  
TSDf Alt EPA ID: CAD008488025

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MENLOTECH INC (Continued)**

**1000111898**

TSDF Alt Name:	Not reported
Waste Code Description:	132 - Aqueous solution w/metals (< restricted levels and see waste code 121 for a list of metals
RCRA Code:	D002
Meth Code:	R01 - Recycler
Quantity Tons:	2.0641
Waste Quantity:	495
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20010726
Creation Date:	10/23/2001 0:00:00
Receipt Date:	20010803
Manifest ID:	21180610
Trans EPA ID:	CAD010925576
Trans Name:	Not reported
Trans 2 EPA ID:	CAR000047696
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	F006
Meth Code:	D99 - Disposal, Other
Quantity Tons:	2.505
Waste Quantity:	5010
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20010625
Creation Date:	10/1/2001 0:00:00
Receipt Date:	20010706
Manifest ID:	20744731
Trans EPA ID:	CAD010925576
Trans Name:	Not reported
Trans 2 EPA ID:	NJD986607380
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	F006
Meth Code:	D99 - Disposal, Other
Quantity Tons:	2.505
Waste Quantity:	5010
Quantity Unit:	P
Additional Code 1:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MENLOTECH INC (Continued)**

**1000111898**

Additional Code 2: Not reported  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported

Additional Info:

Year: 2000  
Gen EPA ID: CAD053243051

Shipment Date: 20001227  
Creation Date: 3/6/2001 0:00:00  
Receipt Date: 20001227  
Manifest ID: 20427383  
Trans EPA ID: CAD069138899  
Trans Name: Not reported  
Trans 2 EPA ID: Not reported  
Trans 2 Name: Not reported  
TSDf EPA ID: CAD069138899  
Trans Name: Not reported  
TSDf Alt EPA ID: CAD069138899  
TSDf Alt Name: Not reported  
Waste Code Description: 181 - Other inorganic solid waste Organics  
RCRA Code: D008  
Meth Code: R01 - Recycler  
Quantity Tons: 0.35  
Waste Quantity: 700  
Quantity Unit: P  
Additional Code 1: Not reported  
Additional Code 2: Not reported  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported

Shipment Date: 20001214  
Creation Date: 3/5/2001 0:00:00  
Receipt Date: 20001226  
Manifest ID: 20581032  
Trans EPA ID: CAD010925576  
Trans Name: Not reported  
Trans 2 EPA ID: CAR000047696  
Trans 2 Name: Not reported  
TSDf EPA ID: CAT000646117  
Trans Name: Not reported  
TSDf Alt EPA ID: CAT000646117  
TSDf Alt Name: Not reported  
Waste Code Description: 352 - Other organic solids  
RCRA Code: D008  
Meth Code: D99 - Disposal, Other  
Quantity Tons: 0.606  
Waste Quantity: 1212  
Quantity Unit: P  
Additional Code 1: Not reported  
Additional Code 2: Not reported  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MENLOTECH INC (Continued)**

**1000111898**

Shipment Date: 20001207  
Creation Date: 3/5/2001 0:00:00  
Receipt Date: 20001211  
Manifest ID: 20260050  
Trans EPA ID: CAD010925576  
Trans Name: Not reported  
Trans 2 EPA ID: NJD986607380  
Trans 2 Name: Not reported  
TSDf EPA ID: CAD008488025  
Trans Name: Not reported  
TSDf Alt EPA ID: CAD008488025  
TSDf Alt Name: Not reported  
Waste Code Description: 132 - Aqueous solution w/metals (< restricted levels and see waste code 121 for a list of metals)

RCRA Code: D002  
Meth Code: T01 - Treatment, Tank  
Quantity Tons: 1.3761  
Waste Quantity: 330  
Quantity Unit: G  
Additional Code 1: Not reported  
Additional Code 2: Not reported  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported

Shipment Date: 20001207  
Creation Date: 3/6/2001 0:00:00  
Receipt Date: 20001215  
Manifest ID: 20484201  
Trans EPA ID: CAD010925576  
Trans Name: Not reported  
Trans 2 EPA ID: CAR000047696  
Trans 2 Name: Not reported  
TSDf EPA ID: CAD097030993  
Trans Name: Not reported  
TSDf Alt EPA ID: CAD097030993  
TSDf Alt Name: Not reported  
Waste Code Description: 181 - Other inorganic solid waste Organics

RCRA Code: F006  
Meth Code: D99 - Disposal, Other  
Quantity Tons: 3  
Waste Quantity: 6000  
Quantity Unit: P  
Additional Code 1: Not reported  
Additional Code 2: Not reported  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported

Shipment Date: 20001113  
Creation Date: 1/12/2001 0:00:00  
Receipt Date: 20001116  
Manifest ID: 20580793  
Trans EPA ID: CAD010925576  
Trans Name: Not reported  
Trans 2 EPA ID: NJD986607380  
Trans 2 Name: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MENLOTECH INC (Continued)**

**1000111898**

TSDF EPA ID:	CAD008488025
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	132 - Aqueous solution w/metals (< restricted levels and see waste code 121 for a list of metals
RCRA Code:	D002
Meth Code:	T01 - Treatment, Tank
Quantity Tons:	1.8348
Waste Quantity:	440
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20001103
Creation Date:	1/9/2001 0:00:00
Receipt Date:	20001103
Manifest ID:	20427274
Trans EPA ID:	CAD069138899
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD069138899
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD069138899
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	D008
Meth Code:	R01 - Recycler
Quantity Tons:	0.25
Waste Quantity:	500
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20001027
Creation Date:	1/9/2001 0:00:00
Receipt Date:	20001101
Manifest ID:	20260049
Trans EPA ID:	CAD010925576
Trans Name:	Not reported
Trans 2 EPA ID:	NJD986607380
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008488025
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD008488025
TSDF Alt Name:	Not reported
Waste Code Description:	132 - Aqueous solution w/metals (< restricted levels and see waste code 121 for a list of metals
RCRA Code:	D002
Meth Code:	T01 - Treatment, Tank



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MENLOTECH INC (Continued)**

**1000111898**

Quantity Tons:	0.688
Waste Quantity:	165
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20001023
Creation Date:	2/1/2001 0:00:00
Receipt Date:	20001103
Manifest ID:	20484082
Trans EPA ID:	CAD010925576
Trans Name:	Not reported
Trans 2 EPA ID:	CAD009230244
Trans 2 Name:	Not reported
TSDf EPA ID:	CAD097030993
Trans Name:	Not reported
TSDf Alt EPA ID:	CAD097030993
TSDf Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	F006
Meth Code:	- Not reported
Quantity Tons:	1.95
Waste Quantity:	3900
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20001020
Creation Date:	1/9/2001 0:00:00
Receipt Date:	20001025
Manifest ID:	20260053
Trans EPA ID:	CAD010925576
Trans Name:	Not reported
Trans 2 EPA ID:	NJD986607380
Trans 2 Name:	Not reported
TSDf EPA ID:	CAD008488025
Trans Name:	Not reported
TSDf Alt EPA ID:	CAD008488025
TSDf Alt Name:	Not reported
Waste Code Description:	132 - Aqueous solution w/metals (< restricted levels and see waste code 121 for a list of metals
RCRA Code:	D002
Meth Code:	T01 - Treatment, Tank
Quantity Tons:	2.9815
Waste Quantity:	715
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MENLOTECH INC (Continued)**

**1000111898**

Shipment Date: 20000922  
Creation Date: 12/8/2000 0:00:00  
Receipt Date: 20000928  
Manifest ID: 20260052  
Trans EPA ID: CAD010925576  
Trans Name: Not reported  
Trans 2 EPA ID: NJD986607380  
Trans 2 Name: Not reported  
TSDf EPA ID: CAD008488025  
Trans Name: Not reported  
TSDf Alt EPA ID: Not reported  
TSDf Alt Name: Not reported  
Waste Code Description: 132 - Aqueous solution w/metals (< restricted levels and see waste code 121 for a list of metals  
  
RCRA Code: D002  
Meth Code: T01 - Treatment, Tank  
Quantity Tons: 1.1467  
Waste Quantity: 275  
Quantity Unit: G  
Additional Code 1: Not reported  
Additional Code 2: Not reported  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported

Additional Info:

Year: 1999  
Gen EPA ID: CAD053243051

Shipment Date: 19991217  
Creation Date: 3/7/2000 0:00:00  
Receipt Date: 19991221  
Manifest ID: 99758633  
Trans EPA ID: CAD010925576  
Trans Name: Not reported  
Trans 2 EPA ID: NJD986607380  
Trans 2 Name: Not reported  
TSDf EPA ID: CAD008488025  
Trans Name: Not reported  
TSDf Alt EPA ID: CAD008488025  
TSDf Alt Name: Not reported  
Waste Code Description: 792 - Not reported  
RCRA Code: D002  
Meth Code: T01 - Treatment, Tank  
Quantity Tons: 1.1467  
Waste Quantity: 275  
Quantity Unit: G  
Additional Code 1: Not reported  
Additional Code 2: Not reported  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported

Shipment Date: 19991216  
Creation Date: 3/7/2000 0:00:00  
Receipt Date: 19991221  
Manifest ID: 99479465

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MENLOTECH INC (Continued)**

**1000111898**

Trans EPA ID:	CAD010925576
Trans Name:	Not reported
Trans 2 EPA ID:	NJD986607380
Trans 2 Name:	Not reported
TSDf EPA ID:	CAD008488025
Trans Name:	Not reported
TSDf Alt EPA ID:	CAD008488025
TSDf Alt Name:	Not reported
Waste Code Description:	132 - Aqueous solution w/metals (< restricted levels and see waste code 121 for a list of metals
RCRA Code:	D002
Meth Code:	T01 - Treatment, Tank
Quantity Tons:	1.3761
Waste Quantity:	330
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19991124
Creation Date:	2/1/2000 0:00:00
Receipt Date:	19991202
Manifest ID:	99458334
Trans EPA ID:	CAD010925576
Trans Name:	Not reported
Trans 2 EPA ID:	NJD986607380
Trans 2 Name:	Not reported
TSDf EPA ID:	CAD008488025
Trans Name:	Not reported
TSDf Alt EPA ID:	CAD008488025
TSDf Alt Name:	Not reported
Waste Code Description:	132 - Aqueous solution w/metals (< restricted levels and see waste code 121 for a list of metals
RCRA Code:	D002
Meth Code:	T01 - Treatment, Tank
Quantity Tons:	1.6054
Waste Quantity:	385
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19991110
Creation Date:	1/19/2000 0:00:00
Receipt Date:	19991116
Manifest ID:	99479309
Trans EPA ID:	CAD010925576
Trans Name:	Not reported
Trans 2 EPA ID:	NJD986607380
Trans 2 Name:	Not reported
TSDf EPA ID:	CAD008488025
Trans Name:	Not reported
TSDf Alt EPA ID:	CAD008488025

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MENLOTECH INC (Continued)**

**1000111898**

TSDF Alt Name:	Not reported
Waste Code Description:	132 - Aqueous solution w/metals (< restricted levels and see waste code 121 for a list of metals
RCRA Code:	D002
Meth Code:	T01 - Treatment, Tank
Quantity Tons:	1.6054
Waste Quantity:	385
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19991101
Creation Date:	1/4/2000 0:00:00
Receipt Date:	19991101
Manifest ID:	99291900
Trans EPA ID:	CAD069138899
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD069138899
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD069138899
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	D008
Meth Code:	R01 - Recycler
Quantity Tons:	0.3
Waste Quantity:	600
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19991029
Creation Date:	1/11/2000 0:00:00
Receipt Date:	19991105
Manifest ID:	99480549
Trans EPA ID:	CAD010925576
Trans Name:	Not reported
Trans 2 EPA ID:	CAD009230244
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	F006
Meth Code:	D99 - Disposal, Other
Quantity Tons:	2.25
Waste Quantity:	4500
Quantity Unit:	P
Additional Code 1:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MENLOTECH INC (Continued)**

**1000111898**

Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19991027
Creation Date:	1/11/2000 0:00:00
Receipt Date:	19991101
Manifest ID:	99479273
Trans EPA ID:	CAD010925576
Trans Name:	Not reported
Trans 2 EPA ID:	NJD986607380
Trans 2 Name:	Not reported
TSDf EPA ID:	CAD008488025
Trans Name:	Not reported
TSDf Alt EPA ID:	CAD008488025
TSDf Alt Name:	Not reported
Waste Code Description:	132 - Aqueous solution w/metals (< restricted levels and see waste code 121 for a list of metals
RCRA Code:	D002
Meth Code:	T01 - Treatment, Tank
Quantity Tons:	0.688
Waste Quantity:	165
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19991015
Creation Date:	12/17/1999 0:00:00
Receipt Date:	19991022
Manifest ID:	99458346
Trans EPA ID:	CAD010925576
Trans Name:	Not reported
Trans 2 EPA ID:	NJD986607380
Trans 2 Name:	Not reported
TSDf EPA ID:	CAD008488025
Trans Name:	Not reported
TSDf Alt EPA ID:	CAD008488025
TSDf Alt Name:	Not reported
Waste Code Description:	132 - Aqueous solution w/metals (< restricted levels and see waste code 121 for a list of metals
RCRA Code:	D002
Meth Code:	T01 - Treatment, Tank
Quantity Tons:	1.1467
Waste Quantity:	275
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19990930
Creation Date:	11/22/1999 0:00:00

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MENLOTECH INC (Continued)**

**1000111898**

Receipt Date: 19991006  
Manifest ID: 99479200  
Trans EPA ID: CAD010925576  
Trans Name: Not reported  
Trans 2 EPA ID: NJD986607380  
Trans 2 Name: Not reported  
TSDf EPA ID: CAD008488025  
Trans Name: Not reported  
TSDf Alt EPA ID: CAD008488025  
TSDf Alt Name: Not reported  
Waste Code Description: 132 - Aqueous solution w/metals (< restricted levels and see waste code 121 for a list of metals  
RCRA Code: D002  
Meth Code: T01 - Treatment, Tank  
Quantity Tons: 1.6054  
Waste Quantity: 385  
Quantity Unit: G  
Additional Code 1: Not reported  
Additional Code 2: Not reported  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported

Shipment Date: 19990928  
Creation Date: 11/19/1999 0:00:00  
Receipt Date: 19990928  
Manifest ID: 99593211  
Trans EPA ID: CAD069138899  
Trans Name: Not reported  
Trans 2 EPA ID: Not reported  
Trans 2 Name: Not reported  
TSDf EPA ID: CAD069138899  
Trans Name: Not reported  
TSDf Alt EPA ID: CAD069138899  
TSDf Alt Name: Not reported  
Waste Code Description: 181 - Other inorganic solid waste Organics  
RCRA Code: D008  
Meth Code: R01 - Recycler  
Quantity Tons: 0.3  
Waste Quantity: 600  
Quantity Unit: P  
Additional Code 1: Not reported  
Additional Code 2: Not reported  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported

Additional Info:  
Year: 1998  
Gen EPA ID: CAD053243051

Shipment Date: 19981211  
Creation Date: 1/28/1999 0:00:00  
Receipt Date: 19981211  
Manifest ID: 98499891  
Trans EPA ID: CAD069138899  
Trans Name: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MENLOTECH INC (Continued)**

**1000111898**

Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD069138899
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	D008
Meth Code:	R01 - Recycler
Quantity Tons:	0.175
Waste Quantity:	350
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19981207
Creation Date:	2/2/1999 0:00:00
Receipt Date:	19981210
Manifest ID:	98073169
Trans EPA ID:	CAD010925576
Trans Name:	Not reported
Trans 2 EPA ID:	NJD986607380
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008488025
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD008488025
TSDF Alt Name:	Not reported
Waste Code Description:	132 - Aqueous solution w/metals (< restricted levels and see waste code 121 for a list of metals
RCRA Code:	D002
Meth Code:	T01 - Treatment, Tank
Quantity Tons:	1.3761
Waste Quantity:	330
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19981109
Creation Date:	12/17/1998 0:00:00
Receipt Date:	19981109
Manifest ID:	96698700
Trans EPA ID:	CAD980888598
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980888598
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	711 - Liquids with cyanides > 1000 mg/l
RCRA Code:	D003

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MENLOTECH INC (Continued)**

**1000111898**

Meth Code:	R01 - Recycler
Quantity Tons:	0.4795
Waste Quantity:	115
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19981103
Creation Date:	12/17/1998 0:00:00
Receipt Date:	19981103
Manifest ID:	98499820
Trans EPA ID:	CAD069138899
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDf EPA ID:	CAD069138899
Trans Name:	Not reported
TSDf Alt EPA ID:	CAD069138899
TSDf Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	D008
Meth Code:	R01 - Recycler
Quantity Tons:	0.15
Waste Quantity:	300
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19981030
Creation Date:	12/17/1998 0:00:00
Receipt Date:	19981105
Manifest ID:	98073066
Trans EPA ID:	CAD010925576
Trans Name:	Not reported
Trans 2 EPA ID:	NJD986607380
Trans 2 Name:	Not reported
TSDf EPA ID:	CAD008488025
Trans Name:	Not reported
TSDf Alt EPA ID:	CAD008488025
TSDf Alt Name:	Not reported
Waste Code Description:	132 - Aqueous solution w/metals (< restricted levels and see waste code 121 for a list of metals
RCRA Code:	D002
Meth Code:	T01 - Treatment, Tank
Quantity Tons:	1.3761
Waste Quantity:	330
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MENLOTECH INC (Continued)**

**1000111898**

Additional Code 5:	Not reported
Shipment Date:	19981016
Creation Date:	12/8/1998 0:00:00
Receipt Date:	19981021
Manifest ID:	98073008
Trans EPA ID:	CAD010925576
Trans Name:	Not reported
Trans 2 EPA ID:	NJD986607380
Trans 2 Name:	Not reported
TSDf EPA ID:	CAD008488025
Trans Name:	Not reported
TSDf Alt EPA ID:	CAD008488025
TSDf Alt Name:	Not reported
Waste Code Description:	132 - Aqueous solution w/metals (< restricted levels and see waste code 121 for a list of metals
RCRA Code:	D002
Meth Code:	T01 - Treatment, Tank
Quantity Tons:	0.4587
Waste Quantity:	110
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19981008
Creation Date:	1/5/1999 0:00:00
Receipt Date:	19981016
Manifest ID:	98072971
Trans EPA ID:	CAD010925576
Trans Name:	Not reported
Trans 2 EPA ID:	CAD009230244
Trans 2 Name:	Not reported
TSDf EPA ID:	CAD097030993
Trans Name:	Not reported
TSDf Alt EPA ID:	CAD097030993
TSDf Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	F006
Meth Code:	R01 - Recycler
Quantity Tons:	2.0625
Waste Quantity:	4125
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19981006
Creation Date:	11/23/1998 0:00:00
Receipt Date:	19981009
Manifest ID:	98072922
Trans EPA ID:	CAD010925576
Trans Name:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MENLOTECH INC (Continued)**

**1000111898**

Trans 2 EPA ID:	NJD986607380
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008488025
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	132 - Aqueous solution w/metals (< restricted levels and see waste code 121 for a list of metals
RCRA Code:	D002
Meth Code:	T01 - Treatment, Tank
Quantity Tons:	0.9174
Waste Quantity:	220
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19981006
Creation Date:	12/7/1998 0:00:00
Receipt Date:	19981020
Manifest ID:	98072964
Trans EPA ID:	CAD010925576
Trans Name:	Not reported
Trans 2 EPA ID:	CAD009230244
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000646117
Trans Name:	Not reported
TSDF Alt EPA ID:	CAT000646117
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	D008
Meth Code:	D99 - Disposal, Other
Quantity Tons:	0.606
Waste Quantity:	1212
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19980923
Creation Date:	11/24/1998 0:00:00
Receipt Date:	19980923
Manifest ID:	98499708
Trans EPA ID:	CAD069138899
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD069138899
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD069138899
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	D008

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MENLOTECH INC (Continued)**

**1000111898**

Meth Code: R01 - Recycler  
Quantity Tons: 0.25  
Waste Quantity: 500  
Quantity Unit: P  
Additional Code 1: Not reported  
Additional Code 2: Not reported  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported

Additional Info:

Year: 1997  
Gen EPA ID: CAD053243051

Shipment Date: 19971222  
Creation Date: 7/23/1998 0:00:00  
Receipt Date: 19971226  
Manifest ID: 96773345  
Trans EPA ID: CAD010925576  
Trans Name: Not reported  
Trans 2 EPA ID: NJD986607380  
Trans 2 Name: Not reported  
TSDf EPA ID: CAD008488025  
Trans Name: Not reported  
TSDf Alt EPA ID: CAD008488025  
TSDf Alt Name: Not reported  
Waste Code Description: 132 - Aqueous solution w/metals (< restricted levels and see waste code 121 for a list of metals)

RCRA Code: D002  
Meth Code: T01 - Treatment, Tank  
Quantity Tons: 1.1467  
Waste Quantity: 275  
Quantity Unit: G  
Additional Code 1: Not reported  
Additional Code 2: Not reported  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported

Shipment Date: 19971212  
Creation Date: 7/23/1998 0:00:00  
Receipt Date: 19971212  
Manifest ID: 96808210  
Trans EPA ID: CAD069138899  
Trans Name: Not reported  
Trans 2 EPA ID: Not reported  
Trans 2 Name: Not reported  
TSDf EPA ID: CAD069138899  
Trans Name: Not reported  
TSDf Alt EPA ID: CAD069138899  
TSDf Alt Name: Not reported  
Waste Code Description: 181 - Other inorganic solid waste Organics  
RCRA Code: D006  
Meth Code: R01 - Recycler  
Quantity Tons: 0.275  
Waste Quantity: 550  
Quantity Unit: P

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MENLOTECH INC (Continued)**

**1000111898**

Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19971209
Creation Date:	7/23/1998 0:00:00
Receipt Date:	19971216
Manifest ID:	96773303
Trans EPA ID:	CAD010925576
Trans Name:	Not reported
Trans 2 EPA ID:	NJD986607380
Trans 2 Name:	Not reported
TSDf EPA ID:	CAD008488025
Trans Name:	Not reported
TSDf Alt EPA ID:	CAD008488025
TSDf Alt Name:	Not reported
Waste Code Description:	132 - Aqueous solution w/metals (< restricted levels and see waste code 121 for a list of metals
RCRA Code:	D002
Meth Code:	T01 - Treatment, Tank
Quantity Tons:	0.9174
Waste Quantity:	220
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19971208
Creation Date:	7/23/1998 0:00:00
Receipt Date:	19971211
Manifest ID:	96759720
Trans EPA ID:	CAD980584510
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDf EPA ID:	AZD980735500
Trans Name:	Not reported
TSDf Alt EPA ID:	AZD980735500
TSDf Alt Name:	Not reported
Waste Code Description:	171 - Metal sludge (see 121
RCRA Code:	F006
Meth Code:	R01 - Recycler
Quantity Tons:	1
Waste Quantity:	2000
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19971201
Creation Date:	7/23/1998 0:00:00

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MENLOTECH INC (Continued)**

**1000111898**

Receipt Date:	19971205
Manifest ID:	96773203
Trans EPA ID:	CAD010925576
Trans Name:	Not reported
Trans 2 EPA ID:	NJD986607380
Trans 2 Name:	Not reported
TSDf EPA ID:	CAD008488025
Trans Name:	Not reported
TSDf Alt EPA ID:	CAD008488025
TSDf Alt Name:	Not reported
Waste Code Description:	132 - Aqueous solution w/metals (< restricted levels and see waste code 121 for a list of metals
RCRA Code:	D002
Meth Code:	T01 - Treatment, Tank
Quantity Tons:	1.1467
Waste Quantity:	275
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19971113
Creation Date:	7/23/1998 0:00:00
Receipt Date:	19971118
Manifest ID:	96773201
Trans EPA ID:	CAD010925576
Trans Name:	Not reported
Trans 2 EPA ID:	NJD986607380
Trans 2 Name:	Not reported
TSDf EPA ID:	CAD008488025
Trans Name:	Not reported
TSDf Alt EPA ID:	CAD008488025
TSDf Alt Name:	Not reported
Waste Code Description:	132 - Aqueous solution w/metals (< restricted levels and see waste code 121 for a list of metals
RCRA Code:	D002
Meth Code:	T01 - Treatment, Tank
Quantity Tons:	0.688
Waste Quantity:	165
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19971104
Creation Date:	7/23/1998 0:00:00
Receipt Date:	19971107
Manifest ID:	96773933
Trans EPA ID:	CAD010925576
Trans Name:	Not reported
Trans 2 EPA ID:	NJD986607380
Trans 2 Name:	Not reported
TSDf EPA ID:	CAD008488025

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MENLOTECH INC (Continued)**

**1000111898**

Trans Name:	Not reported
TSDF Alt EPA ID:	CAD008488025
TSDF Alt Name:	Not reported
Waste Code Description:	132 - Aqueous solution w/metals (< restricted levels and see waste code 121 for a list of metals
RCRA Code:	D002
Meth Code:	T01 - Treatment, Tank
Quantity Tons:	0.9174
Waste Quantity:	220
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19971021
Creation Date:	7/23/1998 0:00:00
Receipt Date:	19971027
Manifest ID:	96773888
Trans EPA ID:	CAD010925576
Trans Name:	Not reported
Trans 2 EPA ID:	NJD986607380
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008488025
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD008488025
TSDF Alt Name:	Not reported
Waste Code Description:	132 - Aqueous solution w/metals (< restricted levels and see waste code 121 for a list of metals
RCRA Code:	D002
Meth Code:	T01 - Treatment, Tank
Quantity Tons:	0.688
Waste Quantity:	165
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19971008
Creation Date:	7/23/1998 0:00:00
Receipt Date:	19971013
Manifest ID:	96773753
Trans EPA ID:	CAD010925576
Trans Name:	Not reported
Trans 2 EPA ID:	NJD986607380
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008488025
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD008488025
TSDF Alt Name:	Not reported
Waste Code Description:	132 - Aqueous solution w/metals (< restricted levels and see waste code 121 for a list of metals
RCRA Code:	D002
Meth Code:	T01 - Treatment, Tank

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MENLOTECH INC (Continued)**

**1000111898**

Quantity Tons:	1.1467
Waste Quantity:	275
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19970929
Creation Date:	7/23/1998 0:00:00
Receipt Date:	19971006
Manifest ID:	96759884
Trans EPA ID:	CAD059240713
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDf EPA ID:	AZD980735500
Trans Name:	Not reported
TSDf Alt EPA ID:	AZD980735500
TSDf Alt Name:	Not reported
Waste Code Description:	171 - Metal sludge (see 121
RCRA Code:	F006
Meth Code:	R01 - Recycler
Quantity Tons:	2.5
Waste Quantity:	5000
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Additional Info:	
Year:	1996
Gen EPA ID:	CAD053243051
Shipment Date:	19961219
Creation Date:	5/20/1997 0:00:00
Receipt Date:	19961224
Manifest ID:	96311380
Trans EPA ID:	CAD095991253
Trans Name:	Not reported
Trans 2 EPA ID:	CAD076303254
Trans 2 Name:	Not reported
TSDf EPA ID:	CAD983650490
Trans Name:	Not reported
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	123 - Unspecified alkaline solution
RCRA Code:	D002
Meth Code:	R01 - Recycler
Quantity Tons:	0.688
Waste Quantity:	165
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MENLOTECH INC (Continued)**

**1000111898**

Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19961213
Creation Date:	5/20/1997 0:00:00
Receipt Date:	19961213
Manifest ID:	96049609
Trans EPA ID:	CAD069138899
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD069138899
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	D008
Meth Code:	R01 - Recycler
Quantity Tons:	0.1
Waste Quantity:	200
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19961127
Creation Date:	6/26/1997 0:00:00
Receipt Date:	19961209
Manifest ID:	95873536
Trans EPA ID:	CAD065347996
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	AZD980735500
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	171 - Metal sludge (see 121
RCRA Code:	F006
Meth Code:	R01 - Recycler
Quantity Tons:	1
Waste Quantity:	2000
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19961127
Creation Date:	5/20/1997 0:00:00
Receipt Date:	19961203
Manifest ID:	96311035
Trans EPA ID:	CAD095991253



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MENLOTECH INC (Continued)**

**1000111898**

Trans Name: Not reported  
Trans 2 EPA ID: CAD076303254  
Trans 2 Name: Not reported  
TSDf EPA ID: CAD983650490  
Trans Name: Not reported  
TSDf Alt EPA ID: Not reported  
TSDf Alt Name: Not reported  
Waste Code Description: 123 - Unspecified alkaline solution  
RCRA Code: D002  
Meth Code: R01 - Recycler  
Quantity Tons: 0.9174  
Waste Quantity: 220  
Quantity Unit: G  
Additional Code 1: Not reported  
Additional Code 2: Not reported  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported

Shipment Date: 19961113  
Creation Date: 5/20/1997 0:00:00  
Receipt Date: 19961119  
Manifest ID: 96326302  
Trans EPA ID: CAD095991253  
Trans Name: Not reported  
Trans 2 EPA ID: CAD076303254  
Trans 2 Name: Not reported  
TSDf EPA ID: CAD983650490  
Trans Name: Not reported  
TSDf Alt EPA ID: Not reported  
TSDf Alt Name: Not reported  
Waste Code Description: 123 - Unspecified alkaline solution  
RCRA Code: D002  
Meth Code: R01 - Recycler  
Quantity Tons: 1.3761  
Waste Quantity: 330  
Quantity Unit: G  
Additional Code 1: Not reported  
Additional Code 2: Not reported  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported

Shipment Date: 19961017  
Creation Date: 5/20/1997 0:00:00  
Receipt Date: 19961025  
Manifest ID: 96326083  
Trans EPA ID: CAD095991253  
Trans Name: Not reported  
Trans 2 EPA ID: CAD076303254  
Trans 2 Name: Not reported  
TSDf EPA ID: CAD983650490  
Trans Name: Not reported  
TSDf Alt EPA ID: Not reported  
TSDf Alt Name: Not reported  
Waste Code Description: 123 - Unspecified alkaline solution  
RCRA Code: D002

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MENLOTECH INC (Continued)**

**1000111898**

Meth Code:	R01 - Recycler
Quantity Tons:	1.1467
Waste Quantity:	275
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19960925
Creation Date:	5/20/1997 0:00:00
Receipt Date:	19961001
Manifest ID:	96326616
Trans EPA ID:	CAD095991253
Trans Name:	Not reported
Trans 2 EPA ID:	CAD076303254
Trans 2 Name:	Not reported
TSDf EPA ID:	CAD983650490
Trans Name:	Not reported
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	123 - Unspecified alkaline solution
RCRA Code:	D002
Meth Code:	R01 - Recycler
Quantity Tons:	1.6054
Waste Quantity:	385
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19960923
Creation Date:	5/20/1997 0:00:00
Receipt Date:	19960923
Manifest ID:	96049857
Trans EPA ID:	CAD069138899
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDf EPA ID:	CAD069138899
Trans Name:	Not reported
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	D008
Meth Code:	R01 - Recycler
Quantity Tons:	0.25
Waste Quantity:	500
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MENLOTECH INC (Continued)**

**1000111898**

Shipment Date:	19960919
Creation Date:	6/26/1997 0:00:00
Receipt Date:	19960919
Manifest ID:	96339110
Trans EPA ID:	CAD982413262
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDf EPA ID:	CAD980887418
Trans Name:	Not reported
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.95
Waste Quantity:	250
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19960903
Creation Date:	5/20/1997 0:00:00
Receipt Date:	19960906
Manifest ID:	96128844
Trans EPA ID:	CAD095991253
Trans Name:	Not reported
Trans 2 EPA ID:	CAD076303254
Trans 2 Name:	Not reported
TSDf EPA ID:	CAD983650490
Trans Name:	Not reported
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	123 - Unspecified alkaline solution
RCRA Code:	D002
Meth Code:	R01 - Recycler
Quantity Tons:	1.1467
Waste Quantity:	275
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Additional Info:	
Year:	1995
Gen EPA ID:	CAD053243051
Shipment Date:	19951220
Creation Date:	7/29/1996 0:00:00
Receipt Date:	19951222
Manifest ID:	93707853
Trans EPA ID:	CAD980584510

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MENLOTECH INC (Continued)**

**1000111898**

Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDf EPA ID:	AZD980735500
Trans Name:	Not reported
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	171 - Metal sludge (see 121
RCRA Code:	F006
Meth Code:	R01 - Recycler
Quantity Tons:	1
Waste Quantity:	2000
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19951211
Creation Date:	7/26/1996 0:00:00
Receipt Date:	19951214
Manifest ID:	95730144
Trans EPA ID:	CAD095991253
Trans Name:	Not reported
Trans 2 EPA ID:	CAD076303254
Trans 2 Name:	Not reported
TSDf EPA ID:	CAD983650490
Trans Name:	Not reported
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	123 - Unspecified alkaline solution
RCRA Code:	D002
Meth Code:	R01 - Recycler
Quantity Tons:	0.688
Waste Quantity:	165
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19951128
Creation Date:	7/26/1996 0:00:00
Receipt Date:	19951130
Manifest ID:	95720272
Trans EPA ID:	CAD095991253
Trans Name:	Not reported
Trans 2 EPA ID:	CAD076303254
Trans 2 Name:	Not reported
TSDf EPA ID:	CAD983650490
Trans Name:	Not reported
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	123 - Unspecified alkaline solution
RCRA Code:	D002

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MENLOTECH INC (Continued)**

**1000111898**

Meth Code:	R01 - Recycler
Quantity Tons:	1.3761
Waste Quantity:	330
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19951103
Creation Date:	7/26/1996 0:00:00
Receipt Date:	19951107
Manifest ID:	95719872
Trans EPA ID:	CAD095991253
Trans Name:	Not reported
Trans 2 EPA ID:	CAD076303254
Trans 2 Name:	Not reported
TSDf EPA ID:	CAD983650490
Trans Name:	Not reported
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	123 - Unspecified alkaline solution
RCRA Code:	D002
Meth Code:	R01 - Recycler
Quantity Tons:	1.3761
Waste Quantity:	330
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19951020
Creation Date:	7/26/1996 0:00:00
Receipt Date:	19951024
Manifest ID:	95685575
Trans EPA ID:	CAD095991253
Trans Name:	Not reported
Trans 2 EPA ID:	CA0076303254
Trans 2 Name:	Not reported
TSDf EPA ID:	CAD983650490
Trans Name:	Not reported
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	123 - Unspecified alkaline solution
RCRA Code:	D002
Meth Code:	R01 - Recycler
Quantity Tons:	1.3761
Waste Quantity:	330
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MENLOTECH INC (Continued)**

**1000111898**

Shipment Date:	19950928
Creation Date:	7/26/1996 0:00:00
Receipt Date:	19951009
Manifest ID:	95685576
Trans EPA ID:	CAD095991253
Trans Name:	Not reported
Trans 2 EPA ID:	CAD076303254
Trans 2 Name:	Not reported
TSDf EPA ID:	CAD983650490
Trans Name:	Not reported
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	123 - Unspecified alkaline solution
RCRA Code:	D002
Meth Code:	R01 - Recycler
Quantity Tons:	1.3761
Waste Quantity:	330
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19950911
Creation Date:	4/1/1996 0:00:00
Receipt Date:	19950912
Manifest ID:	92296188
Trans EPA ID:	NJD986619328
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDf EPA ID:	CAD008488025
Trans Name:	Not reported
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	132 - Aqueous solution w/metals (< restricted levels and see waste code 121 for a list of metals
RCRA Code:	D002
Meth Code:	T01 - Treatment, Tank
Quantity Tons:	0.9174
Waste Quantity:	220
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19950822
Creation Date:	4/2/1996 0:00:00
Receipt Date:	19950829
Manifest ID:	92296187
Trans EPA ID:	NJD986619328
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MENLOTECH INC (Continued)**

**1000111898**

TSDf EPA ID:	CAD008488025
Trans Name:	Not reported
TSDf Alt EPA ID:	CAD008488025
TSDf Alt Name:	Not reported
Waste Code Description:	132 - Aqueous solution w/metals (< restricted levels and see waste code 121 for a list of metals
RCRA Code:	D002
Meth Code:	T01 - Treatment, Tank
Quantity Tons:	1.1467
Waste Quantity:	275
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19950801
Creation Date:	4/2/1996 0:00:00
Receipt Date:	19950805
Manifest ID:	92296198
Trans EPA ID:	NJD986619328
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDf EPA ID:	CAD008488025
Trans Name:	Not reported
TSDf Alt EPA ID:	CAD008488025
TSDf Alt Name:	Not reported
Waste Code Description:	132 - Aqueous solution w/metals (< restricted levels and see waste code 121 for a list of metals
RCRA Code:	D002
Meth Code:	T01 - Treatment, Tank
Quantity Tons:	1.1467
Waste Quantity:	275
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19950711
Creation Date:	4/2/1996 0:00:00
Receipt Date:	19950714
Manifest ID:	95443267
Trans EPA ID:	NJD986619328
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDf EPA ID:	CAD008488025
Trans Name:	Not reported
TSDf Alt EPA ID:	CAD008488025
TSDf Alt Name:	Not reported
Waste Code Description:	132 - Aqueous solution w/metals (< restricted levels and see waste code 121 for a list of metals
RCRA Code:	D002

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MENLOTECH INC (Continued)**

**1000111898**

Meth Code: T01 - Treatment, Tank  
Quantity Tons: 1.8348  
Waste Quantity: 440  
Quantity Unit: G  
Additional Code 1: Not reported  
Additional Code 2: Not reported  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported

**CIWQS:**

Name: MENLOTECH INC  
Address: 188 CONSTITUTION DR  
City,State,Zip: MENLO PARK, CA 94025  
Agency: Mentotech Inc  
Agency Address: 188 Constitution Dr, Menlo Park, CA 94025  
Place/Project Type: Industrial - Printed Circuit Boards  
SIC/NAICS: 3672  
Region: 2  
Program: INDSTW  
Regulatory Measure Status: Terminated  
Regulatory Measure Type: Storm water industrial  
Order Number: 2014-0057-DWQ  
WDID: 2 411011305  
NPDES Number: CAS000001  
Adoption Date: Not reported  
Effective Date: 12/08/1994  
Termination Date: 04/05/2001  
Expiration/Review Date: Not reported  
Design Flow: Not reported  
Major/Minor: Not reported  
Complexity: Not reported  
TTWQ: Not reported  
Enforcement Actions within 5 years: 0  
Violations within 5 years: 0  
Latitude: 37.48365  
Longitude: -122.17228

**CERS:**

Name: MENLO TECH  
Address: 188 CONSTITUTION  
City,State,Zip: MENLO PARK, CA 94025  
Site ID: 243540  
CERS ID: SL0608198685  
CERS Description: Cleanup Program Site

**Affiliation:**

Affiliation Type Desc: Regional Board Caseworker  
Entity Name: Regional Water Board - SAN FRANCISCO BAY RWQCB (REGION 2)  
Entity Title: Not reported  
Affiliation Address: 1515 CLAY ST SUITE 1400  
Affiliation City: OAKLAND  
Affiliation State: CA  
Affiliation Country: Not reported  
Affiliation Zip: Not reported  
Affiliation Phone: ,



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MENLOTECH INC (Continued)**

**1000111898**

Affiliation Type Desc: Regional Board Caseworker  
Entity Name: UUU - SAN FRANCISCO BAY RWQCB (REGION 2)  
Entity Title: Not reported  
Affiliation Address: 1515 CLAY ST SUITE 1400  
Affiliation City: OAKLAND  
Affiliation State: CA  
Affiliation Country: Not reported  
Affiliation Zip: Not reported  
Affiliation Phone: ,

**HWTS:**

Name: MENLOTECH INC  
Address: 188 CONSTITUTION DR  
Address 2: Not reported  
City,State,Zip: MENLO PARK, CA 94025  
EPA ID: CAD053243051  
Inactive Date: 06/30/2005  
Create Date: 07/23/1982  
Last Act Date: Not reported  
Mailing Name: Not reported  
Mailing Address: 188 CONSTITUTION DR  
Mailing Address 2: Not reported  
Mailing City,State,Zip: MENLO PARK, CA 940251117  
Owner Name: RAY MANBERRET  
Owner Address: 188 CONSTITUTION DR  
Owner Address 2: Not reported  
Owner City,State,Zip: MENLO PARK, CA 940251117  
Contact Name: RAY MANBERRET  
Contact Address: 188 CONSTITUTION DR  
Contact Address 2: Not reported  
City,State,Zip: MENLO PARK, CA 940251117  
Facility Status: Inactive  
Facility Type: PERMANENT  
Category: FEDERAL  
Latitude: 37.483688  
Longitude: -122.1724

**NAICS:**

EPA ID: CAD053243051  
Create Date: 2002-03-14 16:36:26.000  
NAICS Code: 334412  
NAICS Description: Bare Printed Circuit Board Manufacturing  
Issued EPA ID Date: 1982-07-23 00:00:00  
Inactive Date: 2005-06-30 15:01:00  
Facility Name: MENLOTECH INC  
Facility Address: 188 CONSTITUTION DR  
Facility Address 2: Not reported  
Facility City: MENLO PARK  
Facility County: Not reported  
Facility State: CA  
Facility Zip: 940251117

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

177  
SSW  
1/2-1  
0.613 mi.  
3237 ft.

**FORMER GAS STATION**  
955 MARSH ROAD  
REDWOOD CITY, CA 92257

CA Notify 65 S100178996  
N/A

Relative:  
Higher  
Actual:  
24 ft.

NOTIFY 65:  
Name: FORMER GAS STATION  
Address: 955 MARSH ROAD  
City,State,Zip: REDWOOD CITY, CA 92257  
Date Reported: Not reported  
Staff Initials: Not reported  
Board File Number: Not reported  
Facility Type: Not reported  
Discharge Date: Not reported  
Issue Date: Not reported  
Incident Description: Not reported  
Global ID: Not reported  
Status: Not reported

178  
NE  
1/2-1  
0.695 mi.  
3669 ft.

**BROWNING-FERRIS INDUSTRIES**  
END OF MARSH ROAD, EAST OF HIGHWAY 101  
MENLO PARK, CA 94025

CA ENVIROSTOR S100538945  
N/A

Relative:  
Lower  
Actual:  
5 ft.

ENVIROSTOR:  
Name: BROWNING-FERRIS INDUSTRIES  
Address: END OF MARSH ROAD, EAST OF HIGHWAY 101  
City,State,Zip: MENLO PARK, CA 94025  
Facility ID: 41490048  
Status: Refer: RWQCB  
Status Date: 04/01/1985  
Site Code: Not reported  
Site Type: Historical  
Site Type Detailed: \* Historical  
Acres: Not reported  
NPL: NO  
Regulatory Agencies: NONE SPECIFIED  
Lead Agency: NONE SPECIFIED  
Program Manager: Not reported  
Supervisor: Referred - Not Assigned  
Division Branch: Cleanup Berkeley  
Assembly: Not reported  
Senate: Not reported  
Special Program: \* Site Char & Assess Grant (CERCLA 104)  
Restricted Use: NO  
Site Mgmt Req: NONE SPECIFIED  
Funding: Not reported  
Latitude: 37.49276  
Longitude: -122.1728  
APN: NONE SPECIFIED  
Past Use: NONE SPECIFIED  
Potential COC: \* HOUSEHOLD WASTES \* HYDROCARBON SOLVENTS \* OTHER STILL BOTTOM WASTE  
\* OXYGENATED SOLVENTS \* CONTAMINATED SOIL \* ACID SOLUTION 2>PH WITH  
METALS Asbestos Containing Materials (ACM \* BIOLOGICAL WASTE OTHER  
THAN SEWAGE SLUDGE \* Sludge - Paint \* Sludge - Sewage \* UNSPECIFIED  
AQUEOUS SOLUTION \* UNSPECIFIED SLUDGE WASTE \* UNSPECIFIED SOLVENT  
MIXTURES \* WASTE OIL & MIXED OIL \* SULFUR SLUDGE  
Confirmed COC: NONE SPECIFIED

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BROWNING-FERRIS INDUSTRIES (Continued)**

**S100538945**

Potential Description: NONE SPECIFIED  
Alias Name: BAYSIDE OIL CORPORATION  
Alias Type: Alternate Name  
Alias Name: KELLY-PICKERING CORPORATION  
Alias Type: Alternate Name  
Alias Name: MARSH ROAD SOLID WASTE DISPOSAL  
Alias Type: Alternate Name  
Alias Name: RAY CHEM  
Alias Type: Alternate Name  
Alias Name: RAYCHEM CORPORATION  
Alias Type: Alternate Name  
Alias Name: SAN MATEO DISPOSAL, SUB OF BROWNING-FERR  
Alias Type: Alternate Name  
Alias Name: STANFORD RESEARCH INSTITUTE  
Alias Type: Alternate Name  
Alias Name: CAD980636963  
Alias Type: EPA Identification Number  
Alias Name: CAD980636963  
Alias Type: HWTS Identification Code  
Alias Name: 41490048  
Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Site Screening  
Completed Date: 12/02/1987  
Comments: SITE SCREENING DONE SWAT LIST: RANK #2

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Preliminary Assessment Report  
Completed Date: 04/01/1985  
Comments: OTHER OPER: SAN MATEO DISP CO,225 SHORE- WAY,SAN CARLOS,CA  
94070,415-726-1819 BROWING SAYS SMALL AMOUNTS OF HZD WASTES DISP, BUT  
CO ENVR SAYS LARGE AMOUNTS OF INDUST WASTE. CITY CONTRACT W/ EMCON  
ASSOC & HAS SELF-MONITORING PROGRAM SUBMIT TO EPA PRELIM ASSESS DONE  
CERCLA 104

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: \* Discovery  
Completed Date: 10/12/1983  
Comments: FACILITY IDENTIFIED ID FROM ERRIS

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: \* Discovery  
Completed Date: 08/01/1980  
Comments: FACILITY IDENTIFIED ON DRIVE-BY

Future Area Name: Not reported  
Future Sub Area Name: Not reported  
Future Document Type: Not reported  
Future Due Date: Not reported  
Schedule Area Name: Not reported  
Schedule Sub Area Name: Not reported  
Schedule Document Type: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BROWNING-FERRIS INDUSTRIES (Continued)**

**S100538945**

Schedule Due Date: Not reported  
Schedule Revised Date: Not reported

179  
WSW  
1/2-1  
0.724 mi.  
3821 ft.

**REDWOOD CITY SD - TAFT COMMUNITY SCHOOL**  
**903 10TH AVENUE**  
**REDWOOD CITY, CA 94063**

**CA ENVIROSTOR**  
**CA SCH**  
**CA HAZNET**  
**CA HWTS**

**S112916128**  
**N/A**

**Relative:**  
**Higher**  
**Actual:**  
**16 ft.**

**ENVIROSTOR:**  
Name: REDWOOD CITY SD - TAFT COMMUNITY SCHOOL  
Address: 903 10TH AVENUE  
City,State,Zip: REDWOOD CITY, CA 94063  
Facility ID: 60002535  
Status: Inactive - Withdrawn  
Status Date: 07/17/2018  
Site Code: 204296  
Site Type: School Investigation  
Site Type Detailed: School  
Acres: 2  
NPL: NO  
Regulatory Agencies: SMBRP  
Lead Agency: SMBRP  
Program Manager: Mellan Songco  
Supervisor: Jose Salcedo  
Division Branch: Northern California Schools & Santa Susana  
Assembly: , 22  
Senate: , 13  
Special Program: Not reported  
Restricted Use: NO  
Site Mgmt Req: NONE SPECIFIED  
Funding: School District  
Latitude: 37.48107  
Longitude: -122.1936  
APN: 055-063-130  
Past Use: SCHOOL - ELEMENTARY  
Potential COC: Under Investigation Arsenic Chlordane DDD DDE DDT Endrin Lead  
Polychlorinated biphenyls (PCBs)  
Confirmed COC: Under Investigation  
Potential Description: SOIL, UE  
Alias Name: 055-063-130  
Alias Type: APN  
Alias Name: 204296  
Alias Type: Project Code (Site Code)  
Alias Name: 60002535  
Alias Type: Envirostor ID Number

**Completed Info:**

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Site Inspections/Visit (Non LUR)  
Completed Date: 12/13/2017  
Comments: On December 13, 2017, DTSC participated in a PEA scoping meeting with the District and their consultants (School Site Solutions and McCloskey Consulting) followed by a site walkthrough.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**REDWOOD CITY SD - TAFT COMMUNITY SCHOOL (Continued)**

**S112916128**

Completed Document Type: Site Inspections/Visit (Non LUR)  
Completed Date: 05/25/2018  
Comments: On May 25, 2018, DTSC observed the implementation of the approved PEA Workplan.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Environmental Oversight Agreement  
Completed Date: 12/05/2017  
Comments: Fully executed EOA sent to District on 12/06/17.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Correspondence  
Completed Date: 06/20/2018  
Comments: On June 20, 2018, DTSC received one hard copy of the advance payment notification.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Agreement Terminated Notification  
Completed Date: 07/17/2018  
Comments: On July 17, 2018, DTSC agrees to terminate the EOA per the District's request effective immediately.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Phase 1  
Completed Date: 09/27/2017  
Comments: On September 27, 2017, DTSC approved the Phase I and issued a PEA required determination.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Environmental Oversight Agreement Application  
Completed Date: 11/13/2017  
Comments: School Site Solutions submitted an application for an EOA on behalf of the District, via email, on 11/15/17.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Preliminary Endangerment Assessment Workplan  
Completed Date: 05/10/2018  
Comments: On May 10, 2018, DTSC approved the revised PEA workplan for implementation.

Future Area Name: Not reported  
Future Sub Area Name: Not reported  
Future Document Type: Not reported  
Future Due Date: Not reported  
Schedule Area Name: Not reported  
Schedule Sub Area Name: Not reported  
Schedule Document Type: Not reported  
Schedule Due Date: Not reported  
Schedule Revised Date: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

REDWOOD CITY SD - TAFT COMMUNITY SCHOOL (Continued)

S112916128

SCH:

Name: REDWOOD CITY SD - TAFT COMMUNITY SCHOOL  
Address: 903 10TH AVENUE  
City,State,Zip: REDWOOD CITY, CA 94063  
Facility ID: 60002535  
Site Type: School Investigation  
Site Type Detail: School  
Site Mgmt. Req.: NONE SPECIFIED  
Acres: 2  
National Priorities List: NO  
Cleanup Oversight Agencies: SMBRP  
Lead Agency: SMBRP  
Lead Agency Description: DTSC - Site Cleanup Program  
Project Manager: Mellan Songco  
Supervisor: Jose Salcedo  
Division Branch: Northern California Schools & Santa Susana  
Site Code: 204296  
Assembly: , 22  
Senate: , 13  
Special Program Status: Not reported  
Status: Inactive - Withdrawn  
Status Date: 07/17/2018  
Restricted Use: NO  
Funding: School District  
Latitude: 37.48107  
Longitude: -122.1936  
APN: 055-063-130  
Past Use: SCHOOL - ELEMENTARY  
Potential COC: Under Investigation, Arsenic, Chlordane, DDD, DDE, DDT, Endrin, Lead, Polychlorinated biphenyls (PCBs)  
Confirmed COC: Under Investigation  
Potential Description: SOIL, UE  
Alias Name: 055-063-130  
Alias Type: APN  
Alias Name: 204296  
Alias Type: Project Code (Site Code)  
Alias Name: 60002535  
Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Site Inspections/Visit (Non LUR)  
Completed Date: 12/13/2017  
Comments: On December 13, 2017, DTSC participated in a PEA scoping meeting with the District and their consultants (School Site Solutions and McCloskey Consulting) followed by a site walkthrough.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Site Inspections/Visit (Non LUR)  
Completed Date: 05/25/2018  
Comments: On May 25, 2018, DTSC observed the implementation of the approved PEA Workplan.

Completed Area Name: PROJECT WIDE

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**REDWOOD CITY SD - TAFT COMMUNITY SCHOOL (Continued)**

**S112916128**

Completed Sub Area Name: Not reported  
Completed Document Type: Environmental Oversight Agreement  
Completed Date: 12/05/2017  
Comments: Fully executed EOA sent to District on 12/06/17.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Correspondence  
Completed Date: 06/20/2018  
Comments: On June 20, 2018, DTSC received one hard copy of the advance payment notification.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Agreement Terminated Notification  
Completed Date: 07/17/2018  
Comments: On July 17, 2018, DTSC agrees to terminate the EOA per the District's request effective immediately.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Phase 1  
Completed Date: 09/27/2017  
Comments: On September 27, 2017, DTSC approved the Phase I and issued a PEA required determination.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Environmental Oversight Agreement Application  
Completed Date: 11/13/2017  
Comments: School Site Solutions submitted an application for an EOA on behalf of the District, via email, on 11/15/17.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Preliminary Endangerment Assessment Workplan  
Completed Date: 05/10/2018  
Comments: On May 10, 2018, DTSC approved the revised PEA workplan for implementation.

Future Area Name: Not reported  
Future Sub Area Name: Not reported  
Future Document Type: Not reported  
Future Due Date: Not reported  
Schedule Area Name: Not reported  
Schedule Sub Area Name: Not reported  
Schedule Document Type: Not reported  
Schedule Due Date: Not reported  
Schedule Revised Date: Not reported

**HAZNET:**

Name: REDWOOD CITY USD / TAFT ELEMENTARY  
Address: 903 10TH AVE  
Address 2: Not reported  
City,State,Zip: REDWOOD CITY, CA 940630000  
Contact: LENORA DESMAS  
Telephone: 6504232240

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

REDWOOD CITY SD - TAFT COMMUNITY SCHOOL (Continued)

S112916128

Mailing Name: Not reported  
Mailing Address: 750 BRADFORD ST  
  
Year: 2001  
Gepaid: CAC002367511  
TSD EPA ID: CAD028409019  
CA Waste Code: 352 - Other organic solids  
Disposal Method: H01 - Transfer Station  
Tons: 1.2642  
  
Year: 2001  
Gepaid: CAC002367511  
TSD EPA ID: CAD981382732  
CA Waste Code: 151 - Asbestos containing waste  
Disposal Method: -  
Tons: 16.856  
  
Year: 2001  
Gepaid: CAC002367511  
TSD EPA ID: CAD981382732  
CA Waste Code: 151 - Asbestos containing waste  
Disposal Method: D80 - Disposal, Land Fill  
Tons: 33.712

Additional Info:

Year: 2001  
Gen EPA ID: CAC002367511  
  
Shipment Date: 20010614  
Creation Date: 10/1/2001 0:00:00  
Receipt Date: 20010625  
Manifest ID: 20840846  
Trans EPA ID: CAR000017657  
Trans Name: Not reported  
Trans 2 EPA ID: CAD982524480  
Trans 2 Name: Not reported  
TSD EPA ID: CAD028409019  
Trans Name: Not reported  
TSD Alt EPA ID: CAD028409019  
TSD Alt Name: Not reported  
Waste Code Description: 352 - Other organic solids  
RCRA Code: Not reported  
Meth Code: H01 - Transfer Station  
Quantity Tons: 1.2642  
Waste Quantity: 1.5  
Quantity Unit: Y  
Additional Code 1: Not reported  
Additional Code 2: Not reported  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported  
  
Shipment Date: 20010614  
Creation Date: 7/30/2001 0:00:00  
Receipt Date: 20010618  
Manifest ID: 20837926



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

REDWOOD CITY SD - TAFT COMMUNITY SCHOOL (Continued)

S112916128

Trans EPA ID: CAR000017657  
Trans Name: Not reported  
Trans 2 EPA ID: CAD980585780  
Trans 2 Name: Not reported  
TSDf EPA ID: CAD981382732  
Trans Name: Not reported  
TSDf Alt EPA ID: Not reported  
TSDf Alt Name: Not reported  
Waste Code Description: 151 - Asbestos-containing waste  
RCRA Code: Not reported  
Meth Code: - Not reported  
Quantity Tons: 16.856  
Waste Quantity: 20  
Quantity Unit: Y  
Additional Code 1: Not reported  
Additional Code 2: Not reported  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported

Shipment Date: 20010612  
Creation Date: 7/30/2001 0:00:00  
Receipt Date: 20010614  
Manifest ID: 20837922  
Trans EPA ID: CAR000017657  
Trans Name: Not reported  
Trans 2 EPA ID: Not reported  
Trans 2 Name: Not reported  
TSDf EPA ID: CAD981382732  
Trans Name: Not reported  
TSDf Alt EPA ID: CAD981382732  
TSDf Alt Name: Not reported  
Waste Code Description: 151 - Asbestos-containing waste  
RCRA Code: Not reported  
Meth Code: D80 - Disposal, Land Fill  
Quantity Tons: 33.712  
Waste Quantity: 40  
Quantity Unit: Y  
Additional Code 1: Not reported  
Additional Code 2: Not reported  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported

HWTS:

Name: REDWOOD CITY USD / TAFT ELEMENTARY  
Address: 903 10TH AVE  
Address 2: Not reported  
City,State,Zip: REDWOOD CITY, CA 94063  
EPA ID: CAC002367511  
Inactive Date: 01/11/2002  
Create Date: 04/27/2001  
Last Act Date: Not reported  
Mailing Name: Not reported  
Mailing Address: 750 BRADFORD ST  
Mailing Address 2: Not reported  
Mailing City,State,Zip: REDWOOD CITY, CA 940630000

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**REDWOOD CITY SD - TAFT COMMUNITY SCHOOL (Continued)**

**S112916128**

Owner Name: REDWOOD CITY USD  
 Owner Address: 750 BRADFORD ST  
 Owner Address 2: Not reported  
 Owner City,State,Zip: REDWOOD CITY, CA 940630000  
 Contact Name: LENORA DESMAS  
 Contact Address: 750 BRADFORD ST  
 Contact Address 2: Not reported  
 City,State,Zip: REDWOOD CITY, CA 940630000  
 Facility Status: Inactive  
 Facility Type: TEMPORARY  
 Category: STATE  
 Latitude: 37.479942  
 Longitude: -122.193925

**180**  
**NNE**  
**1/2-1**  
**0.724 mi.**  
**3823 ft.**

**MENLO PARK SANITATION**  
**1700 MARSH EXTENTION**  
**MENLO PARK, CA 94025**

**CA ENVIROSTOR**  
**CA San Mateo Co. BI**  
**CA HIST CORTESE**

**S105024930**  
**N/A**

**Relative:**  
**Higher**  
**Actual:**  
**12 ft.**

ENVIROSTOR:  
 Name: MENLO PARK SANITATION  
 Address: 1700 MARSH ROAD EXTENTION  
 City,State,Zip: MENLO PARK, CA 94025  
 Facility ID: 41490021  
 Status: No Further Action  
 Status Date: 09/01/1985  
 Site Code: Not reported  
 Site Type: Evaluation  
 Site Type Detailed: Evaluation  
 Acres: 0  
 NPL: NO  
 Regulatory Agencies: NONE SPECIFIED  
 Lead Agency: NONE SPECIFIED  
 Program Manager: Not reported  
 Supervisor: Denise Tsuji  
 Division Branch: Cleanup Berkeley  
 Assembly: 24  
 Senate: 13  
 Special Program: Not reported  
 Restricted Use: NO  
 Site Mgmt Req: NONE SPECIFIED  
 Funding: Not reported  
 Latitude: 37.4878  
 Longitude: -122.1774  
 APN: NONE SPECIFIED  
 Past Use: NONE SPECIFIED  
 Potential COC: \* HALOGENATED ORGANIC COMPOUNDS \* Sludge - Sewage \* STILL BOTTOMS WITH HALOGENATED ORGANICS \* UNSPECIFIED ACID SOLUTION \* UNSPECIFIED SLUDGE WASTE Arsenic Lead Cadmium and compounds Chromium VI  
 Confirmed COC: NONE SPECIFIED  
 Potential Description: NONE SPECIFIED  
 Alias Name: MARSH ROAD DUMP  
 Alias Type: Alternate Name  
 Alias Name: MENLO PARK SANITARY DISTRICT TRMT PLANT  
 Alias Type: Alternate Name  
 Alias Name: WEST BAY SANITARY DISTRICT  
 Alias Type: Alternate Name

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MENLO PARK SANITATION (Continued)**

**S105024930**

Alias Name: CAD089184840  
Alias Type: EPA Identification Number  
Alias Name: 110018958733  
Alias Type: EPA (FRS #)  
Alias Name: 41490021  
Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Site Screening  
Completed Date: 05/22/1987  
Comments: Completed Site Screening. Ponds excavated and disposed to landfill (Browning Ferris).

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: \* Discovery  
Completed Date: 10/12/1983  
Comments: Site Discovery. Facility identified from ERRIS.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: \* Discovery  
Completed Date: 08/01/1980  
Comments: Site Discovery. Facility identified as an active site during drive-by.  
Not reported

Future Area Name: Not reported  
Future Sub Area Name: Not reported  
Future Document Type: Not reported  
Future Due Date: Not reported  
Schedule Area Name: Not reported  
Schedule Sub Area Name: Not reported  
Schedule Document Type: Not reported  
Schedule Due Date: Not reported  
Schedule Revised Date: Not reported

San Mateo Co. BI:

Name: BUTLER BUILDING  
Address: 1700 MARSH  
City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0025751  
Prog Element Code: STORMWATER ANNUAL INSPECTION FEE  
Record Id: PR0040464  
Description: STORMWATER ANNUAL FEE - INSP FREQ EVERY 2 YRS  
Facility Status: Inactive, non-billable  
Program Category: STORMWATER

Name: BUTLER BUILDING  
Address: 1700 MARSH  
City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0025751  
Prog Element Code: STORES MV FUELS OR WASTE ONLY  
Record Id: PR0035154

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MENLO PARK SANITATION (Continued)**

**S105024930**

Description: STORES MV FUELS OR WASTE ONLY  
Facility Status: Inactive, non-billable  
Program Category: BUSINESS PLAN PROGRAM

Name: BUTLER BUILDING  
Address: 1700 MARSH  
City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0025751  
Prog Element Code: GENERATES <27 GAL/YEAR  
Record Id: PR0035155  
Description: GENERATES <27 GAL/YEAR  
Facility Status: Inactive, non-billable  
Program Category: HAZARDOUS WASTE PROGRAM

Name: PUMPER REPAIR FACILITY  
Address: 1700 MARSH  
City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0025752  
Prog Element Code: STORES MV FUELS OR WASTE ONLY  
Record Id: PR0035156  
Description: STORES MV FUELS OR WASTE ONLY  
Facility Status: Inactive, non-billable  
Program Category: BUSINESS PLAN PROGRAM

Name: PUMPER REPAIR FACILITY  
Address: 1700 MARSH  
City,State,Zip: MENLO PARK, CA 94025  
Region: SAN MATEO  
Facility ID: FA0025752  
Prog Element Code: GENERATES and RECYCLES WASTE OIL/SOLVENT  
Record Id: PR0035157  
Description: GENERATES & RECYCLES WASTE OIL/SOLVENT  
Facility Status: Inactive, non-billable  
Program Category: HAZARDOUS WASTE PROGRAM

HIST CORTESE:  
edr\_fname: MENLO PARK SANITATION  
edr\_fadd1: 1700 MARSH EXTENTION  
City,State,Zip: MENLO PARK, CA 94025  
Region: CORTESE  
Facility County Code: 41  
Reg By: CALSI  
Reg Id: 41490021

V181  
ESE  
1/2-1  
0.827 mi.  
4366 ft.

**MENLO PARK WEST CAMPUS**  
**312-314 CONSTITUTION DRIVE**  
**MENLO PARK, CA 94025**

**CA ENVIROSTOR S110977138**  
**CA VCP N/A**  
**CA DEED**

**Site 1 of 2 in cluster V**

**Relative:**  
**Lower**  
**Actual:**  
**8 ft.**

ENVIROSTOR:  
Name: MENLO PARK WEST CAMPUS  
Address: 312-314 CONSTITUTION DRIVE  
City,State,Zip: MENLO PARK, CA 94025  
Facility ID: 60001437

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MENLO PARK WEST CAMPUS (Continued)**

**S110977138**

Status: Certified / Operation & Maintenance  
Status Date: 06/30/2015  
Site Code: 201902  
Site Type: Voluntary Cleanup  
Site Type Detailed: Voluntary Agreement  
Acres: 22  
NPL: NO  
Regulatory Agencies: SMBRP  
Lead Agency: SMBRP  
Program Manager: Robert Boggs  
Supervisor: Kimberly Walsh  
Division Branch: Cleanup Berkeley  
Assembly: 24  
Senate: 13  
Special Program: Not reported  
Restricted Use: YES  
Site Mgmt Req: NONE SPECIFIED  
Funding: Responsible Party  
Latitude: 37.48102  
Longitude: -122.1533  
APN: 055260210, 055260220  
Past Use: MANUFACTURING - ELECTRONIC  
Potential COC: Arsenic Total Chromium (1:6 ratio Cr VI:Cr III Polychlorinated biphenyls (PCBs Chlorobenzene 1,1-Dichloroethane  
Confirmed COC: Arsenic Total Chromium (1:6 ratio Cr VI:Cr III 1,1-Dichloroethane Polychlorinated biphenyls (PCBs Chlorobenzene  
Potential Description: OTH, SOIL  
Alias Name: Facebook West Campus  
Alias Type: Alternate Name  
Alias Name: Tyco Electronics Corporation  
Alias Type: Alternate Name  
Alias Name: 055260210  
Alias Type: APN  
Alias Name: 055260220  
Alias Type: APN  
Alias Name: 201902  
Alias Type: Project Code (Site Code)  
Alias Name: 60001437  
Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: \*Correspondence - Received  
Completed Date: 09/19/2011  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Annual Oversight Cost Estimate  
Completed Date: 09/27/2021  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Monitoring Report  
Completed Date: 03/12/2021  
Comments: Ground water monitoring report.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MENLO PARK WEST CAMPUS (Continued)**

**S110977138**

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Annual Oversight Cost Estimate  
Completed Date: 03/06/2020  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Other Report  
Completed Date: 11/09/2012  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Fieldwork  
Completed Date: 03/31/2015  
Comments: Work completed

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Design/Implementation Workplan  
Completed Date: 01/25/2013  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Other Report  
Completed Date: 03/05/2015  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Technical Workplan  
Completed Date: 02/06/2013  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Technical Report  
Completed Date: 06/28/2013  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Design/Implementation Workplan  
Completed Date: 04/19/2013  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Design/Implementation Workplan  
Completed Date: 03/19/2013  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Technical Report

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MENLO PARK WEST CAMPUS (Continued)**

**S110977138**

Completed Date: 08/05/2013  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Other Report  
Completed Date: 06/21/2013  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Soils Management Plan  
Completed Date: 06/14/2013  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Supplemental Site Investigation Report  
Completed Date: 10/07/2019  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Monitoring Report  
Completed Date: 07/30/2020  
Comments: GW Monitoring report accepted. Changing to annual monitoring pending completion of remediation activities and development of long term monitoring plan.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Public Participation Plan / Community Relations Plan  
Completed Date: 07/10/2012  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Other Report  
Completed Date: 03/30/2012  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Remedial Action Plan  
Completed Date: 09/19/2012  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Design/Implementation Workplan  
Completed Date: 10/12/2012  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Other Report  
Completed Date: 06/19/2013

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MENLO PARK WEST CAMPUS (Continued)**

**S110977138**

Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Fact Sheets  
Completed Date: 08/03/2012  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Public Notice  
Completed Date: 08/03/2012  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Site Characterization Workplan  
Completed Date: 07/13/2012  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Remedial Action Completion Report  
Completed Date: 09/12/2014  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Fieldwork  
Completed Date: 08/30/2013  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Work Notice  
Completed Date: 10/23/2012  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Technical Workplan  
Completed Date: 09/05/2012  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Technical Workplan  
Completed Date: 05/01/2013  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Other Report  
Completed Date: 12/17/2013  
Comments: Not reported

Completed Area Name: PROJECT WIDE



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MENLO PARK WEST CAMPUS (Continued)**

**S110977138**

Completed Sub Area Name: Not reported  
Completed Document Type: Other Report  
Completed Date: 05/17/2013  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Work Notice  
Completed Date: 05/08/2013  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Work Notice  
Completed Date: 01/30/2013  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Other Report  
Completed Date: 06/21/2013  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Technical Workplan  
Completed Date: 08/06/2013  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Monitoring Report  
Completed Date: 02/03/2020  
Comments: GW Monitoring report accepted.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Letter - Demand  
Completed Date: 01/18/2012  
Comments: Demand letter #1

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Standard Voluntary Agreement  
Completed Date: 05/03/2012  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: CEQA - Initial Study/ Neg. Declaration  
Completed Date: 09/19/2012  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Letter - Demand  
Completed Date: 04/23/2012

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MENLO PARK WEST CAMPUS (Continued)**

**S110977138**

Comments: Demand letter #3

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: CEQA - Responsible Agency Review  
Completed Date: 01/30/2012  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Correspondence  
Completed Date: 04/23/2012  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Annual Oversight Cost Estimate  
Completed Date: 09/21/2011  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Land Use Restriction  
Completed Date: 08/06/2012  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Standard Voluntary Agreement  
Completed Date: 06/17/2011  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Annual Oversight Cost Estimate  
Completed Date: 09/11/2013  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Correspondence  
Completed Date: 07/12/2012  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Annual Oversight Cost Estimate  
Completed Date: 10/30/2014  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Standard Voluntary Agreement  
Completed Date: 03/25/2013  
Comments: Not reported

Completed Area Name: PROJECT WIDE

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MENLO PARK WEST CAMPUS (Continued)**

**S110977138**

Completed Sub Area Name: Not reported  
Completed Document Type: Correspondence  
Completed Date: 02/26/2013  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Annual Oversight Cost Estimate  
Completed Date: 11/05/2012  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Certification  
Completed Date: 06/30/2015  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Pre-HARP Form  
Completed Date: 02/18/2014  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Land Use Restriction  
Completed Date: 01/19/2007  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: \*Correspondence - Received  
Completed Date: 10/07/2011  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Other Report  
Completed Date: 05/14/2013  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Site Characterization Report  
Completed Date: 07/13/2012  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Site Characterization Workplan  
Completed Date: 09/16/2011  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Voluntary Cleanup Consultation  
Completed Date: 05/23/2011

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MENLO PARK WEST CAMPUS (Continued)**

**S110977138**

Comments: NOP comments sent

Future Area Name: Not reported  
Future Sub Area Name: Not reported  
Future Document Type: Not reported  
Future Due Date: Not reported  
Schedule Area Name: Not reported  
Schedule Sub Area Name: Not reported  
Schedule Document Type: Not reported  
Schedule Due Date: Not reported  
Schedule Revised Date: Not reported

VCP:

Name: MENLO PARK WEST CAMPUS  
Address: 312-314 CONSTITUTION DRIVE  
City,State,Zip: MENLO PARK, CA 94025  
Facility ID: 60001437  
Site Type: Voluntary Cleanup  
Site Type Detail: Voluntary Agreement  
Site Mgmt. Req.: NONE SPECIFIED  
Acres: 22  
National Priorities List: NO  
Cleanup Oversight Agencies: SMBRP  
Lead Agency: SMBRP  
Lead Agency Description: DTSC - Site Cleanup Program  
Project Manager: Robert Boggs  
Supervisor: Kimberly Walsh  
Division Branch: Cleanup Berkeley  
Site Code: 201902  
Assembly: 24  
Senate: 13  
Special Programs Code: Not reported  
Status: Certified / Operation & Maintenance  
Status Date: 06/30/2015  
Restricted Use: YES  
Funding: Responsible Party  
Lat/Long: 37.48102 / -122.1533  
APN: 055260210, 055260220  
Past Use: MANUFACTURING - ELECTRONIC  
Potential COC: 30001, 30005, 30018, 30127, 30192  
Confirmed COC: 30001,30005,30192,30018,30127  
Potential Description: OTH, SOIL  
Alias Name: Facebook West Campus  
Alias Type: Alternate Name  
Alias Name: Tyco Electronics Corporation  
Alias Type: Alternate Name  
Alias Name: 055260210  
Alias Type: APN  
Alias Name: 055260220  
Alias Type: APN  
Alias Name: 201902  
Alias Type: Project Code (Site Code)  
Alias Name: 60001437  
Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MENLO PARK WEST CAMPUS (Continued)**

**S110977138**

Completed Sub Area Name: Not reported  
Completed Document Type: \*Correspondence - Received  
Completed Date: 09/19/2011  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Annual Oversight Cost Estimate  
Completed Date: 09/27/2021  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Monitoring Report  
Completed Date: 03/12/2021  
Comments: Ground water monitoring report.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Annual Oversight Cost Estimate  
Completed Date: 03/06/2020  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Other Report  
Completed Date: 11/09/2012  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Fieldwork  
Completed Date: 03/31/2015  
Comments: Work completed

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Design/Implementation Workplan  
Completed Date: 01/25/2013  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Other Report  
Completed Date: 03/05/2015  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Technical Workplan  
Completed Date: 02/06/2013  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Technical Report  
Completed Date: 06/28/2013

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MENLO PARK WEST CAMPUS (Continued)**

**S110977138**

Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Design/Implementation Workplan  
Completed Date: 04/19/2013  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Design/Implementation Workplan  
Completed Date: 03/19/2013  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Technical Report  
Completed Date: 08/05/2013  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Other Report  
Completed Date: 06/21/2013  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Soils Management Plan  
Completed Date: 06/14/2013  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Supplemental Site Investigation Report  
Completed Date: 10/07/2019  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Monitoring Report  
Completed Date: 07/30/2020  
Comments: GW Monitoring report accepted. Changing to annual monitoring pending completion of remediation activities and development of long term monitoring plan.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Public Participation Plan / Community Relations Plan  
Completed Date: 07/10/2012  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Other Report  
Completed Date: 03/30/2012  
Comments: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MENLO PARK WEST CAMPUS (Continued)**

**S110977138**

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Remedial Action Plan  
Completed Date: 09/19/2012  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Design/Implementation Workplan  
Completed Date: 10/12/2012  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Other Report  
Completed Date: 06/19/2013  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Fact Sheets  
Completed Date: 08/03/2012  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Public Notice  
Completed Date: 08/03/2012  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Site Characterization Workplan  
Completed Date: 07/13/2012  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Remedial Action Completion Report  
Completed Date: 09/12/2014  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Fieldwork  
Completed Date: 08/30/2013  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Work Notice  
Completed Date: 10/23/2012  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Technical Workplan

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MENLO PARK WEST CAMPUS (Continued)**

**S110977138**

Completed Date: 09/05/2012  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Technical Workplan  
Completed Date: 05/01/2013  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Other Report  
Completed Date: 12/17/2013  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Other Report  
Completed Date: 05/17/2013  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Work Notice  
Completed Date: 05/08/2013  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Work Notice  
Completed Date: 01/30/2013  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Other Report  
Completed Date: 06/21/2013  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Technical Workplan  
Completed Date: 08/06/2013  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Monitoring Report  
Completed Date: 02/03/2020  
Comments: GW Monitoring report accepted.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Letter - Demand  
Completed Date: 01/18/2012  
Comments: Demand letter #1



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MENLO PARK WEST CAMPUS (Continued)**

**S110977138**

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Standard Voluntary Agreement  
Completed Date: 05/03/2012  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: CEQA - Initial Study/ Neg. Declaration  
Completed Date: 09/19/2012  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Letter - Demand  
Completed Date: 04/23/2012  
Comments: Demand letter #3

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: CEQA - Responsible Agency Review  
Completed Date: 01/30/2012  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Correspondence  
Completed Date: 04/23/2012  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Annual Oversight Cost Estimate  
Completed Date: 09/21/2011  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Land Use Restriction  
Completed Date: 08/06/2012  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Standard Voluntary Agreement  
Completed Date: 06/17/2011  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Annual Oversight Cost Estimate  
Completed Date: 09/11/2013  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Correspondence

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MENLO PARK WEST CAMPUS (Continued)**

**S110977138**

Completed Date: 07/12/2012  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Annual Oversight Cost Estimate  
Completed Date: 10/30/2014  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Standard Voluntary Agreement  
Completed Date: 03/25/2013  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Correspondence  
Completed Date: 02/26/2013  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Annual Oversight Cost Estimate  
Completed Date: 11/05/2012  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Certification  
Completed Date: 06/30/2015  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Pre-HARP Form  
Completed Date: 02/18/2014  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Land Use Restriction  
Completed Date: 01/19/2007  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: \*Correspondence - Received  
Completed Date: 10/07/2011  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Other Report  
Completed Date: 05/14/2013  
Comments: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MENLO PARK WEST CAMPUS (Continued)**

**S110977138**

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Site Characterization Report  
Completed Date: 07/13/2012  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Site Characterization Workplan  
Completed Date: 09/16/2011  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Voluntary Cleanup Consultation  
Completed Date: 05/23/2011  
Comments: NOP comments sent

Future Area Name: Not reported  
Future Sub Area Name: Not reported  
Future Document Type: Not reported  
Future Due Date: Not reported  
Schedule Area Name: Not reported  
Schedule Sub Area Name: Not reported  
Schedule Document Type: Not reported  
Schedule Due Date: Not reported  
Schedule Revised Date: Not reported

**DEED:**

Name: MENLO PARK WEST CAMPUS  
Address: 312-314 CONSTITUTION DRIVE  
City,State,Zip: MENLO PARK, CA 94025  
Envirostor ID: 60001437  
Area: PROJECT WIDE  
Sub Area: Not reported  
Site Type: VOLUNTARY CLEANUP  
Status: CERTIFIED / OPERATION & MAINTENANCE  
Agency: Not reported  
Covenant Uploaded: Not reported  
Deed Date(s): Not reported  
File Name: Envirostor Land Use Restrictions

Name: MENLO PARK WEST CAMPUS  
Address: 312-314 CONSTITUTION DRIVE  
City,State,Zip: MENLO PARK, CA 94025  
Envirostor ID: 60001437  
Area: PROJECT WIDE  
Sub Area: Not reported  
Site Type: VOLUNTARY CLEANUP  
Status: CERTIFIED / OPERATION & MAINTENANCE  
Agency: Not reported  
Covenant Uploaded: Not reported  
Deed Date(s): Not reported  
File Name: Envirostor Land Use Restrictions



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**TE CONNECTIVITY LTD (Continued)**

**1024248041**

EPA ID: CAD009125527  
Area Name: ENTIRE FACILITY  
Corrective Action: CMI WORKPLAN APPROVED  
Actual Date: 20021010  
Air Release Indicator: Not reported  
Groundwater Release Indicator: Not reported  
Soil Release Indicator: Not reported  
Surface Water Release Indicator: Not reported

Name: TE CONNECTIVITY LTD  
Address: 305 CONSTITUTION DR.  
Address 2: Not reported  
EPA ID: CAD009125527  
Area Name: EAST AND OFFSITE OF THE FACILITY  
Corrective Action: INVESTIGATION WORKPLAN APPROVED  
Actual Date: 20021007  
Air Release Indicator: Not reported  
Groundwater Release Indicator: Not reported  
Soil Release Indicator: Not reported  
Surface Water Release Indicator: Not reported

Name: TE CONNECTIVITY LTD  
Address: 305 CONSTITUTION DR.  
Address 2: Not reported  
EPA ID: CAD009125527  
Area Name: ENTIRE FACILITY  
Corrective Action: INVESTIGATION COMPLETE  
Actual Date: 20040305  
Air Release Indicator: Not reported  
Groundwater Release Indicator: Not reported  
Soil Release Indicator: Not reported  
Surface Water Release Indicator: Not reported

Name: TE CONNECTIVITY LTD  
Address: 305 CONSTITUTION DR.  
Address 2: Not reported  
EPA ID: CAD009125527  
Area Name: ENTIRE FACILITY  
Corrective Action: DATE FOR PUBLIC NOTICE ON PROPOSED REMEDY  
Actual Date: 20060727  
Air Release Indicator: Not reported  
Groundwater Release Indicator: Not reported  
Soil Release Indicator: Not reported  
Surface Water Release Indicator: Not reported

Name: TE CONNECTIVITY LTD  
Address: 305 CONSTITUTION DR.  
Address 2: Not reported  
EPA ID: CAD009125527  
Area Name: EAST AND OFFSITE OF THE FACILITY  
Corrective Action: INVESTIGATION COMPLETE  
Actual Date: 20021007  
Air Release Indicator: Not reported  
Groundwater Release Indicator: Not reported  
Soil Release Indicator: Not reported  
Surface Water Release Indicator: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**TE CONNECTIVITY LTD (Continued)**

**1024248041**

Name: TE CONNECTIVITY LTD  
Address: 305 CONSTITUTION DR.  
Address 2: Not reported  
EPA ID: CAD009125527  
Area Name: ENTIRE FACILITY  
Corrective Action: INSTITUTIONAL CONTROLS ESTABLISHED-GOVERNMENTAL CONTROL  
Actual Date: 20070119  
Air Release Indicator: Not reported  
Groundwater Release Indicator: Not reported  
Soil Release Indicator: Not reported  
Surface Water Release Indicator: Not reported

Name: TE CONNECTIVITY LTD  
Address: 305 CONSTITUTION DR.  
Address 2: Not reported  
EPA ID: CAD009125527  
Area Name: ENTIRE FACILITY  
Corrective Action: STABILIZATION/INTERIM MEASURES DECISION-PRIMARY MEAS IS SOURCE REMOVL and/OR TRT  
Actual Date: 20070202  
Air Release Indicator: Not reported  
Groundwater Release Indicator: Not reported  
Soil Release Indicator: Not reported  
Surface Water Release Indicator: Not reported

[Click this hyperlink](#) while viewing on your computer to access 15 additional CORRACTS: record(s) in the EDR Site Report.

**RCRA TSDF:**

Treatment Storage and Disposal Type: Storage  
Full Enforcement Universe: Storage  
Corrective Action Workload Universe: Yes  
Permit Renewals Workload Universe: Not reported  
Permit Workload Universe: Not reported  
Permit Progress Universe: Storage  
Post-Closure Workload Universe: Not reported  
Closure Workload Universe: Not reported  
Operating TSDF Universe: Not reported  
Commercial TSD Indicator: No  
Active Site Fed-Reg Treatment Storage and Disposal Facility: Storage  
Active Site Converter Treatment storage and Disposal Facility: Not reported  
Active Site State-Reg Treatment Storage and Disposal Facility: Not reported  
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe: Yes  
TSDFs Only Subject to CA under Discretionary Auth Universe: No

**Biennial: List of Years**

Year: 2019

[Click Here for Biennial Reporting System Data:](#)

Year: 2017

[Click Here for Biennial Reporting System Data:](#)

Year: 2015

[Click Here for Biennial Reporting System Data:](#)

Year: 2013

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**TE CONNECTIVITY LTD (Continued)**

**1024248041**

[Click Here for Biennial Reporting System Data:](#)

Year: 2011

[Click Here for Biennial Reporting System Data:](#)

Year: 2009

[Click Here for Biennial Reporting System Data:](#)

Year: 2007

[Click Here for Biennial Reporting System Data:](#)

Year: 2005

[Click Here for Biennial Reporting System Data:](#)

Year: 2003

[Click Here for Biennial Reporting System Data:](#)

Year: 2001

[Click Here for Biennial Reporting System Data:](#)

**US INST CONTROLS:**

Name: TE CONNECTIVITY LTD  
Address: 305 CONSTITUTION DR.  
Address 2: Not reported  
City,State,Zip: MENLO PARK, CA 94025-0000  
EPA ID: CAD009125527  
Action Name: Not reported  
Action ID: Not reported  
Operable Unit: Not reported  
Actual Date: Not reported  
Contaminated Media: Not reported  
Event Code: CA772GC  
Contact Name: STEPHEN DOUGLAS  
Contact Telephone: 650-361-3022  
Event: INSTITUTIONAL CONTROLS ESTABLISHED-GOVERNMENTAL CONTROL  
Federal Facility: Not reported  
Fiscal Year: Not reported  
NPL Status: Not reported  
Superfund Alternative Agreement: Not reported  
Latitude: Not reported  
Longitude: Not reported

Name: TE CONNECTIVITY LTD  
Address: 305 CONSTITUTION DR.  
Address 2: Not reported  
City,State,Zip: MENLO PARK, CA 94025-0000  
EPA ID: CAD009125527  
Action Name: Not reported  
Action ID: Not reported  
Operable Unit: Not reported  
Actual Date: Not reported  
Contaminated Media: Not reported  
Event Code: CA772GC  
Contact Name: STEPHEN DOUGLAS  
Contact Telephone: 650-361-3022  
Event: INSTITUTIONAL CONTROLS ESTABLISHED-GOVERNMENTAL CONTROL

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**TE CONNECTIVITY LTD (Continued)**

**1024248041**

Federal Facility:	Not reported
Fiscal Year:	Not reported
NPL Status:	Not reported
Superfund Alternative Agreement:	Not reported
Latitude:	Not reported
Longitude:	Not reported
Name:	TE CONNECTIVITY LTD
Address:	305 CONSTITUTION DR.
Address 2:	Not reported
City,State,Zip:	MENLO PARK, CA 94025-0000
EPA ID:	CAD009125527
Action Name:	Not reported
Action ID:	Not reported
Operable Unit:	Not reported
Actual Date:	Not reported
Contaminated Media:	Not reported
Event Code:	CA772PR
Contact Name:	STEPHEN DOUGLAS
Contact Telephone:	650-361-3022
Event:	INSTITUTIONAL CONTROLS ESTABLISHED-PROPRIETARY CONTROL
Federal Facility:	Not reported
Fiscal Year:	Not reported
NPL Status:	Not reported
Superfund Alternative Agreement:	Not reported
Latitude:	Not reported
Longitude:	Not reported

**RCRA Listings:**

Date Form Received by Agency:	20200227
Handler Name:	TE CONNECTIVITY LTD
Handler Address:	305 CONSTITUTION DR.
Handler City,State,Zip:	MENLO PARK, CA 94025-0000
EPA ID:	CAD009125527
Contact Name:	STEPHEN DOUGLAS
Contact Address:	PASEO PADRE PKWY
Contact City,State,Zip:	FREMONT, CA 94555
Contact Telephone:	650-361-3022
Contact Fax:	650-361-3696
Contact Email:	SDOUGLAS@TE.COM
Contact Title:	EHS MANAGER
EPA Region:	09
Land Type:	Private
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	2019
Accessibility:	Not reported
Active Site Indicator:	Permitting Activities, Corrective Action Activities
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	CONSTITUTION DR.
Mailing City,State,Zip:	MENLO PARK, CA 94025-0000
Owner Name:	HIBISCUS PROPERTIES LLC
Owner Type:	Private
Operator Name:	TE CONNECTIVITY LTD
Operator Type:	Private
Short-Term Generator Activity:	No



Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**TE CONNECTIVITY LTD (Continued)**

**1024248041**

Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Storage
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Storage
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Storage
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	Yes
Corrective Action Workload Universe:	Yes
Subject to Corrective Action Universe:	Yes
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	Yes
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	Yes
Human Exposure Controls Indicator:	Yes
Groundwater Controls Indicator:	Yes
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Storage
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Corrective Action
Handler Date of Last Change:	20201001
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Biennial: List of Years

Year: 2019

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**TE CONNECTIVITY LTD (Continued)**

**1024248041**

[Click Here for Biennial Reporting System Data:](#)  
Year: 2017

[Click Here for Biennial Reporting System Data:](#)  
Year: 2015

[Click Here for Biennial Reporting System Data:](#)  
Year: 2013

[Click Here for Biennial Reporting System Data:](#)  
Year: 2011

[Click Here for Biennial Reporting System Data:](#)  
Year: 2009

[Click Here for Biennial Reporting System Data:](#)  
Year: 2007

[Click Here for Biennial Reporting System Data:](#)  
Year: 2005

[Click Here for Biennial Reporting System Data:](#)  
Year: 2003

[Click Here for Biennial Reporting System Data:](#)  
Year: 2001

[Click Here for Biennial Reporting System Data:](#)

**Hazardous Waste Summary:**

Waste Code:	D001
Waste Description:	IGNITABLE WASTE
Waste Code:	D002
Waste Description:	CORROSIVE WASTE
Waste Code:	D003
Waste Description:	REACTIVE WASTE
Waste Code:	D004
Waste Description:	ARSENIC
Waste Code:	D005
Waste Description:	BARIUM
Waste Code:	D006
Waste Description:	CADMIUM
Waste Code:	D007
Waste Description:	CHROMIUM
Waste Code:	D008
Waste Description:	LEAD
Waste Code:	D009
Waste Description:	MERCURY

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**TE CONNECTIVITY LTD (Continued)**

**1024248041**

Waste Code:	D010
Waste Description:	SELENIUM
Waste Code:	D011
Waste Description:	SILVER
Waste Code:	D018
Waste Description:	BENZENE
Waste Code:	D022
Waste Description:	CHLOROFORM
Waste Code:	D026
Waste Description:	CRESOL
Waste Code:	D035
Waste Description:	METHYL ETHYL KETONE
Waste Code:	D038
Waste Description:	PYRIDINE
Waste Code:	D039
Waste Description:	TETRACHLOROETHYLENE
Waste Code:	F001
Waste Description:	THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLOROETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE AND CHLORINATED FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
Waste Code:	F002
Waste Description:	THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2, TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
Waste Code:	F003
Waste Description:	THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

TE CONNECTIVITY LTD (Continued)

1024248041

Waste Code:	F004
Waste Description:	THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: CRESOLS, CRESYLIC ACID, AND NITROBENZENE; AND THE STILL BOTTOMS FROM THE RECOVERY OF THESE SOLVENTS; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
Waste Code:	F005
Waste Description:	THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
Waste Code:	LABP
Waste Description:	LAB PACK
Waste Code:	P003
Waste Description:	2-PROPENAL (OR) ACROLEIN
Waste Code:	P005
Waste Description:	2-PROPEN-1-OL (OR) ALLYL ALCOHOL
Waste Code:	P015
Waste Description:	BERYLLIUM
Waste Code:	P029
Waste Description:	COPPER CYANIDE (OR) COPPER CYANIDE CU(CN)
Waste Code:	P030
Waste Description:	CYANIDES (SOLUBLE CYANIDE SALTS), NOT OTHERWISE SPECIFIED
Waste Code:	P087
Waste Description:	OSMIUM OXIDE OSO4, (T-4)- (OR) OSMIUM TETROXIDE
Waste Code:	P098
Waste Description:	POTASSIUM CYANIDE (OR) POTASSIUM CYANIDE K(CN)
Waste Code:	P099
Waste Description:	ARGENTATE (1-), BIS(CYANO-C)-, POTASSIUM (OR) POTASSIUM SILVER CYANIDE
Waste Code:	P105
Waste Description:	SODIUM AZIDE
Waste Code:	U002
Waste Description:	2-PROPANONE (I) (OR) ACETONE (I)
Waste Code:	U012
Waste Description:	ANILINE (I,T) (OR) BENZENAMINE (I,T)
Waste Code:	U044
Waste Description:	CHLOROFORM (OR) METHANE, TRICHLORO-

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

TE CONNECTIVITY LTD (Continued)

1024248041

Waste Code:	U057
Waste Description:	CYCLOHEXANONE (I)
Waste Code:	U069
Waste Description:	1,2-BENZENEDICARBOXYLIC ACID, DIBUTYL ESTER (OR) DIBUTYL PHTHALATE
Waste Code:	U080
Waste Description:	METHANE, DICHLORO- (OR) METHYLENE CHLORIDE
Waste Code:	U082
Waste Description:	2,6-DICHLOROPHENOL (OR) PHENOL, 2,6-DICHLORO-
Waste Code:	U133
Waste Description:	HYDRAZINE (R,T)
Waste Code:	U134
Waste Description:	HYDROFLUORIC ACID (C,T) (OR) HYDROGEN FLUORIDE (C,T)
Waste Code:	U147
Waste Description:	2,5-FURANDIONE (OR) MALEIC ANHYDRIDE
Waste Code:	U160
Waste Description:	2-BUTANONE, PEROXIDE (R,T) (OR) METHYL ETHYL KETONE PEROXIDE (R,T)
Waste Code:	U196
Waste Description:	PYRIDINE
Waste Code:	U201
Waste Description:	1,3-BENZENEDIOL (OR) RESORCINOL
Waste Code:	U202
Waste Description:	1,2-BENZISOTHIAZOL-3(2H)-ONE, 1,1-DIOXIDE, & SALTS (OR) SACCHARIN, & SALTS
Waste Code:	U208
Waste Description:	1,1,1,2-TETRACHLOROETHANE (OR) ETHANE, 1,1,1,2-TETRACHLORO-
Waste Code:	U209
Waste Description:	1,1,2,2-TETRACHLOROETHANE (OR) ETHANE, 1,1,2,2-TETRACHLORO-
Waste Code:	U220
Waste Description:	BENZENE, METHYL- (OR) TOLUENE
Waste Code:	U239
Waste Description:	BENZENE, DIMETHYL- (I,T) (OR) XYLENE (I)
Waste Code:	U244
Waste Description:	THIOPEROXYDICARBONIC DIAMIDE [(H2N)C(S)]2S2, TETRAMETHYL- (OR) THIRAM
Waste Code:	U404
Waste Description:	U404

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name:	TYCO ELECTRONICS
Legal Status:	Private
Date Became Current:	19991001

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**TE CONNECTIVITY LTD (Continued)**

**1024248041**

Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name: TE CONNECTIVITY LTD	
Legal Status:	Private
Date Became Current:	19991001
Date Ended Current:	Not reported
Owner/Operator Address:	305 CONSTITUTION DR.
Owner/Operator City,State,Zip:	MENLO PARK, CA 94025-0000
Owner/Operator Telephone:	650-361-3022
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	650-361-3696
Owner/Operator Email:	SDOUGLAS@TE.COM
Owner/Operator Indicator:	Operator
Owner/Operator Name: TYCO ELECTRONICS	
Legal Status:	Private
Date Became Current:	19991001
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name: HIBISCUS PROPERTIES LLC	
Legal Status:	Private
Date Became Current:	20140904
Date Ended Current:	Not reported
Owner/Operator Address:	1 HACKER WAY
Owner/Operator City,State,Zip:	MENLO PARK, CA 94025
Owner/Operator Telephone:	650-308-7300
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	INFO@FACEBOOK.COM
Owner/Operator Indicator:	Operator
Owner/Operator Name: TE CONNECTIVITY LTD	
Legal Status:	Private
Date Became Current:	19991001
Date Ended Current:	Not reported
Owner/Operator Address:	305 CONSTITUTION DR.
Owner/Operator City,State,Zip:	MENLO PARK, CA 94025-0000
Owner/Operator Telephone:	650-361-3022
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	650-361-3696
Owner/Operator Email:	SDOUGLAS@TE.COM
Owner/Operator Indicator:	Operator

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**TE CONNECTIVITY LTD (Continued)**

**1024248041**

Owner/Operator Name: RAYCHEM CORPORATION  
Legal Status: Private  
Date Became Current: Not reported  
Date Ended Current: Not reported  
Owner/Operator Address: 300 CONSTITUTION DR  
Owner/Operator City,State,Zip: CITY NOT REPORTED, CA 99999  
Owner/Operator Telephone: 415-361-3333  
Owner/Operator Telephone Ext: Not reported  
Owner/Operator Fax: Not reported  
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner  
Owner/Operator Name: TYCO ELECTRONICS  
Legal Status: Private  
Date Became Current: 19991001  
Date Ended Current: Not reported  
Owner/Operator Address: TYCO ELECTRONICS  
Owner/Operator City,State,Zip: MENLO PARK, CA 94025  
Owner/Operator Telephone: Not reported  
Owner/Operator Telephone Ext: Not reported  
Owner/Operator Fax: Not reported  
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator  
Owner/Operator Name: TYCO ELECTRONICS CORP.  
Legal Status: Private  
Date Became Current: 19991001  
Date Ended Current: Not reported  
Owner/Operator Address: Not reported  
Owner/Operator City,State,Zip: Not reported  
Owner/Operator Telephone: Not reported  
Owner/Operator Telephone Ext: Not reported  
Owner/Operator Fax: Not reported  
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator  
Owner/Operator Name: TE CONNECTIVITY LTD  
Legal Status: Private  
Date Became Current: 19991001  
Date Ended Current: Not reported  
Owner/Operator Address: 305 CONSTITUTION DR.  
Owner/Operator City,State,Zip: MENLO PARK, CA 94025-0000  
Owner/Operator Telephone: 650-361-3022  
Owner/Operator Telephone Ext: Not reported  
Owner/Operator Fax: 650-361-3696  
Owner/Operator Email: SDOUGLAS@TE.COM

Owner/Operator Indicator: Owner  
Owner/Operator Name: HIBISCUS PROPERTIES LLC  
Legal Status: Private  
Date Became Current: 20140904  
Date Ended Current: Not reported  
Owner/Operator Address: 1 HACKER WAY  
Owner/Operator City,State,Zip: MENLO PARK, CA 94025  
Owner/Operator Telephone: 650-308-7300  
Owner/Operator Telephone Ext: Not reported  
Owner/Operator Fax: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**TE CONNECTIVITY LTD (Continued)**

**1024248041**

Owner/Operator Email: INFO@FACEBOOK.COM

Owner/Operator Indicator: Operator  
Owner/Operator Name: TYCO ELECTRONICS CORPORATION  
Legal Status: Private  
Date Became Current: 19990801  
Date Ended Current: Not reported  
Owner/Operator Address: Not reported  
Owner/Operator City,State,Zip: Not reported  
Owner/Operator Telephone: Not reported  
Owner/Operator Telephone Ext: Not reported  
Owner/Operator Fax: Not reported  
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner  
Owner/Operator Name: HIBISCUS PROPERTIES  
Legal Status: Private  
Date Became Current: 20140904  
Date Ended Current: Not reported  
Owner/Operator Address: 1 HACKER WAY  
Owner/Operator City,State,Zip: MENLO PARK, CA 94025  
Owner/Operator Telephone: 650-391-3750  
Owner/Operator Telephone Ext: Not reported  
Owner/Operator Fax: Not reported  
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator  
Owner/Operator Name: TYCO ELECTRONICS  
Legal Status: Private  
Date Became Current: 19991001  
Date Ended Current: Not reported  
Owner/Operator Address: 300 CONSTITUTION DR.  
Owner/Operator City,State,Zip: MENLO PARK, CA 94025  
Owner/Operator Telephone: Not reported  
Owner/Operator Telephone Ext: Not reported  
Owner/Operator Fax: Not reported  
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner  
Owner/Operator Name: TYCO ELECTRONICS  
Legal Status: Private  
Date Became Current: 19991001  
Date Ended Current: Not reported  
Owner/Operator Address: 300 CONSTITUTION DR.  
Owner/Operator City,State,Zip: MENLO PARK, CA 94025  
Owner/Operator Telephone: 650-361-3022  
Owner/Operator Telephone Ext: Not reported  
Owner/Operator Fax: Not reported  
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner  
Owner/Operator Name: TYCO ELECTRONICS CORP.  
Legal Status: Private  
Date Became Current: 19991001  
Date Ended Current: Not reported  
Owner/Operator Address: 304 CONSTITUTION DR.  
Owner/Operator City,State,Zip: MENLO PARK, CA 94025



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**TE CONNECTIVITY LTD (Continued)**

**1024248041**

Owner/Operator Telephone: 650-361-3099  
Owner/Operator Telephone Ext: Not reported  
Owner/Operator Fax: Not reported  
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator  
Owner/Operator Name: TYCO ELECTRONICS CORP  
Legal Status: Private  
Date Became Current: 19990801  
Date Ended Current: Not reported  
Owner/Operator Address: Not reported  
Owner/Operator City,State,Zip: Not reported  
Owner/Operator Telephone: Not reported  
Owner/Operator Telephone Ext: Not reported  
Owner/Operator Fax: Not reported  
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator  
Owner/Operator Name: TYCO ELECTRONICS CORPORATION  
Legal Status: Private  
Date Became Current: 19991001  
Date Ended Current: Not reported  
Owner/Operator Address: Not reported  
Owner/Operator City,State,Zip: Not reported  
Owner/Operator Telephone: Not reported  
Owner/Operator Telephone Ext: Not reported  
Owner/Operator Fax: Not reported  
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator  
Owner/Operator Name: TYCO ELECTRONICS CORP.  
Legal Status: Private  
Date Became Current: 19991001  
Date Ended Current: Not reported  
Owner/Operator Address: Not reported  
Owner/Operator City,State,Zip: Not reported  
Owner/Operator Telephone: Not reported  
Owner/Operator Telephone Ext: Not reported  
Owner/Operator Fax: Not reported  
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner  
Owner/Operator Name: HIBISCUS PROPERTIES LLC  
Legal Status: Private  
Date Became Current: 20140904  
Date Ended Current: Not reported  
Owner/Operator Address: 1 HACKER WAY  
Owner/Operator City,State,Zip: MENLO PARK, CA 94025  
Owner/Operator Telephone: 650-391-3750  
Owner/Operator Telephone Ext: Not reported  
Owner/Operator Fax: Not reported  
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator  
Owner/Operator Name: TE CONNECTIVITY LTD  
Legal Status: Private  
Date Became Current: 19990801

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**TE CONNECTIVITY LTD (Continued)**

**1024248041**

Date Ended Current: Not reported  
Owner/Operator Address: 305 CONSTITUTION DR.  
Owner/Operator City,State,Zip: MENLO PARK, CA 94025  
Owner/Operator Telephone: 650-361-3022  
Owner/Operator Telephone Ext: Not reported  
Owner/Operator Fax: Not reported  
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner  
Owner/Operator Name: TYCO ELECTRONICS  
Legal Status: Private  
Date Became Current: 19991001  
Date Ended Current: Not reported  
Owner/Operator Address: TYCO ELECTRONICS  
Owner/Operator City,State,Zip: MENLO PARK, CA 94025  
Owner/Operator Telephone: Not reported  
Owner/Operator Telephone Ext: Not reported  
Owner/Operator Fax: Not reported  
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner  
Owner/Operator Name: TYCO ELECTRONICS CORPORATION  
Legal Status: Private  
Date Became Current: 19990801  
Date Ended Current: Not reported  
Owner/Operator Address: Not reported  
Owner/Operator City,State,Zip: Not reported  
Owner/Operator Telephone: Not reported  
Owner/Operator Telephone Ext: Not reported  
Owner/Operator Fax: Not reported  
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner  
Owner/Operator Name: TYCO ELECTRONICS CORPORATION  
Legal Status: Private  
Date Became Current: 19991001  
Date Ended Current: Not reported  
Owner/Operator Address: Not reported  
Owner/Operator City,State,Zip: Not reported  
Owner/Operator Telephone: Not reported  
Owner/Operator Telephone Ext: Not reported  
Owner/Operator Fax: Not reported  
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator  
Owner/Operator Name: TYCO ELECTRONICS  
Legal Status: Private  
Date Became Current: 19991001  
Date Ended Current: Not reported  
Owner/Operator Address: Not reported  
Owner/Operator City,State,Zip: Not reported  
Owner/Operator Telephone: Not reported  
Owner/Operator Telephone Ext: Not reported  
Owner/Operator Fax: Not reported  
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**TE CONNECTIVITY LTD (Continued)**

**1024248041**

Owner/Operator Name: TYCO ELECTRONICS CORP.  
Legal Status: Private  
Date Became Current: 19991001  
Date Ended Current: Not reported  
Owner/Operator Address: 304 CONSTITUTION DR.  
Owner/Operator City,State,Zip: MENLO PARK, CA 94025  
Owner/Operator Telephone: 650-361-3022  
Owner/Operator Telephone Ext: Not reported  
Owner/Operator Fax: Not reported  
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner  
Owner/Operator Name: HIBISCUS PROPERTIES LLC  
Legal Status: Private  
Date Became Current: 20140904  
Date Ended Current: Not reported  
Owner/Operator Address: 1 HACKER WAY  
Owner/Operator City,State,Zip: MENLO PARK, CA 94025  
Owner/Operator Telephone: 650-308-7300  
Owner/Operator Telephone Ext: Not reported  
Owner/Operator Fax: Not reported  
Owner/Operator Email: INFO@FACEBOOK.COM

Owner/Operator Indicator: Owner  
Owner/Operator Name: TYCO ELECTRONICS  
Legal Status: Private  
Date Became Current: 19991001  
Date Ended Current: Not reported  
Owner/Operator Address: P.O. BOX 3608  
Owner/Operator City,State,Zip: HARRISBURG, PA 17105  
Owner/Operator Telephone: Not reported  
Owner/Operator Telephone Ext: Not reported  
Owner/Operator Fax: Not reported  
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner  
Owner/Operator Name: TYCO ELECTRONICS  
Legal Status: Private  
Date Became Current: 19991001  
Date Ended Current: Not reported  
Owner/Operator Address: P.O. BOX 3608  
Owner/Operator City,State,Zip: HARRISBURG, PA 17105  
Owner/Operator Telephone: Not reported  
Owner/Operator Telephone Ext: Not reported  
Owner/Operator Fax: Not reported  
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner  
Owner/Operator Name: RAYCHEM CORPORATION  
Legal Status: Private  
Date Became Current: Not reported  
Date Ended Current: Not reported  
Owner/Operator Address: 300 CONSTITUTION DR  
Owner/Operator City,State,Zip: MENLO PARK, CA 94025  
Owner/Operator Telephone: 415-361-3333  
Owner/Operator Telephone Ext: Not reported  
Owner/Operator Fax: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**TE CONNECTIVITY LTD (Continued)**

**1024248041**

Owner/Operator Email: Not reported  
Owner/Operator Indicator: Operator  
Owner/Operator Name: TYCO ELECTRONICS  
Legal Status: Private  
Date Became Current: 19991001  
Date Ended Current: Not reported  
Owner/Operator Address: Not reported  
Owner/Operator City,State,Zip: Not reported  
Owner/Operator Telephone: Not reported  
Owner/Operator Telephone Ext: Not reported  
Owner/Operator Fax: Not reported  
Owner/Operator Email: Not reported

Historic Generators:

Receive Date: 20100929  
Handler Name: TYCO ELECTRONICS  
Federal Waste Generator Description: Large Quantity Generator  
State District Owner: Not reported  
Large Quantity Handler of Universal Waste: Yes  
Recognized Trader Importer: No  
Recognized Trader Exporter: No  
Spent Lead Acid Battery Importer: No  
Spent Lead Acid Battery Exporter: No  
Current Record: No  
Non Storage Recycler Activity: Not reported  
Electronic Manifest Broker: Not reported

Receive Date: 20120316  
Handler Name: TYCO ELECTRONICS  
Federal Waste Generator Description: Large Quantity Generator  
State District Owner: Not reported  
Large Quantity Handler of Universal Waste: Yes  
Recognized Trader Importer: No  
Recognized Trader Exporter: No  
Spent Lead Acid Battery Importer: No  
Spent Lead Acid Battery Exporter: No  
Current Record: No  
Non Storage Recycler Activity: Not reported  
Electronic Manifest Broker: Not reported

Receive Date: 20140301  
Handler Name: TYCO ELECTRONICS CORP.  
Federal Waste Generator Description: Large Quantity Generator  
State District Owner: Not reported  
Large Quantity Handler of Universal Waste: Yes  
Recognized Trader Importer: No  
Recognized Trader Exporter: No  
Spent Lead Acid Battery Importer: No  
Spent Lead Acid Battery Exporter: No  
Current Record: No  
Non Storage Recycler Activity: Not reported  
Electronic Manifest Broker: Not reported

Receive Date: 20160225  
Handler Name: TYCO ELECTRONICS CORPORATION  
Federal Waste Generator Description: Large Quantity Generator

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**TE CONNECTIVITY LTD (Continued)**

**1024248041**

State District Owner: Not reported  
Large Quantity Handler of Universal Waste: No  
Recognized Trader Importer: No  
Recognized Trader Exporter: No  
Spent Lead Acid Battery Importer: No  
Spent Lead Acid Battery Exporter: No  
Current Record: No  
Non Storage Recycler Activity: Not reported  
Electronic Manifest Broker: Not reported

Receive Date: 20180717  
Handler Name: TE CONNECTIVITY LTD  
Federal Waste Generator Description: Large Quantity Generator  
State District Owner: Not reported  
Large Quantity Handler of Universal Waste: No  
Recognized Trader Importer: No  
Recognized Trader Exporter: No  
Spent Lead Acid Battery Importer: No  
Spent Lead Acid Battery Exporter: No  
Current Record: No  
Non Storage Recycler Activity: No  
Electronic Manifest Broker: No

Receive Date: 20200227  
Handler Name: TE CONNECTIVITY LTD  
Federal Waste Generator Description: Not a generator, verified  
State District Owner: Not reported  
Large Quantity Handler of Universal Waste: No  
Recognized Trader Importer: No  
Recognized Trader Exporter: No  
Spent Lead Acid Battery Importer: No  
Spent Lead Acid Battery Exporter: No  
Current Record: Yes  
Non Storage Recycler Activity: No  
Electronic Manifest Broker: No

Receive Date: 20200224  
Handler Name: TE CONNECTIVITY  
Federal Waste Generator Description: Not a generator, verified  
State District Owner: Not reported  
Large Quantity Handler of Universal Waste: No  
Recognized Trader Importer: No  
Recognized Trader Exporter: No  
Spent Lead Acid Battery Importer: No  
Spent Lead Acid Battery Exporter: No  
Current Record: No  
Non Storage Recycler Activity: No  
Electronic Manifest Broker: No

Receive Date: 19960901  
Handler Name: RAYCHEM CORP  
Federal Waste Generator Description: Large Quantity Generator  
State District Owner: CA  
Large Quantity Handler of Universal Waste: No  
Recognized Trader Importer: No  
Recognized Trader Exporter: No  
Spent Lead Acid Battery Importer: No

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**TE CONNECTIVITY LTD (Continued)**

**1024248041**

Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported
Receive Date:	19800814
Handler Name:	RAYCHEM CORP
Federal Waste Generator Description:	Large Quantity Generator
State District Owner:	CA
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported
Receive Date:	20030127
Handler Name:	TYCO ELECTRONICS CORPORATION
Federal Waste Generator Description:	Large Quantity Generator
State District Owner:	CA
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported
Receive Date:	20140917
Handler Name:	TYCO ELECTRONICS CORP
Federal Waste Generator Description:	Large Quantity Generator
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported
Receive Date:	20180307
Handler Name:	TE CONNECTIVITY LTD
Federal Waste Generator Description:	Large Quantity Generator
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	No
Electronic Manifest Broker:	No

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**TE CONNECTIVITY LTD (Continued)**

**1024248041**

Receive Date: 19900430  
Handler Name: RAYCHEM CORP  
Federal Waste Generator Description: Large Quantity Generator  
State District Owner: Not reported  
Large Quantity Handler of Universal Waste: No  
Recognized Trader Importer: No  
Recognized Trader Exporter: No  
Spent Lead Acid Battery Importer: No  
Spent Lead Acid Battery Exporter: No  
Current Record: No  
Non Storage Recycler Activity: Not reported  
Electronic Manifest Broker: Not reported

Receive Date: 19920221  
Handler Name: RAYCHEM - MAIN SITE  
Federal Waste Generator Description: Large Quantity Generator  
State District Owner: Not reported  
Large Quantity Handler of Universal Waste: No  
Recognized Trader Importer: No  
Recognized Trader Exporter: No  
Spent Lead Acid Battery Importer: No  
Spent Lead Acid Battery Exporter: No  
Current Record: No  
Non Storage Recycler Activity: Not reported  
Electronic Manifest Broker: Not reported

Receive Date: 19940420  
Handler Name: RAYCHEM CORP  
Federal Waste Generator Description: Large Quantity Generator  
State District Owner: Not reported  
Large Quantity Handler of Universal Waste: No  
Recognized Trader Importer: No  
Recognized Trader Exporter: No  
Spent Lead Acid Battery Importer: No  
Spent Lead Acid Battery Exporter: No  
Current Record: No  
Non Storage Recycler Activity: Not reported  
Electronic Manifest Broker: Not reported

Receive Date: 19960311  
Handler Name: RAYCHEM CORPORATION-MAIN SITE  
Federal Waste Generator Description: Large Quantity Generator  
State District Owner: Not reported  
Large Quantity Handler of Universal Waste: No  
Recognized Trader Importer: No  
Recognized Trader Exporter: No  
Spent Lead Acid Battery Importer: No  
Spent Lead Acid Battery Exporter: No  
Current Record: No  
Non Storage Recycler Activity: Not reported  
Electronic Manifest Broker: Not reported

Receive Date: 19990304  
Handler Name: RAYCHEM CORPORATION-MAIN SITE  
Federal Waste Generator Description: Large Quantity Generator  
State District Owner: Not reported  
Large Quantity Handler of Universal Waste: No

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**TE CONNECTIVITY LTD (Continued)**

**1024248041**

Recognized Trader Importer: No  
Recognized Trader Exporter: No  
Spent Lead Acid Battery Importer: No  
Spent Lead Acid Battery Exporter: No  
Current Record: No  
Non Storage Recycler Activity: Not reported  
Electronic Manifest Broker: Not reported

Receive Date: 20001012  
Handler Name: RAYCHEM CORPORATION  
Federal Waste Generator Description: Large Quantity Generator  
State District Owner: Not reported  
Large Quantity Handler of Universal Waste: No  
Recognized Trader Importer: No  
Recognized Trader Exporter: No  
Spent Lead Acid Battery Importer: No  
Spent Lead Acid Battery Exporter: No  
Current Record: No  
Non Storage Recycler Activity: Not reported  
Electronic Manifest Broker: Not reported

Receive Date: 20020226  
Handler Name: RAYCHEM CORPORATION (TYCO ELECTRONICS)  
Federal Waste Generator Description: Large Quantity Generator  
State District Owner: Not reported  
Large Quantity Handler of Universal Waste: No  
Recognized Trader Importer: No  
Recognized Trader Exporter: No  
Spent Lead Acid Battery Importer: No  
Spent Lead Acid Battery Exporter: No  
Current Record: No  
Non Storage Recycler Activity: Not reported  
Electronic Manifest Broker: Not reported

Receive Date: 20040225  
Handler Name: TYCO ELECTRONICS  
Federal Waste Generator Description: Large Quantity Generator  
State District Owner: Not reported  
Large Quantity Handler of Universal Waste: No  
Recognized Trader Importer: No  
Recognized Trader Exporter: No  
Spent Lead Acid Battery Importer: No  
Spent Lead Acid Battery Exporter: No  
Current Record: No  
Non Storage Recycler Activity: Not reported  
Electronic Manifest Broker: Not reported

Receive Date: 20060227  
Handler Name: TYCO ELECTRONICS  
Federal Waste Generator Description: Large Quantity Generator  
State District Owner: Not reported  
Large Quantity Handler of Universal Waste: No  
Recognized Trader Importer: No  
Recognized Trader Exporter: No  
Spent Lead Acid Battery Importer: No  
Spent Lead Acid Battery Exporter: No  
Current Record: No



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**TE CONNECTIVITY LTD (Continued)**

**1024248041**

Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported
Receive Date:	20080227
Handler Name:	TYCO ELECTRONICS
Federal Waste Generator Description:	Large Quantity Generator
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	Yes
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:

NAICS Code:	325211
NAICS Description:	PLASTICS MATERIAL AND RESIN MANUFACTURING
NAICS Code:	32551
NAICS Description:	PAINT AND COATING MANUFACTURING
NAICS Code:	325991
NAICS Description:	CUSTOM COMPOUNDING OF PURCHASED RESINS
NAICS Code:	326121
NAICS Description:	UNLAMINATED PLASTICS PROFILE SHAPE MANUFACTURING
NAICS Code:	326199
NAICS Description:	ALL OTHER PLASTICS PRODUCT MANUFACTURING
NAICS Code:	326299
NAICS Description:	ALL OTHER RUBBER PRODUCT MANUFACTURING
NAICS Code:	331491
NAICS Description:	NONFERROUS METAL (EXCEPT COPPER AND ALUMINUM) ROLLING, DRAWING, AND EXTRUDING
NAICS Code:	332919
NAICS Description:	OTHER METAL VALVE AND PIPE FITTING MANUFACTURING
NAICS Code:	334415
NAICS Description:	ELECTRONIC RESISTOR MANUFACTURING
NAICS Code:	334417
NAICS Description:	ELECTRONIC CONNECTOR MANUFACTURING
NAICS Code:	335929
NAICS Description:	OTHER COMMUNICATION AND ENERGY WIRE MANUFACTURING
NAICS Code:	339999
NAICS Description:	ALL OTHER MISCELLANEOUS MANUFACTURING
NAICS Code:	561439
NAICS Description:	OTHER BUSINESS SERVICE CENTERS (INCLUDING COPY SHOPS)

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**TE CONNECTIVITY LTD (Continued)**

**1024248041**

NAICS Code: 81292  
NAICS Description: PHOTOFINISHING

Facility Has Received Notices of Violation:

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	19911108
Actual Return to Compliance Date:	19920103
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	19920211
Enforcement Identifier:	007
Date of Enforcement Action:	19911210
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	REFERRAL TO ATTORNEY GENERAL
Enforcement Responsible Person:	R9STA
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - Financial Requirements
Date Violation was Determined:	19880802
Actual Return to Compliance Date:	19880819
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	008
Date of Enforcement Action:	19920506
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**TE CONNECTIVITY LTD (Continued)**

**1024248041**

Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	INITIAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY
Enforcement Responsible Person:	R9STA
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	19911108
Actual Return to Compliance Date:	19920103
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	008
Date of Enforcement Action:	19920506
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	INITIAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY
Enforcement Responsible Person:	R9STA
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

TE CONNECTIVITY LTD (Continued)

1024248041

Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - General
Date Violation was Determined:	19880830
Actual Return to Compliance Date:	19890421
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	19890112
Enforcement Identifier:	003
Date of Enforcement Action:	19890106
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	R9STA
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - General
Date Violation was Determined:	19880830
Actual Return to Compliance Date:	19890421
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	008
Date of Enforcement Action:	19920506
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

TE CONNECTIVITY LTD (Continued)

1024248041

Appeal Resolution Date: Not reported  
Disposition Status Date: Not reported  
Disposition Status: Not reported  
Disposition Status Description: Not reported  
Consent/Final Order Sequence Number: Not reported  
Consent/Final Order Respondent Name: Not reported  
Consent/Final Order Lead Agency: Not reported  
Enforcement Type: INITIAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY  
Enforcement Responsible Person: R9STA  
Enforcement Responsible Sub-Organization: Not reported  
SEP Sequence Number: Not reported  
SEP Expenditure Amount: Not reported  
SEP Scheduled Completion Date: Not reported  
SEP Actual Date: Not reported  
SEP Defaulted Date: Not reported  
SEP Type: Not reported  
SEP Type Description: Not reported  
Proposed Amount: Not reported  
Final Monetary Amount: Not reported  
Paid Amount: Not reported  
Final Count: Not reported  
Final Amount: Not reported

Found Violation: Yes  
Agency Which Determined Violation: State  
Violation Short Description: TSD - General  
Date Violation was Determined: 19880830  
Actual Return to Compliance Date: 19890421  
Return to Compliance Qualifier: Observed  
Violation Responsible Agency: State  
Scheduled Compliance Date: Not reported  
Enforcement Identifier: 004  
Date of Enforcement Action: 19900427  
Enforcement Responsible Agency: State  
Enforcement Docket Number: Not reported  
Enforcement Attorney: Not reported  
Corrective Action Component: No  
Appeal Initiated Date: Not reported  
Appeal Resolution Date: Not reported  
Disposition Status Date: Not reported  
Disposition Status: Not reported  
Disposition Status Description: Not reported  
Consent/Final Order Sequence Number: Not reported  
Consent/Final Order Respondent Name: Not reported  
Consent/Final Order Lead Agency: Not reported  
Enforcement Type: REFERRAL TO ATTORNEY GENERAL  
Enforcement Responsible Person: R9STA  
Enforcement Responsible Sub-Organization: Not reported  
SEP Sequence Number: Not reported  
SEP Expenditure Amount: Not reported  
SEP Scheduled Completion Date: Not reported  
SEP Actual Date: Not reported  
SEP Defaulted Date: Not reported  
SEP Type: Not reported  
SEP Type Description: Not reported  
Proposed Amount: Not reported  
Final Monetary Amount: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

TE CONNECTIVITY LTD (Continued)

1024248041

Paid Amount: Not reported  
Final Count: Not reported  
Final Amount: Not reported

Found Violation: No  
Agency Which Determined Violation: Not reported  
Violation Short Description: Not reported  
Date Violation was Determined: Not reported  
Actual Return to Compliance Date: Not reported  
Return to Compliance Qualifier: Not reported  
Violation Responsible Agency: Not reported  
Scheduled Compliance Date: Not reported  
Enforcement Identifier: Not reported  
Date of Enforcement Action: Not reported  
Enforcement Responsible Agency: Not reported  
Enforcement Docket Number: Not reported  
Enforcement Attorney: Not reported  
Corrective Action Component: Not reported  
Appeal Initiated Date: Not reported  
Appeal Resolution Date: Not reported  
Disposition Status Date: Not reported  
Disposition Status: Not reported  
Disposition Status Description: Not reported  
Consent/Final Order Sequence Number: Not reported  
Consent/Final Order Respondent Name: Not reported  
Consent/Final Order Lead Agency: Not reported  
Enforcement Type: Not reported  
Enforcement Responsible Person: Not reported  
Enforcement Responsible Sub-Organization: Not reported  
SEP Sequence Number: Not reported  
SEP Expenditure Amount: Not reported  
SEP Scheduled Completion Date: Not reported  
SEP Actual Date: Not reported  
SEP Defaulted Date: Not reported  
SEP Type: Not reported  
SEP Type Description: Not reported  
Proposed Amount: Not reported  
Final Monetary Amount: Not reported  
Paid Amount: Not reported  
Final Count: Not reported  
Final Amount: Not reported

Found Violation: Yes  
Agency Which Determined Violation: State  
Violation Short Description: LDR - General  
Date Violation was Determined: 19880830  
Actual Return to Compliance Date: 19890421  
Return to Compliance Qualifier: Observed  
Violation Responsible Agency: State  
Scheduled Compliance Date: Not reported  
Enforcement Identifier: 009  
Date of Enforcement Action: 19920511  
Enforcement Responsible Agency: State  
Enforcement Docket Number: Not reported  
Enforcement Attorney: Not reported  
Corrective Action Component: No  
Appeal Initiated Date: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**TE CONNECTIVITY LTD (Continued)**

**1024248041**

Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	FINAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY
Enforcement Responsible Person:	R9STA
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	425000
Paid Amount:	Not reported
Final Count:	1
Final Amount:	425000
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**TE CONNECTIVITY LTD (Continued)**

**1024248041**

Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	LDR - General
Date Violation was Determined:	19880830
Actual Return to Compliance Date:	19890421
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	008
Date of Enforcement Action:	19920506
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	INITIAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY
Enforcement Responsible Person:	R9STA
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**TE CONNECTIVITY LTD (Continued)**

**1024248041**

Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

TE CONNECTIVITY LTD (Continued)

1024248041

Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	EPA
Violation Short Description:	TSD - Financial Requirements
Date Violation was Determined:	19920820
Actual Return to Compliance Date:	19930101
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	EPA
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	LDR - General
Date Violation was Determined:	19880830
Actual Return to Compliance Date:	19890421
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	19890112
Enforcement Identifier:	003
Date of Enforcement Action:	19890106
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**TE CONNECTIVITY LTD (Continued)**

**1024248041**

Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	R9STA
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**TE CONNECTIVITY LTD (Continued)**

**1024248041**

Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - General
Date Violation was Determined:	19880830
Actual Return to Compliance Date:	19890421
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	008
Date of Enforcement Action:	19920506
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	INITIAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY
Enforcement Responsible Person:	R9STA
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - General
Date Violation was Determined:	19880830
Actual Return to Compliance Date:	19890421
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	19890112
Enforcement Identifier:	003
Date of Enforcement Action:	19890106
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**TE CONNECTIVITY LTD (Continued)**

**1024248041**

Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	R9STA
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

TE CONNECTIVITY LTD (Continued)

1024248041

Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	20040224
Actual Return to Compliance Date:	20040404
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	501
Date of Enforcement Action:	20040302
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

TE CONNECTIVITY LTD (Continued)

1024248041

Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	LDR - General
Date Violation was Determined:	19880830
Actual Return to Compliance Date:	19890421
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	004
Date of Enforcement Action:	19900427
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	REFERRAL TO ATTORNEY GENERAL
Enforcement Responsible Person:	R9STA
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

TE CONNECTIVITY LTD (Continued)

1024248041

Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - General
Date Violation was Determined:	19880830
Actual Return to Compliance Date:	19890421
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	004
Date of Enforcement Action:	19900427
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	REFERRAL TO ATTORNEY GENERAL
Enforcement Responsible Person:	R9STA
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - General
Date Violation was Determined:	19900508
Actual Return to Compliance Date:	19900930
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	009
Date of Enforcement Action:	19920511
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**TE CONNECTIVITY LTD (Continued)**

**1024248041**

Appeal Resolution Date: Not reported  
Disposition Status Date: Not reported  
Disposition Status: Not reported  
Disposition Status Description: Not reported  
Consent/Final Order Sequence Number: Not reported  
Consent/Final Order Respondent Name: Not reported  
Consent/Final Order Lead Agency: Not reported  
Enforcement Type: FINAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY  
Enforcement Responsible Person: R9STA  
Enforcement Responsible Sub-Organization: Not reported  
SEP Sequence Number: Not reported  
SEP Expenditure Amount: Not reported  
SEP Scheduled Completion Date: Not reported  
SEP Actual Date: Not reported  
SEP Defaulted Date: Not reported  
SEP Type: Not reported  
SEP Type Description: Not reported  
Proposed Amount: Not reported  
Final Monetary Amount: 425000  
Paid Amount: Not reported  
Final Count: 1  
Final Amount: 425000

Found Violation: Yes  
Agency Which Determined Violation: State  
Violation Short Description: Generators - General  
Date Violation was Determined: 19911108  
Actual Return to Compliance Date: 19920103  
Return to Compliance Qualifier: Observed  
Violation Responsible Agency: State  
Scheduled Compliance Date: 19920211  
Enforcement Identifier: 007  
Date of Enforcement Action: 19911210  
Enforcement Responsible Agency: State  
Enforcement Docket Number: Not reported  
Enforcement Attorney: Not reported  
Corrective Action Component: No  
Appeal Initiated Date: Not reported  
Appeal Resolution Date: Not reported  
Disposition Status Date: Not reported  
Disposition Status: Not reported  
Disposition Status Description: Not reported  
Consent/Final Order Sequence Number: Not reported  
Consent/Final Order Respondent Name: Not reported  
Consent/Final Order Lead Agency: Not reported  
Enforcement Type: REFERRAL TO ATTORNEY GENERAL  
Enforcement Responsible Person: R9STA  
Enforcement Responsible Sub-Organization: Not reported  
SEP Sequence Number: Not reported  
SEP Expenditure Amount: Not reported  
SEP Scheduled Completion Date: Not reported  
SEP Actual Date: Not reported  
SEP Defaulted Date: Not reported  
SEP Type: Not reported  
SEP Type Description: Not reported  
Proposed Amount: Not reported  
Final Monetary Amount: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

TE CONNECTIVITY LTD (Continued)

1024248041

Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	19911108
Actual Return to Compliance Date:	19920103
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	009
Date of Enforcement Action:	19920511
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	FINAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY
Enforcement Responsible Person:	R9STA
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	425000
Paid Amount:	Not reported
Final Count:	1
Final Amount:	425000
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - General
Date Violation was Determined:	19911108
Actual Return to Compliance Date:	19920103
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	008
Date of Enforcement Action:	19920506
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

TE CONNECTIVITY LTD (Continued)

1024248041

Appeal Resolution Date: Not reported  
Disposition Status Date: Not reported  
Disposition Status: Not reported  
Disposition Status Description: Not reported  
Consent/Final Order Sequence Number: Not reported  
Consent/Final Order Respondent Name: Not reported  
Consent/Final Order Lead Agency: Not reported  
Enforcement Type: INITIAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY  
Enforcement Responsible Person: R9STA  
Enforcement Responsible Sub-Organization: Not reported  
SEP Sequence Number: Not reported  
SEP Expenditure Amount: Not reported  
SEP Scheduled Completion Date: Not reported  
SEP Actual Date: Not reported  
SEP Defaulted Date: Not reported  
SEP Type: Not reported  
SEP Type Description: Not reported  
Proposed Amount: Not reported  
Final Monetary Amount: Not reported  
Paid Amount: Not reported  
Final Count: Not reported  
Final Amount: Not reported

Found Violation: Yes  
Agency Which Determined Violation: State  
Violation Short Description: TSD - General  
Date Violation was Determined: 19900508  
Actual Return to Compliance Date: 19900930  
Return to Compliance Qualifier: Observed  
Violation Responsible Agency: State  
Scheduled Compliance Date: 19900805  
Enforcement Identifier: 005  
Date of Enforcement Action: 19900504  
Enforcement Responsible Agency: State  
Enforcement Docket Number: Not reported  
Enforcement Attorney: Not reported  
Corrective Action Component: No  
Appeal Initiated Date: Not reported  
Appeal Resolution Date: Not reported  
Disposition Status Date: Not reported  
Disposition Status: Not reported  
Disposition Status Description: Not reported  
Consent/Final Order Sequence Number: Not reported  
Consent/Final Order Respondent Name: Not reported  
Consent/Final Order Lead Agency: Not reported  
Enforcement Type: WRITTEN INFORMAL  
Enforcement Responsible Person: R9STA  
Enforcement Responsible Sub-Organization: Not reported  
SEP Sequence Number: Not reported  
SEP Expenditure Amount: Not reported  
SEP Scheduled Completion Date: Not reported  
SEP Actual Date: Not reported  
SEP Defaulted Date: Not reported  
SEP Type: Not reported  
SEP Type Description: Not reported  
Proposed Amount: Not reported  
Final Monetary Amount: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

TE CONNECTIVITY LTD (Continued)

1024248041

Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	19911108
Actual Return to Compliance Date:	19920103
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	19920211
Enforcement Identifier:	006
Date of Enforcement Action:	19911112
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	R9STA
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	LDR - General
Date Violation was Determined:	19880830
Actual Return to Compliance Date:	19890421
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	009
Date of Enforcement Action:	19920511
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

TE CONNECTIVITY LTD (Continued)

1024248041

Appeal Resolution Date: Not reported  
Disposition Status Date: Not reported  
Disposition Status: Not reported  
Disposition Status Description: Not reported  
Consent/Final Order Sequence Number: Not reported  
Consent/Final Order Respondent Name: Not reported  
Consent/Final Order Lead Agency: Not reported  
Enforcement Type: FINAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY  
Enforcement Responsible Person: R9STA  
Enforcement Responsible Sub-Organization: Not reported  
SEP Sequence Number: Not reported  
SEP Expenditure Amount: Not reported  
SEP Scheduled Completion Date: Not reported  
SEP Actual Date: Not reported  
SEP Defaulted Date: Not reported  
SEP Type: Not reported  
SEP Type Description: Not reported  
Proposed Amount: Not reported  
Final Monetary Amount: 425000  
Paid Amount: Not reported  
Final Count: 1  
Final Amount: 425000

Found Violation: Yes  
Agency Which Determined Violation: State  
Violation Short Description: Generators - General  
Date Violation was Determined: 19911108  
Actual Return to Compliance Date: 19920103  
Return to Compliance Qualifier: Observed  
Violation Responsible Agency: State  
Scheduled Compliance Date: Not reported  
Enforcement Identifier: 009  
Date of Enforcement Action: 19920511  
Enforcement Responsible Agency: State  
Enforcement Docket Number: Not reported  
Enforcement Attorney: Not reported  
Corrective Action Component: No  
Appeal Initiated Date: Not reported  
Appeal Resolution Date: Not reported  
Disposition Status Date: Not reported  
Disposition Status: Not reported  
Disposition Status Description: Not reported  
Consent/Final Order Sequence Number: Not reported  
Consent/Final Order Respondent Name: Not reported  
Consent/Final Order Lead Agency: Not reported  
Enforcement Type: FINAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY  
Enforcement Responsible Person: R9STA  
Enforcement Responsible Sub-Organization: Not reported  
SEP Sequence Number: Not reported  
SEP Expenditure Amount: Not reported  
SEP Scheduled Completion Date: Not reported  
SEP Actual Date: Not reported  
SEP Defaulted Date: Not reported  
SEP Type: Not reported  
SEP Type Description: Not reported  
Proposed Amount: Not reported  
Final Monetary Amount: 425000

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**TE CONNECTIVITY LTD (Continued)**

**1024248041**

Paid Amount:	Not reported
Final Count:	1
Final Amount:	425000
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	19911108
Actual Return to Compliance Date:	19920103
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	19920211
Enforcement Identifier:	006
Date of Enforcement Action:	19911112
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	R9STA
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	LDR - General
Date Violation was Determined:	19880830
Actual Return to Compliance Date:	19890421
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	004
Date of Enforcement Action:	19900427
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

TE CONNECTIVITY LTD (Continued)

1024248041

Appeal Resolution Date: Not reported  
Disposition Status Date: Not reported  
Disposition Status: Not reported  
Disposition Status Description: Not reported  
Consent/Final Order Sequence Number:Not reported  
Consent/Final Order Respondent Name: Not reported  
Consent/Final Order Lead Agency: Not reported  
Enforcement Type: REFERRAL TO ATTORNEY GENERAL  
Enforcement Responsible Person: R9STA  
Enforcement Responsible Sub-Organization: Not reported  
SEP Sequence Number: Not reported  
SEP Expenditure Amount: Not reported  
SEP Scheduled Completion Date: Not reported  
SEP Actual Date: Not reported  
SEP Defaulted Date: Not reported  
SEP Type: Not reported  
SEP Type Description: Not reported  
Proposed Amount: Not reported  
Final Monetary Amount: Not reported  
Paid Amount: Not reported  
Final Count: Not reported  
Final Amount: Not reported

Found Violation: Yes  
Agency Which Determined Violation: State  
Violation Short Description: TSD - General  
Date Violation was Determined: 19911108  
Actual Return to Compliance Date: 19920103  
Return to Compliance Qualifier: Observed  
Violation Responsible Agency: State  
Scheduled Compliance Date: 19920211  
Enforcement Identifier: 006  
Date of Enforcement Action: 19911112  
Enforcement Responsible Agency: State  
Enforcement Docket Number: Not reported  
Enforcement Attorney: Not reported  
Corrective Action Component: No  
Appeal Initiated Date: Not reported  
Appeal Resolution Date: Not reported  
Disposition Status Date: Not reported  
Disposition Status: Not reported  
Disposition Status Description: Not reported  
Consent/Final Order Sequence Number:Not reported  
Consent/Final Order Respondent Name: Not reported  
Consent/Final Order Lead Agency: Not reported  
Enforcement Type: WRITTEN INFORMAL  
Enforcement Responsible Person: R9STA  
Enforcement Responsible Sub-Organization: Not reported  
SEP Sequence Number: Not reported  
SEP Expenditure Amount: Not reported  
SEP Scheduled Completion Date: Not reported  
SEP Actual Date: Not reported  
SEP Defaulted Date: Not reported  
SEP Type: Not reported  
SEP Type Description: Not reported  
Proposed Amount: Not reported  
Final Monetary Amount: Not reported

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**TE CONNECTIVITY LTD (Continued)**

**1024248041**

Paid Amount: Not reported  
 Final Count: Not reported  
 Final Amount: Not reported

Found Violation: No  
 Agency Which Determined Violation: Not reported  
 Violation Short Description: Not reported  
 Date Violation was Determined: Not reported  
 Actual Return to Compliance Date: Not reported  
 Return to Compliance Qualifier: Not reported  
 Violation Responsible Agency: Not reported  
 Scheduled Compliance Date: Not reported  
 Enforcement Identifier: Not reported  
 Date of Enforcement Action: Not reported  
 Enforcement Responsible Agency: Not reported  
 Enforcement Docket Number: Not reported  
 Enforcement Attorney: Not reported  
 Corrective Action Component: Not reported  
 Appeal Initiated Date: Not reported  
 Appeal Resolution Date: Not reported  
 Disposition Status Date: Not reported  
 Disposition Status: Not reported  
 Disposition Status Description: Not reported  
 Consent/Final Order Sequence Number: Not reported  
 Consent/Final Order Respondent Name: Not reported  
 Consent/Final Order Lead Agency: Not reported  
 Enforcement Type: Not reported  
 Enforcement Responsible Person: Not reported  
 Enforcement Responsible Sub-Organization: Not reported  
 SEP Sequence Number: Not reported  
 SEP Expenditure Amount: Not reported  
 SEP Scheduled Completion Date: Not reported  
 SEP Actual Date: Not reported  
 SEP Defaulted Date: Not reported  
 SEP Type: Not reported  
 SEP Type Description: Not reported  
 Proposed Amount: Not reported  
 Final Monetary Amount: Not reported  
 Paid Amount: Not reported  
 Final Count: Not reported  
 Final Amount: Not reported

Found Violation: Yes  
 Agency Which Determined Violation: State  
 Violation Short Description: TSD - General  
 Date Violation was Determined: 19911108  
 Actual Return to Compliance Date: 19920103  
 Return to Compliance Qualifier: Observed  
 Violation Responsible Agency: State  
 Scheduled Compliance Date: 19920211  
 Enforcement Identifier: 007  
 Date of Enforcement Action: 19911210  
 Enforcement Responsible Agency: State  
 Enforcement Docket Number: Not reported  
 Enforcement Attorney: Not reported  
 Corrective Action Component: No  
 Appeal Initiated Date: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

TE CONNECTIVITY LTD (Continued)

1024248041

Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	REFERRAL TO ATTORNEY GENERAL
Enforcement Responsible Person:	R9STA
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - General
Date Violation was Determined:	19911108
Actual Return to Compliance Date:	19920103
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	009
Date of Enforcement Action:	19920511
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	FINAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY
Enforcement Responsible Person:	R9STA
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	425000

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**TE CONNECTIVITY LTD (Continued)**

**1024248041**

Paid Amount:	Not reported
Final Count:	1
Final Amount:	425000
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	LDR - General
Date Violation was Determined:	19880830
Actual Return to Compliance Date:	19890421
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	19890112
Enforcement Identifier:	003
Date of Enforcement Action:	19890106
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	R9STA
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - General
Date Violation was Determined:	19880830
Actual Return to Compliance Date:	19890421
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	009
Date of Enforcement Action:	19920511
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

TE CONNECTIVITY LTD (Continued)

1024248041

Appeal Resolution Date: Not reported  
Disposition Status Date: Not reported  
Disposition Status: Not reported  
Disposition Status Description: Not reported  
Consent/Final Order Sequence Number: Not reported  
Consent/Final Order Respondent Name: Not reported  
Consent/Final Order Lead Agency: Not reported  
Enforcement Type: FINAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY  
Enforcement Responsible Person: R9STA  
Enforcement Responsible Sub-Organization: Not reported  
SEP Sequence Number: Not reported  
SEP Expenditure Amount: Not reported  
SEP Scheduled Completion Date: Not reported  
SEP Actual Date: Not reported  
SEP Defaulted Date: Not reported  
SEP Type: Not reported  
SEP Type Description: Not reported  
Proposed Amount: Not reported  
Final Monetary Amount: 425000  
Paid Amount: Not reported  
Final Count: 1  
Final Amount: 425000

Found Violation: Yes  
Agency Which Determined Violation: State  
Violation Short Description: Generators - General  
Date Violation was Determined: 19911108  
Actual Return to Compliance Date: 19920103  
Return to Compliance Qualifier: Observed  
Violation Responsible Agency: State  
Scheduled Compliance Date: Not reported  
Enforcement Identifier: 008  
Date of Enforcement Action: 19920506  
Enforcement Responsible Agency: State  
Enforcement Docket Number: Not reported  
Enforcement Attorney: Not reported  
Corrective Action Component: No  
Appeal Initiated Date: Not reported  
Appeal Resolution Date: Not reported  
Disposition Status Date: Not reported  
Disposition Status: Not reported  
Disposition Status Description: Not reported  
Consent/Final Order Sequence Number: Not reported  
Consent/Final Order Respondent Name: Not reported  
Consent/Final Order Lead Agency: Not reported  
Enforcement Type: INITIAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY  
Enforcement Responsible Person: R9STA  
Enforcement Responsible Sub-Organization: Not reported  
SEP Sequence Number: Not reported  
SEP Expenditure Amount: Not reported  
SEP Scheduled Completion Date: Not reported  
SEP Actual Date: Not reported  
SEP Defaulted Date: Not reported  
SEP Type: Not reported  
SEP Type Description: Not reported  
Proposed Amount: Not reported  
Final Monetary Amount: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**TE CONNECTIVITY LTD (Continued)**

**1024248041**

Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - General
Date Violation was Determined:	19900508
Actual Return to Compliance Date:	19900930
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	008
Date of Enforcement Action:	19920506
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	INITIAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY
Enforcement Responsible Person:	R9STA
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - General
Date Violation was Determined:	19900508
Actual Return to Compliance Date:	19900930
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	007
Date of Enforcement Action:	19911210
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

TE CONNECTIVITY LTD (Continued)

1024248041

Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	REFERRAL TO ATTORNEY GENERAL
Enforcement Responsible Person:	R9STA
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - General
Date Violation was Determined:	19880830
Actual Return to Compliance Date:	19890421
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	009
Date of Enforcement Action:	19920511
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	FINAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY
Enforcement Responsible Person:	R9STA
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	425000

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

TE CONNECTIVITY LTD (Continued)

1024248041

Paid Amount:	Not reported
Final Count:	1
Final Amount:	425000
Found Violation:	Yes
Agency Which Determined Violation:	EPA
Violation Short Description:	TSD - Financial Requirements
Date Violation was Determined:	19911120
Actual Return to Compliance Date:	19920101
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	EPA
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - Financial Requirements
Date Violation was Determined:	19860707
Actual Return to Compliance Date:	19860717
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	001
Date of Enforcement Action:	19860424
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**TE CONNECTIVITY LTD (Continued)**

**1024248041**

Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	R9STA
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

TE CONNECTIVITY LTD (Continued)

1024248041

Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - Financial Requirements
Date Violation was Determined:	19880802
Actual Return to Compliance Date:	19880819
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	002
Date of Enforcement Action:	19880816
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	R9STA
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	LDR - General
Date Violation was Determined:	19880830
Actual Return to Compliance Date:	19890421
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	008
Date of Enforcement Action:	19920506
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**TE CONNECTIVITY LTD (Continued)**

**1024248041**

Appeal Resolution Date: Not reported  
Disposition Status Date: Not reported  
Disposition Status: Not reported  
Disposition Status Description: Not reported  
Consent/Final Order Sequence Number: Not reported  
Consent/Final Order Respondent Name: Not reported  
Consent/Final Order Lead Agency: Not reported  
Enforcement Type: INITIAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY  
Enforcement Responsible Person: R9STA  
Enforcement Responsible Sub-Organization: Not reported  
SEP Sequence Number: Not reported  
SEP Expenditure Amount: Not reported  
SEP Scheduled Completion Date: Not reported  
SEP Actual Date: Not reported  
SEP Defaulted Date: Not reported  
SEP Type: Not reported  
SEP Type Description: Not reported  
Proposed Amount: Not reported  
Final Monetary Amount: Not reported  
Paid Amount: Not reported  
Final Count: Not reported  
Final Amount: Not reported

**Evaluation Action Summary:**

Evaluation Date: 19910930  
Evaluation Responsible Agency: State  
Found Violation: Yes  
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Evaluation Responsible Person Identifier: R9STA  
Evaluation Responsible Sub-Organization: Not reported  
Actual Return to Compliance Date: 19920103  
Scheduled Compliance Date: 19920211  
Date of Request: Not reported  
Date Response Received: Not reported  
Request Agency: Not reported  
Former Citation: Not reported

Evaluation Date: 19880802  
Evaluation Responsible Agency: State  
Found Violation: Yes  
Evaluation Type Description: FINANCIAL RECORD REVIEW  
Evaluation Responsible Person Identifier: R9STA  
Evaluation Responsible Sub-Organization: Not reported  
Actual Return to Compliance Date: 19880819  
Scheduled Compliance Date: Not reported  
Date of Request: Not reported  
Date Response Received: Not reported  
Request Agency: Not reported  
Former Citation: Not reported

Evaluation Date: 19910930  
Evaluation Responsible Agency: State  
Found Violation: Yes  
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Evaluation Responsible Person Identifier: R9STA  
Evaluation Responsible Sub-Organization: Not reported  
Actual Return to Compliance Date: 19920103

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**TE CONNECTIVITY LTD (Continued)**

**1024248041**

Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19880830
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19890421
Scheduled Compliance Date:	19890112
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19880830
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19890421
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19880830
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19890421
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19970331
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**TE CONNECTIVITY LTD (Continued)**

**1024248041**

Evaluation Date: 19880830  
Evaluation Responsible Agency: State  
Found Violation: Yes  
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Evaluation Responsible Person Identifier: R9STA  
Evaluation Responsible Sub-Organization: Not reported  
Actual Return to Compliance Date: 19890421  
Scheduled Compliance Date: Not reported  
Date of Request: Not reported  
Date Response Received: Not reported  
Request Agency: Not reported  
Former Citation: Not reported

Evaluation Date: 19980326  
Evaluation Responsible Agency: State  
Found Violation: No  
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Evaluation Responsible Person Identifier: R9STA  
Evaluation Responsible Sub-Organization: Not reported  
Actual Return to Compliance Date: Not reported  
Scheduled Compliance Date: Not reported  
Date of Request: Not reported  
Date Response Received: Not reported  
Request Agency: Not reported  
Former Citation: Not reported

Evaluation Date: 19880830  
Evaluation Responsible Agency: State  
Found Violation: Yes  
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Evaluation Responsible Person Identifier: R9STA  
Evaluation Responsible Sub-Organization: Not reported  
Actual Return to Compliance Date: 19890421  
Scheduled Compliance Date: Not reported  
Date of Request: Not reported  
Date Response Received: Not reported  
Request Agency: Not reported  
Former Citation: Not reported

Evaluation Date: 19990603  
Evaluation Responsible Agency: EPA  
Found Violation: No  
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Evaluation Responsible Person Identifier: R9EPA  
Evaluation Responsible Sub-Organization: Not reported  
Actual Return to Compliance Date: Not reported  
Scheduled Compliance Date: Not reported  
Date of Request: Not reported  
Date Response Received: Not reported  
Request Agency: Not reported  
Former Citation: Not reported

Evaluation Date: 20190326  
Evaluation Responsible Agency: State  
Found Violation: No  
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Evaluation Responsible Person Identifier: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**TE CONNECTIVITY LTD (Continued)**

**1024248041**

Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19920820
Evaluation Responsible Agency:	EPA Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19930101
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19880830
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19890421
Scheduled Compliance Date:	19890112
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19920624
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19880830
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19890421
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

TE CONNECTIVITY LTD (Continued)

1024248041

Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19880830
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19890421
Scheduled Compliance Date:	19890112
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19900313
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20040224
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20040404
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19960613
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19880830
Evaluation Responsible Agency:	State

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

TE CONNECTIVITY LTD (Continued)

1024248041

Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19890421
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19880830
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19890421
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19900323
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19900930
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19910930
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19920103
Scheduled Compliance Date:	19920211
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19910930
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19920103

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**TE CONNECTIVITY LTD (Continued)**

**1024248041**

Scheduled Compliance Date: Not reported  
Date of Request: Not reported  
Date Response Received: Not reported  
Request Agency: Not reported  
Former Citation: Not reported

Evaluation Date: 19910930  
Evaluation Responsible Agency: State  
Found Violation: Yes  
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Evaluation Responsible Person Identifier: R9STA  
Evaluation Responsible Sub-Organization: Not reported  
Actual Return to Compliance Date: 19920103  
Scheduled Compliance Date: Not reported  
Date of Request: Not reported  
Date Response Received: Not reported  
Request Agency: Not reported  
Former Citation: Not reported

Evaluation Date: 19900323  
Evaluation Responsible Agency: State  
Found Violation: Yes  
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Evaluation Responsible Person Identifier: R9STA  
Evaluation Responsible Sub-Organization: Not reported  
Actual Return to Compliance Date: 19900930  
Scheduled Compliance Date: 19900805  
Date of Request: Not reported  
Date Response Received: Not reported  
Request Agency: Not reported  
Former Citation: Not reported

Evaluation Date: 19910930  
Evaluation Responsible Agency: State  
Found Violation: Yes  
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Evaluation Responsible Person Identifier: R9STA  
Evaluation Responsible Sub-Organization: Not reported  
Actual Return to Compliance Date: 19920103  
Scheduled Compliance Date: 19920211  
Date of Request: Not reported  
Date Response Received: Not reported  
Request Agency: Not reported  
Former Citation: Not reported

Evaluation Date: 19880830  
Evaluation Responsible Agency: State  
Found Violation: Yes  
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Evaluation Responsible Person Identifier: R9STA  
Evaluation Responsible Sub-Organization: Not reported  
Actual Return to Compliance Date: 19890421  
Scheduled Compliance Date: Not reported  
Date of Request: Not reported  
Date Response Received: Not reported  
Request Agency: Not reported  
Former Citation: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**TE CONNECTIVITY LTD (Continued)**

**1024248041**

Evaluation Date: 19910930  
Evaluation Responsible Agency: State  
Found Violation: Yes  
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Evaluation Responsible Person Identifier: R9STA  
Evaluation Responsible Sub-Organization: Not reported  
Actual Return to Compliance Date: 19920103  
Scheduled Compliance Date: Not reported  
Date of Request: Not reported  
Date Response Received: Not reported  
Request Agency: Not reported  
Former Citation: Not reported

Evaluation Date: 19910930  
Evaluation Responsible Agency: State  
Found Violation: Yes  
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Evaluation Responsible Person Identifier: R9STA  
Evaluation Responsible Sub-Organization: Not reported  
Actual Return to Compliance Date: 19920103  
Scheduled Compliance Date: 19920211  
Date of Request: Not reported  
Date Response Received: Not reported  
Request Agency: Not reported  
Former Citation: Not reported

Evaluation Date: 19880830  
Evaluation Responsible Agency: State  
Found Violation: Yes  
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Evaluation Responsible Person Identifier: R9STA  
Evaluation Responsible Sub-Organization: Not reported  
Actual Return to Compliance Date: 19890421  
Scheduled Compliance Date: Not reported  
Date of Request: Not reported  
Date Response Received: Not reported  
Request Agency: Not reported  
Former Citation: Not reported

Evaluation Date: 19910930  
Evaluation Responsible Agency: State  
Found Violation: Yes  
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Evaluation Responsible Person Identifier: R9STA  
Evaluation Responsible Sub-Organization: Not reported  
Actual Return to Compliance Date: 19920103  
Scheduled Compliance Date: 19920211  
Date of Request: Not reported  
Date Response Received: Not reported  
Request Agency: Not reported  
Former Citation: Not reported

Evaluation Date: 20190322  
Evaluation Responsible Agency: State  
Found Violation: No  
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Evaluation Responsible Person Identifier: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**TE CONNECTIVITY LTD (Continued)**

**1024248041**

Evaluation Responsible Sub-Organization: Not reported  
Actual Return to Compliance Date: Not reported  
Scheduled Compliance Date: Not reported  
Date of Request: Not reported  
Date Response Received: Not reported  
Request Agency: Not reported  
Former Citation: Not reported

Evaluation Date: 19910930  
Evaluation Responsible Agency: State  
Found Violation: Yes  
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Evaluation Responsible Person Identifier: R9STA  
Evaluation Responsible Sub-Organization: Not reported  
Actual Return to Compliance Date: 19920103  
Scheduled Compliance Date: 19920211  
Date of Request: Not reported  
Date Response Received: Not reported  
Request Agency: Not reported  
Former Citation: Not reported

Evaluation Date: 19910930  
Evaluation Responsible Agency: State  
Found Violation: Yes  
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Evaluation Responsible Person Identifier: R9STA  
Evaluation Responsible Sub-Organization: Not reported  
Actual Return to Compliance Date: 19920103  
Scheduled Compliance Date: Not reported  
Date of Request: Not reported  
Date Response Received: Not reported  
Request Agency: Not reported  
Former Citation: Not reported

Evaluation Date: 19880830  
Evaluation Responsible Agency: State  
Found Violation: Yes  
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Evaluation Responsible Person Identifier: R9STA  
Evaluation Responsible Sub-Organization: Not reported  
Actual Return to Compliance Date: 19890421  
Scheduled Compliance Date: 19890112  
Date of Request: Not reported  
Date Response Received: Not reported  
Request Agency: Not reported  
Former Citation: Not reported

Evaluation Date: 19880830  
Evaluation Responsible Agency: State  
Found Violation: Yes  
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Evaluation Responsible Person Identifier: R9STA  
Evaluation Responsible Sub-Organization: Not reported  
Actual Return to Compliance Date: 19890421  
Scheduled Compliance Date: Not reported  
Date of Request: Not reported  
Date Response Received: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**TE CONNECTIVITY LTD (Continued)**

**1024248041**

Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19910930
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19920103
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19900323
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19900930
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19900323
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19900930
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19880830
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19890421
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19911120
Evaluation Responsible Agency:	EPA Contractor/Grantee

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

TE CONNECTIVITY LTD (Continued)

1024248041

Found Violation:	Yes
Evaluation Type Description:	FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19920101
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19860707
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19860717
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20190325
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19880802
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19880819
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19880830
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19890421

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**TE CONNECTIVITY LTD (Continued)**

**1024248041**

Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**TE CONNECTIVITY LTD (Continued)**

**1024248041**

US FIN ASSUR:

Name: TE CONNECTIVITY LTD  
Address: 305 CONSTITUTION DR.  
City,State,Zip: MENLO PARK, CA  
EPA ID: CAD009125527  
County: Not reported  
Mechanism type: X  
Mechanism Type Description: STANDBY TRUST FUND  
Cost estimate: 994000  
Face value: 0  
Effective date: 2007-01-18 00:00:00  
Provider: DEUTSCHE BANK TRUST COMPANY AMERICAS  
EPA region: 9

Name: TE CONNECTIVITY LTD  
Address: 305 CONSTITUTION DR.  
City,State,Zip: MENLO PARK, CA  
EPA ID: CAD009125527  
County: Not reported  
Mechanism type: L  
Mechanism Type Description: LETTER OF CREDIT  
Cost estimate: 994000  
Face value: 994000  
Effective date: 2007-01-16 00:00:00  
Provider: DEUTSCHE BANK  
EPA region: 9

Count: 3 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
MENLO PARK	S126984335	MARSH ROAD SANITARY LANDFILL	NORTH END OF MARSH ROAD @ BAYF	94025	CA SWF/LF
MENLO PARK	1003878514	BROWNING-FERRIS INDS	END OF MARSH RD	94025	SEMS-ARCHIVE
MENLO PARK	S103472755	HUETTIG & SCHROMM	3700 HAVEN	94025	CA LUST, CA Cortese

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

**Number of Days to Update:** Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

## STANDARD ENVIRONMENTAL RECORDS

### *Lists of Federal NPL (Superfund) sites*

#### NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 10/27/2022	Source: EPA
Date Data Arrived at EDR: 11/01/2022	Telephone: N/A
Date Made Active in Reports: 11/15/2022	Last EDR Contact: 01/03/2023
Number of Days to Update: 14	Next Scheduled EDR Contact: 04/10/2023
	Data Release Frequency: Quarterly

#### NPL Site Boundaries

##### Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)  
Telephone: 202-564-7333

EPA Region 1  
Telephone 617-918-1143

EPA Region 6  
Telephone: 214-655-6659

EPA Region 3  
Telephone 215-814-5418

EPA Region 7  
Telephone: 913-551-7247

EPA Region 4  
Telephone 404-562-8033

EPA Region 8  
Telephone: 303-312-6774

EPA Region 5  
Telephone 312-886-6686

EPA Region 9  
Telephone: 415-947-4246

EPA Region 10  
Telephone 206-553-8665

#### Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 10/27/2022	Source: EPA
Date Data Arrived at EDR: 11/01/2022	Telephone: N/A
Date Made Active in Reports: 11/15/2022	Last EDR Contact: 01/03/2023
Number of Days to Update: 14	Next Scheduled EDR Contact: 04/10/2023
	Data Release Frequency: Quarterly

#### NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 10/15/1991  
Date Data Arrived at EDR: 02/02/1994  
Date Made Active in Reports: 03/30/1994  
Number of Days to Update: 56

Source: EPA  
Telephone: 202-564-4267  
Last EDR Contact: 08/15/2011  
Next Scheduled EDR Contact: 11/28/2011  
Data Release Frequency: No Update Planned

## ***Lists of Federal Delisted NPL sites***

Delisted NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 10/27/2022  
Date Data Arrived at EDR: 11/01/2022  
Date Made Active in Reports: 11/15/2022  
Number of Days to Update: 14

Source: EPA  
Telephone: N/A  
Last EDR Contact: 01/03/2023  
Next Scheduled EDR Contact: 04/10/2023  
Data Release Frequency: Quarterly

## ***Lists of Federal sites subject to CERCLA removals and CERCLA orders***

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 08/25/2022  
Date Data Arrived at EDR: 09/06/2022  
Date Made Active in Reports: 12/05/2022  
Number of Days to Update: 90

Source: Environmental Protection Agency  
Telephone: 703-603-8704  
Last EDR Contact: 12/21/2022  
Next Scheduled EDR Contact: 04/10/2023  
Data Release Frequency: Varies

SEMS: Superfund Enterprise Management System

SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly known as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 10/27/2022  
Date Data Arrived at EDR: 11/01/2022  
Date Made Active in Reports: 11/15/2022  
Number of Days to Update: 14

Source: EPA  
Telephone: 800-424-9346  
Last EDR Contact: 01/03/2023  
Next Scheduled EDR Contact: 04/24/2023  
Data Release Frequency: Quarterly

## ***Lists of Federal CERCLA sites with NFRAP***

SEMS-ARCHIVE: Superfund Enterprise Management System Archive



# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be potential NPL site.

Date of Government Version: 10/27/2022	Source: EPA
Date Data Arrived at EDR: 11/01/2022	Telephone: 800-424-9346
Date Made Active in Reports: 11/15/2022	Last EDR Contact: 01/03/2023
Number of Days to Update: 14	Next Scheduled EDR Contact: 04/24/2023
	Data Release Frequency: Quarterly

## ***Lists of Federal RCRA facilities undergoing Corrective Action***

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 11/21/2022	Source: EPA
Date Data Arrived at EDR: 11/21/2022	Telephone: 800-424-9346
Date Made Active in Reports: 12/05/2022	Last EDR Contact: 12/21/2022
Number of Days to Update: 14	Next Scheduled EDR Contact: 04/03/2023
	Data Release Frequency: Quarterly

## ***Lists of Federal RCRA TSD facilities***

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 11/21/2022	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/21/2022	Telephone: (415) 495-8895
Date Made Active in Reports: 12/05/2022	Last EDR Contact: 12/21/2022
Number of Days to Update: 14	Next Scheduled EDR Contact: 04/03/2023
	Data Release Frequency: Quarterly

## ***Lists of Federal RCRA generators***

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 11/21/2022	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/21/2022	Telephone: (415) 495-8895
Date Made Active in Reports: 12/05/2022	Last EDR Contact: 12/21/2022
Number of Days to Update: 14	Next Scheduled EDR Contact: 04/03/2023
	Data Release Frequency: Quarterly

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 11/21/2022	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/21/2022	Telephone: (415) 495-8895
Date Made Active in Reports: 12/05/2022	Last EDR Contact: 12/21/2022
Number of Days to Update: 14	Next Scheduled EDR Contact: 04/03/2023
	Data Release Frequency: Quarterly

## RCRA-VSQG: RCRA - Very Small Quantity Generators (Formerly Conditionally Exempt Small Quantity Generators)

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Very small quantity generators (VSQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 11/21/2022	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/21/2022	Telephone: (415) 495-8895
Date Made Active in Reports: 12/05/2022	Last EDR Contact: 12/21/2022
Number of Days to Update: 14	Next Scheduled EDR Contact: 04/03/2023
	Data Release Frequency: Quarterly

## ***Federal institutional controls / engineering controls registries***

### LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 11/02/2022	Source: Department of the Navy
Date Data Arrived at EDR: 11/08/2022	Telephone: 843-820-7326
Date Made Active in Reports: 01/10/2023	Last EDR Contact: 11/01/2022
Number of Days to Update: 63	Next Scheduled EDR Contact: 02/20/2023
	Data Release Frequency: Varies

### US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 08/15/2022	Source: Environmental Protection Agency
Date Data Arrived at EDR: 08/17/2022	Telephone: 703-603-0695
Date Made Active in Reports: 10/24/2022	Last EDR Contact: 11/16/2022
Number of Days to Update: 68	Next Scheduled EDR Contact: 03/06/2023
	Data Release Frequency: Varies

### US INST CONTROLS: Institutional Controls Sites List

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 08/15/2022	Source: Environmental Protection Agency
Date Data Arrived at EDR: 08/17/2022	Telephone: 703-603-0695
Date Made Active in Reports: 10/24/2022	Last EDR Contact: 11/16/2022
Number of Days to Update: 68	Next Scheduled EDR Contact: 03/06/2023
	Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## ***Federal ERNS list***

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 12/12/2022

Source: National Response Center, United States Coast Guard

Date Data Arrived at EDR: 12/14/2022

Telephone: 202-267-2180

Date Made Active in Reports: 12/19/2022

Last EDR Contact: 12/14/2022

Number of Days to Update: 5

Next Scheduled EDR Contact: 04/03/2023

Data Release Frequency: Quarterly

## ***Lists of state- and tribal (Superfund) equivalent sites***

RESPONSE: State Response Sites

Identifies confirmed release sites where DTSC is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk.

Date of Government Version: 10/24/2022

Source: Department of Toxic Substances Control

Date Data Arrived at EDR: 10/24/2022

Telephone: 916-323-3400

Date Made Active in Reports: 01/12/2023

Last EDR Contact: 10/24/2022

Number of Days to Update: 80

Next Scheduled EDR Contact: 02/06/2023

Data Release Frequency: Quarterly

## ***Lists of state- and tribal hazardous waste facilities***

ENVIROSTOR: EnviroStor Database

The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifies sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

Date of Government Version: 10/24/2022

Source: Department of Toxic Substances Control

Date Data Arrived at EDR: 10/24/2022

Telephone: 916-323-3400

Date Made Active in Reports: 01/12/2023

Last EDR Contact: 10/24/2022

Number of Days to Update: 80

Next Scheduled EDR Contact: 02/06/2023

Data Release Frequency: Quarterly

## ***Lists of state and tribal landfills and solid waste disposal facilities***

SWF/LF (SWIS): Solid Waste Information System

Active, Closed and Inactive Landfills. SWF/LF records typically contain an inventory of solid waste disposal facilities or landfills. These may be active or inactive facilities or open dumps that failed to meet RCRA Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 08/08/2022

Source: Department of Resources Recycling and Recovery

Date Data Arrived at EDR: 08/08/2022

Telephone: 916-341-6320

Date Made Active in Reports: 10/20/2022

Last EDR Contact: 11/03/2022

Number of Days to Update: 73

Next Scheduled EDR Contact: 02/20/2023

Data Release Frequency: Quarterly

## ***Lists of state and tribal leaking storage tanks***

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## LUST REG 1: Active Toxic Site Investigation

Del Norte, Humboldt, Lake, Mendocino, Modoc, Siskiyou, Sonoma, Trinity counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/01/2001	Source: California Regional Water Quality Control Board North Coast (1)
Date Data Arrived at EDR: 02/28/2001	Telephone: 707-570-3769
Date Made Active in Reports: 03/29/2001	Last EDR Contact: 08/01/2011
Number of Days to Update: 29	Next Scheduled EDR Contact: 11/14/2011
	Data Release Frequency: No Update Planned

## LUST REG 5: Leaking Underground Storage Tank Database

Leaking Underground Storage Tank locations. Alameda, Alpine, Amador, Butte, Colusa, Contra Costa, Calveras, El Dorado, Fresno, Glenn, Kern, Kings, Lake, Lassen, Madera, Mariposa, Merced, Modoc, Napa, Nevada, Placer, Plumas, Sacramento, San Joaquin, Shasta, Solano, Stanislaus, Sutter, Tehama, Tulare, Tuolumne, Yolo, Yuba counties.

Date of Government Version: 07/01/2008	Source: California Regional Water Quality Control Board Central Valley Region (5)
Date Data Arrived at EDR: 07/22/2008	Telephone: 916-464-4834
Date Made Active in Reports: 07/31/2008	Last EDR Contact: 07/01/2011
Number of Days to Update: 9	Next Scheduled EDR Contact: 10/17/2011
	Data Release Frequency: No Update Planned

## LUST REG 7: Leaking Underground Storage Tank Case Listing

Leaking Underground Storage Tank locations. Imperial, Riverside, San Diego, Santa Barbara counties.

Date of Government Version: 02/26/2004	Source: California Regional Water Quality Control Board Colorado River Basin Region (7)
Date Data Arrived at EDR: 02/26/2004	Telephone: 760-776-8943
Date Made Active in Reports: 03/24/2004	Last EDR Contact: 08/01/2011
Number of Days to Update: 27	Next Scheduled EDR Contact: 11/14/2011
	Data Release Frequency: No Update Planned

## LUST REG 8: Leaking Underground Storage Tanks

California Regional Water Quality Control Board Santa Ana Region (8). For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/14/2005	Source: California Regional Water Quality Control Board Santa Ana Region (8)
Date Data Arrived at EDR: 02/15/2005	Telephone: 909-782-4496
Date Made Active in Reports: 03/28/2005	Last EDR Contact: 08/15/2011
Number of Days to Update: 41	Next Scheduled EDR Contact: 11/28/2011
	Data Release Frequency: No Update Planned

## LUST: Leaking Underground Fuel Tank Report (GEOTRACKER)

Leaking Underground Storage Tank (LUST) Sites included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 08/31/2022	Source: State Water Resources Control Board
Date Data Arrived at EDR: 08/31/2022	Telephone: see region list
Date Made Active in Reports: 11/17/2022	Last EDR Contact: 12/02/2022
Number of Days to Update: 78	Next Scheduled EDR Contact: 03/20/2023
	Data Release Frequency: Quarterly

## LUST REG 6V: Leaking Underground Storage Tank Case Listing

Leaking Underground Storage Tank locations. Inyo, Kern, Los Angeles, Mono, San Bernardino counties.

Date of Government Version: 06/07/2005	Source: California Regional Water Quality Control Board Victorville Branch Office (6)
Date Data Arrived at EDR: 06/07/2005	Telephone: 760-241-7365
Date Made Active in Reports: 06/29/2005	Last EDR Contact: 09/12/2011
Number of Days to Update: 22	Next Scheduled EDR Contact: 12/26/2011
	Data Release Frequency: No Update Planned

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## LUST REG 9: Leaking Underground Storage Tank Report

Orange, Riverside, San Diego counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 03/01/2001  
Date Data Arrived at EDR: 04/23/2001  
Date Made Active in Reports: 05/21/2001  
Number of Days to Update: 28

Source: California Regional Water Quality Control Board San Diego Region (9)  
Telephone: 858-637-5595  
Last EDR Contact: 09/26/2011  
Next Scheduled EDR Contact: 01/09/2012  
Data Release Frequency: No Update Planned

## LUST REG 3: Leaking Underground Storage Tank Database

Leaking Underground Storage Tank locations. Monterey, San Benito, San Luis Obispo, Santa Barbara, Santa Cruz counties.

Date of Government Version: 05/19/2003  
Date Data Arrived at EDR: 05/19/2003  
Date Made Active in Reports: 06/02/2003  
Number of Days to Update: 14

Source: California Regional Water Quality Control Board Central Coast Region (3)  
Telephone: 805-542-4786  
Last EDR Contact: 07/18/2011  
Next Scheduled EDR Contact: 10/31/2011  
Data Release Frequency: No Update Planned

## LUST REG 6L: Leaking Underground Storage Tank Case Listing

For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/09/2003  
Date Data Arrived at EDR: 09/10/2003  
Date Made Active in Reports: 10/07/2003  
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Lahontan Region (6)  
Telephone: 530-542-5572  
Last EDR Contact: 09/12/2011  
Next Scheduled EDR Contact: 12/26/2011  
Data Release Frequency: No Update Planned

## LUST REG 4: Underground Storage Tank Leak List

Los Angeles, Ventura counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/07/2004  
Date Data Arrived at EDR: 09/07/2004  
Date Made Active in Reports: 10/12/2004  
Number of Days to Update: 35

Source: California Regional Water Quality Control Board Los Angeles Region (4)  
Telephone: 213-576-6710  
Last EDR Contact: 09/06/2011  
Next Scheduled EDR Contact: 12/19/2011  
Data Release Frequency: No Update Planned

## LUST REG 2: Fuel Leak List

Leaking Underground Storage Tank locations. Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa Clara, Solano, Sonoma counties.

Date of Government Version: 09/30/2004  
Date Data Arrived at EDR: 10/20/2004  
Date Made Active in Reports: 11/19/2004  
Number of Days to Update: 30

Source: California Regional Water Quality Control Board San Francisco Bay Region (2)  
Telephone: 510-622-2433  
Last EDR Contact: 09/19/2011  
Next Scheduled EDR Contact: 01/02/2012  
Data Release Frequency: No Update Planned

## INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 04/28/2022  
Date Data Arrived at EDR: 06/13/2022  
Date Made Active in Reports: 08/16/2022  
Number of Days to Update: 64

Source: EPA Region 6  
Telephone: 214-665-6597  
Last EDR Contact: 01/17/2023  
Next Scheduled EDR Contact: 05/01/2023  
Data Release Frequency: Varies

## INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land

Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 04/11/2022  
Date Data Arrived at EDR: 06/13/2022  
Date Made Active in Reports: 08/16/2022  
Number of Days to Update: 64

Source: EPA, Region 5  
Telephone: 312-886-7439  
Last EDR Contact: 01/17/2023  
Next Scheduled EDR Contact: 05/01/2023  
Data Release Frequency: Varies

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land  
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 04/20/2022  
Date Data Arrived at EDR: 06/13/2022  
Date Made Active in Reports: 08/16/2022  
Number of Days to Update: 64

Source: EPA Region 10  
Telephone: 206-553-2857  
Last EDR Contact: 01/17/2023  
Next Scheduled EDR Contact: 05/01/2023  
Data Release Frequency: Varies

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land  
LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 04/08/2022  
Date Data Arrived at EDR: 06/13/2022  
Date Made Active in Reports: 08/16/2022  
Number of Days to Update: 64

Source: Environmental Protection Agency  
Telephone: 415-972-3372  
Last EDR Contact: 01/17/2023  
Next Scheduled EDR Contact: 05/01/2023  
Data Release Frequency: Varies

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land  
LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 04/20/2022  
Date Data Arrived at EDR: 06/13/2022  
Date Made Active in Reports: 08/16/2022  
Number of Days to Update: 64

Source: EPA Region 8  
Telephone: 303-312-6271  
Last EDR Contact: 01/17/2023  
Next Scheduled EDR Contact: 05/01/2023  
Data Release Frequency: Varies

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land  
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 04/28/2021  
Date Data Arrived at EDR: 06/11/2021  
Date Made Active in Reports: 09/07/2021  
Number of Days to Update: 88

Source: EPA Region 1  
Telephone: 617-918-1313  
Last EDR Contact: 01/17/2023  
Next Scheduled EDR Contact: 05/01/2023  
Data Release Frequency: Varies

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land  
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 04/14/2022  
Date Data Arrived at EDR: 06/13/2022  
Date Made Active in Reports: 08/16/2022  
Number of Days to Update: 64

Source: EPA Region 7  
Telephone: 913-551-7003  
Last EDR Contact: 01/17/2023  
Next Scheduled EDR Contact: 05/01/2023  
Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land  
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 06/02/2022  
Date Data Arrived at EDR: 06/13/2022  
Date Made Active in Reports: 08/31/2022  
Number of Days to Update: 79

Source: EPA Region 4  
Telephone: 404-562-8677  
Last EDR Contact: 01/17/2023  
Next Scheduled EDR Contact: 05/01/2023  
Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## CPS-SLIC: Statewide SLIC Cases (GEOTRACKER)

Cleanup Program Sites (CPS; also known as Site Cleanups [SC] and formerly known as Spills, Leaks, Investigations, and Cleanups [SLIC] sites) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 08/31/2022	Source: State Water Resources Control Board
Date Data Arrived at EDR: 08/31/2022	Telephone: 866-480-1028
Date Made Active in Reports: 11/17/2022	Last EDR Contact: 12/02/2022
Number of Days to Update: 78	Next Scheduled EDR Contact: 03/20/2023
	Data Release Frequency: Varies

## SLIC REG 1: Active Toxic Site Investigations

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2003	Source: California Regional Water Quality Control Board, North Coast Region (1)
Date Data Arrived at EDR: 04/07/2003	Telephone: 707-576-2220
Date Made Active in Reports: 04/25/2003	Last EDR Contact: 08/01/2011
Number of Days to Update: 18	Next Scheduled EDR Contact: 11/14/2011
	Data Release Frequency: No Update Planned

## SLIC REG 2: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/30/2004	Source: Regional Water Quality Control Board San Francisco Bay Region (2)
Date Data Arrived at EDR: 10/20/2004	Telephone: 510-286-0457
Date Made Active in Reports: 11/19/2004	Last EDR Contact: 09/19/2011
Number of Days to Update: 30	Next Scheduled EDR Contact: 01/02/2012
	Data Release Frequency: No Update Planned

## SLIC REG 3: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/18/2006	Source: California Regional Water Quality Control Board Central Coast Region (3)
Date Data Arrived at EDR: 05/18/2006	Telephone: 805-549-3147
Date Made Active in Reports: 06/15/2006	Last EDR Contact: 07/18/2011
Number of Days to Update: 28	Next Scheduled EDR Contact: 10/31/2011
	Data Release Frequency: No Update Planned

## SLIC REG 4: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/17/2004	Source: Region Water Quality Control Board Los Angeles Region (4)
Date Data Arrived at EDR: 11/18/2004	Telephone: 213-576-6600
Date Made Active in Reports: 01/04/2005	Last EDR Contact: 07/01/2011
Number of Days to Update: 47	Next Scheduled EDR Contact: 10/17/2011
	Data Release Frequency: No Update Planned

## SLIC REG 5: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/01/2005	Source: Regional Water Quality Control Board Central Valley Region (5)
Date Data Arrived at EDR: 04/05/2005	Telephone: 916-464-3291
Date Made Active in Reports: 04/21/2005	Last EDR Contact: 09/12/2011
Number of Days to Update: 16	Next Scheduled EDR Contact: 12/26/2011
	Data Release Frequency: No Update Planned

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## SLIC REG 6V: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/24/2005  
Date Data Arrived at EDR: 05/25/2005  
Date Made Active in Reports: 06/16/2005  
Number of Days to Update: 22

Source: Regional Water Quality Control Board, Victorville Branch  
Telephone: 619-241-6583  
Last EDR Contact: 08/15/2011  
Next Scheduled EDR Contact: 11/28/2011  
Data Release Frequency: No Update Planned

## SLIC REG 6L: SLIC Sites

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/07/2004  
Date Data Arrived at EDR: 09/07/2004  
Date Made Active in Reports: 10/12/2004  
Number of Days to Update: 35

Source: California Regional Water Quality Control Board, Lahontan Region  
Telephone: 530-542-5574  
Last EDR Contact: 08/15/2011  
Next Scheduled EDR Contact: 11/28/2011  
Data Release Frequency: No Update Planned

## SLIC REG 7: SLIC List

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/24/2004  
Date Data Arrived at EDR: 11/29/2004  
Date Made Active in Reports: 01/04/2005  
Number of Days to Update: 36

Source: California Regional Quality Control Board, Colorado River Basin Region  
Telephone: 760-346-7491  
Last EDR Contact: 08/01/2011  
Next Scheduled EDR Contact: 11/14/2011  
Data Release Frequency: No Update Planned

## SLIC REG 8: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2008  
Date Data Arrived at EDR: 04/03/2008  
Date Made Active in Reports: 04/14/2008  
Number of Days to Update: 11

Source: California Region Water Quality Control Board Santa Ana Region (8)  
Telephone: 951-782-3298  
Last EDR Contact: 09/12/2011  
Next Scheduled EDR Contact: 12/26/2011  
Data Release Frequency: No Update Planned

## SLIC REG 9: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/10/2007  
Date Data Arrived at EDR: 09/11/2007  
Date Made Active in Reports: 09/28/2007  
Number of Days to Update: 17

Source: California Regional Water Quality Control Board San Diego Region (9)  
Telephone: 858-467-2980  
Last EDR Contact: 08/08/2011  
Next Scheduled EDR Contact: 11/21/2011  
Data Release Frequency: No Update Planned

## ***Lists of state and tribal registered storage tanks***

### FEMA UST: Underground Storage Tank Listing

A listing of all FEMA owned underground storage tanks.

Date of Government Version: 10/14/2021  
Date Data Arrived at EDR: 11/05/2021  
Date Made Active in Reports: 02/01/2022  
Number of Days to Update: 88

Source: FEMA  
Telephone: 202-646-5797  
Last EDR Contact: 12/28/2022  
Next Scheduled EDR Contact: 04/17/2023  
Data Release Frequency: Varies



# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## UST CLOSURE: Proposed Closure of Underground Storage Tank (UST) Cases

UST cases that are being considered for closure by either the State Water Resources Control Board or the Executive Director have been posted for a 60-day public comment period. UST Case Closures being proposed for consideration by the State Water Resources Control Board. These are primarily UST cases that meet closure criteria under the decisional framework in State Water Board Resolution No. 92-49 and other Board orders. UST Case Closures proposed for consideration by the Executive Director pursuant to State Water Board Resolution No. 2012-0061. These are cases that meet the criteria of the Low-Threat UST Case Closure Policy. UST Case Closure Review Denials and Approved Orders.

Date of Government Version: 08/24/2022	Source: State Water Resources Control Board
Date Data Arrived at EDR: 08/31/2022	Telephone: 916-327-7844
Date Made Active in Reports: 11/21/2022	Last EDR Contact: 12/02/2022
Number of Days to Update: 82	Next Scheduled EDR Contact: 03/20/2023
	Data Release Frequency: Varies

## UST: Active UST Facilities

Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 08/31/2022	Source: SWRCB
Date Data Arrived at EDR: 08/31/2022	Telephone: 916-341-5851
Date Made Active in Reports: 11/28/2022	Last EDR Contact: 12/02/2022
Number of Days to Update: 89	Next Scheduled EDR Contact: 03/20/2023
	Data Release Frequency: Semi-Annually

## MILITARY UST SITES: Military UST Sites (GEOTRACKER)

Military ust sites

Date of Government Version: 08/31/2022	Source: State Water Resources Control Board
Date Data Arrived at EDR: 08/31/2022	Telephone: 866-480-1028
Date Made Active in Reports: 11/17/2022	Last EDR Contact: 12/02/2022
Number of Days to Update: 78	Next Scheduled EDR Contact: 03/20/2023
	Data Release Frequency: Varies

## AST: Aboveground Petroleum Storage Tank Facilities

A listing of aboveground storage tank petroleum storage tank locations.

Date of Government Version: 07/06/2016	Source: California Environmental Protection Agency
Date Data Arrived at EDR: 07/12/2016	Telephone: 916-327-5092
Date Made Active in Reports: 09/19/2016	Last EDR Contact: 12/06/2022
Number of Days to Update: 69	Next Scheduled EDR Contact: 03/27/2023
	Data Release Frequency: Varies

## INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 04/14/2022	Source: EPA Region 7
Date Data Arrived at EDR: 06/13/2022	Telephone: 913-551-7003
Date Made Active in Reports: 08/16/2022	Last EDR Contact: 01/17/2023
Number of Days to Update: 64	Next Scheduled EDR Contact: 05/01/2023
	Data Release Frequency: Varies

## INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 04/20/2022	Source: EPA Region 10
Date Data Arrived at EDR: 06/13/2022	Telephone: 206-553-2857
Date Made Active in Reports: 08/16/2022	Last EDR Contact: 01/17/2023
Number of Days to Update: 64	Next Scheduled EDR Contact: 05/01/2023
	Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 04/07/2022	Source: EPA, Region 1
Date Data Arrived at EDR: 06/13/2022	Telephone: 617-918-1313
Date Made Active in Reports: 08/16/2022	Last EDR Contact: 01/17/2023
Number of Days to Update: 64	Next Scheduled EDR Contact: 05/01/2023
	Data Release Frequency: Varies

## INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 04/20/2022	Source: EPA Region 8
Date Data Arrived at EDR: 06/13/2022	Telephone: 303-312-6137
Date Made Active in Reports: 08/16/2022	Last EDR Contact: 01/17/2023
Number of Days to Update: 64	Next Scheduled EDR Contact: 05/01/2023
	Data Release Frequency: Varies

## INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 06/02/2022	Source: EPA Region 4
Date Data Arrived at EDR: 06/13/2022	Telephone: 404-562-9424
Date Made Active in Reports: 08/31/2022	Last EDR Contact: 01/17/2023
Number of Days to Update: 79	Next Scheduled EDR Contact: 05/01/2023
	Data Release Frequency: Varies

## INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 04/08/2022	Source: EPA Region 9
Date Data Arrived at EDR: 06/13/2022	Telephone: 415-972-3368
Date Made Active in Reports: 08/16/2022	Last EDR Contact: 01/17/2023
Number of Days to Update: 64	Next Scheduled EDR Contact: 05/01/2023
	Data Release Frequency: Varies

## INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 04/11/2022	Source: EPA Region 5
Date Data Arrived at EDR: 06/13/2022	Telephone: 312-886-6136
Date Made Active in Reports: 08/16/2022	Last EDR Contact: 01/17/2023
Number of Days to Update: 64	Next Scheduled EDR Contact: 05/01/2023
	Data Release Frequency: Varies

## INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 04/28/2022	Source: EPA Region 6
Date Data Arrived at EDR: 06/13/2022	Telephone: 214-665-7591
Date Made Active in Reports: 08/16/2022	Last EDR Contact: 01/17/2023
Number of Days to Update: 64	Next Scheduled EDR Contact: 05/01/2023
	Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## ***Lists of state and tribal voluntary cleanup sites***

### **INDIAN VCP R7: Voluntary Cleanup Priority Listing**

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008	Source: EPA, Region 7
Date Data Arrived at EDR: 04/22/2008	Telephone: 913-551-7365
Date Made Active in Reports: 05/19/2008	Last EDR Contact: 07/08/2021
Number of Days to Update: 27	Next Scheduled EDR Contact: 07/20/2009
	Data Release Frequency: Varies

### **VCP: Voluntary Cleanup Program Properties**

Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

Date of Government Version: 10/24/2022	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 10/24/2022	Telephone: 916-323-3400
Date Made Active in Reports: 01/12/2023	Last EDR Contact: 10/24/2022
Number of Days to Update: 80	Next Scheduled EDR Contact: 02/06/2023
	Data Release Frequency: Quarterly

### **INDIAN VCP R1: Voluntary Cleanup Priority Listing**

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015	Source: EPA, Region 1
Date Data Arrived at EDR: 09/29/2015	Telephone: 617-918-1102
Date Made Active in Reports: 02/18/2016	Last EDR Contact: 12/13/2022
Number of Days to Update: 142	Next Scheduled EDR Contact: 04/03/2023
	Data Release Frequency: Varies

## ***Lists of state and tribal brownfield sites***

### **BROWNFIELDS: Considered Brownfields Sites Listing**

A listing of sites the SWRCB considers to be Brownfields since these are sites have come to them through the MOA Process.

Date of Government Version: 09/19/2022	Source: State Water Resources Control Board
Date Data Arrived at EDR: 09/19/2022	Telephone: 916-323-7905
Date Made Active in Reports: 12/07/2022	Last EDR Contact: 12/14/2022
Number of Days to Update: 79	Next Scheduled EDR Contact: 04/03/2023
	Data Release Frequency: Quarterly

## **ADDITIONAL ENVIRONMENTAL RECORDS**

### ***Local Brownfield lists***

#### **US BROWNFIELDS: A Listing of Brownfields Sites**

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 02/23/2022	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/10/2022	Telephone: 202-566-2777
Date Made Active in Reports: 03/10/2022	Last EDR Contact: 12/07/2022
Number of Days to Update: 0	Next Scheduled EDR Contact: 03/27/2023
	Data Release Frequency: Semi-Annually

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## Local Lists of Landfill / Solid Waste Disposal Sites

### WMUDS/SWAT: Waste Management Unit Database

Waste Management Unit Database System. WMUDS is used by the State Water Resources Control Board staff and the Regional Water Quality Control Boards for program tracking and inventory of waste management units. WMUDS is composed of the following databases: Facility Information, Scheduled Inspections Information, Waste Management Unit Information, SWAT Program Information, SWAT Report Summary Information, SWAT Report Summary Data, Chapter 15 (formerly Subchapter 15) Information, Chapter 15 Monitoring Parameters, TPCA Program Information, RCRA Program Information, Closure Information, and Interested Parties Information.

Date of Government Version: 04/01/2000	Source: State Water Resources Control Board
Date Data Arrived at EDR: 04/10/2000	Telephone: 916-227-4448
Date Made Active in Reports: 05/10/2000	Last EDR Contact: 10/20/2022
Number of Days to Update: 30	Next Scheduled EDR Contact: 02/06/2023
	Data Release Frequency: No Update Planned

### SWRCY: Recycler Database

A listing of recycling facilities in California.

Date of Government Version: 08/31/2022	Source: Department of Conservation
Date Data Arrived at EDR: 08/31/2022	Telephone: 916-323-3836
Date Made Active in Reports: 11/18/2022	Last EDR Contact: 12/02/2022
Number of Days to Update: 79	Next Scheduled EDR Contact: 03/20/2023
	Data Release Frequency: Quarterly

### HAULERS: Registered Waste Tire Haulers Listing

A listing of registered waste tire haulers.

Date of Government Version: 08/12/2022	Source: Integrated Waste Management Board
Date Data Arrived at EDR: 08/16/2022	Telephone: 916-341-6422
Date Made Active in Reports: 08/26/2022	Last EDR Contact: 11/15/2022
Number of Days to Update: 10	Next Scheduled EDR Contact: 02/20/2023
	Data Release Frequency: Varies

### INDIAN ODI: Report on the Status of Open Dumps on Indian Lands

Location of open dumps on Indian land.

Date of Government Version: 12/31/1998	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/03/2007	Telephone: 703-308-8245
Date Made Active in Reports: 01/24/2008	Last EDR Contact: 10/20/2022
Number of Days to Update: 52	Next Scheduled EDR Contact: 02/06/2023
	Data Release Frequency: Varies

### ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985	Source: Environmental Protection Agency
Date Data Arrived at EDR: 08/09/2004	Telephone: 800-424-9346
Date Made Active in Reports: 09/17/2004	Last EDR Contact: 06/09/2004
Number of Days to Update: 39	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

### DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009	Source: EPA, Region 9
Date Data Arrived at EDR: 05/07/2009	Telephone: 415-947-4219
Date Made Active in Reports: 09/21/2009	Last EDR Contact: 01/13/2023
Number of Days to Update: 137	Next Scheduled EDR Contact: 05/01/2023
	Data Release Frequency: No Update Planned

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## IHS OPEN DUMPS: Open Dumps on Indian Land

A listing of all open dumps located on Indian Land in the United States.

Date of Government Version: 04/01/2014  
Date Data Arrived at EDR: 08/06/2014  
Date Made Active in Reports: 01/29/2015  
Number of Days to Update: 176

Source: Department of Health & Human Services, Indian Health Service  
Telephone: 301-443-1452  
Last EDR Contact: 10/28/2022  
Next Scheduled EDR Contact: 02/06/2023  
Data Release Frequency: Varies

## Local Lists of Hazardous waste / Contaminated Sites

### US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations that have been removed from the DEAs National Clandestine Laboratory Register.

Date of Government Version: 07/29/2022  
Date Data Arrived at EDR: 08/18/2022  
Date Made Active in Reports: 10/24/2022  
Number of Days to Update: 67

Source: Drug Enforcement Administration  
Telephone: 202-307-1000  
Last EDR Contact: 11/16/2022  
Next Scheduled EDR Contact: 03/06/2023  
Data Release Frequency: No Update Planned

### HIST CAL-SITES: Calsites Database

The Calsites database contains potential or confirmed hazardous substance release properties. In 1996, California EPA reevaluated and significantly reduced the number of sites in the Calsites database. No longer updated by the state agency. It has been replaced by ENVIROSTOR.

Date of Government Version: 08/08/2005  
Date Data Arrived at EDR: 08/03/2006  
Date Made Active in Reports: 08/24/2006  
Number of Days to Update: 21

Source: Department of Toxic Substance Control  
Telephone: 916-323-3400  
Last EDR Contact: 02/23/2009  
Next Scheduled EDR Contact: 05/25/2009  
Data Release Frequency: No Update Planned

### SCH: School Property Evaluation Program

This category contains proposed and existing school sites that are being evaluated by DTSC for possible hazardous materials contamination. In some cases, these properties may be listed in the CalSites category depending on the level of threat to public health and safety or the environment they pose.

Date of Government Version: 10/24/2022  
Date Data Arrived at EDR: 10/24/2022  
Date Made Active in Reports: 01/12/2023  
Number of Days to Update: 80

Source: Department of Toxic Substances Control  
Telephone: 916-323-3400  
Last EDR Contact: 10/24/2022  
Next Scheduled EDR Contact: 02/06/2023  
Data Release Frequency: Quarterly

### CDL: Clandestine Drug Labs

A listing of drug lab locations. Listing of a location in this database does not indicate that any illegal drug lab materials were or were not present there, and does not constitute a determination that the location either requires or does not require additional cleanup work.

Date of Government Version: 12/31/2019  
Date Data Arrived at EDR: 01/20/2021  
Date Made Active in Reports: 04/08/2021  
Number of Days to Update: 78

Source: Department of Toxic Substances Control  
Telephone: 916-255-6504  
Last EDR Contact: 11/23/2022  
Next Scheduled EDR Contact: 02/13/2023  
Data Release Frequency: Varies

### CERS HAZ WASTE: CERS HAZ WASTE

List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Hazardous Chemical Management, Hazardous Waste Onsite Treatment, Household Hazardous Waste Collection, Hazardous Waste Generator, and RCRA LQ HW Generator programs.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 01/05/2023  
Date Data Arrived at EDR: 01/06/2023  
Date Made Active in Reports: 01/11/2023  
Number of Days to Update: 5

Source: CalEPA  
Telephone: 916-323-2514  
Last EDR Contact: 01/06/2023  
Next Scheduled EDR Contact: 05/01/2023  
Data Release Frequency: Quarterly

## TOXIC PITS: Toxic Pits Cleanup Act Sites

Toxic PITS Cleanup Act Sites. TOXIC PITS identifies sites suspected of containing hazardous substances where cleanup has not yet been completed.

Date of Government Version: 07/01/1995  
Date Data Arrived at EDR: 08/30/1995  
Date Made Active in Reports: 09/26/1995  
Number of Days to Update: 27

Source: State Water Resources Control Board  
Telephone: 916-227-4364  
Last EDR Contact: 01/26/2009  
Next Scheduled EDR Contact: 04/27/2009  
Data Release Frequency: No Update Planned

## US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 07/29/2022  
Date Data Arrived at EDR: 08/18/2022  
Date Made Active in Reports: 10/24/2022  
Number of Days to Update: 67

Source: Drug Enforcement Administration  
Telephone: 202-307-1000  
Last EDR Contact: 11/16/2022  
Next Scheduled EDR Contact: 03/06/2023  
Data Release Frequency: Quarterly

## Local Lists of Registered Storage Tanks

### SWEEPS UST: SWEEPS UST Listing

Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

Date of Government Version: 06/01/1994  
Date Data Arrived at EDR: 07/07/2005  
Date Made Active in Reports: 08/11/2005  
Number of Days to Update: 35

Source: State Water Resources Control Board  
Telephone: N/A  
Last EDR Contact: 06/03/2005  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: No Update Planned

### HIST UST: Hazardous Substance Storage Container Database

The Hazardous Substance Storage Container Database is a historical listing of UST sites. Refer to local/county source for current data.

Date of Government Version: 10/15/1990  
Date Data Arrived at EDR: 01/25/1991  
Date Made Active in Reports: 02/12/1991  
Number of Days to Update: 18

Source: State Water Resources Control Board  
Telephone: 916-341-5851  
Last EDR Contact: 07/26/2001  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: No Update Planned

### SAN FRANCISCO AST: Aboveground Storage Tank Site Listing

Aboveground storage tank sites

Date of Government Version: 08/04/2022  
Date Data Arrived at EDR: 08/04/2022  
Date Made Active in Reports: 10/20/2022  
Number of Days to Update: 77

Source: San Francisco County Department of Public Health  
Telephone: 415-252-3896  
Last EDR Contact: 10/26/2022  
Next Scheduled EDR Contact: 02/16/2023  
Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## CA FID UST: Facility Inventory Database

The Facility Inventory Database (FID) contains a historical listing of active and inactive underground storage tank locations from the State Water Resource Control Board. Refer to local/county source for current data.

Date of Government Version: 10/31/1994	Source: California Environmental Protection Agency
Date Data Arrived at EDR: 09/05/1995	Telephone: 916-341-5851
Date Made Active in Reports: 09/29/1995	Last EDR Contact: 12/28/1998
Number of Days to Update: 24	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

## CERS TANKS: California Environmental Reporting System (CERS) Tanks

List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Aboveground Petroleum Storage and Underground Storage Tank regulatory programs.

Date of Government Version: 01/06/2023	Source: California Environmental Protection Agency
Date Data Arrived at EDR: 01/06/2023	Telephone: 916-323-2514
Date Made Active in Reports: 01/11/2023	Last EDR Contact: 10/17/2022
Number of Days to Update: 5	Next Scheduled EDR Contact: 05/01/2023
	Data Release Frequency: Quarterly

## Local Land Records

### LIENS: Environmental Liens Listing

A listing of property locations with environmental liens for California where DTSC is a lien holder.

Date of Government Version: 08/23/2022	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 08/24/2022	Telephone: 916-323-3400
Date Made Active in Reports: 11/14/2022	Last EDR Contact: 01/05/2023
Number of Days to Update: 82	Next Scheduled EDR Contact: 03/13/2023
	Data Release Frequency: Varies

### LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 10/27/2022	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/01/2022	Telephone: 202-564-6023
Date Made Active in Reports: 11/15/2022	Last EDR Contact: 01/03/2023
Number of Days to Update: 14	Next Scheduled EDR Contact: 04/10/2023
	Data Release Frequency: Semi-Annually

### DEED: Deed Restriction Listing

Site Mitigation and Brownfields Reuse Program Facility Sites with Deed Restrictions & Hazardous Waste Management Program Facility Sites with Deed / Land Use Restriction. The DTSC Site Mitigation and Brownfields Reuse Program (SMBRP) list includes sites cleaned up under the program's oversight and generally does not include current or former hazardous waste facilities that required a hazardous waste facility permit. The list represents deed restrictions that are active. Some sites have multiple deed restrictions. The DTSC Hazardous Waste Management Program (HWMP) has developed a list of current or former hazardous waste facilities that have a recorded land use restriction at the local county recorder's office. The land use restrictions on this list were required by the DTSC HWMP as a result of the presence of hazardous substances that remain on site after the facility (or part of the facility) has been closed or cleaned up. The types of land use restriction include deed notice, deed restriction, or a land use restriction that binds current and future owners.

Date of Government Version: 08/25/2022	Source: DTSC and SWRCB
Date Data Arrived at EDR: 08/25/2022	Telephone: 916-323-3400
Date Made Active in Reports: 11/14/2022	Last EDR Contact: 11/29/2022
Number of Days to Update: 81	Next Scheduled EDR Contact: 03/13/2023
	Data Release Frequency: Semi-Annually

## Records of Emergency Release Reports

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 09/19/2022	Source: U.S. Department of Transportation
Date Data Arrived at EDR: 09/19/2022	Telephone: 202-366-4555
Date Made Active in Reports: 09/30/2022	Last EDR Contact: 12/14/2022
Number of Days to Update: 11	Next Scheduled EDR Contact: 04/03/2023
	Data Release Frequency: Quarterly

## CHMIRS: California Hazardous Material Incident Report System

California Hazardous Material Incident Reporting System. CHMIRS contains information on reported hazardous material incidents (accidental releases or spills).

Date of Government Version: 08/02/2022	Source: Office of Emergency Services
Date Data Arrived at EDR: 10/17/2022	Telephone: 916-845-8400
Date Made Active in Reports: 01/04/2023	Last EDR Contact: 10/17/2022
Number of Days to Update: 79	Next Scheduled EDR Contact: 01/30/2023
	Data Release Frequency: Semi-Annually

## LDS: Land Disposal Sites Listing (GEOTRACKER)

Land Disposal sites (Landfills) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 08/31/2022	Source: State Water Quality Control Board
Date Data Arrived at EDR: 08/31/2022	Telephone: 866-480-1028
Date Made Active in Reports: 11/17/2022	Last EDR Contact: 12/02/2022
Number of Days to Update: 78	Next Scheduled EDR Contact: 03/20/2023
	Data Release Frequency: Quarterly

## MCS: Military Cleanup Sites Listing (GEOTRACKER)

Military sites (consisting of: Military UST sites; Military Privatized sites; and Military Cleanup sites [formerly known as DoD non UST]) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 08/31/2022	Source: State Water Resources Control Board
Date Data Arrived at EDR: 08/31/2022	Telephone: 866-480-1028
Date Made Active in Reports: 11/17/2022	Last EDR Contact: 12/02/2022
Number of Days to Update: 78	Next Scheduled EDR Contact: 03/20/2023
	Data Release Frequency: Quarterly

## SPILLS 90: SPILLS90 data from FirstSearch

Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 06/06/2012	Source: FirstSearch
Date Data Arrived at EDR: 01/03/2013	Telephone: N/A
Date Made Active in Reports: 02/22/2013	Last EDR Contact: 01/03/2013
Number of Days to Update: 50	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

## **Other Ascertainable Records**

### RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.



# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 11/21/2022  
Date Data Arrived at EDR: 11/21/2022  
Date Made Active in Reports: 12/05/2022  
Number of Days to Update: 14

Source: Environmental Protection Agency  
Telephone: (415) 495-8895  
Last EDR Contact: 12/21/2022  
Next Scheduled EDR Contact: 04/03/2023  
Data Release Frequency: Quarterly

## FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 08/11/2022  
Date Data Arrived at EDR: 08/11/2022  
Date Made Active in Reports: 09/30/2022  
Number of Days to Update: 50

Source: U.S. Army Corps of Engineers  
Telephone: 202-528-4285  
Last EDR Contact: 11/10/2022  
Next Scheduled EDR Contact: 02/27/2023  
Data Release Frequency: Varies

## DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 06/07/2021  
Date Data Arrived at EDR: 07/13/2021  
Date Made Active in Reports: 03/09/2022  
Number of Days to Update: 239

Source: USGS  
Telephone: 888-275-8747  
Last EDR Contact: 01/13/2023  
Next Scheduled EDR Contact: 04/24/2023  
Data Release Frequency: Varies

## FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 04/02/2018  
Date Data Arrived at EDR: 04/11/2018  
Date Made Active in Reports: 11/06/2019  
Number of Days to Update: 574

Source: U.S. Geological Survey  
Telephone: 888-275-8747  
Last EDR Contact: 01/03/2023  
Next Scheduled EDR Contact: 04/17/2023  
Data Release Frequency: N/A

## SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 01/01/2017  
Date Data Arrived at EDR: 02/03/2017  
Date Made Active in Reports: 04/07/2017  
Number of Days to Update: 63

Source: Environmental Protection Agency  
Telephone: 615-532-8599  
Last EDR Contact: 11/03/2022  
Next Scheduled EDR Contact: 02/20/2023  
Data Release Frequency: Varies

## US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 09/19/2022  
Date Data Arrived at EDR: 09/20/2022  
Date Made Active in Reports: 12/22/2022  
Number of Days to Update: 93

Source: Environmental Protection Agency  
Telephone: 202-566-1917  
Last EDR Contact: 12/14/2022  
Next Scheduled EDR Contact: 04/03/2023  
Data Release Frequency: Quarterly

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/21/2014	Telephone: 617-520-3000
Date Made Active in Reports: 06/17/2014	Last EDR Contact: 10/28/2022
Number of Days to Update: 88	Next Scheduled EDR Contact: 02/16/2023
	Data Release Frequency: Quarterly

### 2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 09/30/2017	Source: Environmental Protection Agency
Date Data Arrived at EDR: 05/08/2018	Telephone: 703-308-4044
Date Made Active in Reports: 07/20/2018	Last EDR Contact: 10/28/2022
Number of Days to Update: 73	Next Scheduled EDR Contact: 02/16/2023
	Data Release Frequency: Varies

### TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2016	Source: EPA
Date Data Arrived at EDR: 06/17/2020	Telephone: 202-260-5521
Date Made Active in Reports: 09/10/2020	Last EDR Contact: 12/12/2022
Number of Days to Update: 85	Next Scheduled EDR Contact: 03/27/2023
	Data Release Frequency: Every 4 Years

### TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2018	Source: EPA
Date Data Arrived at EDR: 08/14/2020	Telephone: 202-566-0250
Date Made Active in Reports: 11/04/2020	Last EDR Contact: 11/01/2022
Number of Days to Update: 82	Next Scheduled EDR Contact: 02/27/2023
	Data Release Frequency: Annually

### SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 10/17/2022	Source: EPA
Date Data Arrived at EDR: 10/18/2022	Telephone: 202-564-4203
Date Made Active in Reports: 01/10/2023	Last EDR Contact: 10/18/2022
Number of Days to Update: 84	Next Scheduled EDR Contact: 01/30/2023
	Data Release Frequency: Annually

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 10/27/2022	Source: EPA
Date Data Arrived at EDR: 11/01/2022	Telephone: 703-416-0223
Date Made Active in Reports: 11/15/2022	Last EDR Contact: 01/03/2023
Number of Days to Update: 14	Next Scheduled EDR Contact: 03/13/2023
	Data Release Frequency: Annually

## RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 04/27/2022	Source: Environmental Protection Agency
Date Data Arrived at EDR: 05/04/2022	Telephone: 202-564-8600
Date Made Active in Reports: 05/10/2022	Last EDR Contact: 01/17/2023
Number of Days to Update: 6	Next Scheduled EDR Contact: 05/01/2023
	Data Release Frequency: Varies

## RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995	Source: EPA
Date Data Arrived at EDR: 07/03/1995	Telephone: 202-564-4104
Date Made Active in Reports: 08/07/1995	Last EDR Contact: 06/02/2008
Number of Days to Update: 35	Next Scheduled EDR Contact: 09/01/2008
	Data Release Frequency: No Update Planned

## PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 10/27/2022	Source: EPA
Date Data Arrived at EDR: 11/01/2022	Telephone: 202-564-6023
Date Made Active in Reports: 11/15/2022	Last EDR Contact: 01/03/2023
Number of Days to Update: 14	Next Scheduled EDR Contact: 02/16/2023
	Data Release Frequency: Quarterly

## PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 01/20/2022	Source: EPA
Date Data Arrived at EDR: 01/20/2022	Telephone: 202-566-0500
Date Made Active in Reports: 03/25/2022	Last EDR Contact: 01/04/2023
Number of Days to Update: 64	Next Scheduled EDR Contact: 04/17/2023
	Data Release Frequency: Annually

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 11/18/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/23/2016	Telephone: 202-564-2501
Date Made Active in Reports: 02/10/2017	Last EDR Contact: 12/28/2022
Number of Days to Update: 79	Next Scheduled EDR Contact: 04/17/2023
	Data Release Frequency: Quarterly

**FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)**  
FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009	Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Date Data Arrived at EDR: 04/16/2009	Telephone: 202-566-1667
Date Made Active in Reports: 05/11/2009	Last EDR Contact: 08/18/2017
Number of Days to Update: 25	Next Scheduled EDR Contact: 12/04/2017
	Data Release Frequency: No Update Planned

**FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)**  
A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009	Source: EPA
Date Data Arrived at EDR: 04/16/2009	Telephone: 202-566-1667
Date Made Active in Reports: 05/11/2009	Last EDR Contact: 08/18/2017
Number of Days to Update: 25	Next Scheduled EDR Contact: 12/04/2017
	Data Release Frequency: No Update Planned

## MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 10/26/2022	Source: Nuclear Regulatory Commission
Date Data Arrived at EDR: 11/22/2022	Telephone: 301-415-7169
Date Made Active in Reports: 12/05/2022	Last EDR Contact: 01/17/2023
Number of Days to Update: 13	Next Scheduled EDR Contact: 05/01/2023
	Data Release Frequency: Quarterly

## COAL ASH DOE: Steam-Electric Plant Operation Data

A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2020	Source: Department of Energy
Date Data Arrived at EDR: 11/30/2021	Telephone: 202-586-8719
Date Made Active in Reports: 02/22/2022	Last EDR Contact: 11/29/2022
Number of Days to Update: 84	Next Scheduled EDR Contact: 03/13/2023
	Data Release Frequency: Varies

## COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 01/12/2017	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/05/2019	Telephone: N/A
Date Made Active in Reports: 11/11/2019	Last EDR Contact: 11/23/2022
Number of Days to Update: 251	Next Scheduled EDR Contact: 03/13/2023
	Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## PCB TRANSFORMER: PCB Transformer Registration Database

The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 09/13/2019	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/06/2019	Telephone: 202-566-0517
Date Made Active in Reports: 02/10/2020	Last EDR Contact: 11/03/2022
Number of Days to Update: 96	Next Scheduled EDR Contact: 02/13/2023
	Data Release Frequency: Varies

## RADINFO: Radiation Information Database

The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 07/01/2019	Source: Environmental Protection Agency
Date Data Arrived at EDR: 07/01/2019	Telephone: 202-343-9775
Date Made Active in Reports: 09/23/2019	Last EDR Contact: 12/20/2022
Number of Days to Update: 84	Next Scheduled EDR Contact: 04/10/2023
	Data Release Frequency: Quarterly

## HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/01/2007	Telephone: 202-564-2501
Date Made Active in Reports: 04/10/2007	Last EDR Contact: 12/17/2007
Number of Days to Update: 40	Next Scheduled EDR Contact: 03/17/2008
	Data Release Frequency: No Update Planned

## HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing

A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/01/2007	Telephone: 202-564-2501
Date Made Active in Reports: 04/10/2007	Last EDR Contact: 12/17/2008
Number of Days to Update: 40	Next Scheduled EDR Contact: 03/17/2008
	Data Release Frequency: No Update Planned

## DOT OPS: Incident and Accident Data

Department of Transportation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 01/02/2020	Source: Department of Transportation, Office of Pipeline Safety
Date Data Arrived at EDR: 01/28/2020	Telephone: 202-366-4595
Date Made Active in Reports: 04/17/2020	Last EDR Contact: 10/24/2022
Number of Days to Update: 80	Next Scheduled EDR Contact: 02/06/2023
	Data Release Frequency: Quarterly

## CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 09/30/2022  
Date Data Arrived at EDR: 10/21/2022  
Date Made Active in Reports: 01/10/2023  
Number of Days to Update: 81

Source: Department of Justice, Consent Decree Library  
Telephone: Varies  
Last EDR Contact: 01/03/2023  
Next Scheduled EDR Contact: 04/17/2023  
Data Release Frequency: Varies

## BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2019  
Date Data Arrived at EDR: 03/02/2022  
Date Made Active in Reports: 03/25/2022  
Number of Days to Update: 23

Source: EPA/NTIS  
Telephone: 800-424-9346  
Last EDR Contact: 12/21/2022  
Next Scheduled EDR Contact: 04/03/2023  
Data Release Frequency: Biennially

## INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2014  
Date Data Arrived at EDR: 07/14/2015  
Date Made Active in Reports: 01/10/2017  
Number of Days to Update: 546

Source: USGS  
Telephone: 202-208-3710  
Last EDR Contact: 01/06/2023  
Next Scheduled EDR Contact: 04/17/2023  
Data Release Frequency: Semi-Annually

## FUSRAP: Formerly Utilized Sites Remedial Action Program

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 07/26/2021  
Date Data Arrived at EDR: 07/27/2021  
Date Made Active in Reports: 10/22/2021  
Number of Days to Update: 87

Source: Department of Energy  
Telephone: 202-586-3559  
Last EDR Contact: 10/27/2022  
Next Scheduled EDR Contact: 02/16/2023  
Data Release Frequency: Varies

## UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 08/30/2019  
Date Data Arrived at EDR: 11/15/2019  
Date Made Active in Reports: 01/28/2020  
Number of Days to Update: 74

Source: Department of Energy  
Telephone: 505-845-0011  
Last EDR Contact: 11/09/2022  
Next Scheduled EDR Contact: 02/27/2023  
Data Release Frequency: Varies

## LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 10/27/2022  
Date Data Arrived at EDR: 11/01/2022  
Date Made Active in Reports: 11/15/2022  
Number of Days to Update: 14

Source: Environmental Protection Agency  
Telephone: 703-603-8787  
Last EDR Contact: 01/03/2023  
Next Scheduled EDR Contact: 04/10/2023  
Data Release Frequency: Varies

## LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931 and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 04/05/2001  
Date Data Arrived at EDR: 10/27/2010  
Date Made Active in Reports: 12/02/2010  
Number of Days to Update: 36

Source: American Journal of Public Health  
Telephone: 703-305-6451  
Last EDR Contact: 12/02/2009  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: No Update Planned

## US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 10/12/2016  
Date Data Arrived at EDR: 10/26/2016  
Date Made Active in Reports: 02/03/2017  
Number of Days to Update: 100

Source: EPA  
Telephone: 202-564-2496  
Last EDR Contact: 09/26/2017  
Next Scheduled EDR Contact: 01/08/2018  
Data Release Frequency: Annually

## US AIRS MINOR: Air Facility System Data

A listing of minor source facilities.

Date of Government Version: 10/12/2016  
Date Data Arrived at EDR: 10/26/2016  
Date Made Active in Reports: 02/03/2017  
Number of Days to Update: 100

Source: EPA  
Telephone: 202-564-2496  
Last EDR Contact: 09/26/2017  
Next Scheduled EDR Contact: 01/08/2018  
Data Release Frequency: Annually

## MINES VIOLATIONS: MSHA Violation Assessment Data

Mines violation and assessment information. Department of Labor, Mine Safety & Health Administration.

Date of Government Version: 11/29/2022  
Date Data Arrived at EDR: 11/30/2022  
Date Made Active in Reports: 12/22/2022  
Number of Days to Update: 22

Source: DOL, Mine Safety & Health Admi  
Telephone: 202-693-9424  
Last EDR Contact: 01/03/2023  
Next Scheduled EDR Contact: 03/13/2023  
Data Release Frequency: Quarterly

## US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 08/03/2022  
Date Data Arrived at EDR: 08/17/2022  
Date Made Active in Reports: 08/31/2022  
Number of Days to Update: 14

Source: Department of Labor, Mine Safety and Health Administration  
Telephone: 303-231-5959  
Last EDR Contact: 11/17/2022  
Next Scheduled EDR Contact: 03/06/2023  
Data Release Frequency: Semi-Annually

## US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing

This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 05/06/2020  
Date Data Arrived at EDR: 05/27/2020  
Date Made Active in Reports: 08/13/2020  
Number of Days to Update: 78

Source: USGS  
Telephone: 703-648-7709  
Last EDR Contact: 11/21/2022  
Next Scheduled EDR Contact: 03/06/2023  
Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## US MINES 3: Active Mines & Mineral Plants Database Listing

Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011	Source: USGS
Date Data Arrived at EDR: 06/08/2011	Telephone: 703-648-7709
Date Made Active in Reports: 09/13/2011	Last EDR Contact: 11/21/2022
Number of Days to Update: 97	Next Scheduled EDR Contact: 03/06/2023
	Data Release Frequency: Varies

## ABANDONED MINES: Abandoned Mines

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

Date of Government Version: 09/13/2022	Source: Department of Interior
Date Data Arrived at EDR: 09/14/2022	Telephone: 202-208-2609
Date Made Active in Reports: 12/05/2022	Last EDR Contact: 12/13/2022
Number of Days to Update: 82	Next Scheduled EDR Contact: 03/20/2023
	Data Release Frequency: Quarterly

## FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 08/03/2022	Source: EPA
Date Data Arrived at EDR: 08/25/2022	Telephone: (415) 947-8000
Date Made Active in Reports: 10/24/2022	Last EDR Contact: 11/29/2022
Number of Days to Update: 60	Next Scheduled EDR Contact: 03/13/2023
	Data Release Frequency: Quarterly

## UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 11/09/2021	Source: Department of Defense
Date Data Arrived at EDR: 10/20/2022	Telephone: 703-704-1564
Date Made Active in Reports: 01/10/2023	Last EDR Contact: 01/09/2023
Number of Days to Update: 82	Next Scheduled EDR Contact: 04/24/2023
	Data Release Frequency: Varies

## ECHO: Enforcement & Compliance History Information

ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 09/25/2022	Source: Environmental Protection Agency
Date Data Arrived at EDR: 09/30/2022	Telephone: 202-564-2280
Date Made Active in Reports: 12/22/2022	Last EDR Contact: 01/04/2023
Number of Days to Update: 83	Next Scheduled EDR Contact: 04/17/2023
	Data Release Frequency: Quarterly

## DOCKET HWC: Hazardous Waste Compliance Docket Listing

A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.



# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 05/06/2021  
Date Data Arrived at EDR: 05/21/2021  
Date Made Active in Reports: 08/11/2021  
Number of Days to Update: 82

Source: Environmental Protection Agency  
Telephone: 202-564-0527  
Last EDR Contact: 11/15/2022  
Next Scheduled EDR Contact: 03/06/2023  
Data Release Frequency: Varies

## FUELS PROGRAM: EPA Fuels Program Registered Listing

This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 08/11/2022  
Date Data Arrived at EDR: 08/11/2022  
Date Made Active in Reports: 09/30/2022  
Number of Days to Update: 50

Source: EPA  
Telephone: 800-385-6164  
Last EDR Contact: 11/10/2022  
Next Scheduled EDR Contact: 02/27/2023  
Data Release Frequency: Quarterly

## PFAS NPL: Superfund Sites with PFAS Detections Information

EPA's Office of Land and Emergency Management and EPA Regional Offices maintain data describing what is known about site investigations, contamination, and remedial actions under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) where PFAS is present in the environment.

Date of Government Version: 02/23/2022  
Date Data Arrived at EDR: 07/08/2022  
Date Made Active in Reports: 11/08/2022  
Number of Days to Update: 123

Source: Environmental Protection Agency  
Telephone: 703-603-8895  
Last EDR Contact: 01/10/2023  
Next Scheduled EDR Contact: 04/17/2023  
Data Release Frequency: Varies

## PFAS FEDERAL SITES: Federal Sites PFAS Information

Several federal entities, such as the federal Superfund program, Department of Defense, National Aeronautics and Space Administration, Department of Transportation, and Department of Energy provided information for sites with known or suspected detections at federal facilities.

Date of Government Version: 02/23/2022  
Date Data Arrived at EDR: 03/31/2022  
Date Made Active in Reports: 11/08/2022  
Number of Days to Update: 222

Source: Environmental Protection Agency  
Telephone: 202-272-0167  
Last EDR Contact: 01/05/2023  
Next Scheduled EDR Contact: 04/17/2023  
Data Release Frequency: Varies

## PFAS TSCA: PFAS Manufacture and Imports Information

EPA issued the Chemical Data Reporting (CDR) Rule under the Toxic Substances Control Act (TSCA) and requires chemical manufacturers and facilities that manufacture or import chemical substances to report data to EPA. EPA publishes non-confidential business information (non-CBI) and includes descriptive information about each site, corporate parent, production volume, other manufacturing information, and processing and use information.

Date of Government Version: 01/03/2022  
Date Data Arrived at EDR: 03/31/2022  
Date Made Active in Reports: 11/08/2022  
Number of Days to Update: 222

Source: Environmental Protection Agency  
Telephone: 202-272-0167  
Last EDR Contact: 01/05/2023  
Next Scheduled EDR Contact: 04/17/2023  
Data Release Frequency: Varies

## PFAS RCRA MANIFEST: PFAS Transfers Identified In the RCRA Database Listing

To work around the lack of PFAS waste codes in the RCRA database, EPA developed the PFAS Transfers dataset by mining e-Manifest records containing at least one of these common PFAS keywords: PFAS, PFOA, PFOS, PERFL, AFFF, GENX, GEN-X (plus the VT waste codes). These keywords were searched for in the following text fields: Manifest handling instructions (MANIFEST\_HANDLING\_INSTR), Non-hazardous waste description (NON\_HAZ\_WASTE\_DESCRIPTION), DOT printed information (DOT\_PRINTED\_INFORMATION), Waste line handling instructions (WASTE\_LINE\_HANDLING\_INSTR), Waste residue comments (WASTE\_RESIDUE\_COMMENTS).

Date of Government Version: 01/03/2022  
Date Data Arrived at EDR: 03/31/2022  
Date Made Active in Reports: 11/08/2022  
Number of Days to Update: 222

Source: Environmental Protection Agency  
Telephone: 202-272-0167  
Last EDR Contact: 01/05/2023  
Next Scheduled EDR Contact: 04/17/2023  
Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## PFAS ATSDR: PFAS Contamination Site Location Listing

PFAS contamination site locations from the Department of Health & Human Services, Center for Disease Control & Prevention. ATSDR is involved at a number of PFAS-related sites, either directly or through assisting state and federal partners. As of now, most sites are related to drinking water contamination connected with PFAS production facilities or fire training areas where aqueous film-forming firefighting foam (AFFF) was regularly used.

Date of Government Version: 06/24/2020	Source: Department of Health & Human Services
Date Data Arrived at EDR: 03/17/2021	Telephone: 202-741-5770
Date Made Active in Reports: 11/08/2022	Last EDR Contact: 10/28/2022
Number of Days to Update: 601	Next Scheduled EDR Contact: 02/06/2023
	Data Release Frequency: Varies

## PFAS WQP: Ambient Environmental Sampling for PFAS

The Water Quality Portal (WQP) is a part of a modernized repository storing ambient sampling data for all environmental media and tissue samples. A wide range of federal, state, tribal and local governments, academic and non-governmental organizations and individuals submit project details and sampling results to this public repository. The information is commonly used for research and assessments of environmental quality.

Date of Government Version: 01/03/2022	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/31/2022	Telephone: 202-272-0167
Date Made Active in Reports: 11/08/2022	Last EDR Contact: 01/05/2023
Number of Days to Update: 222	Next Scheduled EDR Contact: 04/17/2023
	Data Release Frequency: Varies

## PFAS NPDES: Clean Water Act Discharge Monitoring Information

Any discharger of pollutants to waters of the United States from a point source must have a National Pollutant Discharge Elimination System (NPDES) permit. The process for obtaining limits involves the regulated entity (permittee) disclosing releases in a NPDES permit application and the permitting authority (typically the state but sometimes EPA) deciding whether to require monitoring or monitoring with limits.

Date of Government Version: 01/03/2022	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/31/2022	Telephone: 202-272-0167
Date Made Active in Reports: 11/08/2022	Last EDR Contact: 01/05/2023
Number of Days to Update: 222	Next Scheduled EDR Contact: 04/17/2023
	Data Release Frequency: Varies

## PFAS ECHO: Facilities in Industries that May Be Handling PFAS Listing

Regulators and the public have expressed interest in knowing which regulated entities may be using PFAS. EPA has developed a dataset from various sources that show which industries may be handling PFAS. Approximately 120,000 facilities subject to federal environmental programs have operated or currently operate in industry sectors with processes that may involve handling and/or release of PFAS.

Date of Government Version: 01/03/2022	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/31/2022	Telephone: 202-272-0167
Date Made Active in Reports: 11/08/2022	Last EDR Contact: 01/05/2023
Number of Days to Update: 222	Next Scheduled EDR Contact: 04/17/2023
	Data Release Frequency: Varies

## PFAS ECHO FIRE TRAINING: Facilities in Industries that May Be Handling PFAS Listing

A list of fire training sites was added to the Industry Sectors dataset using a keyword search on the permitted facility's name to identify sites where fire-fighting foam may have been used in training exercises. Additionally, you may view an example spreadsheet of the subset of fire training facility data, as well as the keywords used in selecting or deselecting a facility for the subset. as well as the keywords used in selecting or deselecting a facility for the subset. These keywords were tested to maximize accuracy in selecting facilities that may use fire-fighting foam in training exercises, however, due to the lack of a required reporting field in the data systems for designating fire training sites, this methodology may not identify all fire training sites or may potentially misidentify them.

Date of Government Version: 08/22/2018	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/31/2022	Telephone: 202-272-0167
Date Made Active in Reports: 11/08/2022	Last EDR Contact: 01/05/2023
Number of Days to Update: 222	Next Scheduled EDR Contact: 04/17/2023
	Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## PFAS PART 139 AIRPORT: All Certified Part 139 Airports PFAS Information Listing

Since July 1, 2006, all certified part 139 airports are required to have fire-fighting foam onsite that meet military specifications (MIL-F-24385) (14 CFR 139.317). To date, these military specification fire-fighting foams are fluorinated and have been historically used for training and extinguishing. The 2018 FAA Reauthorization Act has a provision stating that no later than October 2021, FAA shall not require the use of fluorinated AFFF. This provision does not prohibit the use of fluorinated AFFF at Part 139 civilian airports; it only prohibits FAA from mandating its use. The Federal Aviation Administration's document AC 150/5210-6D - Aircraft Fire Extinguishing Agents provides guidance on Aircraft Fire Extinguishing Agents, which includes Aqueous Film Forming Foam (AFFF).

Date of Government Version: 08/22/2018	Source: Environmental Protection Agency
Date Data Arrived at EDR: 10/26/2022	Telephone: 202-272-0167
Date Made Active in Reports: 11/08/2022	Last EDR Contact: 01/05/2023
Number of Days to Update: 13	Next Scheduled EDR Contact: 04/17/2023
	Data Release Frequency: Varies

## AQUEOUS FOAM NRC: Aqueous Foam Related Incidents Listing

The National Response Center (NRC) serves as an emergency call center that fields initial reports for pollution and railroad incidents and forwards that information to appropriate federal/state agencies for response. The spreadsheets posted to the NRC website contain initial incident data that has not been validated or investigated by a federal/state response agency. Response center calls from 1990 to the most recent complete calendar year where there was indication of Aqueous Film Forming Foam (AFFF) usage are included in this dataset. NRC calls may reference AFFF usage in the ?Material Involved? or ?Incident Description? fields.

Date of Government Version: 02/23/2022	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/31/2022	Telephone: 202-272-0167
Date Made Active in Reports: 11/08/2022	Last EDR Contact: 01/05/2023
Number of Days to Update: 222	Next Scheduled EDR Contact: 04/17/2023
	Data Release Frequency: Varies

## PFAS: PFAS Contamination Site Location Listing

A listing of PFAS contaminated sites included in the GeoTracker database.

Date of Government Version: 08/31/2022	Source: State Water Resources Control Board
Date Data Arrived at EDR: 08/31/2022	Telephone: 866-480-1028
Date Made Active in Reports: 10/31/2022	Last EDR Contact: 12/02/2022
Number of Days to Update: 61	Next Scheduled EDR Contact: 03/20/2023
	Data Release Frequency: Varies

## AQUEOUS FOAM: Former Fire Training Facility Assessments Listing

Airports shown on this list are those believed to use Aqueous Film Forming Foam (AFFF), and certified by the Federal Aviation Administration (FAA) under Title 14, Code of Federal Regulations (CFR), Part 139 (14 CFR Part 139). This list was created by SWRCB using information available from the FAA. Location points shown are from the latitude and longitude listed on the FAA airport master record.

Date of Government Version: 09/06/2022	Source: State Water Resources Control Board
Date Data Arrived at EDR: 09/06/2022	Telephone: 916-341-5455
Date Made Active in Reports: 10/26/2022	Last EDR Contact: 10/09/2022
Number of Days to Update: 50	Next Scheduled EDR Contact: 03/20/2023
	Data Release Frequency: Varies

## CA BOND EXP. PLAN: Bond Expenditure Plan

Department of Health Services developed a site-specific expenditure plan as the basis for an appropriation of Hazardous Substance Cleanup Bond Act funds. It is not updated.

Date of Government Version: 01/01/1989	Source: Department of Health Services
Date Data Arrived at EDR: 07/27/1994	Telephone: 916-255-2118
Date Made Active in Reports: 08/02/1994	Last EDR Contact: 05/31/1994
Number of Days to Update: 6	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## CORTESE: "Cortese" Hazardous Waste & Substances Sites List

The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites).

Date of Government Version: 09/19/2022	Source: CAL EPA/Office of Emergency Information
Date Data Arrived at EDR: 09/19/2022	Telephone: 916-323-3400
Date Made Active in Reports: 12/07/2022	Last EDR Contact: 12/14/2022
Number of Days to Update: 79	Next Scheduled EDR Contact: 04/03/2023
	Data Release Frequency: Quarterly

## CUPA LIVERMORE-PLEASANTON: CUPA Facility Listing

list of facilities associated with the various CUPA programs in Livermore-Pleasanton

Date of Government Version: 12/07/2021	Source: Livermore-Pleasanton Fire Department
Date Data Arrived at EDR: 05/09/2022	Telephone: 925-454-2361
Date Made Active in Reports: 05/17/2022	Last EDR Contact: 11/10/2022
Number of Days to Update: 8	Next Scheduled EDR Contact: 02/20/2023
	Data Release Frequency: Varies

## DRYCLEANERS: Cleaner Facilities

A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaner's agents; linen supply; coin-operated laundries and cleaning; drycleaning plants, except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

Date of Government Version: 08/27/2021	Source: Department of Toxic Substance Control
Date Data Arrived at EDR: 09/01/2021	Telephone: 916-327-4498
Date Made Active in Reports: 11/19/2021	Last EDR Contact: 11/07/2022
Number of Days to Update: 79	Next Scheduled EDR Contact: 03/13/2023
	Data Release Frequency: Annually

## DRYCLEAN SOUTH COAST: South Coast Air Quality Management District Drycleaner Listing

A listing of dry cleaners in the South Coast Air Quality Management District

Date of Government Version: 08/18/2022	Source: South Coast Air Quality Management District
Date Data Arrived at EDR: 08/29/2022	Telephone: 909-396-3211
Date Made Active in Reports: 11/14/2022	Last EDR Contact: 11/15/2022
Number of Days to Update: 77	Next Scheduled EDR Contact: 03/06/2023
	Data Release Frequency: Varies

## DRYCLEAN AVAQMD: Antelope Valley Air Quality Management District Drycleaner Listing

A listing of dry cleaners in the Antelope Valley Air Quality Management District.

Date of Government Version: 05/25/2022	Source: Antelope Valley Air Quality Management District
Date Data Arrived at EDR: 05/26/2022	Telephone: 661-723-8070
Date Made Active in Reports: 08/11/2022	Last EDR Contact: 11/14/2022
Number of Days to Update: 77	Next Scheduled EDR Contact: 03/13/2023
	Data Release Frequency: Varies

## EMI: Emissions Inventory Data

Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies.

Date of Government Version: 12/31/2020	Source: California Air Resources Board
Date Data Arrived at EDR: 06/13/2022	Telephone: 916-322-2990
Date Made Active in Reports: 08/30/2022	Last EDR Contact: 12/15/2022
Number of Days to Update: 78	Next Scheduled EDR Contact: 03/27/2023
	Data Release Frequency: Varies

## ENF: Enforcement Action Listing

A listing of Water Board Enforcement Actions. Formal is everything except Oral/Verbal Communication, Notice of Violation, Expedited Payment Letter, and Staff Enforcement Letter.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 10/17/2022  
Date Data Arrived at EDR: 10/19/2022  
Date Made Active in Reports: 01/10/2023  
Number of Days to Update: 83

Source: State Water Resources Control Board  
Telephone: 916-445-9379  
Last EDR Contact: 10/19/2022  
Next Scheduled EDR Contact: 01/30/2023  
Data Release Frequency: Varies

## Financial Assurance 1: Financial Assurance Information Listing

Financial Assurance information

Date of Government Version: 10/12/2022  
Date Data Arrived at EDR: 10/12/2022  
Date Made Active in Reports: 12/29/2022  
Number of Days to Update: 78

Source: Department of Toxic Substances Control  
Telephone: 916-255-3628  
Last EDR Contact: 01/13/2023  
Next Scheduled EDR Contact: 05/01/2023  
Data Release Frequency: Varies

## Financial Assurance 2: Financial Assurance Information Listing

A listing of financial assurance information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 08/09/2022  
Date Data Arrived at EDR: 08/10/2022  
Date Made Active in Reports: 08/30/2022  
Number of Days to Update: 20

Source: California Integrated Waste Management Board  
Telephone: 916-341-6066  
Last EDR Contact: 11/15/2022  
Next Scheduled EDR Contact: 02/20/2023  
Data Release Frequency: Varies

## ICE: ICE

Contains data pertaining to the Permitted Facilities with Inspections / Enforcements sites tracked in Envirostor.

Date of Government Version: 08/11/2022  
Date Data Arrived at EDR: 08/11/2022  
Date Made Active in Reports: 10/28/2022  
Number of Days to Update: 78

Source: Department of Toxic Substances Control  
Telephone: 877-786-9427  
Last EDR Contact: 11/10/2022  
Next Scheduled EDR Contact: 02/27/2023  
Data Release Frequency: Quarterly

## HIST CORTESE: Hazardous Waste & Substance Site List

The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES]. This listing is no longer updated by the state agency.

Date of Government Version: 04/01/2001  
Date Data Arrived at EDR: 01/22/2009  
Date Made Active in Reports: 04/08/2009  
Number of Days to Update: 76

Source: Department of Toxic Substances Control  
Telephone: 916-323-3400  
Last EDR Contact: 01/22/2009  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: No Update Planned

## HWP: EnviroStor Permitted Facilities Listing

Detailed information on permitted hazardous waste facilities and corrective action ("cleanups") tracked in EnviroStor.

Date of Government Version: 08/11/2022  
Date Data Arrived at EDR: 08/11/2022  
Date Made Active in Reports: 10/28/2022  
Number of Days to Update: 78

Source: Department of Toxic Substances Control  
Telephone: 916-323-3400  
Last EDR Contact: 11/10/2022  
Next Scheduled EDR Contact: 02/27/2023  
Data Release Frequency: Quarterly

## HWT: Registered Hazardous Waste Transporter Database

A listing of hazardous waste transporters. In California, unless specifically exempted, it is unlawful for any person to transport hazardous wastes unless the person holds a valid registration issued by DTSC. A hazardous waste transporter registration is valid for one year and is assigned a unique registration number.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 10/03/2022  
Date Data Arrived at EDR: 10/03/2022  
Date Made Active in Reports: 12/15/2022  
Number of Days to Update: 73

Source: Department of Toxic Substances Control  
Telephone: 916-440-7145  
Last EDR Contact: 01/04/2023  
Next Scheduled EDR Contact: 04/17/2023  
Data Release Frequency: Quarterly

## HAZNET: Facility and Manifest Data

Facility and Manifest Data. The data is extracted from the copies of hazardous waste manifests received each year by the DTSC. The annual volume of manifests is typically 700,000 - 1,000,000 annually, representing approximately 350,000 - 500,000 shipments. Data are from the manifests submitted without correction, and therefore many contain some invalid values for data elements such as generator ID, TSD ID, waste category, and disposal method. This database begins with calendar year 1993.

Date of Government Version: 12/31/2021  
Date Data Arrived at EDR: 07/05/2022  
Date Made Active in Reports: 09/19/2022  
Number of Days to Update: 76

Source: California Environmental Protection Agency  
Telephone: 916-255-1136  
Last EDR Contact: 01/06/2023  
Next Scheduled EDR Contact: 04/17/2023  
Data Release Frequency: Annually

## MINES: Mines Site Location Listing

A listing of mine site locations from the Office of Mine Reclamation.

Date of Government Version: 08/31/2022  
Date Data Arrived at EDR: 08/31/2022  
Date Made Active in Reports: 11/18/2022  
Number of Days to Update: 79

Source: Department of Conservation  
Telephone: 916-322-1080  
Last EDR Contact: 12/02/2022  
Next Scheduled EDR Contact: 03/20/2023  
Data Release Frequency: Quarterly

## MWMP: Medical Waste Management Program Listing

The Medical Waste Management Program (MWMP) ensures the proper handling and disposal of medical waste by permitting and inspecting medical waste Offsite Treatment Facilities (PDF) and Transfer Stations (PDF) throughout the state. MWMP also oversees all Medical Waste Transporters.

Date of Government Version: 08/08/2022  
Date Data Arrived at EDR: 08/25/2022  
Date Made Active in Reports: 11/14/2022  
Number of Days to Update: 81

Source: Department of Public Health  
Telephone: 916-558-1784  
Last EDR Contact: 11/29/2022  
Next Scheduled EDR Contact: 03/13/2023  
Data Release Frequency: Varies

## NPDES: NPDES Permits Listing

A listing of NPDES permits, including stormwater.

Date of Government Version: 08/08/2022  
Date Data Arrived at EDR: 08/08/2022  
Date Made Active in Reports: 10/20/2022  
Number of Days to Update: 73

Source: State Water Resources Control Board  
Telephone: 916-445-9379  
Last EDR Contact: 11/03/2022  
Next Scheduled EDR Contact: 02/20/2023  
Data Release Frequency: Quarterly

## PEST LIC: Pesticide Regulation Licenses Listing

A listing of licenses and certificates issued by the Department of Pesticide Regulation. The DPR issues licenses and/or certificates to: Persons and businesses that apply or sell pesticides; Pest control dealers and brokers; Persons who advise on agricultural pesticide applications.

Date of Government Version: 08/25/2022  
Date Data Arrived at EDR: 08/25/2022  
Date Made Active in Reports: 11/14/2022  
Number of Days to Update: 81

Source: Department of Pesticide Regulation  
Telephone: 916-445-4038  
Last EDR Contact: 11/29/2022  
Next Scheduled EDR Contact: 03/13/2023  
Data Release Frequency: Quarterly

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## PROC: Certified Processors Database

A listing of certified processors.

Date of Government Version: 08/31/2022  
Date Data Arrived at EDR: 08/31/2022  
Date Made Active in Reports: 11/18/2022  
Number of Days to Update: 79

Source: Department of Conservation  
Telephone: 916-323-3836  
Last EDR Contact: 12/02/2022  
Next Scheduled EDR Contact: 03/20/2023  
Data Release Frequency: Quarterly

## NOTIFY 65: Proposition 65 Records

Listings of all Proposition 65 incidents reported to counties by the State Water Resources Control Board and the Regional Water Quality Control Board. This database is no longer updated by the reporting agency.

Date of Government Version: 09/07/2022  
Date Data Arrived at EDR: 09/08/2022  
Date Made Active in Reports: 11/29/2022  
Number of Days to Update: 82

Source: State Water Resources Control Board  
Telephone: 916-445-3846  
Last EDR Contact: 12/06/2022  
Next Scheduled EDR Contact: 03/27/2023  
Data Release Frequency: No Update Planned

## UIC: UIC Listing

A listing of wells identified as underground injection wells, in the California Oil and Gas Wells database.

Date of Government Version: 08/31/2022  
Date Data Arrived at EDR: 08/31/2022  
Date Made Active in Reports: 11/18/2022  
Number of Days to Update: 79

Source: Department of Conservation  
Telephone: 916-445-2408  
Last EDR Contact: 12/02/2022  
Next Scheduled EDR Contact: 03/20/2023  
Data Release Frequency: Varies

## UIC GEO: Underground Injection Control Sites (GEOTRACKER)

Underground control injection sites

Date of Government Version: 08/31/2022  
Date Data Arrived at EDR: 08/31/2022  
Date Made Active in Reports: 11/17/2022  
Number of Days to Update: 78

Source: State Water Resource Control Board  
Telephone: 866-480-1028  
Last EDR Contact: 12/02/2022  
Next Scheduled EDR Contact: 03/20/2023  
Data Release Frequency: Varies

## WASTEWATER PITS: Oil Wastewater Pits Listing

Water officials discovered that oil producers have been dumping chemical-laden wastewater into hundreds of unlined pits that are operating without proper permits. Inspections completed by the Central Valley Regional Water Quality Control Board revealed the existence of previously unidentified waste sites. The water boards review found that more than one-third of the region's active disposal pits are operating without permission.

Date of Government Version: 02/11/2021  
Date Data Arrived at EDR: 07/01/2021  
Date Made Active in Reports: 09/29/2021  
Number of Days to Update: 90

Source: RWQCB, Central Valley Region  
Telephone: 559-445-5577  
Last EDR Contact: 01/06/2023  
Next Scheduled EDR Contact: 04/17/2023  
Data Release Frequency: Varies

## WDS: Waste Discharge System

Sites which have been issued waste discharge requirements.

Date of Government Version: 06/19/2007  
Date Data Arrived at EDR: 06/20/2007  
Date Made Active in Reports: 06/29/2007  
Number of Days to Update: 9

Source: State Water Resources Control Board  
Telephone: 916-341-5227  
Last EDR Contact: 11/08/2022  
Next Scheduled EDR Contact: 02/27/2023  
Data Release Frequency: No Update Planned

## WIP: Well Investigation Program Case List

Well Investigation Program case in the San Gabriel and San Fernando Valley area.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 07/03/2009  
Date Data Arrived at EDR: 07/21/2009  
Date Made Active in Reports: 08/03/2009  
Number of Days to Update: 13

Source: Los Angeles Water Quality Control Board  
Telephone: 213-576-6726  
Last EDR Contact: 12/13/2022  
Next Scheduled EDR Contact: 04/03/2023  
Data Release Frequency: No Update Planned

## MILITARY PRIV SITES: Military Privatized Sites (GEOTRACKER)

Military privatized sites

Date of Government Version: 08/31/2022  
Date Data Arrived at EDR: 08/31/2022  
Date Made Active in Reports: 11/17/2022  
Number of Days to Update: 78

Source: State Water Resources Control Board  
Telephone: 866-480-1028  
Last EDR Contact: 12/02/2022  
Next Scheduled EDR Contact: 03/20/2023  
Data Release Frequency: Varies

## PROJECT: Project Sites (GEOTRACKER)

Projects sites

Date of Government Version: 08/31/2022  
Date Data Arrived at EDR: 08/31/2022  
Date Made Active in Reports: 11/17/2022  
Number of Days to Update: 78

Source: State Water Resources Control Board  
Telephone: 866-480-1028  
Last EDR Contact: 12/02/2022  
Next Scheduled EDR Contact: 03/20/2023  
Data Release Frequency: Varies

## WDR: Waste Discharge Requirements Listing

In general, the Waste Discharge Requirements (WDRs) Program (sometimes also referred to as the "Non Chapter 15 (Non 15) Program") regulates point discharges that are exempt pursuant to Subsection 20090 of Title 27 and not subject to the Federal Water Pollution Control Act. Exemptions from Title 27 may be granted for nine categories of discharges (e.g., sewage, wastewater, etc.) that meet, and continue to meet, the preconditions listed for each specific exemption. The scope of the WDRs Program also includes the discharge of wastes classified as inert, pursuant to section 20230 of Title 27.

Date of Government Version: 08/31/2022  
Date Data Arrived at EDR: 08/31/2022  
Date Made Active in Reports: 11/18/2022  
Number of Days to Update: 79

Source: State Water Resources Control Board  
Telephone: 916-341-5810  
Last EDR Contact: 12/02/2022  
Next Scheduled EDR Contact: 03/20/2023  
Data Release Frequency: Quarterly

## CIWQS: California Integrated Water Quality System

The California Integrated Water Quality System (CIWQS) is a computer system used by the State and Regional Water Quality Control Boards to track information about places of environmental interest, manage permits and other orders, track inspections, and manage violations and enforcement activities.

Date of Government Version: 08/16/2022  
Date Data Arrived at EDR: 08/17/2022  
Date Made Active in Reports: 08/18/2022  
Number of Days to Update: 1

Source: State Water Resources Control Board  
Telephone: 866-794-4977  
Last EDR Contact: 11/29/2022  
Next Scheduled EDR Contact: 03/13/2023  
Data Release Frequency: Varies

## CERS: CalEPA Regulated Site Portal Data

The CalEPA Regulated Site Portal database combines data about environmentally regulated sites and facilities in California into a single database. It combines data from a variety of state and federal databases, and provides an overview of regulated activities across the spectrum of environmental programs for any given location in California. These activities include hazardous materials and waste, state and federal cleanups, impacted ground and surface waters, and toxic materials

Date of Government Version: 01/05/2023  
Date Data Arrived at EDR: 01/06/2023  
Date Made Active in Reports: 01/10/2023  
Number of Days to Update: 4

Source: California Environmental Protection Agency  
Telephone: 916-323-2514  
Last EDR Contact: 01/06/2023  
Next Scheduled EDR Contact: 05/01/2023  
Data Release Frequency: Varies



# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## NON-CASE INFO: Non-Case Information Sites (GEOTRACKER)

Non-Case Information sites

Date of Government Version: 08/31/2022	Source: State Water Resources Control Board
Date Data Arrived at EDR: 08/31/2022	Telephone: 866-480-1028
Date Made Active in Reports: 11/17/2022	Last EDR Contact: 12/02/2022
Number of Days to Update: 78	Next Scheduled EDR Contact: 03/20/2023
	Data Release Frequency: Varies

## OTHER OIL GAS: Other Oil & Gas Projects Sites (GEOTRACKER)

Other Oil & Gas Projects sites

Date of Government Version: 08/31/2022	Source: State Water Resources Control Board
Date Data Arrived at EDR: 08/31/2022	Telephone: 866-480-1028
Date Made Active in Reports: 11/17/2022	Last EDR Contact: 12/02/2022
Number of Days to Update: 78	Next Scheduled EDR Contact: 03/20/2023
	Data Release Frequency: Varies

## PROD WATER PONDS: Produced Water Ponds Sites (GEOTRACKER)

Produced water ponds sites

Date of Government Version: 08/31/2022	Source: State Water Resources Control Board
Date Data Arrived at EDR: 08/31/2022	Telephone: 866-480-1028
Date Made Active in Reports: 11/17/2022	Last EDR Contact: 12/02/2022
Number of Days to Update: 78	Next Scheduled EDR Contact: 03/20/2023
	Data Release Frequency: Varies

## SAMPLING POINT: Sampling Point ? Public Sites (GEOTRACKER)

Sampling point - public sites

Date of Government Version: 08/31/2022	Source: State Water Resources Control Board
Date Data Arrived at EDR: 08/31/2022	Telephone: 866-480-1028
Date Made Active in Reports: 11/17/2022	Last EDR Contact: 12/02/2022
Number of Days to Update: 78	Next Scheduled EDR Contact: 03/20/2023
	Data Release Frequency: Varies

## WELL STIM PROJ: Well Stimulation Project (GEOTRACKER)

Includes areas of groundwater monitoring plans, a depiction of the monitoring network, and the facilities, boundaries, and subsurface characteristics of the oilfield and the features (oil and gas wells, produced water ponds, UIC wells, water supply wells, etc?) being monitored

Date of Government Version: 08/31/2022	Source: State Water Resources Control Board
Date Data Arrived at EDR: 08/31/2022	Telephone: 866-480-1028
Date Made Active in Reports: 11/17/2022	Last EDR Contact: 12/02/2022
Number of Days to Update: 78	Next Scheduled EDR Contact: 03/20/2023
	Data Release Frequency: Varies

## HWTS: Hazardous Waste Tracking System

DTSC maintains the Hazardous Waste Tracking System that stores ID number information since the early 1980s and manifest data since 1993. The system collects both manifest copies from the generator and destination facility.

Date of Government Version: 04/05/2022	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 04/05/2022	Telephone: 916-324-2444
Date Made Active in Reports: 04/26/2022	Last EDR Contact: 01/03/2023
Number of Days to Update: 21	Next Scheduled EDR Contact: 04/17/2023
	Data Release Frequency: Varies

## PCS ENF: Enforcement data

No description is available for this data

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 12/31/2014  
Date Data Arrived at EDR: 02/05/2015  
Date Made Active in Reports: 03/06/2015  
Number of Days to Update: 29

Source: EPA  
Telephone: 202-564-2497  
Last EDR Contact: 12/28/2022  
Next Scheduled EDR Contact: 04/17/2023  
Data Release Frequency: Varies

## MINES MRDS: Mineral Resources Data System Mineral Resources Data System

Date of Government Version: 04/06/2018  
Date Data Arrived at EDR: 10/21/2019  
Date Made Active in Reports: 10/24/2019  
Number of Days to Update: 3

Source: USGS  
Telephone: 703-648-6533  
Last EDR Contact: 11/22/2022  
Next Scheduled EDR Contact: 03/06/2023  
Data Release Frequency: Varies

## PCS INACTIVE: Listing of Inactive PCS Permits

An inactive permit is a facility that has shut down or is no longer discharging.

Date of Government Version: 11/05/2014  
Date Data Arrived at EDR: 01/06/2015  
Date Made Active in Reports: 05/06/2015  
Number of Days to Update: 120

Source: EPA  
Telephone: 202-564-2496  
Last EDR Contact: 12/28/2022  
Next Scheduled EDR Contact: 04/17/2023  
Data Release Frequency: Semi-Annually

## PCS: Permit Compliance System

PCS is a computerized management information system that contains data on National Pollutant Discharge Elimination System (NPDES) permit holding facilities. PCS tracks the permit, compliance, and enforcement status of NPDES facilities.

Date of Government Version: 07/14/2011  
Date Data Arrived at EDR: 08/05/2011  
Date Made Active in Reports: 09/29/2011  
Number of Days to Update: 55

Source: EPA, Office of Water  
Telephone: 202-564-2496  
Last EDR Contact: 12/28/2022  
Next Scheduled EDR Contact: 04/17/2023  
Data Release Frequency: Semi-Annually

## EDR HIGH RISK HISTORICAL RECORDS

### *EDR Exclusive Records*

#### EDR MGP: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A  
Date Data Arrived at EDR: N/A  
Date Made Active in Reports: N/A  
Number of Days to Update: N/A

Source: EDR, Inc.  
Telephone: N/A  
Last EDR Contact: N/A  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: No Update Planned

#### EDR Hist Auto: EDR Exclusive Historical Auto Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: N/A  
Date Data Arrived at EDR: N/A  
Date Made Active in Reports: N/A  
Number of Days to Update: N/A

Source: EDR, Inc.  
Telephone: N/A  
Last EDR Contact: N/A  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: Varies

## EDR Hist Cleaner: EDR Exclusive Historical Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A  
Date Data Arrived at EDR: N/A  
Date Made Active in Reports: N/A  
Number of Days to Update: N/A

Source: EDR, Inc.  
Telephone: N/A  
Last EDR Contact: N/A  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: Varies

## EDR RECOVERED GOVERNMENT ARCHIVES

### *Exclusive Recovered Govt. Archives*

#### RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Resources Recycling and Recovery in California.

Date of Government Version: N/A  
Date Data Arrived at EDR: 07/01/2013  
Date Made Active in Reports: 01/13/2014  
Number of Days to Update: 196

Source: Department of Resources Recycling and Recovery  
Telephone: N/A  
Last EDR Contact: 06/01/2012  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: Varies

#### RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the State Water Resources Control Board in California.

Date of Government Version: N/A  
Date Data Arrived at EDR: 07/01/2013  
Date Made Active in Reports: 12/30/2013  
Number of Days to Update: 182

Source: State Water Resources Control Board  
Telephone: N/A  
Last EDR Contact: 06/01/2012  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: Varies

## COUNTY RECORDS

### ALAMEDA COUNTY:

#### CS ALAMEDA: Contaminated Sites

A listing of contaminated sites overseen by the Toxic Release Program (oil and groundwater contamination from chemical releases and spills) and the Leaking Underground Storage Tank Program (soil and ground water contamination from leaking petroleum USTs).

Date of Government Version: 01/09/2019  
Date Data Arrived at EDR: 01/11/2019  
Date Made Active in Reports: 03/05/2019  
Number of Days to Update: 53

Source: Alameda County Environmental Health Services  
Telephone: 510-567-6700  
Last EDR Contact: 12/28/2022  
Next Scheduled EDR Contact: 04/17/2023  
Data Release Frequency: Semi-Annually

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## UST ALAMEDA: Underground Tanks

Underground storage tank sites located in Alameda county.

Date of Government Version: 09/28/2022  
Date Data Arrived at EDR: 09/29/2022  
Date Made Active in Reports: 12/14/2022  
Number of Days to Update: 76

Source: Alameda County Environmental Health Services  
Telephone: 510-567-6700  
Last EDR Contact: 12/28/2022  
Next Scheduled EDR Contact: 04/17/2023  
Data Release Frequency: Semi-Annually

## AMADOR COUNTY:

### CUPA AMADOR: CUPA Facility List Cupa Facility List

Date of Government Version: 07/22/2022  
Date Data Arrived at EDR: 07/27/2022  
Date Made Active in Reports: 08/01/2022  
Number of Days to Update: 5

Source: Amador County Environmental Health  
Telephone: 209-223-6439  
Last EDR Contact: 10/26/2022  
Next Scheduled EDR Contact: 02/13/2023  
Data Release Frequency: Varies

## BUTTE COUNTY:

### CUPA BUTTE: CUPA Facility Listing Cupa facility list.

Date of Government Version: 04/21/2017  
Date Data Arrived at EDR: 04/25/2017  
Date Made Active in Reports: 08/09/2017  
Number of Days to Update: 106

Source: Public Health Department  
Telephone: 530-538-7149  
Last EDR Contact: 12/28/2022  
Next Scheduled EDR Contact: 04/17/2023  
Data Release Frequency: No Update Planned

## CALVERAS COUNTY:

### CUPA CALVERAS: CUPA Facility Listing Cupa Facility Listing

Date of Government Version: 12/13/2022  
Date Data Arrived at EDR: 12/15/2022  
Date Made Active in Reports: 12/21/2022  
Number of Days to Update: 6

Source: Calveras County Environmental Health  
Telephone: 209-754-6399  
Last EDR Contact: 12/13/2022  
Next Scheduled EDR Contact: 04/03/2023  
Data Release Frequency: Quarterly

## COLUSA COUNTY:

### CUPA COLUSA: CUPA Facility List Cupa facility list.

Date of Government Version: 04/06/2020  
Date Data Arrived at EDR: 04/23/2020  
Date Made Active in Reports: 07/10/2020  
Number of Days to Update: 78

Source: Health & Human Services  
Telephone: 530-458-0396  
Last EDR Contact: 10/26/2022  
Next Scheduled EDR Contact: 02/16/2023  
Data Release Frequency: Semi-Annually

## CONTRA COSTA COUNTY:

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## SL CONTRA COSTA: Site List

List includes sites from the underground tank, hazardous waste generator and business plan/2185 programs.

Date of Government Version: 10/20/2022  
Date Data Arrived at EDR: 10/21/2022  
Date Made Active in Reports: 01/10/2023  
Number of Days to Update: 81

Source: Contra Costa Health Services Department  
Telephone: 925-646-2286  
Last EDR Contact: 10/20/2022  
Next Scheduled EDR Contact: 02/06/2023  
Data Release Frequency: Semi-Annually

## DEL NORTE COUNTY:

### CUPA DEL NORTE: CUPA Facility List Cupa Facility list

Date of Government Version: 05/04/2022  
Date Data Arrived at EDR: 05/06/2022  
Date Made Active in Reports: 07/28/2022  
Number of Days to Update: 83

Source: Del Norte County Environmental Health Division  
Telephone: 707-465-0426  
Last EDR Contact: 10/20/2022  
Next Scheduled EDR Contact: 02/06/2023  
Data Release Frequency: Varies

## EL DORADO COUNTY:

### CUPA EL DORADO: CUPA Facility List CUPA facility list.

Date of Government Version: 08/08/2022  
Date Data Arrived at EDR: 08/09/2022  
Date Made Active in Reports: 09/01/2022  
Number of Days to Update: 23

Source: El Dorado County Environmental Management Department  
Telephone: 530-621-6623  
Last EDR Contact: 10/20/2022  
Next Scheduled EDR Contact: 02/06/2023  
Data Release Frequency: Varies

## FRESNO COUNTY:

### CUPA FRESNO: CUPA Resources List

Certified Unified Program Agency. CUPA's are responsible for implementing a unified hazardous materials and hazardous waste management regulatory program. The agency provides oversight of businesses that deal with hazardous materials, operate underground storage tanks or aboveground storage tanks.

Date of Government Version: 06/28/2021  
Date Data Arrived at EDR: 12/21/2021  
Date Made Active in Reports: 03/03/2022  
Number of Days to Update: 72

Source: Dept. of Community Health  
Telephone: 559-445-3271  
Last EDR Contact: 12/29/2022  
Next Scheduled EDR Contact: 04/10/2023  
Data Release Frequency: Semi-Annually

## GLENN COUNTY:

### CUPA GLENN: CUPA Facility List Cupa facility list

Date of Government Version: 01/22/2018  
Date Data Arrived at EDR: 01/24/2018  
Date Made Active in Reports: 03/14/2018  
Number of Days to Update: 49

Source: Glenn County Air Pollution Control District  
Telephone: 830-934-6500  
Last EDR Contact: 01/13/2023  
Next Scheduled EDR Contact: 05/01/2023  
Data Release Frequency: No Update Planned

## HUMBOLDT COUNTY:

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## CUPA HUMBOLDT: CUPA Facility List CUPA facility list.

Date of Government Version: 08/12/2021  
Date Data Arrived at EDR: 08/12/2021  
Date Made Active in Reports: 11/08/2021  
Number of Days to Update: 88

Source: Humboldt County Environmental Health  
Telephone: N/A  
Last EDR Contact: 11/08/2022  
Next Scheduled EDR Contact: 02/27/2023  
Data Release Frequency: Semi-Annually

## IMPERIAL COUNTY:

### CUPA IMPERIAL: CUPA Facility List Cupa facility list.

Date of Government Version: 10/11/2022  
Date Data Arrived at EDR: 10/12/2022  
Date Made Active in Reports: 12/29/2022  
Number of Days to Update: 78

Source: San Diego Border Field Office  
Telephone: 760-339-2777  
Last EDR Contact: 01/13/2023  
Next Scheduled EDR Contact: 05/01/2023  
Data Release Frequency: Varies

## INYO COUNTY:

### CUPA INYO: CUPA Facility List Cupa facility list.

Date of Government Version: 04/02/2018  
Date Data Arrived at EDR: 04/03/2018  
Date Made Active in Reports: 06/14/2018  
Number of Days to Update: 72

Source: Inyo County Environmental Health Services  
Telephone: 760-878-0238  
Last EDR Contact: 11/08/2022  
Next Scheduled EDR Contact: 02/27/2023  
Data Release Frequency: Varies

## KERN COUNTY:

### CUPA KERN: CUPA Facility List

A listing of sites included in the Kern County Hazardous Material Business Plan.

Date of Government Version: 10/03/2022  
Date Data Arrived at EDR: 10/05/2022  
Date Made Active in Reports: 12/16/2022  
Number of Days to Update: 72

Source: Kern County Public Health  
Telephone: 661-321-3000  
Last EDR Contact: 10/05/2022  
Next Scheduled EDR Contact: 02/16/2023  
Data Release Frequency: Varies

### UST KERN: Underground Storage Tank Sites & Tank Listing Kern County Sites and Tanks Listing.

Date of Government Version: 10/03/2022  
Date Data Arrived at EDR: 10/05/2022  
Date Made Active in Reports: 12/16/2022  
Number of Days to Update: 72

Source: Kern County Environment Health Services Department  
Telephone: 661-862-8700  
Last EDR Contact: 10/05/2022  
Next Scheduled EDR Contact: 02/16/2023  
Data Release Frequency: Quarterly

## KINGS COUNTY:

### CUPA KINGS: CUPA Facility List

A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 12/03/2020  
Date Data Arrived at EDR: 01/26/2021  
Date Made Active in Reports: 04/14/2021  
Number of Days to Update: 78

Source: Kings County Department of Public Health  
Telephone: 559-584-1411  
Last EDR Contact: 11/08/2022  
Next Scheduled EDR Contact: 02/27/2023  
Data Release Frequency: Varies

## LAKE COUNTY:

CUPA LAKE: CUPA Facility List  
Cupa facility list

Date of Government Version: 07/22/2022  
Date Data Arrived at EDR: 07/25/2022  
Date Made Active in Reports: 10/05/2022  
Number of Days to Update: 72

Source: Lake County Environmental Health  
Telephone: 707-263-1164  
Last EDR Contact: 01/09/2023  
Next Scheduled EDR Contact: 04/24/2023  
Data Release Frequency: Varies

## LASSEN COUNTY:

CUPA LASSEN: CUPA Facility List  
Cupa facility list

Date of Government Version: 07/31/2020  
Date Data Arrived at EDR: 08/21/2020  
Date Made Active in Reports: 11/09/2020  
Number of Days to Update: 80

Source: Lassen County Environmental Health  
Telephone: 530-251-8528  
Last EDR Contact: 01/13/2023  
Next Scheduled EDR Contact: 05/01/2023  
Data Release Frequency: Varies

## LOS ANGELES COUNTY:

AOCONCERN: Key Areas of Concerns in Los Angeles County

San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office. Date of Government Version: 3/30/2009 Exide Site area is a cleanup plan of lead-impacted soil surrounding the former Exide Facility as designated by the DTSC. Date of Government Version: 7/17/2017

Date of Government Version: 03/30/2009  
Date Data Arrived at EDR: 03/31/2009  
Date Made Active in Reports: 10/23/2009  
Number of Days to Update: 206

Source: N/A  
Telephone: N/A  
Last EDR Contact: 12/06/2022  
Next Scheduled EDR Contact: 03/27/2023  
Data Release Frequency: No Update Planned

HMS LOS ANGELES: HMS: Street Number List

Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 10/03/2022  
Date Data Arrived at EDR: 10/04/2022  
Date Made Active in Reports: 12/15/2022  
Number of Days to Update: 72

Source: Department of Public Works  
Telephone: 626-458-3517  
Last EDR Contact: 12/28/2022  
Next Scheduled EDR Contact: 04/17/2023  
Data Release Frequency: Semi-Annually

LF LOS ANGELES: List of Solid Waste Facilities

Solid Waste Facilities in Los Angeles County.

Date of Government Version: 10/07/2022  
Date Data Arrived at EDR: 10/07/2022  
Date Made Active in Reports: 12/21/2022  
Number of Days to Update: 75

Source: La County Department of Public Works  
Telephone: 818-458-5185  
Last EDR Contact: 01/10/2023  
Next Scheduled EDR Contact: 04/24/2023  
Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## LF LOS ANGELES CITY: City of Los Angeles Landfills

Landfills owned and maintained by the City of Los Angeles.

Date of Government Version: 01/01/2022	Source: Engineering & Construction Division
Date Data Arrived at EDR: 01/21/2022	Telephone: 213-473-7869
Date Made Active in Reports: 04/11/2022	Last EDR Contact: 01/05/2023
Number of Days to Update: 80	Next Scheduled EDR Contact: 04/24/2023
	Data Release Frequency: Varies

## LOS ANGELES AST: Active & Inactive AST Inventory

A listing of active & inactive above ground petroleum storage tank site locations, located in the City of Los Angeles.

Date of Government Version: 06/01/2019	Source: Los Angeles Fire Department
Date Data Arrived at EDR: 06/25/2019	Telephone: 213-978-3800
Date Made Active in Reports: 08/22/2019	Last EDR Contact: 12/13/2022
Number of Days to Update: 58	Next Scheduled EDR Contact: 04/03/2023
	Data Release Frequency: Varies

## LOS ANGELES CO LF METHANE: Methane Producing Landfills

This data was created on April 30, 2012 to represent known disposal sites in Los Angeles County that may produce and emanate methane gas. The shapefile contains disposal sites within Los Angeles County that once accepted degradable refuse material. Information used to create this data was extracted from a landfill survey performed by County Engineers (Major Waste System Map, 1973) as well as historical records from CalRecycle, Regional Water Quality Control Board, and Los Angeles County Department of Public Health

Date of Government Version: 01/10/2022	Source: Los Angeles County Department of Public Works
Date Data Arrived at EDR: 01/12/2022	Telephone: 626-458-6973
Date Made Active in Reports: 04/04/2022	Last EDR Contact: 01/05/2023
Number of Days to Update: 82	Next Scheduled EDR Contact: 04/24/2023
	Data Release Frequency: No Update Planned

## LOS ANGELES HM: Active & Inactive Hazardous Materials Inventory

A listing of active & inactive hazardous materials facility locations, located in the City of Los Angeles.

Date of Government Version: 08/30/2022	Source: Los Angeles Fire Department
Date Data Arrived at EDR: 09/20/2022	Telephone: 213-978-3800
Date Made Active in Reports: 12/07/2022	Last EDR Contact: 12/14/2022
Number of Days to Update: 78	Next Scheduled EDR Contact: 04/03/2023
	Data Release Frequency: Varies

## LOS ANGELES UST: Active & Inactive UST Inventory

A listing of active & inactive underground storage tank site locations and underground storage tank historical sites, located in the City of Los Angeles.

Date of Government Version: 08/30/2022	Source: Los Angeles Fire Department
Date Data Arrived at EDR: 09/20/2022	Telephone: 213-978-3800
Date Made Active in Reports: 12/08/2022	Last EDR Contact: 12/14/2022
Number of Days to Update: 79	Next Scheduled EDR Contact: 04/03/2023
	Data Release Frequency: Varies

## SITE MIT LOS ANGELES: Site Mitigation List

Industrial sites that have had some sort of spill or complaint.

Date of Government Version: 05/26/2021	Source: Community Health Services
Date Data Arrived at EDR: 07/09/2021	Telephone: 323-890-7806
Date Made Active in Reports: 09/29/2021	Last EDR Contact: 10/20/2022
Number of Days to Update: 82	Next Scheduled EDR Contact: 01/30/2023
	Data Release Frequency: Annually



# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

UST EL SEGUNDO: City of El Segundo Underground Storage Tank  
Underground storage tank sites located in El Segundo city.

Date of Government Version: 01/21/2017	Source: City of El Segundo Fire Department
Date Data Arrived at EDR: 04/19/2017	Telephone: 310-524-2236
Date Made Active in Reports: 05/10/2017	Last EDR Contact: 01/05/2023
Number of Days to Update: 21	Next Scheduled EDR Contact: 04/24/2023
	Data Release Frequency: No Update Planned

UST LONG BEACH: City of Long Beach Underground Storage Tank  
Underground storage tank sites located in the city of Long Beach.

Date of Government Version: 04/22/2019	Source: City of Long Beach Fire Department
Date Data Arrived at EDR: 04/23/2019	Telephone: 562-570-2563
Date Made Active in Reports: 06/27/2019	Last EDR Contact: 10/11/2022
Number of Days to Update: 65	Next Scheduled EDR Contact: 01/30/2023
	Data Release Frequency: Varies

UST TORRANCE: City of Torrance Underground Storage Tank  
Underground storage tank sites located in the city of Torrance.

Date of Government Version: 10/18/2022	Source: City of Torrance Fire Department
Date Data Arrived at EDR: 10/19/2022	Telephone: 310-618-2973
Date Made Active in Reports: 01/10/2023	Last EDR Contact: 01/13/2023
Number of Days to Update: 83	Next Scheduled EDR Contact: 05/01/2023
	Data Release Frequency: Semi-Annually

MADERA COUNTY:

CUPA MADERA: CUPA Facility List

A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 08/10/2020	Source: Madera County Environmental Health
Date Data Arrived at EDR: 08/12/2020	Telephone: 559-675-7823
Date Made Active in Reports: 10/23/2020	Last EDR Contact: 11/08/2022
Number of Days to Update: 72	Next Scheduled EDR Contact: 02/27/2023
	Data Release Frequency: Varies

MARIN COUNTY:

UST MARIN: Underground Storage Tank Sites  
Currently permitted USTs in Marin County.

Date of Government Version: 09/26/2018	Source: Public Works Department Waste Management
Date Data Arrived at EDR: 10/04/2018	Telephone: 415-473-6647
Date Made Active in Reports: 11/02/2018	Last EDR Contact: 12/19/2022
Number of Days to Update: 29	Next Scheduled EDR Contact: 04/10/2023
	Data Release Frequency: Semi-Annually

MENDOCINO COUNTY:

UST MENDOCINO: Mendocino County UST Database  
A listing of underground storage tank locations in Mendocino County.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 09/22/2021  
Date Data Arrived at EDR: 11/18/2021  
Date Made Active in Reports: 11/22/2021  
Number of Days to Update: 4

Source: Department of Public Health  
Telephone: 707-463-4466  
Last EDR Contact: 11/15/2022  
Next Scheduled EDR Contact: 03/06/2023  
Data Release Frequency: Annually

## MERCED COUNTY:

CUPA MERCED: CUPA Facility List  
CUPA facility list.

Date of Government Version: 02/15/2022  
Date Data Arrived at EDR: 02/17/2022  
Date Made Active in Reports: 05/11/2022  
Number of Days to Update: 83

Source: Merced County Environmental Health  
Telephone: 209-381-1094  
Last EDR Contact: 11/08/2022  
Next Scheduled EDR Contact: 02/27/2023  
Data Release Frequency: Varies

## MONO COUNTY:

CUPA MONO: CUPA Facility List  
CUPA Facility List

Date of Government Version: 02/22/2021  
Date Data Arrived at EDR: 03/02/2021  
Date Made Active in Reports: 05/19/2021  
Number of Days to Update: 78

Source: Mono County Health Department  
Telephone: 760-932-5580  
Last EDR Contact: 11/15/2022  
Next Scheduled EDR Contact: 03/06/2023  
Data Release Frequency: Varies

## MONTEREY COUNTY:

CUPA MONTEREY: CUPA Facility Listing  
CUPA Program listing from the Environmental Health Division.

Date of Government Version: 10/04/2021  
Date Data Arrived at EDR: 10/06/2021  
Date Made Active in Reports: 12/29/2021  
Number of Days to Update: 84

Source: Monterey County Health Department  
Telephone: 831-796-1297  
Last EDR Contact: 01/05/2023  
Next Scheduled EDR Contact: 04/10/2023  
Data Release Frequency: Varies

## NAPA COUNTY:

LUST NAPA: Sites With Reported Contamination  
A listing of leaking underground storage tank sites located in Napa county.

Date of Government Version: 01/09/2017  
Date Data Arrived at EDR: 01/11/2017  
Date Made Active in Reports: 03/02/2017  
Number of Days to Update: 50

Source: Napa County Department of Environmental Management  
Telephone: 707-253-4269  
Last EDR Contact: 11/15/2022  
Next Scheduled EDR Contact: 03/06/2023  
Data Release Frequency: No Update Planned

UST NAPA: Closed and Operating Underground Storage Tank Sites  
Underground storage tank sites located in Napa county.

Date of Government Version: 09/05/2019  
Date Data Arrived at EDR: 09/09/2019  
Date Made Active in Reports: 10/31/2019  
Number of Days to Update: 52

Source: Napa County Department of Environmental Management  
Telephone: 707-253-4269  
Last EDR Contact: 11/15/2022  
Next Scheduled EDR Contact: 03/06/2023  
Data Release Frequency: No Update Planned

## NEVADA COUNTY:

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## CUPA NEVADA: CUPA Facility List CUPA facility list.

Date of Government Version: 07/21/2022  
Date Data Arrived at EDR: 07/25/2022  
Date Made Active in Reports: 07/28/2022  
Number of Days to Update: 3

Source: Community Development Agency  
Telephone: 530-265-1467  
Last EDR Contact: 10/20/2022  
Next Scheduled EDR Contact: 02/06/2023  
Data Release Frequency: Varies

## ORANGE COUNTY:

### IND\_SITE ORANGE: List of Industrial Site Cleanups Petroleum and non-petroleum spills.

Date of Government Version: 05/24/2022  
Date Data Arrived at EDR: 08/09/2022  
Date Made Active in Reports: 10/28/2022  
Number of Days to Update: 80

Source: Health Care Agency  
Telephone: 714-834-3446  
Last EDR Contact: 11/03/2022  
Next Scheduled EDR Contact: 02/13/2023  
Data Release Frequency: Annually

### LUST ORANGE: List of Underground Storage Tank Cleanups Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 04/08/2022  
Date Data Arrived at EDR: 05/18/2022  
Date Made Active in Reports: 08/03/2022  
Number of Days to Update: 77

Source: Health Care Agency  
Telephone: 714-834-3446  
Last EDR Contact: 11/03/2022  
Next Scheduled EDR Contact: 02/13/2023  
Data Release Frequency: Quarterly

### UST ORANGE: List of Underground Storage Tank Facilities Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 05/24/2022  
Date Data Arrived at EDR: 08/01/2022  
Date Made Active in Reports: 10/20/2022  
Number of Days to Update: 80

Source: Health Care Agency  
Telephone: 714-834-3446  
Last EDR Contact: 11/03/2022  
Next Scheduled EDR Contact: 02/13/2023  
Data Release Frequency: Quarterly

## PLACER COUNTY:

### MS PLACER: Master List of Facilities List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 08/26/2022  
Date Data Arrived at EDR: 08/29/2022  
Date Made Active in Reports: 11/15/2022  
Number of Days to Update: 78

Source: Placer County Health and Human Services  
Telephone: 530-745-2363  
Last EDR Contact: 11/22/2022  
Next Scheduled EDR Contact: 03/13/2023  
Data Release Frequency: Semi-Annually

## PLUMAS COUNTY:

### CUPA PLUMAS: CUPA Facility List Plumas County CUPA Program facilities.

Date of Government Version: 03/31/2019  
Date Data Arrived at EDR: 04/23/2019  
Date Made Active in Reports: 06/26/2019  
Number of Days to Update: 64

Source: Plumas County Environmental Health  
Telephone: 530-283-6355  
Last EDR Contact: 01/13/2023  
Next Scheduled EDR Contact: 05/01/2023  
Data Release Frequency: Varies

## RIVERSIDE COUNTY:

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## LUST RIVERSIDE: Listing of Underground Tank Cleanup Sites

Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 09/22/2022  
Date Data Arrived at EDR: 09/26/2022  
Date Made Active in Reports: 12/09/2022  
Number of Days to Update: 74

Source: Department of Environmental Health  
Telephone: 951-358-5055  
Last EDR Contact: 12/06/2022  
Next Scheduled EDR Contact: 03/27/2023  
Data Release Frequency: Quarterly

## UST RIVERSIDE: Underground Storage Tank Tank List

Underground storage tank sites located in Riverside county.

Date of Government Version: 09/22/2022  
Date Data Arrived at EDR: 09/26/2022  
Date Made Active in Reports: 12/09/2022  
Number of Days to Update: 74

Source: Department of Environmental Health  
Telephone: 951-358-5055  
Last EDR Contact: 12/06/2022  
Next Scheduled EDR Contact: 03/27/2023  
Data Release Frequency: Quarterly

## SACRAMENTO COUNTY:

### CS SACRAMENTO: Toxic Site Clean-Up List

List of sites where unauthorized releases of potentially hazardous materials have occurred.

Date of Government Version: 06/18/2021  
Date Data Arrived at EDR: 09/28/2021  
Date Made Active in Reports: 12/14/2021  
Number of Days to Update: 77

Source: Sacramento County Environmental Management  
Telephone: 916-875-8406  
Last EDR Contact: 12/21/2022  
Next Scheduled EDR Contact: 04/10/2023  
Data Release Frequency: Quarterly

### ML SACRAMENTO: Master Hazardous Materials Facility List

Any business that has hazardous materials on site - hazardous material storage sites, underground storage tanks, waste generators.

Date of Government Version: 05/04/2022  
Date Data Arrived at EDR: 06/30/2022  
Date Made Active in Reports: 07/05/2022  
Number of Days to Update: 5

Source: Sacramento County Environmental Management  
Telephone: 916-875-8406  
Last EDR Contact: 12/09/2022  
Next Scheduled EDR Contact: 04/10/2023  
Data Release Frequency: Quarterly

## SAN BENITO COUNTY:

### CUPA SAN BENITO: CUPA Facility List

Cupa facility list

Date of Government Version: 07/27/2022  
Date Data Arrived at EDR: 07/27/2022  
Date Made Active in Reports: 10/11/2022  
Number of Days to Update: 76

Source: San Benito County Environmental Health  
Telephone: N/A  
Last EDR Contact: 10/26/2022  
Next Scheduled EDR Contact: 02/16/2023  
Data Release Frequency: Varies

## SAN BERNARDINO COUNTY:

### PERMITS SAN BERNARDINO: Hazardous Material Permits

This listing includes underground storage tanks, medical waste handlers/generators, hazardous materials handlers, hazardous waste generators, and waste oil generators/handlers.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 08/22/2022  
Date Data Arrived at EDR: 08/23/2022  
Date Made Active in Reports: 11/11/2022  
Number of Days to Update: 80

Source: San Bernardino County Fire Department Hazardous Materials Division  
Telephone: 909-387-3041  
Last EDR Contact: 10/28/2022  
Next Scheduled EDR Contact: 02/16/2023  
Data Release Frequency: Quarterly

## SAN DIEGO COUNTY:

### HMMD SAN DIEGO: Hazardous Materials Management Division Database

The database includes: HE58 - This report contains the business name, site address, business phone number, establishment 'H' permit number, type of permit, and the business status. HE17 - In addition to providing the same information provided in the HE58 listing, HE17 provides inspection dates, violations received by the establishment, hazardous waste generated, the quantity, method of storage, treatment/disposal of waste and the hauler, and information on underground storage tanks. Unauthorized Release List - Includes a summary of environmental contamination cases in San Diego County (underground tank cases, non-tank cases, groundwater contamination, and soil contamination are included.)

Date of Government Version: 08/25/2022  
Date Data Arrived at EDR: 08/25/2022  
Date Made Active in Reports: 11/15/2022  
Number of Days to Update: 82

Source: Hazardous Materials Management Division  
Telephone: 619-338-2268  
Last EDR Contact: 11/29/2022  
Next Scheduled EDR Contact: 03/13/2023  
Data Release Frequency: Quarterly

### LF SAN DIEGO: Solid Waste Facilities

San Diego County Solid Waste Facilities.

Date of Government Version: 10/27/2021  
Date Data Arrived at EDR: 03/04/2022  
Date Made Active in Reports: 05/31/2022  
Number of Days to Update: 88

Source: Department of Health Services  
Telephone: 619-338-2209  
Last EDR Contact: 01/13/2023  
Next Scheduled EDR Contact: 05/01/2023  
Data Release Frequency: Varies

### SAN DIEGO CO LOP: Local Oversight Program Listing

A listing of all LOP release sites that are or were under the County of San Diego's jurisdiction. Included are closed or transferred cases, open cases, and cases that did not have a case type indicated. The cases without a case type are mostly complaints; however, some of them could be LOP cases.

Date of Government Version: 07/22/2021  
Date Data Arrived at EDR: 10/19/2021  
Date Made Active in Reports: 01/13/2022  
Number of Days to Update: 86

Source: Department of Environmental Health  
Telephone: 858-505-6874  
Last EDR Contact: 01/13/2023  
Next Scheduled EDR Contact: 05/01/2023  
Data Release Frequency: Varies

### SAN DIEGO CO SAM: Environmental Case Listing

The listing contains all underground tank release cases and projects pertaining to properties contaminated with hazardous substances that are actively under review by the Site Assessment and Mitigation Program.

Date of Government Version: 03/23/2010  
Date Data Arrived at EDR: 06/15/2010  
Date Made Active in Reports: 07/09/2010  
Number of Days to Update: 24

Source: San Diego County Department of Environmental Health  
Telephone: 619-338-2371  
Last EDR Contact: 11/22/2022  
Next Scheduled EDR Contact: 03/13/2023  
Data Release Frequency: No Update Planned

## SAN FRANCISCO COUNTY:

CUPA SAN FRANCISCO CO: CUPA Facility Listing  
Cupa facilities

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 08/04/2022  
Date Data Arrived at EDR: 08/04/2022  
Date Made Active in Reports: 10/20/2022  
Number of Days to Update: 77

Source: San Francisco County Department of Environmental Health  
Telephone: 415-252-3896  
Last EDR Contact: 10/26/2022  
Next Scheduled EDR Contact: 02/16/2023  
Data Release Frequency: Varies

## LUST SAN FRANCISCO: Local Oversight Facilities

A listing of leaking underground storage tank sites located in San Francisco county.

Date of Government Version: 09/19/2008  
Date Data Arrived at EDR: 09/19/2008  
Date Made Active in Reports: 09/29/2008  
Number of Days to Update: 10

Source: Department Of Public Health San Francisco County  
Telephone: 415-252-3920  
Last EDR Contact: 10/26/2022  
Next Scheduled EDR Contact: 02/16/2023  
Data Release Frequency: No Update Planned

## UST SAN FRANCISCO: Underground Storage Tank Information

Underground storage tank sites located in San Francisco county.

Date of Government Version: 08/04/2022  
Date Data Arrived at EDR: 08/04/2022  
Date Made Active in Reports: 10/20/2022  
Number of Days to Update: 77

Source: Department of Public Health  
Telephone: 415-252-3920  
Last EDR Contact: 10/26/2022  
Next Scheduled EDR Contact: 02/13/2023  
Data Release Frequency: Quarterly

## SAN FRANCISCO COUNTY:

### SAN FRANCISCO MAHER: Maher Ordinance Property Listing

a listing of properties that fall within a Maher Ordinance, for all of San Francisco

Date of Government Version: 10/11/2022  
Date Data Arrived at EDR: 10/14/2022  
Date Made Active in Reports: 01/04/2023  
Number of Days to Update: 82

Source: San Francisco Planning  
Telephone: 628-652-7483  
Last EDR Contact: 01/13/2023  
Next Scheduled EDR Contact: 05/01/2023  
Data Release Frequency: Varies

## SAN JOAQUIN COUNTY:

### UST SAN JOAQUIN: San Joaquin Co. UST

A listing of underground storage tank locations in San Joaquin county.

Date of Government Version: 06/22/2018  
Date Data Arrived at EDR: 06/26/2018  
Date Made Active in Reports: 07/11/2018  
Number of Days to Update: 15

Source: Environmental Health Department  
Telephone: N/A  
Last EDR Contact: 12/06/2022  
Next Scheduled EDR Contact: 03/27/2023  
Data Release Frequency: Semi-Annually

## SAN LUIS OBISPO COUNTY:

### CUPA SAN LUIS OBISPO: CUPA Facility List Cupa Facility List.

Date of Government Version: 08/10/2022  
Date Data Arrived at EDR: 08/11/2022  
Date Made Active in Reports: 10/28/2022  
Number of Days to Update: 78

Source: San Luis Obispo County Public Health Department  
Telephone: 805-781-5596  
Last EDR Contact: 11/08/2022  
Next Scheduled EDR Contact: 02/27/2023  
Data Release Frequency: Varies

## SAN MATEO COUNTY:

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## BI SAN MATEO: Business Inventory

List includes Hazardous Materials Business Plan, hazardous waste generators, and underground storage tanks.

Date of Government Version: 02/20/2020  
Date Data Arrived at EDR: 02/20/2020  
Date Made Active in Reports: 04/24/2020  
Number of Days to Update: 64

Source: San Mateo County Environmental Health Services Division  
Telephone: 650-363-1921  
Last EDR Contact: 12/09/2022  
Next Scheduled EDR Contact: 03/20/2023  
Data Release Frequency: Annually

## LUST SAN MATEO: Fuel Leak List

A listing of leaking underground storage tank sites located in San Mateo county.

Date of Government Version: 03/29/2019  
Date Data Arrived at EDR: 03/29/2019  
Date Made Active in Reports: 05/29/2019  
Number of Days to Update: 61

Source: San Mateo County Environmental Health Services Division  
Telephone: 650-363-1921  
Last EDR Contact: 11/30/2022  
Next Scheduled EDR Contact: 03/20/2023  
Data Release Frequency: Semi-Annually

## SANTA BARBARA COUNTY:

### CUPA SANTA BARBARA: CUPA Facility Listing

CUPA Program Listing from the Environmental Health Services division.

Date of Government Version: 09/08/2011  
Date Data Arrived at EDR: 09/09/2011  
Date Made Active in Reports: 10/07/2011  
Number of Days to Update: 28

Source: Santa Barbara County Public Health Department  
Telephone: 805-686-8167  
Last EDR Contact: 11/08/2022  
Next Scheduled EDR Contact: 02/27/2023  
Data Release Frequency: No Update Planned

## SANTA CLARA COUNTY:

### CUPA SANTA CLARA: Cupa Facility List

Cupa facility list

Date of Government Version: 05/16/2022  
Date Data Arrived at EDR: 05/18/2022  
Date Made Active in Reports: 08/04/2022  
Number of Days to Update: 78

Source: Department of Environmental Health  
Telephone: 408-918-1973  
Last EDR Contact: 10/28/2022  
Next Scheduled EDR Contact: 02/27/2023  
Data Release Frequency: Varies

### HIST LUST SANTA CLARA: HIST LUST - Fuel Leak Site Activity Report

A listing of open and closed leaking underground storage tanks. This listing is no longer updated by the county. Leaking underground storage tanks are now handled by the Department of Environmental Health.

Date of Government Version: 03/29/2005  
Date Data Arrived at EDR: 03/30/2005  
Date Made Active in Reports: 04/21/2005  
Number of Days to Update: 22

Source: Santa Clara Valley Water District  
Telephone: 408-265-2600  
Last EDR Contact: 03/23/2009  
Next Scheduled EDR Contact: 06/22/2009  
Data Release Frequency: No Update Planned

### LUST SANTA CLARA: LOP Listing

A listing of leaking underground storage tanks located in Santa Clara county.

Date of Government Version: 03/03/2014  
Date Data Arrived at EDR: 03/05/2014  
Date Made Active in Reports: 03/18/2014  
Number of Days to Update: 13

Source: Department of Environmental Health  
Telephone: 408-918-3417  
Last EDR Contact: 11/15/2022  
Next Scheduled EDR Contact: 03/06/2023  
Data Release Frequency: No Update Planned

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## SAN JOSE HAZMAT: Hazardous Material Facilities

Hazardous material facilities, including underground storage tank sites.

Date of Government Version: 11/03/2020  
Date Data Arrived at EDR: 11/05/2020  
Date Made Active in Reports: 01/26/2021  
Number of Days to Update: 82

Source: City of San Jose Fire Department  
Telephone: 408-535-7694  
Last EDR Contact: 10/26/2022  
Next Scheduled EDR Contact: 02/16/2023  
Data Release Frequency: Annually

## SANTA CRUZ COUNTY:

### CUPA SANTA CRUZ: CUPA Facility List CUPA facility listing.

Date of Government Version: 01/21/2017  
Date Data Arrived at EDR: 02/22/2017  
Date Made Active in Reports: 05/23/2017  
Number of Days to Update: 90

Source: Santa Cruz County Environmental Health  
Telephone: 831-464-2761  
Last EDR Contact: 11/08/2022  
Next Scheduled EDR Contact: 02/27/2023  
Data Release Frequency: Varies

## SHASTA COUNTY:

### CUPA SHASTA: CUPA Facility List Cupa Facility List.

Date of Government Version: 06/15/2017  
Date Data Arrived at EDR: 06/19/2017  
Date Made Active in Reports: 08/09/2017  
Number of Days to Update: 51

Source: Shasta County Department of Resource Management  
Telephone: 530-225-5789  
Last EDR Contact: 11/08/2022  
Next Scheduled EDR Contact: 02/27/2023  
Data Release Frequency: Varies

## SOLANO COUNTY:

### LUST SOLANO: Leaking Underground Storage Tanks

A listing of leaking underground storage tank sites located in Solano county.

Date of Government Version: 06/04/2019  
Date Data Arrived at EDR: 06/06/2019  
Date Made Active in Reports: 08/13/2019  
Number of Days to Update: 68

Source: Solano County Department of Environmental Management  
Telephone: 707-784-6770  
Last EDR Contact: 11/22/2022  
Next Scheduled EDR Contact: 03/13/2023  
Data Release Frequency: Quarterly

### UST SOLANO: Underground Storage Tanks

Underground storage tank sites located in Solano county.

Date of Government Version: 09/15/2021  
Date Data Arrived at EDR: 09/16/2021  
Date Made Active in Reports: 12/09/2021  
Number of Days to Update: 84

Source: Solano County Department of Environmental Management  
Telephone: 707-784-6770  
Last EDR Contact: 11/22/2022  
Next Scheduled EDR Contact: 03/13/2023  
Data Release Frequency: Quarterly

## SONOMA COUNTY:

### CUPA SONOMA: Cupa Facility List Cupa Facility list



# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 07/02/2021  
Date Data Arrived at EDR: 07/06/2021  
Date Made Active in Reports: 07/14/2021  
Number of Days to Update: 8

Source: County of Sonoma Fire & Emergency Services Department  
Telephone: 707-565-1174  
Last EDR Contact: 12/13/2022  
Next Scheduled EDR Contact: 04/03/2023  
Data Release Frequency: Varies

## LUST SONOMA: Leaking Underground Storage Tank Sites

A listing of leaking underground storage tank sites located in Sonoma county.

Date of Government Version: 06/30/2021  
Date Data Arrived at EDR: 06/30/2021  
Date Made Active in Reports: 09/24/2021  
Number of Days to Update: 86

Source: Department of Health Services  
Telephone: 707-565-6565  
Last EDR Contact: 12/13/2022  
Next Scheduled EDR Contact: 04/03/2023  
Data Release Frequency: Quarterly

## STANISLAUS COUNTY:

### CUPA STANISLAUS: CUPA Facility List

Cupa facility list

Date of Government Version: 02/08/2022  
Date Data Arrived at EDR: 02/10/2022  
Date Made Active in Reports: 05/04/2022  
Number of Days to Update: 83

Source: Stanislaus County Department of Environmental Protection  
Telephone: 209-525-6751  
Last EDR Contact: 01/09/2023  
Next Scheduled EDR Contact: 04/24/2023  
Data Release Frequency: Varies

## SUTTER COUNTY:

### UST SUTTER: Underground Storage Tanks

Underground storage tank sites located in Sutter county.

Date of Government Version: 08/03/2022  
Date Data Arrived at EDR: 08/25/2022  
Date Made Active in Reports: 11/14/2022  
Number of Days to Update: 81

Source: Sutter County Environmental Health Services  
Telephone: 530-822-7500  
Last EDR Contact: 11/23/2022  
Next Scheduled EDR Contact: 03/13/2023  
Data Release Frequency: Semi-Annually

## TEHAMA COUNTY:

### CUPA TEHAMA: CUPA Facility List

Cupa facilities

Date of Government Version: 07/27/2022  
Date Data Arrived at EDR: 07/27/2022  
Date Made Active in Reports: 10/11/2022  
Number of Days to Update: 76

Source: Tehama County Department of Environmental Health  
Telephone: 530-527-8020  
Last EDR Contact: 11/08/2022  
Next Scheduled EDR Contact: 02/16/2023  
Data Release Frequency: Varies

## TRINITY COUNTY:

### CUPA TRINITY: CUPA Facility List

Cupa facility list

Date of Government Version: 10/11/2022  
Date Data Arrived at EDR: 10/12/2022  
Date Made Active in Reports: 12/29/2022  
Number of Days to Update: 78

Source: Department of Toxic Substances Control  
Telephone: 760-352-0381  
Last EDR Contact: 01/13/2023  
Next Scheduled EDR Contact: 05/01/2023  
Data Release Frequency: Varies

## TULARE COUNTY:

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## CUPA TULARE: CUPA Facility List Cupa program facilities

Date of Government Version: 10/07/2022  
Date Data Arrived at EDR: 10/07/2022  
Date Made Active in Reports: 12/21/2022  
Number of Days to Update: 75

Source: Tulare County Environmental Health Services Division  
Telephone: 559-624-7400  
Last EDR Contact: 10/05/2022  
Next Scheduled EDR Contact: 02/16/2023  
Data Release Frequency: Varies

## TUOLUMNE COUNTY:

### CUPA TUOLUMNE: CUPA Facility List Cupa facility list

Date of Government Version: 04/23/2018  
Date Data Arrived at EDR: 04/25/2018  
Date Made Active in Reports: 06/25/2018  
Number of Days to Update: 61

Source: Divison of Environmental Health  
Telephone: 209-533-5633  
Last EDR Contact: 01/13/2023  
Next Scheduled EDR Contact: 05/01/2023  
Data Release Frequency: Varies

## VENTURA COUNTY:

### BWT VENTURA: Business Plan, Hazardous Waste Producers, and Operating Underground Tanks The BWT list indicates by site address whether the Environmental Health Division has Business Plan (B), Waste Producer (W), and/or Underground Tank (T) information.

Date of Government Version: 09/26/2022  
Date Data Arrived at EDR: 10/19/2022  
Date Made Active in Reports: 01/10/2023  
Number of Days to Update: 83

Source: Ventura County Environmental Health Division  
Telephone: 805-654-2813  
Last EDR Contact: 01/17/2023  
Next Scheduled EDR Contact: 05/01/2023  
Data Release Frequency: Quarterly

### LF VENTURA: Inventory of Illegal Abandoned and Inactive Sites Ventura County Inventory of Closed, Illegal Abandoned, and Inactive Sites.

Date of Government Version: 12/01/2011  
Date Data Arrived at EDR: 12/01/2011  
Date Made Active in Reports: 01/19/2012  
Number of Days to Update: 49

Source: Environmental Health Division  
Telephone: 805-654-2813  
Last EDR Contact: 12/19/2022  
Next Scheduled EDR Contact: 04/10/2023  
Data Release Frequency: No Update Planned

### LUST VENTURA: Listing of Underground Tank Cleanup Sites Ventura County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 05/29/2008  
Date Data Arrived at EDR: 06/24/2008  
Date Made Active in Reports: 07/31/2008  
Number of Days to Update: 37

Source: Environmental Health Division  
Telephone: 805-654-2813  
Last EDR Contact: 11/01/2022  
Next Scheduled EDR Contact: 02/20/2023  
Data Release Frequency: No Update Planned

### MED WASTE VENTURA: Medical Waste Program List To protect public health and safety and the environment from potential exposure to disease causing agents, the Environmental Health Division Medical Waste Program regulates the generation, handling, storage, treatment and disposal of medical waste throughout the County.

Date of Government Version: 09/26/2022  
Date Data Arrived at EDR: 10/20/2022  
Date Made Active in Reports: 01/10/2023  
Number of Days to Update: 82

Source: Ventura County Resource Management Agency  
Telephone: 805-654-2813  
Last EDR Contact: 01/17/2023  
Next Scheduled EDR Contact: 05/01/2023  
Data Release Frequency: Quarterly

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## UST VENTURA: Underground Tank Closed Sites List

Ventura County Operating Underground Storage Tank Sites (UST)/Underground Tank Closed Sites List.

Date of Government Version: 08/29/2022	Source: Environmental Health Division
Date Data Arrived at EDR: 08/31/2022	Telephone: 805-654-2813
Date Made Active in Reports: 11/21/2022	Last EDR Contact: 12/02/2022
Number of Days to Update: 82	Next Scheduled EDR Contact: 03/20/2023
	Data Release Frequency: Quarterly

## YOLO COUNTY:

### UST YOLO: Underground Storage Tank Comprehensive Facility Report

Underground storage tank sites located in Yolo county.

Date of Government Version: 09/21/2022	Source: Yolo County Department of Health
Date Data Arrived at EDR: 09/30/2022	Telephone: 530-666-8646
Date Made Active in Reports: 12/14/2022	Last EDR Contact: 12/19/2022
Number of Days to Update: 75	Next Scheduled EDR Contact: 04/10/2023
	Data Release Frequency: Annually

## YUBA COUNTY:

### CUPA YUBA: CUPA Facility List

CUPA facility listing for Yuba County.

Date of Government Version: 10/25/2022	Source: Yuba County Environmental Health Department
Date Data Arrived at EDR: 10/26/2022	Telephone: 530-749-7523
Date Made Active in Reports: 10/31/2022	Last EDR Contact: 10/20/2022
Number of Days to Update: 5	Next Scheduled EDR Contact: 02/06/2023
	Data Release Frequency: Varies

## OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

### CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 08/08/2022	Source: Department of Energy & Environmental Protection
Date Data Arrived at EDR: 08/08/2022	Telephone: 860-424-3375
Date Made Active in Reports: 10/21/2022	Last EDR Contact: 11/16/2022
Number of Days to Update: 74	Next Scheduled EDR Contact: 02/20/2023
	Data Release Frequency: No Update Planned

### NJ MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2018	Source: Department of Environmental Protection
Date Data Arrived at EDR: 04/10/2019	Telephone: N/A
Date Made Active in Reports: 05/16/2019	Last EDR Contact: 12/28/2022
Number of Days to Update: 36	Next Scheduled EDR Contact: 04/17/2023
	Data Release Frequency: Annually

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 01/01/2019  
Date Data Arrived at EDR: 10/29/2021  
Date Made Active in Reports: 01/19/2022  
Number of Days to Update: 82

Source: Department of Environmental Conservation  
Telephone: 518-402-8651  
Last EDR Contact: 10/28/2022  
Next Scheduled EDR Contact: 02/06/2023  
Data Release Frequency: Quarterly

## PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 06/30/2018  
Date Data Arrived at EDR: 07/19/2019  
Date Made Active in Reports: 09/10/2019  
Number of Days to Update: 53

Source: Department of Environmental Protection  
Telephone: 717-783-8990  
Last EDR Contact: 01/06/2023  
Next Scheduled EDR Contact: 04/24/2023  
Data Release Frequency: Annually

## RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 12/31/2018  
Date Data Arrived at EDR: 11/30/2021  
Date Made Active in Reports: 02/18/2022  
Number of Days to Update: 80

Source: Department of Environmental Management  
Telephone: 401-222-2797  
Last EDR Contact: 12/20/2022  
Next Scheduled EDR Contact: 02/27/2023  
Data Release Frequency: Annually

## WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 05/31/2018  
Date Data Arrived at EDR: 06/19/2019  
Date Made Active in Reports: 09/03/2019  
Number of Days to Update: 76

Source: Department of Natural Resources  
Telephone: N/A  
Last EDR Contact: 12/01/2022  
Next Scheduled EDR Contact: 03/20/2023  
Data Release Frequency: Annually

## Oil/Gas Pipelines

Source: Endeavor Business Media

Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by Endeavor Business Media. This information is provided on a best effort basis and Endeavor Business Media does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of Endeavor Business Media.

## Electric Power Transmission Line Data

Source: Endeavor Business Media

This map includes information copyrighted by Endeavor Business Media. This information is provided on a best effort basis and Endeavor Business Media does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of Endeavor Business Media.

**Sensitive Receptors:** There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

## AHA Hospitals:

Source: American Hospital Association, Inc.  
Telephone: 312-280-5991

The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

## Medical Centers: Provider of Services Listing

Source: Centers for Medicare & Medicaid Services  
Telephone: 410-786-3000

A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## Nursing Homes

Source: National Institutes of Health

Telephone: 301-594-6248

Information on Medicare and Medicaid certified nursing homes in the United States.

## Public Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

## Private Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on private school locations in the United States.

## Daycare Centers: Licensed Facilities

Source: Department of Social Services

Telephone: 916-657-4041

**Flood Zone Data:** This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.

Source: FEMA

Telephone: 877-336-2627

Date of Government Version: 2003, 2015

**NWI:** National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005, 2010 and 2015 from the U.S. Fish and Wildlife Service.

## State Wetlands Data: Wetland Inventory

Source: Department of Fish and Wildlife

Telephone: 916-445-0411

## Current USGS 7.5 Minute Topographic Map

Source: U.S. Geological Survey

## **STREET AND ADDRESS INFORMATION**

Â© 2015 TomTom North America, Inc. All rights reserved. This material is proprietary and the subject of copyright protection and other intellectual property rights owned by or licensed to Tele Atlas North America, Inc. The use of this material is subject to the terms of a license agreement. You will be held liable for any unauthorized copying or disclosure of this material.

## GEOCHECK® - PHYSICAL SETTING SOURCE ADDENDUM

### TARGET PROPERTY ADDRESS

3705 HAVEN AVENUE  
3705 HAVEN AVENUE  
MENLO PARK, CA 94025

### TARGET PROPERTY COORDINATES

Latitude (North):	37.485554 - 37° 29' 7.99"
Longitude (West):	122.182229 - 122° 10' 56.02"
Universal Transverse Mercator:	Zone 10
UTM X (Meters):	572299.2
UTM Y (Meters):	4148848.2
Elevation:	10 ft. above sea level

### USGS TOPOGRAPHIC MAP

Target Property Map:	12016467 PALO ALTO, CA
Version Date:	2018
North Map:	12016475 REDWOOD POINT, CA
Version Date:	2018

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

## GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

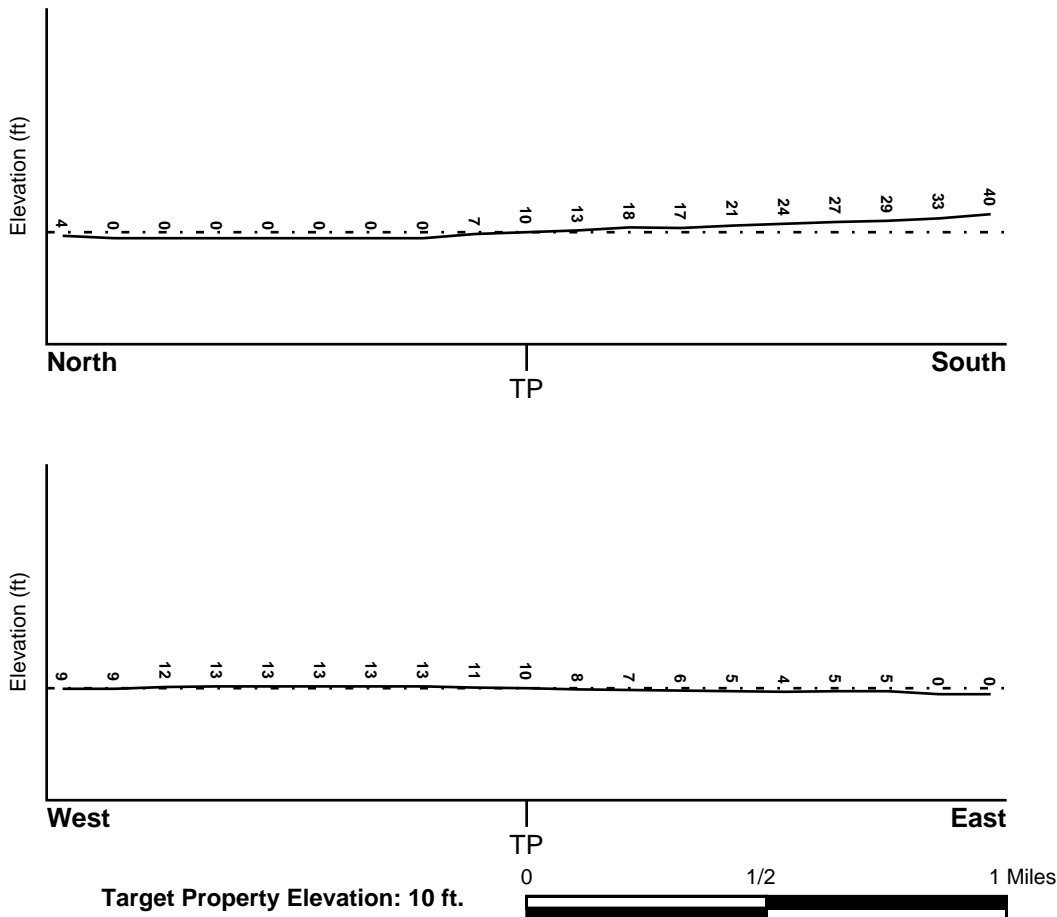
## TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

## TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General NNE

## SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

## HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

## FEMA FLOOD ZONE

<u>Flood Plain Panel at Target Property</u>	<u>FEMA Source Type</u>
06081C0306E	FEMA FIRM Flood data
<u>Additional Panels in search area:</u>	<u>FEMA Source Type</u>
06081C0195E	FEMA FIRM Flood data
06081C0302E	FEMA FIRM Flood data

## NATIONAL WETLAND INVENTORY

<u>NWI Quad at Target Property</u>	<u>NWI Electronic Data Coverage</u>
PALO ALTO	YES - refer to the Overview Map and Detail Map

## HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

### **Site-Specific Hydrogeological Data\*:**

Search Radius:	1.25 miles
Status:	Not found

## AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

<u>MAP ID</u>	<u>LOCATION FROM TP</u>	<u>GENERAL DIRECTION GROUNDWATER FLOW</u>
A1	0 - 1/8 Mile ESE	NNW
7	1/8 - 1/4 Mile West	Not Reported
12	1/4 - 1/2 Mile East	NNW
14	1/4 - 1/2 Mile West	Not Reported
E34	1/4 - 1/2 Mile SSE	Not Reported
E36	1/4 - 1/2 Mile SSE	NE
F37	1/4 - 1/2 Mile SSW	N

\* ©1996 Site-specific hydrogeological data gathered by CERCLIS Alerts, Inc., Bainbridge Island, WA. All rights reserved. All of the information and opinions presented are those of the cited EPA report(s), which were completed under a Comprehensive Environmental Response Compensation and Liability Information System (CERCLIS) investigation.



## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

<u>MAP ID</u>	<u>LOCATION FROM TP</u>	<u>GENERAL DIRECTION GROUNDWATER FLOW</u>
F38	1/4 - 1/2 Mile SSW	NE
F40	1/4 - 1/2 Mile SSW	NE
42	1/4 - 1/2 Mile SE	NE, Flat
44	1/4 - 1/2 Mile South	Not Reported
45	1/2 - 1 Mile SE	WSW
G49	1/2 - 1 Mile SSW	N
H61	1/2 - 1 Mile SSW	NNE
I62	1/2 - 1 Mile West	NW
I64	1/2 - 1 Mile West	NW
L69	1/2 - 1 Mile SSW	Not Reported
L70	1/2 - 1 Mile SSW	Not Reported
M75	1/2 - 1 Mile SSW	Not Reported
M76	1/2 - 1 Mile SSW	Not Reported
86	1/2 - 1 Mile WSW	Not Reported
89	1/2 - 1 Mile West	W
1G	1/2 - 1 Mile West	W
2G	1/2 - 1 Mile West	NW
3G	1/2 - 1 Mile West	NW
4G	1/4 - 1/2 Mile West	Not Reported
5G	1/8 - 1/4 Mile West	Not Reported
6G	0 - 1/8 Mile ESE	NNW
7G	1/4 - 1/2 Mile East	NNW
8G	1/4 - 1/2 Mile SE	NE, Flat
9G	1/2 - 1 Mile SE	WSW
10G	1/4 - 1/2 Mile SSE	NE
11G	1/2 - 1 Mile WSW	Not Reported
12G	1/4 - 1/2 Mile SSE	Not Reported
13G	1/4 - 1/2 Mile SSW	N
14G	1/4 - 1/2 Mile SSW	NE
15G	1/4 - 1/2 Mile SSW	NE
16G	1/4 - 1/2 Mile South	Not Reported
17G	1/2 - 1 Mile SSW	N
18G	1/2 - 1 Mile SSW	Not Reported
19G	1/2 - 1 Mile SSW	Not Reported
20G	1/2 - 1 Mile SSW	NNE
21G	1/2 - 1 Mile SSW	Not Reported
22G	1/2 - 1 Mile SSW	Not Reported

For additional site information, refer to Physical Setting Source Map Findings.

## **GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY**

### **GROUNDWATER FLOW VELOCITY INFORMATION**

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

### **GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY**

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

#### **ROCK STRATIGRAPHIC UNIT**

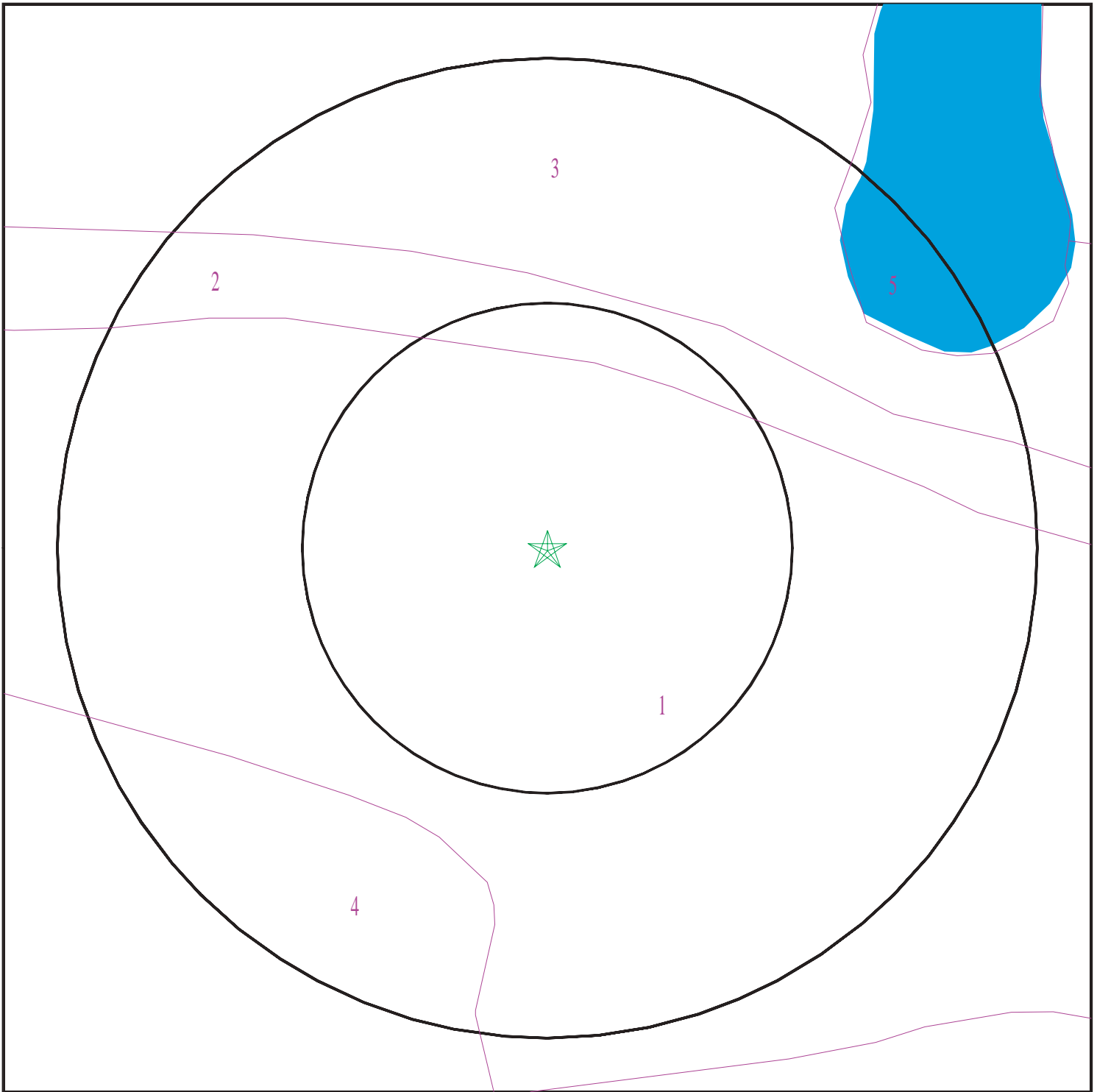
Era:	Cenozoic
System:	Quaternary
Series:	Quaternary
Code:	Q ( <i>decoded above as Era, System &amp; Series</i> )

#### **GEOLOGIC AGE IDENTIFICATION**

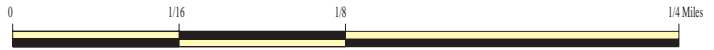
Category: Stratified Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

# SSURGO SOIL MAP - 7227915.2s



- ★ Target Property
- ∩ SSURGO Soil
- ∩ Water



SITE NAME: 3705 Haven Avenue  
ADDRESS: 3705 Haven Avenue  
Menlo Park CA 94025  
LAT/LONG: 37.485554 / 122.182229

CLIENT: Stantec  
CONTACT: Jennifer Alvarado  
INQUIRY #: 7227915.2s  
DATE: January 18, 2023 2:33 pm

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

## DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

### Soil Map ID: 1

Soil Component Name: Urban land

Soil Surface Texture: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.  
 Hydrologic Group:

Soil Drainage Class: Partially hydric  
 Hydric Status:

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	5 inches		Not reported	Not reported	Max: 0.01 Min: 0	Max: Min:

### Soil Map ID: 2

Soil Component Name: Novato

Soil Surface Texture: clay

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class: Very poorly drained

Hydric Status: All hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	16 inches	clay	Not reported	Not reported	Max: 1.4 Min: 0.42	Max: 9 Min: 7.9
2	16 inches	59 inches	clay	Not reported	Not reported	Max: 1.4 Min: 0.42	Max: 9 Min: 7.9

### Soil Map ID: 3

Soil Component Name: Novato

Soil Surface Texture: clay

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class: Very poorly drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	16 inches	clay	Not reported	Not reported	Max: 1.4 Min: 0.42	Max: 9 Min: 7.9
2	16 inches	59 inches	clay	Not reported	Not reported	Max: 1.4 Min: 0.42	Max: 9 Min: 7.9

### Soil Map ID: 4

Soil Component Name: Urban land

Soil Surface Texture:

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class:

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	5 inches		Not reported	Not reported	Max: 0.01 Min: 0	Max: Min:

### Soil Map ID: 5

Soil Component Name: Water

Soil Surface Texture:  
Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class:  
Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

No Layer Information available.

### LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

## WELL SEARCH DISTANCE INFORMATION

<u>DATABASE</u>	<u>SEARCH DISTANCE (miles)</u>
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

## **FEDERAL USGS WELL INFORMATION**

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
46	USGS40000183433	1/2 - 1 Mile West
47	USGS40000183400	1/2 - 1 Mile South
51	USGS40000183434	1/2 - 1 Mile West
63	USGS40000183394	1/2 - 1 Mile SSE

## **FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION**

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
No PWS System Found		

Note: PWS System location is not always the same as well location.

## **STATE DATABASE WELL INFORMATION**

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
2	CAEDF0000083265	0 - 1/8 Mile NE
A3	CAEDF0000130952	0 - 1/8 Mile NE
4	CAEDF0000020318	1/8 - 1/4 Mile ENE
B5	CAEDF0000139693	1/8 - 1/4 Mile NNW
B6	CAEDF0000005255	1/8 - 1/4 Mile NNW
C8	CAEDF0000000832	1/4 - 1/2 Mile SSE
C9	CAEDF0000069193	1/4 - 1/2 Mile South
10	CAEDF0000042643	1/4 - 1/2 Mile South
C11	CAEDF0000064874	1/4 - 1/2 Mile SSE
D13	CAEDF0000100589	1/4 - 1/2 Mile SSW
D15	CAEDF0000116486	1/4 - 1/2 Mile SSW
D16	CAEDF0000051162	1/4 - 1/2 Mile South
D17	CAEDF0000088930	1/4 - 1/2 Mile SSW
D18	CAEDF0000017114	1/4 - 1/2 Mile SSW
D19	CAEDF0000097695	1/4 - 1/2 Mile SSW
C20	CAEDF0000008607	1/4 - 1/2 Mile SSE
C21	CAEDF0000013757	1/4 - 1/2 Mile SSE
D22	CAEDF0000012643	1/4 - 1/2 Mile SSW
D23	CAEDF0000060864	1/4 - 1/2 Mile SSW
E24	CAEDF0000071377	1/4 - 1/2 Mile SSE
E25	CAEDF0000017482	1/4 - 1/2 Mile SSE
E26	CAEDF0000020433	1/4 - 1/2 Mile SSE

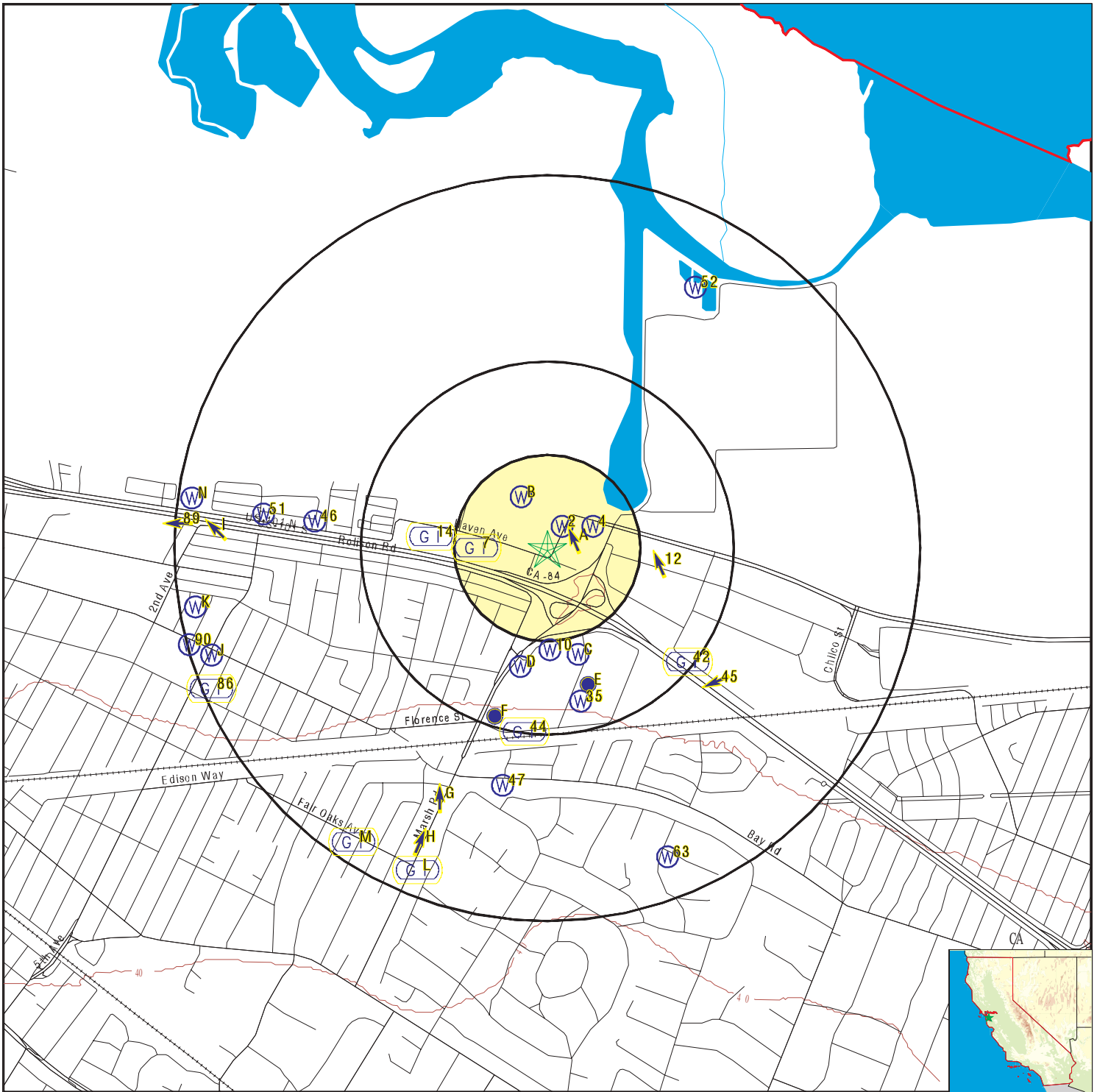
# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

## STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
E27	CAEDF0000042897	1/4 - 1/2 Mile SSE
E28	CAEDF0000052518	1/4 - 1/2 Mile SSE
E29	CAEDF0000010640	1/4 - 1/2 Mile SSE
E30	CAEDF0000031823	1/4 - 1/2 Mile SSE
E31	CAEDF0000103702	1/4 - 1/2 Mile SSE
E32	CAEDF0000091534	1/4 - 1/2 Mile SSE
E33	CAEDF0000055814	1/4 - 1/2 Mile SSE
35	CAEDF0000122438	1/4 - 1/2 Mile SSE
F39	CAEDF0000017784	1/4 - 1/2 Mile SSW
F41	CAEDF0000023177	1/4 - 1/2 Mile SSW
F43	CAEDF0000118318	1/4 - 1/2 Mile SSW
G48	CAEDF0000086100	1/2 - 1 Mile SSW
G50	CAEDF0000079275	1/2 - 1 Mile SSW
52	CADWR9000036012	1/2 - 1 Mile NNE
H53	CAEDF0000086339	1/2 - 1 Mile SSW
H54	CAEDF0000074946	1/2 - 1 Mile SSW
H55	CAEDF0000059756	1/2 - 1 Mile SSW
H56	CAEDF0000048138	1/2 - 1 Mile SSW
H57	CAEDF0000018556	1/2 - 1 Mile SSW
H58	CAEDF0000002366	1/2 - 1 Mile SSW
H59	CAEDF0000087853	1/2 - 1 Mile SSW
H60	CAEDF0000062479	1/2 - 1 Mile SSW
J65	CAEDF0000118182	1/2 - 1 Mile WSW
K66	CAEDF0000107982	1/2 - 1 Mile West
J67	CAEDF0000033527	1/2 - 1 Mile WSW
J68	CAEDF0000054871	1/2 - 1 Mile WSW
J71	CAEDF0000011877	1/2 - 1 Mile WSW
J72	CAEDF0000022164	1/2 - 1 Mile WSW
J73	CAEDF0000053046	1/2 - 1 Mile WSW
J74	CAEDF0000020345	1/2 - 1 Mile WSW
J77	CAEDF0000106410	1/2 - 1 Mile WSW
J78	CAEDF0000002342	1/2 - 1 Mile WSW
K79	CAEDF0000089432	1/2 - 1 Mile West
J80	CAEDF0000064860	1/2 - 1 Mile WSW
N81	CAEDF0000082549	1/2 - 1 Mile West
N82	CAEDF0000055207	1/2 - 1 Mile West
N83	CAEDF0000092254	1/2 - 1 Mile West
N84	CAEDF0000012386	1/2 - 1 Mile West
J85	CAEDF0000053205	1/2 - 1 Mile WSW
J87	CAEDF0000089111	1/2 - 1 Mile WSW
K88	CAEDF0000066487	1/2 - 1 Mile West
90	CAEDF0000101184	1/2 - 1 Mile WSW



# PHYSICAL SETTING SOURCE MAP - 7227915.2s



- County Boundary
- Major Roads
- Contour Lines
- Earthquake Fault Lines
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons



- Groundwater Flow Direction
- Indeterminate Groundwater Flow at Location
- Groundwater Flow Varies at Location
- Closest Hydrogeological Data
- Oil, gas or related wells



SITE NAME: 3705 Haven Avenue  
 ADDRESS: 3705 Haven Avenue  
 Menlo Park CA 94025  
 LAT/LONG: 37.485554 / 122.182229

CLIENT: Stantec  
 CONTACT: Jennifer Alvarado  
 INQUIRY #: 7227915.2s  
 DATE: January 18, 2023 2:32 pm

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database      EDR ID Number

**A1**  
**ESE**  
**0 - 1/8 Mile**  
**Higher**

Site ID:                      41-0110  
Groundwater Flow:        NNW  
Shallow Water Depth:     5.0  
Deep Water Depth:        7.0  
Average Water Depth:     Not Reported  
Date:                         03/31/1995

**AQUIFLOW      64401**

**2**  
**NE**  
**0 - 1/8 Mile**  
**Lower**

Well ID:                      SL18322742-MW-6B                      Well Type:                      MONITORING  
Source:                        EDF    Other Name:                      MW-6B  
GAMA PFAS Testing:        Not Reported  
Groundwater Quality Data: [https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp\\_date=&global\\_id=SL18322742&assigned\\_name=MW-6B&store\\_num=](https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=SL18322742&assigned_name=MW-6B&store_num=)  
GeoTracker Data:            [https://geotracker.waterboards.ca.gov/profile\\_report.asp?cmd=MWEDFResults&global\\_id=SL18322742&assigned\\_name=MW-6B](https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=SL18322742&assigned_name=MW-6B)

**CA WELLS      CAEDF0000083265**

**A3**  
**NE**  
**0 - 1/8 Mile**  
**Lower**

Well ID:                      SL18322742-MW-FE1B                      Well Type:                      MONITORING  
Source:                        EDF    Other Name:                      MW-FE1B  
GAMA PFAS Testing:        Not Reported  
Groundwater Quality Data: [https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp\\_date=&global\\_id=SL18322742&assigned\\_name=MW-FE1B&store\\_num=](https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=SL18322742&assigned_name=MW-FE1B&store_num=)  
GeoTracker Data:            [https://geotracker.waterboards.ca.gov/profile\\_report.asp?cmd=MWEDFResults&global\\_id=SL18322742&assigned\\_name=MW-FE1B](https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=SL18322742&assigned_name=MW-FE1B)

**CA WELLS      CAEDF0000130952**

**4**  
**ENE**  
**1/8 - 1/4 Mile**  
**Lower**

Well ID:                      SL18322742-MW-FE2B                      Well Type:                      MONITORING  
Source:                        EDF    Other Name:                      MW-FE2B  
GAMA PFAS Testing:        Not Reported  
Groundwater Quality Data: [https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp\\_date=&global\\_id=SL18322742&assigned\\_name=MW-FE2B&store\\_num=](https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=SL18322742&assigned_name=MW-FE2B&store_num=)  
GeoTracker Data:            [https://geotracker.waterboards.ca.gov/profile\\_report.asp?cmd=MWEDFResults&global\\_id=SL18322742&assigned\\_name=MW-FE2B](https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=SL18322742&assigned_name=MW-FE2B)

**CA WELLS      CAEDF0000020318**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database      EDR ID Number

**B5**  
**NNW**  
**1/8 - 1/4 Mile**  
**Higher**

**CA WELLS      CAEDF0000139693**

Well ID:	SL0608127363-FHW-2	Well Type:	MONITORING
Source:	EDF	Other Name:	FHW-2
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=SL0608127363&assigned_name=FHW-2&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=SL0608127363&assigned_name=FHW-2		

**B6**  
**NNW**  
**1/8 - 1/4 Mile**  
**Higher**

**CA WELLS      CAEDF0000005255**

Well ID:	SL0608127363-FHW-1	Well Type:	MONITORING
Source:	EDF	Other Name:	FHW-1
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=SL0608127363&assigned_name=FHW-1&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=SL0608127363&assigned_name=FHW-1		

**7**  
**West**  
**1/8 - 1/4 Mile**  
**Higher**

**AQUIFLOW      67035**

Site ID:	41-0158
Groundwater Flow:	Not Reported
Shallow Water Depth:	Not Reported
Deep Water Depth:	Not Reported
Average Water Depth:	6a
Date:	06/08/1992

**C8**  
**SSE**  
**1/4 - 1/2 Mile**  
**Higher**

**CA WELLS      CAEDF0000000832**

Well ID:	T10000003488-MW-2	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-2
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T10000003488&assigned_name=MW-2&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T10000003488&assigned_name=MW-2		

**C9**  
**South**  
**1/4 - 1/2 Mile**  
**Higher**

**CA WELLS      CAEDF0000069193**

Well ID:	T10000003488-MW-7	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-7

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

GAMA PFAS Testing: Not Reported  
 Groundwater Quality Data: [https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp\\_date=&global\\_id=T10000003488&assigned\\_name=MW-7&store\\_num=](https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T10000003488&assigned_name=MW-7&store_num=)  
 GeoTracker Data: [https://geotracker.waterboards.ca.gov/profile\\_report.asp?cmd=MWEDFResults&global\\_id=T10000003488&assigned\\_name=MW-7](https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T10000003488&assigned_name=MW-7)

**10  
South  
1/4 - 1/2 Mile  
Higher**

**CA WELLS      CAEDF0000042643**

Well ID: T10000003488-MW-6      Well Type: MONITORING  
 Source: EDF      Other Name: MW-6  
 GAMA PFAS Testing: Not Reported  
 Groundwater Quality Data: [https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp\\_date=&global\\_id=T10000003488&assigned\\_name=MW-6&store\\_num=](https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T10000003488&assigned_name=MW-6&store_num=)  
 GeoTracker Data: [https://geotracker.waterboards.ca.gov/profile\\_report.asp?cmd=MWEDFResults&global\\_id=T10000003488&assigned\\_name=MW-6](https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T10000003488&assigned_name=MW-6)

**C11  
SSE  
1/4 - 1/2 Mile  
Higher**

**CA WELLS      CAEDF0000064874**

Well ID: T10000003488-MW-4      Well Type: MONITORING  
 Source: EDF      Other Name: MW-4  
 GAMA PFAS Testing: Not Reported  
 Groundwater Quality Data: [https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp\\_date=&global\\_id=T10000003488&assigned\\_name=MW-4&store\\_num=](https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T10000003488&assigned_name=MW-4&store_num=)  
 GeoTracker Data: [https://geotracker.waterboards.ca.gov/profile\\_report.asp?cmd=MWEDFResults&global\\_id=T10000003488&assigned\\_name=MW-4](https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T10000003488&assigned_name=MW-4)

**12  
East  
1/4 - 1/2 Mile  
Lower**

Site ID:	440042		
Groundwater Flow:	NNW	<b>AQUIFLOW</b>	<b>64465</b>
Shallow Water Depth:	3.78		
Deep Water Depth:	4.72		
Average Water Depth:	Not Reported		
Date:	04/22/1994		

**D13  
SSW  
1/4 - 1/2 Mile  
Higher**

**CA WELLS      CAEDF0000100589**

Well ID: T0608100334-MW-6      Well Type: MONITORING  
 Source: EDF      Other Name: MW-6  
 GAMA PFAS Testing: Not Reported  
 Groundwater Quality Data: [https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp\\_date=&global\\_id=T0608100334&assigned\\_name=MW-6&store\\_num=](https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0608100334&assigned_name=MW-6&store_num=)  
 GeoTracker Data: [https://geotracker.waterboards.ca.gov/profile\\_report.asp?cmd=MWEDFResults&global\\_id=T0608100334&assigned\\_name=MW-6](https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0608100334&assigned_name=MW-6)

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database      EDR ID Number

**14  
West  
1/4 - 1/2 Mile  
Higher**

Site ID: 440031  
Groundwater Flow: Not Reported  
Shallow Water Depth: 4.5  
Deep Water Depth: 5.0  
Average Water Depth: Not Reported  
Date: 11/26/1990

**AQUIFLOW      64422**

**D15  
SSW  
1/4 - 1/2 Mile  
Higher**

**CA WELLS      CAEDF0000116486**

Well ID: T0608100334-MW-7      Well Type: MONITORING  
Source: EDF      Other Name: MW-7  
GAMA PFAS Testing: Not Reported  
Groundwater Quality Data: [https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp\\_date=&global\\_id=T0608100334&assigned\\_name=MW-7&store\\_num=](https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0608100334&assigned_name=MW-7&store_num=)  
GeoTracker Data: [https://geotracker.waterboards.ca.gov/profile\\_report.asp?cmd=MWEDFResults&global\\_id=T0608100334&assigned\\_name=MW-7](https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0608100334&assigned_name=MW-7)

**D16  
South  
1/4 - 1/2 Mile  
Higher**

**CA WELLS      CAEDF0000051162**

Well ID: T0608100334-MW-9      Well Type: MONITORING  
Source: EDF      Other Name: MW-9  
GAMA PFAS Testing: Not Reported  
Groundwater Quality Data: [https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp\\_date=&global\\_id=T0608100334&assigned\\_name=MW-9&store\\_num=](https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0608100334&assigned_name=MW-9&store_num=)  
GeoTracker Data: [https://geotracker.waterboards.ca.gov/profile\\_report.asp?cmd=MWEDFResults&global\\_id=T0608100334&assigned\\_name=MW-9](https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0608100334&assigned_name=MW-9)

**D17  
SSW  
1/4 - 1/2 Mile  
Higher**

**CA WELLS      CAEDF0000088930**

Well ID: T0608100334-MW-2      Well Type: MONITORING  
Source: EDF      Other Name: MW-2  
GAMA PFAS Testing: Not Reported  
Groundwater Quality Data: [https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp\\_date=&global\\_id=T0608100334&assigned\\_name=MW-2&store\\_num=](https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0608100334&assigned_name=MW-2&store_num=)  
GeoTracker Data: [https://geotracker.waterboards.ca.gov/profile\\_report.asp?cmd=MWEDFResults&global\\_id=T0608100334&assigned\\_name=MW-2](https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0608100334&assigned_name=MW-2)

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database      EDR ID Number

**D18**  
**SSW**  
**1/4 - 1/2 Mile**  
**Higher**

**CA WELLS      CAEDF0000017114**

Well ID:	T0608100334-MW-4	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-4
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	<a href="https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&amp;samp_date=&amp;global_id=T0608100334&amp;assigned_name=MW-4&amp;store_num=">https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&amp;samp_date=&amp;global_id=T0608100334&amp;assigned_name=MW-4&amp;store_num=</a>		
GeoTracker Data:	<a href="https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&amp;global_id=T0608100334&amp;assigned_name=MW-4">https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&amp;global_id=T0608100334&amp;assigned_name=MW-4</a>		

**D19**  
**SSW**  
**1/4 - 1/2 Mile**  
**Higher**

**CA WELLS      CAEDF0000097695**

Well ID:	T0608100334-MW-3	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-3
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	<a href="https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&amp;samp_date=&amp;global_id=T0608100334&amp;assigned_name=MW-3&amp;store_num=">https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&amp;samp_date=&amp;global_id=T0608100334&amp;assigned_name=MW-3&amp;store_num=</a>		
GeoTracker Data:	<a href="https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&amp;global_id=T0608100334&amp;assigned_name=MW-3">https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&amp;global_id=T0608100334&amp;assigned_name=MW-3</a>		

**C20**  
**SSE**  
**1/4 - 1/2 Mile**  
**Higher**

**CA WELLS      CAEDF0000008607**

Well ID:	T0608126742-MW-5	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-5
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	<a href="https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&amp;samp_date=&amp;global_id=T0608126742&amp;assigned_name=MW-5&amp;store_num=">https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&amp;samp_date=&amp;global_id=T0608126742&amp;assigned_name=MW-5&amp;store_num=</a>		
GeoTracker Data:	<a href="https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&amp;global_id=T0608126742&amp;assigned_name=MW-5">https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&amp;global_id=T0608126742&amp;assigned_name=MW-5</a>		

**C21**  
**SSE**  
**1/4 - 1/2 Mile**  
**Higher**

**CA WELLS      CAEDF0000013757**

Well ID:	T0608126742-MW-5A	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-5A
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	<a href="https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&amp;samp_date=&amp;global_id=T0608126742&amp;assigned_name=MW-5A&amp;store_num=">https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&amp;samp_date=&amp;global_id=T0608126742&amp;assigned_name=MW-5A&amp;store_num=</a>		
GeoTracker Data:	<a href="https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&amp;global_id=T0608126742&amp;assigned_name=MW-5A">https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&amp;global_id=T0608126742&amp;assigned_name=MW-5A</a>		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database      EDR ID Number

**D22**  
**SSW**  
**1/4 - 1/2 Mile**  
**Higher**

**CA WELLS      CAEDF0000012643**

Well ID:	T0608100334-MW-5	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-5
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	<a href="https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&amp;samp_date=&amp;global_id=T0608100334&amp;assigned_name=MW-5&amp;store_num=">https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&amp;samp_date=&amp;global_id=T0608100334&amp;assigned_name=MW-5&amp;store_num=</a>		
GeoTracker Data:	<a href="https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&amp;global_id=T0608100334&amp;assigned_name=MW-5">https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&amp;global_id=T0608100334&amp;assigned_name=MW-5</a>		

**D23**  
**SSW**  
**1/4 - 1/2 Mile**  
**Higher**

**CA WELLS      CAEDF0000060864**

Well ID:	T0608100334-MW-1	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-1
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	<a href="https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&amp;samp_date=&amp;global_id=T0608100334&amp;assigned_name=MW-1&amp;store_num=">https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&amp;samp_date=&amp;global_id=T0608100334&amp;assigned_name=MW-1&amp;store_num=</a>		
GeoTracker Data:	<a href="https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&amp;global_id=T0608100334&amp;assigned_name=MW-1">https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&amp;global_id=T0608100334&amp;assigned_name=MW-1</a>		

**E24**  
**SSE**  
**1/4 - 1/2 Mile**  
**Higher**

**CA WELLS      CAEDF0000071377**

Well ID:	T0608126742-MW-6	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-6
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	<a href="https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&amp;samp_date=&amp;global_id=T0608126742&amp;assigned_name=MW-6&amp;store_num=">https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&amp;samp_date=&amp;global_id=T0608126742&amp;assigned_name=MW-6&amp;store_num=</a>		
GeoTracker Data:	<a href="https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&amp;global_id=T0608126742&amp;assigned_name=MW-6">https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&amp;global_id=T0608126742&amp;assigned_name=MW-6</a>		

**E25**  
**SSE**  
**1/4 - 1/2 Mile**  
**Higher**

**CA WELLS      CAEDF0000017482**

Well ID:	T0608126742-MW-4	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-4
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	<a href="https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&amp;samp_date=&amp;global_id=T0608126742&amp;assigned_name=MW-4&amp;store_num=">https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&amp;samp_date=&amp;global_id=T0608126742&amp;assigned_name=MW-4&amp;store_num=</a>		
GeoTracker Data:	<a href="https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&amp;global_id=T0608126742&amp;assigned_name=MW-4">https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&amp;global_id=T0608126742&amp;assigned_name=MW-4</a>		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database      EDR ID Number

**E26**  
**SSE**  
**1/4 - 1/2 Mile**  
**Higher**

**CA WELLS      CAEDF0000020433**

Well ID:	T0608126742-MW-4A	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-4A
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	<a href="https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&amp;samp_date=&amp;global_id=T0608126742&amp;assigned_name=MW-4A&amp;store_num=">https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&amp;samp_date=&amp;global_id=T0608126742&amp;assigned_name=MW-4A&amp;store_num=</a>		
GeoTracker Data:	<a href="https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&amp;global_id=T0608126742&amp;assigned_name=MW-4A">https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&amp;global_id=T0608126742&amp;assigned_name=MW-4A</a>		

**E27**  
**SSE**  
**1/4 - 1/2 Mile**  
**Higher**

**CA WELLS      CAEDF0000042897**

Well ID:	T0608126742-MW-2C	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-2C
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	<a href="https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&amp;samp_date=&amp;global_id=T0608126742&amp;assigned_name=MW-2C&amp;store_num=">https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&amp;samp_date=&amp;global_id=T0608126742&amp;assigned_name=MW-2C&amp;store_num=</a>		
GeoTracker Data:	<a href="https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&amp;global_id=T0608126742&amp;assigned_name=MW-2C">https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&amp;global_id=T0608126742&amp;assigned_name=MW-2C</a>		

**E28**  
**SSE**  
**1/4 - 1/2 Mile**  
**Higher**

**CA WELLS      CAEDF0000052518**

Well ID:	T0608126742-MW-4B	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-4B
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	<a href="https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&amp;samp_date=&amp;global_id=T0608126742&amp;assigned_name=MW-4B&amp;store_num=">https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&amp;samp_date=&amp;global_id=T0608126742&amp;assigned_name=MW-4B&amp;store_num=</a>		
GeoTracker Data:	<a href="https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&amp;global_id=T0608126742&amp;assigned_name=MW-4B">https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&amp;global_id=T0608126742&amp;assigned_name=MW-4B</a>		

**E29**  
**SSE**  
**1/4 - 1/2 Mile**  
**Higher**

**CA WELLS      CAEDF0000010640**

Well ID:	T0608126742-MW-2A	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-2A
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	<a href="https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&amp;samp_date=&amp;global_id=T0608126742&amp;assigned_name=MW-2A&amp;store_num=">https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&amp;samp_date=&amp;global_id=T0608126742&amp;assigned_name=MW-2A&amp;store_num=</a>		
GeoTracker Data:	<a href="https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&amp;global_id=T0608126742&amp;assigned_name=MW-2A">https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&amp;global_id=T0608126742&amp;assigned_name=MW-2A</a>		



## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database      EDR ID Number

**E30**  
**SSE**  
**1/4 - 1/2 Mile**  
**Higher**

**CA WELLS      CAEDF0000031823**

Well ID:	T0608126742-EX-1	Well Type:	MONITORING
Source:	EDF	Other Name:	EX-1
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	<a href="https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&amp;samp_date=&amp;global_id=T0608126742&amp;assigned_name=EX-1&amp;store_num=">https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&amp;samp_date=&amp;global_id=T0608126742&amp;assigned_name=EX-1&amp;store_num=</a>		
GeoTracker Data:	<a href="https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&amp;global_id=T0608126742&amp;assigned_name=EX-1">https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&amp;global_id=T0608126742&amp;assigned_name=EX-1</a>		

**E31**  
**SSE**  
**1/4 - 1/2 Mile**  
**Higher**

**CA WELLS      CAEDF0000103702**

Well ID:	T0608126742-MW-7	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-7
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	<a href="https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&amp;samp_date=&amp;global_id=T0608126742&amp;assigned_name=MW-7&amp;store_num=">https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&amp;samp_date=&amp;global_id=T0608126742&amp;assigned_name=MW-7&amp;store_num=</a>		
GeoTracker Data:	<a href="https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&amp;global_id=T0608126742&amp;assigned_name=MW-7">https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&amp;global_id=T0608126742&amp;assigned_name=MW-7</a>		

**E32**  
**SSE**  
**1/4 - 1/2 Mile**  
**Higher**

**CA WELLS      CAEDF0000091534**

Well ID:	T0608126742-MW-2B	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-2B
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	<a href="https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&amp;samp_date=&amp;global_id=T0608126742&amp;assigned_name=MW-2B&amp;store_num=">https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&amp;samp_date=&amp;global_id=T0608126742&amp;assigned_name=MW-2B&amp;store_num=</a>		
GeoTracker Data:	<a href="https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&amp;global_id=T0608126742&amp;assigned_name=MW-2B">https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&amp;global_id=T0608126742&amp;assigned_name=MW-2B</a>		

**E33**  
**SSE**  
**1/4 - 1/2 Mile**  
**Higher**

**CA WELLS      CAEDF0000055814**

Well ID:	T0608126742-MW-3A	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-3A
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	<a href="https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&amp;samp_date=&amp;global_id=T0608126742&amp;assigned_name=MW-3A&amp;store_num=">https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&amp;samp_date=&amp;global_id=T0608126742&amp;assigned_name=MW-3A&amp;store_num=</a>		
GeoTracker Data:	<a href="https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&amp;global_id=T0608126742&amp;assigned_name=MW-3A">https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&amp;global_id=T0608126742&amp;assigned_name=MW-3A</a>		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database      EDR ID Number

<b>E34 SSE 1/4 - 1/2 Mile Higher</b>	Site ID: 440047 Groundwater Flow: Not Reported Shallow Water Depth: Not Reported Deep Water Depth: Not Reported Average Water Depth: 9 Date: 03/04/1996	<b>AQUIFLOW      64378</b>
--	--	----------------------------

<b>35 SSE 1/4 - 1/2 Mile Higher</b>		<b>CA WELLS      CAEDF0000122438</b>
---	--	--------------------------------------

Well ID:	T0608126742-MW-1A	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-1A
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	<a href="https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&amp;samp_date=&amp;global_id=T0608126742&amp;assigned_name=MW-1A&amp;store_num=">https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&amp;samp_date=&amp;global_id=T0608126742&amp;assigned_name=MW-1A&amp;store_num=</a>		
GeoTracker Data:	<a href="https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&amp;global_id=T0608126742&amp;assigned_name=MW-1A">https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&amp;global_id=T0608126742&amp;assigned_name=MW-1A</a>		

<b>E36 SSE 1/4 - 1/2 Mile Higher</b>	Site ID: 440032 Groundwater Flow: NE Shallow Water Depth: 6.45 Deep Water Depth: 8.95 Average Water Depth: Not Reported Date: 09/05/1995	<b>AQUIFLOW      64384</b>
--	---	----------------------------

<b>F37 SSW 1/4 - 1/2 Mile Higher</b>	Site ID: 41-0195 Groundwater Flow: N Shallow Water Depth: 11.85 Deep Water Depth: 13' Average Water Depth: Not Reported Date: 07/25/1996	<b>AQUIFLOW      67110</b>
--	---	----------------------------

<b>F38 SSW 1/4 - 1/2 Mile Higher</b>	Site ID: 440034 Groundwater Flow: NE Shallow Water Depth: Not Reported Deep Water Depth: Not Reported Average Water Depth: 17.39 Date: 09/10/1991	<b>AQUIFLOW      64355</b>
--	--	----------------------------

<b>F39 SSW 1/4 - 1/2 Mile Higher</b>		<b>CA WELLS      CAEDF0000017784</b>
--	--	--------------------------------------

Well ID:	T0608100997-MW-3	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-3
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	<a href="https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&amp;samp_date=&amp;global_id=T0608100997&amp;assigned_name=MW-3&amp;store_num=">https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&amp;samp_date=&amp;global_id=T0608100997&amp;assigned_name=MW-3&amp;store_num=</a>		
GeoTracker Data:	<a href="https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&amp;global_id=T0608100997&amp;assigned_name=MW-3">https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&amp;global_id=T0608100997&amp;assigned_name=MW-3</a>		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
 Direction  
 Distance  
 Elevation

Database      EDR ID Number

**F40**  
**SSW**  
**1/4 - 1/2 Mile**  
**Higher**

Site ID:                    440018  
 Groundwater Flow:      NE  
 Shallow Water Depth:   7.79  
 Deep Water Depth:      11.89  
 Average Water Depth:   Not Reported  
 Date:                      09/07/1994

**AQUIFLOW      64481**

**F41**  
**SSW**  
**1/4 - 1/2 Mile**  
**Higher**

Well ID:                    T0608100997-MW-2                    Well Type:                    MONITORING  
 Source:                    EDF                                      Other Name:                    MW-2  
 GAMA PFAS Testing:      Not Reported  
 Groundwater Quality Data:   [https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp\\_date=&global\\_id=T0608100997&assigned\\_name=MW-2&store\\_num=](https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0608100997&assigned_name=MW-2&store_num=)  
 GeoTracker Data:           [https://geotracker.waterboards.ca.gov/profile\\_report.asp?cmd=MWEDFResults&global\\_id=T0608100997&assigned\\_name=MW-2](https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0608100997&assigned_name=MW-2)

**CA WELLS      CAEDF0000023177**

**42**  
**SE**  
**1/4 - 1/2 Mile**  
**Higher**

Site ID:                    440035  
 Groundwater Flow:      NE, Flat  
 Shallow Water Depth:   5.5  
 Deep Water Depth:      9.0  
 Average Water Depth:   Not Reported  
 Date:                      10/10/1991

**AQUIFLOW      64477**

**F43**  
**SSW**  
**1/4 - 1/2 Mile**  
**Higher**

Well ID:                    T0608100997-MW-1                    Well Type:                    MONITORING  
 Source:                    EDF                                      Other Name:                    MW-1  
 GAMA PFAS Testing:      Not Reported  
 Groundwater Quality Data:   [https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp\\_date=&global\\_id=T0608100997&assigned\\_name=MW-1&store\\_num=](https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0608100997&assigned_name=MW-1&store_num=)  
 GeoTracker Data:           [https://geotracker.waterboards.ca.gov/profile\\_report.asp?cmd=MWEDFResults&global\\_id=T0608100997&assigned\\_name=MW-1](https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0608100997&assigned_name=MW-1)

**CA WELLS      CAEDF0000118318**

**44**  
**South**  
**1/4 - 1/2 Mile**  
**Higher**

Site ID:                    440039  
 Groundwater Flow:      Not Reported  
 Shallow Water Depth:   Not Reported  
 Deep Water Depth:      Not Reported  
 Average Water Depth:   12  
 Date:                      07/13/1992

**AQUIFLOW      64392**

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
 Direction  
 Distance  
 Elevation

Database      EDR ID Number

**45**  
**SE**  
**1/2 - 1 Mile**  
**Higher**

Site ID:                      440006  
 Groundwater Flow:        WSW  
 Shallow Water Depth:     Not Reported  
 Deep Water Depth:        Not Reported  
 Average Water Depth:     12.5  
 Date:                         09/01/1998

**AQUIFLOW      64430**

**46**  
**West**  
**1/2 - 1 Mile**  
**Higher**

**FED USGS      USGS40000183433**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	005S003W21G002M	Type:	Well
Description:	Not Reported	HUC:	18050004
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	4	Level reading date:	1980-11-24
Feet below surface:	Not Reported	Feet to sea level:	Not Reported
Note:	The site was flowing, but the head could not be measured without additional equipment.		

Level reading date:	1980-05-08	Feet below surface:	Not Reported
Feet to sea level:	Not Reported		
Note:	The site was flowing, but the head could not be measured without additional equipment.		

Level reading date:	1979-10-02	Feet below surface:	Not Reported
Feet to sea level:	Not Reported		
Note:	The site was flowing, but the head could not be measured without additional equipment.		

Level reading date:	1979-04-11	Feet below surface:	Not Reported
Feet to sea level:	Not Reported		
Note:	The site was flowing, but the head could not be measured without additional equipment.		

**47**  
**South**  
**1/2 - 1 Mile**  
**Higher**

**FED USGS      USGS40000183400**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	005S003W22N001M	Type:	Well
Description:	ATHERTON GW STUDY SITE	HUC:	18050004
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground water levels,Number of Measurements:	46	Level reading date:	1995-12-14
Feet below surface:	15.24	Feet to sea level:	Not Reported
Note:	Not Reported		
Level reading date:	1995-11-16	Feet below surface:	15.21
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1995-10-19	Feet below surface:	15.14
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1995-09-14	Feet below surface:	15.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1995-08-31	Feet below surface:	15.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1995-08-17	Feet below surface:	15.05
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1995-08-03	Feet below surface:	15.06
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1995-07-20	Feet below surface:	15.10
Feet to sea level:	Not Reported	Note:	The site had been pumped recently.
Level reading date:	1995-07-06	Feet below surface:	15.13
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1995-06-22	Feet below surface:	15.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1995-06-08	Feet below surface:	15.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1995-05-11	Feet below surface:	15.51
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1995-04-27	Feet below surface:	15.67
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1995-04-13	Feet below surface:	15.87
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1995-03-30	Feet below surface:	16.06
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1995-03-16	Feet below surface:	16.29
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1995-03-07	Feet below surface:	16.35
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1995-03-02	Feet below surface:	16.36
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1995-02-16	Feet below surface:	16.45
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1995-02-02	Feet below surface:	16.62
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1995-01-19	Feet below surface:	16.75

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1994-12-15	Feet below surface:	16.82
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1994-11-22	Feet below surface:	16.86
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1994-11-11	Feet below surface:	16.76
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1994-10-20	Feet below surface:	16.65
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1994-10-06	Feet below surface:	16.56
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1994-09-22	Feet below surface:	16.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1994-08-18	Feet below surface:	16.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1994-08-04	Feet below surface:	16.12
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1994-07-21	Feet below surface:	16.07
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1994-07-07	Feet below surface:	16.07
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1994-06-23	Feet below surface:	15.97
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1994-06-09	Feet below surface:	15.96
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1994-05-26	Feet below surface:	15.98
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1994-05-11	Feet below surface:	16.07
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1994-04-28	Feet below surface:	16.09
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1994-04-13	Feet below surface:	16.14
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1994-03-31	Feet below surface:	16.23
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1994-03-16	Feet below surface:	16.27
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1994-03-03	Feet below surface:	16.39
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1994-02-17	Feet below surface:	16.46
Feet to sea level:	Not Reported	Note:	Not Reported

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Level reading date:	1994-02-02	Feet below surface:	16.53
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1994-01-20	Feet below surface:	16.55
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1993-10-19	Feet below surface:	16.55
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1993-08-11	Feet below surface:	16.35
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1993-04-05	Feet below surface:	17.18
Feet to sea level:	Not Reported	Note:	Not Reported

**G48  
SSW  
1/2 - 1 Mile  
Higher**

**CA WELLS    CAEDF0000086100**

Well ID:	T0608100064-MW11	Well Type:	MONITORING
Source:	EDF	Other Name:	MW11
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	<a href="https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&amp;samp_date=&amp;global_id=T0608100064&amp;assigned_name=MW11&amp;store_num=">https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&amp;samp_date=&amp;global_id=T0608100064&amp;assigned_name=MW11&amp;store_num=</a>		
GeoTracker Data:	<a href="https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&amp;global_id=T0608100064&amp;assigned_name=MW11">https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&amp;global_id=T0608100064&amp;assigned_name=MW11</a>		

**G49  
SSW  
1/2 - 1 Mile  
Higher**

**AQUIFLOW    51130**

Site ID:	440048
Groundwater Flow:	N
Shallow Water Depth:	10.41
Deep Water Depth:	10.69
Average Water Depth:	Not Reported
Date:	01/26/1999

**G50  
SSW  
1/2 - 1 Mile  
Higher**

**CA WELLS    CAEDF0000079275**

Well ID:	T0608100064-MW10	Well Type:	MONITORING
Source:	EDF	Other Name:	MW10
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	<a href="https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&amp;samp_date=&amp;global_id=T0608100064&amp;assigned_name=MW10&amp;store_num=">https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&amp;samp_date=&amp;global_id=T0608100064&amp;assigned_name=MW10&amp;store_num=</a>		
GeoTracker Data:	<a href="https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&amp;global_id=T0608100064&amp;assigned_name=MW10">https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&amp;global_id=T0608100064&amp;assigned_name=MW10</a>		

**51  
West  
1/2 - 1 Mile  
Higher**

**FED USGS    USGS40000183434**

Organization ID:	USGS-CA	Type:	Well
Organization Name:	USGS California Water Science Center		
Monitor Location:	005S003W21G001M		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Description:	Not Reported	HUC:	18050004
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19620201	Well Depth:	367
Well Depth Units:	ft	Well Hole Depth:	380
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	2	Level reading date:	1982-10-07
Feet below surface:	Not Reported	Feet to sea level:	Not Reported
Note:	The site was flowing, but the head could not be measured without additional equipment.		

Level reading date:	1974-05-02	Feet below surface:	3.60
Feet to sea level:	Not Reported	Note:	Not Reported

**52  
NNE  
1/2 - 1 Mile  
Higher**

**CA WELLS    CADWR9000036012**

State Well #:	Not Reported	Station ID:	55139
Well Name:	78 WBSD #3	Basin Name:	San Mateo Plain
Well Use:	Industrial	Well Type:	Single Well
Well Depth:	300	Well Completion Rpt #:	41-113

**H53  
SSW  
1/2 - 1 Mile  
Higher**

**CA WELLS    CAEDF0000086339**

Well ID:	T0608100064-MW9	Well Type:	MONITORING
Source:	EDF	Other Name:	MW9
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	<a href="https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&amp;samp_date=&amp;global_id=T0608100064&amp;assigned_name=MW9&amp;store_num=">https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&amp;samp_date=&amp;global_id=T0608100064&amp;assigned_name=MW9&amp;store_num=</a>		
GeoTracker Data:	<a href="https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&amp;global_id=T0608100064&amp;assigned_name=MW9">https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&amp;global_id=T0608100064&amp;assigned_name=MW9</a>		

**H54  
SSW  
1/2 - 1 Mile  
Higher**

**CA WELLS    CAEDF0000074946**

Well ID:	T0608100064-MW8	Well Type:	MONITORING
Source:	EDF	Other Name:	MW8
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	<a href="https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&amp;samp_date=&amp;global_id=T0608100064&amp;assigned_name=MW8&amp;store_num=">https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&amp;samp_date=&amp;global_id=T0608100064&amp;assigned_name=MW8&amp;store_num=</a>		
GeoTracker Data:	<a href="https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&amp;global_id=T0608100064&amp;assigned_name=MW8">https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&amp;global_id=T0608100064&amp;assigned_name=MW8</a>		



## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database      EDR ID Number

**H55**  
**SSW**  
**1/2 - 1 Mile**  
**Higher**

**CA WELLS      CAEDF0000059756**

Well ID:	T0608100064-MW7	Well Type:	MONITORING
Source:	EDF	Other Name:	MW7
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	<a href="https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&amp;samp_date=&amp;global_id=T0608100064&amp;assigned_name=MW7&amp;store_num=">https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&amp;samp_date=&amp;global_id=T0608100064&amp;assigned_name=MW7&amp;store_num=</a>		
GeoTracker Data:	<a href="https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&amp;global_id=T0608100064&amp;assigned_name=MW7">https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&amp;global_id=T0608100064&amp;assigned_name=MW7</a>		

**H56**  
**SSW**  
**1/2 - 1 Mile**  
**Higher**

**CA WELLS      CAEDF0000048138**

Well ID:	T0608100064-MW4	Well Type:	MONITORING
Source:	EDF	Other Name:	MW4
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	<a href="https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&amp;samp_date=&amp;global_id=T0608100064&amp;assigned_name=MW4&amp;store_num=">https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&amp;samp_date=&amp;global_id=T0608100064&amp;assigned_name=MW4&amp;store_num=</a>		
GeoTracker Data:	<a href="https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&amp;global_id=T0608100064&amp;assigned_name=MW4">https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&amp;global_id=T0608100064&amp;assigned_name=MW4</a>		

**H57**  
**SSW**  
**1/2 - 1 Mile**  
**Higher**

**CA WELLS      CAEDF0000018556**

Well ID:	T0608100064-MW6	Well Type:	MONITORING
Source:	EDF	Other Name:	MW6
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	<a href="https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&amp;samp_date=&amp;global_id=T0608100064&amp;assigned_name=MW6&amp;store_num=">https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&amp;samp_date=&amp;global_id=T0608100064&amp;assigned_name=MW6&amp;store_num=</a>		
GeoTracker Data:	<a href="https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&amp;global_id=T0608100064&amp;assigned_name=MW6">https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&amp;global_id=T0608100064&amp;assigned_name=MW6</a>		

**H58**  
**SSW**  
**1/2 - 1 Mile**  
**Higher**

**CA WELLS      CAEDF0000002366**

Well ID:	T0608100064-MW3	Well Type:	MONITORING
Source:	EDF	Other Name:	MW3
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	<a href="https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&amp;samp_date=&amp;global_id=T0608100064&amp;assigned_name=MW3&amp;store_num=">https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&amp;samp_date=&amp;global_id=T0608100064&amp;assigned_name=MW3&amp;store_num=</a>		
GeoTracker Data:	<a href="https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&amp;global_id=T0608100064&amp;assigned_name=MW3">https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&amp;global_id=T0608100064&amp;assigned_name=MW3</a>		

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database      EDR ID Number

**H59**  
**SSW**  
**1/2 - 1 Mile**  
**Higher**

**CA WELLS      CAEDF0000087853**

Well ID:	T0608100064-MW5	Well Type:	MONITORING
Source:	EDF	Other Name:	MW5
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	<a href="https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&amp;samp_date=&amp;global_id=T0608100064&amp;assigned_name=MW5&amp;store_num=">https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&amp;samp_date=&amp;global_id=T0608100064&amp;assigned_name=MW5&amp;store_num=</a>		
GeoTracker Data:	<a href="https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&amp;global_id=T0608100064&amp;assigned_name=MW5">https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&amp;global_id=T0608100064&amp;assigned_name=MW5</a>		

**H60**  
**SSW**  
**1/2 - 1 Mile**  
**Higher**

**CA WELLS      CAEDF0000062479**

Well ID:	T0608100064-MW2	Well Type:	MONITORING
Source:	EDF	Other Name:	MW2
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	<a href="https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&amp;samp_date=&amp;global_id=T0608100064&amp;assigned_name=MW2&amp;store_num=">https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&amp;samp_date=&amp;global_id=T0608100064&amp;assigned_name=MW2&amp;store_num=</a>		
GeoTracker Data:	<a href="https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&amp;global_id=T0608100064&amp;assigned_name=MW2">https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&amp;global_id=T0608100064&amp;assigned_name=MW2</a>		

**H61**  
**SSW**  
**1/2 - 1 Mile**  
**Higher**

**AQUIFLOW      64368**

Site ID:	440002
Groundwater Flow:	NNE
Shallow Water Depth:	11.77
Deep Water Depth:	13.28
Average Water Depth:	Not Reported
Date:	07/03/1996

**I62**  
**West**  
**1/2 - 1 Mile**  
**Lower**

**AQUIFLOW      65526**

Site ID:	41-0719
Groundwater Flow:	NW
Shallow Water Depth:	6.71
Deep Water Depth:	7.42
Average Water Depth:	Not Reported
Date:	02/13/1991

**63**  
**SSE**  
**1/2 - 1 Mile**  
**Higher**

**FED USGS      USGS40000183394**

Organization ID:	USGS-CA	
Organization Name:	USGS California Water Science Center	
Monitor Location:	005S003W27B002M	Type: Well
Description:	ATHERTON GW STUDY SITE	HUC: 18050004
Drainage Area:	Not Reported	Drainage Area Units: Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts: Not Reported
Aquifer:	California Coastal Basin aquifers	
Formation Type:	Not Reported	Aquifer Type: Not Reported
Construction Date:	19901127	Well Depth: 110

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Well Depth Units:	ft	Well Hole Depth:	130
Well Hole Depth Units:	ft		
Ground water levels,Number of Measurements:	17	Level reading date:	1995-09-14
Feet below surface:	21.14	Feet to sea level:	Not Reported
Note:	Not Reported		
Level reading date:	1995-07-20	Feet below surface:	20.53
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1995-06-22	Feet below surface:	20.24
Feet to sea level:	Not Reported	Note:	The site had been pumped recently.
Level reading date:	1995-03-30	Feet below surface:	18.58
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1994-12-15	Feet below surface:	23.49
Feet to sea level:	Not Reported	Note:	The site had been pumped recently.
Level reading date:	1994-10-06	Feet below surface:	23.54
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1994-09-08	Feet below surface:	23.61
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1994-08-03	Feet below surface:	23.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1994-07-06	Feet below surface:	22.82
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1994-06-09	Feet below surface:	22.52
Feet to sea level:	Not Reported	Note:	The site had been pumped recently.
Level reading date:	1994-05-12	Feet below surface:	21.35
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1994-04-14	Feet below surface:	21.32
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1994-03-17	Feet below surface:	21.86
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1994-01-20	Feet below surface:	22.05
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1993-10-05	Feet below surface:	23.59
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1993-08-11	Feet below surface:	22.65
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1993-07-08	Feet below surface:	22.52
Feet to sea level:	Not Reported	Note:	Not Reported



## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database      EDR ID Number

**J68**  
**WSW**  
**1/2 - 1 Mile**  
**Higher**

**CA WELLS      CAEDF0000054871**

Well ID: T0608100591-MW-9      Well Type: MONITORING  
 Source: EDF      Other Name: MW-9  
 GAMA PFAS Testing: Not Reported  
 Groundwater Quality Data: [https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp\\_date=&global\\_id=T0608100591&assigned\\_name=MW-9&store\\_num=](https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0608100591&assigned_name=MW-9&store_num=)  
 GeoTracker Data: [https://geotracker.waterboards.ca.gov/profile\\_report.asp?cmd=MWEDFResults&global\\_id=T0608100591&assigned\\_name=MW-9](https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0608100591&assigned_name=MW-9)

**L69**  
**SSW**  
**1/2 - 1 Mile**  
**Higher**

**AQUIFLOW      64375**

Site ID: 41-0223  
 Groundwater Flow: Not Reported  
 Shallow Water Depth: Not Reported  
 Deep Water Depth: Not Reported  
 Average Water Depth: 19  
 Date: 11/07/1988

**L70**  
**SSW**  
**1/2 - 1 Mile**  
**Higher**

**AQUIFLOW      64376**

Site ID: 440025  
 Groundwater Flow: Not Reported  
 Shallow Water Depth: Not Reported  
 Deep Water Depth: Not Reported  
 Average Water Depth: 19  
 Date: 11/07/1988

**J71**  
**WSW**  
**1/2 - 1 Mile**  
**Higher**

**CA WELLS      CAEDF0000011877**

Well ID: T0608100591-MW-4      Well Type: MONITORING  
 Source: EDF      Other Name: MW-4  
 GAMA PFAS Testing: Not Reported  
 Groundwater Quality Data: [https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp\\_date=&global\\_id=T0608100591&assigned\\_name=MW-4&store\\_num=](https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0608100591&assigned_name=MW-4&store_num=)  
 GeoTracker Data: [https://geotracker.waterboards.ca.gov/profile\\_report.asp?cmd=MWEDFResults&global\\_id=T0608100591&assigned\\_name=MW-4](https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0608100591&assigned_name=MW-4)

**J72**  
**WSW**  
**1/2 - 1 Mile**  
**Higher**

**CA WELLS      CAEDF0000022164**

Well ID: T0608100591-RW-1      Well Type: MONITORING  
 Source: EDF      Other Name: RW-1  
 GAMA PFAS Testing: Not Reported  
 Groundwater Quality Data: [https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp\\_date=&global\\_id=T0608100591&assigned\\_name=RW-1&store\\_num=](https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0608100591&assigned_name=RW-1&store_num=)  
 GeoTracker Data: [https://geotracker.waterboards.ca.gov/profile\\_report.asp?cmd=MWEDFResults&global\\_id=T0608100591&assigned\\_name=RW-1](https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0608100591&assigned_name=RW-1)

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database      EDR ID Number

**J73**  
**WSW**  
**1/2 - 1 Mile**  
**Higher**

**CA WELLS      CAEDF0000053046**

Well ID: T0608100591-MW-1      Well Type: MONITORING  
 Source: EDF      Other Name: MW-1  
 GAMA PFAS Testing: Not Reported  
 Groundwater Quality Data: [https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp\\_date=&global\\_id=T0608100591&assigned\\_name=MW-1&store\\_num=](https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0608100591&assigned_name=MW-1&store_num=)  
 GeoTracker Data: [https://geotracker.waterboards.ca.gov/profile\\_report.asp?cmd=MWEDFResults&global\\_id=T0608100591&assigned\\_name=MW-1](https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0608100591&assigned_name=MW-1)

**J74**  
**WSW**  
**1/2 - 1 Mile**  
**Higher**

**CA WELLS      CAEDF0000020345**

Well ID: T0608100591-MW-8      Well Type: MONITORING  
 Source: EDF      Other Name: MW-8  
 GAMA PFAS Testing: Not Reported  
 Groundwater Quality Data: [https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp\\_date=&global\\_id=T0608100591&assigned\\_name=MW-8&store\\_num=](https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0608100591&assigned_name=MW-8&store_num=)  
 GeoTracker Data: [https://geotracker.waterboards.ca.gov/profile\\_report.asp?cmd=MWEDFResults&global\\_id=T0608100591&assigned\\_name=MW-8](https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0608100591&assigned_name=MW-8)

**M75**  
**SSW**  
**1/2 - 1 Mile**  
**Higher**

**AQUIFLOW      67036**

Site ID: 330155  
 Groundwater Flow: Not Reported  
 Shallow Water Depth: Not Reported  
 Deep Water Depth: Not Reported  
 Average Water Depth: 8'  
 Date: 04/07/1998

**M76**  
**SSW**  
**1/2 - 1 Mile**  
**Higher**

**AQUIFLOW      67037**

Site ID: 41-1091  
 Groundwater Flow: Not Reported  
 Shallow Water Depth: Not Reported  
 Deep Water Depth: Not Reported  
 Average Water Depth: 8'  
 Date: 04/07/1998

**J77**  
**WSW**  
**1/2 - 1 Mile**  
**Higher**

**CA WELLS      CAEDF0000106410**

Well ID: T0608100591-MW-3      Well Type: MONITORING  
 Source: EDF      Other Name: MW-3  
 GAMA PFAS Testing: Not Reported  
 Groundwater Quality Data: [https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp\\_date=&global\\_id=T0608100591&assigned\\_name=MW-3&store\\_num=](https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0608100591&assigned_name=MW-3&store_num=)  
 GeoTracker Data: [https://geotracker.waterboards.ca.gov/profile\\_report.asp?cmd=MWEDFResults&global\\_id=T0608100591&assigned\\_name=MW-3](https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0608100591&assigned_name=MW-3)

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database      EDR ID Number

**J78**  
**WSW**  
**1/2 - 1 Mile**  
**Higher**

**CA WELLS      CAEDF000002342**

Well ID:	T0608100591-MW-2	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-2
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	<a href="https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&amp;samp_date=&amp;global_id=T0608100591&amp;assigned_name=MW-2&amp;store_num=">https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&amp;samp_date=&amp;global_id=T0608100591&amp;assigned_name=MW-2&amp;store_num=</a>		
GeoTracker Data:	<a href="https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&amp;global_id=T0608100591&amp;assigned_name=MW-2">https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&amp;global_id=T0608100591&amp;assigned_name=MW-2</a>		

**K79**  
**West**  
**1/2 - 1 Mile**  
**Higher**

**CA WELLS      CAEDF0000089432**

Well ID:	T0608100216-MW22	Well Type:	MONITORING
Source:	EDF	Other Name:	MW22
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	<a href="https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&amp;samp_date=&amp;global_id=T0608100216&amp;assigned_name=MW22&amp;store_num=">https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&amp;samp_date=&amp;global_id=T0608100216&amp;assigned_name=MW22&amp;store_num=</a>		
GeoTracker Data:	<a href="https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&amp;global_id=T0608100216&amp;assigned_name=MW22">https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&amp;global_id=T0608100216&amp;assigned_name=MW22</a>		

**J80**  
**WSW**  
**1/2 - 1 Mile**  
**Higher**

**CA WELLS      CAEDF0000064860**

Well ID:	T0608100591-MW-7	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-7
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	<a href="https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&amp;samp_date=&amp;global_id=T0608100591&amp;assigned_name=MW-7&amp;store_num=">https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&amp;samp_date=&amp;global_id=T0608100591&amp;assigned_name=MW-7&amp;store_num=</a>		
GeoTracker Data:	<a href="https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&amp;global_id=T0608100591&amp;assigned_name=MW-7">https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&amp;global_id=T0608100591&amp;assigned_name=MW-7</a>		

**N81**  
**West**  
**1/2 - 1 Mile**  
**Lower**

**CA WELLS      CAEDF0000082549**

Well ID:	T0608100923-R-3	Well Type:	MONITORING
Source:	EDF	Other Name:	R-3
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	<a href="https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&amp;samp_date=&amp;global_id=T0608100923&amp;assigned_name=R-3&amp;store_num=">https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&amp;samp_date=&amp;global_id=T0608100923&amp;assigned_name=R-3&amp;store_num=</a>		
GeoTracker Data:	<a href="https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&amp;global_id=T0608100923&amp;assigned_name=R-3">https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&amp;global_id=T0608100923&amp;assigned_name=R-3</a>		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database      EDR ID Number

**N82**  
**West**  
**1/2 - 1 Mile**  
**Lower**

**CA WELLS      CAEDF0000055207**

Well ID: T0608100923-R-1      Well Type: MONITORING  
 Source: EDF      Other Name: R-1  
 GAMA PFAS Testing: Not Reported  
 Groundwater Quality Data: [https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp\\_date=&global\\_id=T0608100923&assigned\\_name=R-1&store\\_num=](https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0608100923&assigned_name=R-1&store_num=)  
 GeoTracker Data: [https://geotracker.waterboards.ca.gov/profile\\_report.asp?cmd=MWEDFResults&global\\_id=T0608100923&assigned\\_name=R-1](https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0608100923&assigned_name=R-1)

**N83**  
**West**  
**1/2 - 1 Mile**  
**Lower**

**CA WELLS      CAEDF0000092254**

Well ID: T0608100923-R-4      Well Type: MONITORING  
 Source: EDF      Other Name: R-4  
 GAMA PFAS Testing: Not Reported  
 Groundwater Quality Data: [https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp\\_date=&global\\_id=T0608100923&assigned\\_name=R-4&store\\_num=](https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0608100923&assigned_name=R-4&store_num=)  
 GeoTracker Data: [https://geotracker.waterboards.ca.gov/profile\\_report.asp?cmd=MWEDFResults&global\\_id=T0608100923&assigned\\_name=R-4](https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0608100923&assigned_name=R-4)

**N84**  
**West**  
**1/2 - 1 Mile**  
**Lower**

**CA WELLS      CAEDF0000012386**

Well ID: T0608100923-R-2      Well Type: MONITORING  
 Source: EDF      Other Name: R-2  
 GAMA PFAS Testing: Not Reported  
 Groundwater Quality Data: [https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp\\_date=&global\\_id=T0608100923&assigned\\_name=R-2&store\\_num=](https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0608100923&assigned_name=R-2&store_num=)  
 GeoTracker Data: [https://geotracker.waterboards.ca.gov/profile\\_report.asp?cmd=MWEDFResults&global\\_id=T0608100923&assigned\\_name=R-2](https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0608100923&assigned_name=R-2)

**J85**  
**WSW**  
**1/2 - 1 Mile**  
**Higher**

**CA WELLS      CAEDF0000053205**

Well ID: T0608100216-ORC4      Well Type: MONITORING  
 Source: EDF      Other Name: ORC4  
 GAMA PFAS Testing: Not Reported  
 Groundwater Quality Data: [https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp\\_date=&global\\_id=T0608100216&assigned\\_name=ORC4&store\\_num=](https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0608100216&assigned_name=ORC4&store_num=)  
 GeoTracker Data: [https://geotracker.waterboards.ca.gov/profile\\_report.asp?cmd=MWEDFResults&global\\_id=T0608100216&assigned\\_name=ORC4](https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0608100216&assigned_name=ORC4)



## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database      EDR ID Number

**86**  
**WSW**  
**1/2 - 1 Mile**  
**Higher**

Site ID: 41-0619  
Groundwater Flow: Not Reported  
Shallow Water Depth: 8.6  
Deep Water Depth: 11.03  
Average Water Depth: Not Reported  
Date: 09/1991

**AQUIFLOW      66022**

**J87**  
**WSW**  
**1/2 - 1 Mile**  
**Higher**

Well ID: T0608100216-MW6      Well Type: MONITORING  
Source: EDF      Other Name: MW6  
GAMA PFAS Testing: Not Reported  
Groundwater Quality Data: [https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp\\_date=&global\\_id=T0608100216&assigned\\_name=MW6&store\\_num=](https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0608100216&assigned_name=MW6&store_num=)  
GeoTracker Data: [https://geotracker.waterboards.ca.gov/profile\\_report.asp?cmd=MWEDFResults&global\\_id=T0608100216&assigned\\_name=MW6](https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0608100216&assigned_name=MW6)

**CA WELLS      CAEDF0000089111**

**K88**  
**West**  
**1/2 - 1 Mile**  
**Higher**

Well ID: T0608100216-MW21      Well Type: MONITORING  
Source: EDF      Other Name: MW21  
GAMA PFAS Testing: Not Reported  
Groundwater Quality Data: [https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp\\_date=&global\\_id=T0608100216&assigned\\_name=MW21&store\\_num=](https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0608100216&assigned_name=MW21&store_num=)  
GeoTracker Data: [https://geotracker.waterboards.ca.gov/profile\\_report.asp?cmd=MWEDFResults&global\\_id=T0608100216&assigned\\_name=MW21](https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0608100216&assigned_name=MW21)

**CA WELLS      CAEDF0000066487**

**89**  
**West**  
**1/2 - 1 Mile**  
**Lower**

Site ID: 330147  
Groundwater Flow: W  
Shallow Water Depth: 3.0  
Deep Water Depth: 7.6  
Average Water Depth: Not Reported  
Date: 04/07/1997

**AQUIFLOW      65976**

**90**  
**WSW**  
**1/2 - 1 Mile**  
**Higher**

Well ID: T0608100216-ORC3      Well Type: MONITORING  
Source: EDF      Other Name: ORC3  
GAMA PFAS Testing: Not Reported  
Groundwater Quality Data: [https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp\\_date=&global\\_id=T0608100216&assigned\\_name=ORC3&store\\_num=](https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0608100216&assigned_name=ORC3&store_num=)  
GeoTracker Data: [https://geotracker.waterboards.ca.gov/profile\\_report.asp?cmd=MWEDFResults&global\\_id=T0608100216&assigned\\_name=ORC3](https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0608100216&assigned_name=ORC3)

**CA WELLS      CAEDF0000101184**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance Elevation			Database	EDR ID Number
<b>1G</b> <b>West</b> <b>1/2 - 1 Mile</b> <b>Lower</b>	Site ID:	330147	<b>AQUIFLOW</b>	<b>65976</b>
	Groundwater Flow:	W		
	Shallow Water Depth:	3.0		
	Deep Water Depth:	7.6		
	Average Water Depth:	Not Reported		
Date:	04/07/1997			
<b>2G</b> <b>West</b> <b>1/2 - 1 Mile</b> <b>Lower</b>	Site ID:	330063	<b>AQUIFLOW</b>	<b>65525</b>
	Groundwater Flow:	NW		
	Shallow Water Depth:	6.71		
	Deep Water Depth:	7.42		
	Average Water Depth:	Not Reported		
Date:	02/13/1991			
<b>3G</b> <b>West</b> <b>1/2 - 1 Mile</b> <b>Lower</b>	Site ID:	41-0719	<b>AQUIFLOW</b>	<b>65526</b>
	Groundwater Flow:	NW		
	Shallow Water Depth:	6.71		
	Deep Water Depth:	7.42		
	Average Water Depth:	Not Reported		
Date:	02/13/1991			
<b>4G</b> <b>West</b> <b>1/4 - 1/2 Mile</b> <b>Lower</b>	Site ID:	440031	<b>AQUIFLOW</b>	<b>64422</b>
	Groundwater Flow:	Not Reported		
	Shallow Water Depth:	4.5		
	Deep Water Depth:	5.0		
	Average Water Depth:	Not Reported		
Date:	11/26/1990			
<b>5G</b> <b>West</b> <b>1/8 - 1/4 Mile</b> <b>Lower</b>	Site ID:	41-0158	<b>AQUIFLOW</b>	<b>67035</b>
	Groundwater Flow:	Not Reported		
	Shallow Water Depth:	Not Reported		
	Deep Water Depth:	Not Reported		
	Average Water Depth:	6a		
Date:	06/08/1992			
<b>6G</b> <b>ESE</b> <b>0 - 1/8 Mile</b> <b>Lower</b>	Site ID:	41-0110	<b>AQUIFLOW</b>	<b>64401</b>
	Groundwater Flow:	NNW		
	Shallow Water Depth:	5.0		
	Deep Water Depth:	7.0		
	Average Water Depth:	Not Reported		
Date:	03/31/1995			
<b>7G</b> <b>East</b> <b>1/4 - 1/2 Mile</b> <b>Lower</b>	Site ID:	440042	<b>AQUIFLOW</b>	<b>64465</b>
	Groundwater Flow:	NNW		
	Shallow Water Depth:	3.78		
	Deep Water Depth:	4.72		
	Average Water Depth:	Not Reported		
Date:	04/22/1994			

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance Elevation			Database	EDR ID Number
<b>8G</b> <b>SE</b> <b>1/4 - 1/2 Mile</b> <b>Lower</b>	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	440035 NE, Flat 5.5 9.0 Not Reported 10/10/1991	<b>AQUIFLOW</b>	<b>64477</b>
<b>9G</b> <b>SE</b> <b>1/2 - 1 Mile</b> <b>Lower</b>	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	440006 WSW Not Reported Not Reported 12.5 09/01/1998	<b>AQUIFLOW</b>	<b>64430</b>
<b>10G</b> <b>SSE</b> <b>1/4 - 1/2 Mile</b> <b>Lower</b>	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	440032 NE 6.45 8.95 Not Reported 09/05/1995	<b>AQUIFLOW</b>	<b>64384</b>
<b>11G</b> <b>WSW</b> <b>1/2 - 1 Mile</b> <b>Lower</b>	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	41-0619 Not Reported 8.6 11.03 Not Reported 09/1991	<b>AQUIFLOW</b>	<b>66022</b>
<b>12G</b> <b>SSE</b> <b>1/4 - 1/2 Mile</b> <b>Lower</b>	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	440047 Not Reported Not Reported Not Reported 9 03/04/1996	<b>AQUIFLOW</b>	<b>64378</b>
<b>13G</b> <b>SSW</b> <b>1/4 - 1/2 Mile</b> <b>Lower</b>	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	41-0195 N 11.85 13' Not Reported 07/25/1996	<b>AQUIFLOW</b>	<b>67110</b>
<b>14G</b> <b>SSW</b> <b>1/4 - 1/2 Mile</b> <b>Lower</b>	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	440034 NE Not Reported Not Reported 17.39 09/10/1991	<b>AQUIFLOW</b>	<b>64355</b>

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID	Direction	Distance	Elevation	Database	EDR ID Number
<b>15G</b>					
<b>SSW</b>					
<b>1/4 - 1/2 Mile</b>					
<b>Lower</b>	Site ID:	440018		<b>AQUIFLOW</b>	<b>64481</b>
	Groundwater Flow:	NE			
	Shallow Water Depth:	7.79			
	Deep Water Depth:	11.89			
	Average Water Depth:	Not Reported			
	Date:	09/07/1994			
<hr/>					
<b>16G</b>					
<b>South</b>					
<b>1/4 - 1/2 Mile</b>					
<b>Lower</b>	Site ID:	440039		<b>AQUIFLOW</b>	<b>64392</b>
	Groundwater Flow:	Not Reported			
	Shallow Water Depth:	Not Reported			
	Deep Water Depth:	Not Reported			
	Average Water Depth:	12			
	Date:	07/13/1992			
<hr/>					
<b>17G</b>					
<b>SSW</b>					
<b>1/2 - 1 Mile</b>					
<b>Lower</b>	Site ID:	440048		<b>AQUIFLOW</b>	<b>51130</b>
	Groundwater Flow:	N			
	Shallow Water Depth:	10.41			
	Deep Water Depth:	10.69			
	Average Water Depth:	Not Reported			
	Date:	01/26/1999			
<hr/>					
<b>18G</b>					
<b>SSW</b>					
<b>1/2 - 1 Mile</b>					
<b>Lower</b>	Site ID:	330155		<b>AQUIFLOW</b>	<b>67036</b>
	Groundwater Flow:	Not Reported			
	Shallow Water Depth:	Not Reported			
	Deep Water Depth:	Not Reported			
	Average Water Depth:	8'			
	Date:	04/07/1998			
<hr/>					
<b>19G</b>					
<b>SSW</b>					
<b>1/2 - 1 Mile</b>					
<b>Lower</b>	Site ID:	41-1091		<b>AQUIFLOW</b>	<b>67037</b>
	Groundwater Flow:	Not Reported			
	Shallow Water Depth:	Not Reported			
	Deep Water Depth:	Not Reported			
	Average Water Depth:	8'			
	Date:	04/07/1998			
<hr/>					
<b>20G</b>					
<b>SSW</b>					
<b>1/2 - 1 Mile</b>					
<b>Lower</b>	Site ID:	440002		<b>AQUIFLOW</b>	<b>64368</b>
	Groundwater Flow:	NNE			
	Shallow Water Depth:	11.77			
	Deep Water Depth:	13.28			
	Average Water Depth:	Not Reported			
	Date:	07/03/1996			
<hr/>					
<b>21G</b>					
<b>SSW</b>					
<b>1/2 - 1 Mile</b>					
<b>Lower</b>	Site ID:	41-0223		<b>AQUIFLOW</b>	<b>64375</b>
	Groundwater Flow:	Not Reported			
	Shallow Water Depth:	Not Reported			
	Deep Water Depth:	Not Reported			
	Average Water Depth:	19			
	Date:	11/07/1988			

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database

EDR ID Number

**22G**  
**SSW**  
**1/2 - 1 Mile**  
**Lower**

Site ID: 440025  
Groundwater Flow: Not Reported  
Shallow Water Depth: Not Reported  
Deep Water Depth: Not Reported  
Average Water Depth: 19  
Date: 11/07/1988

**AQUIFLOW**    **64376**

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS RADON

## AREA RADON INFORMATION

State Database: CA Radon

### Radon Test Results

Zipcode	Num Tests	> 4 pCi/L
94063	19	2

Federal EPA Radon Zone for SAN MATEO County: 2

- Note: Zone 1 indoor average level > 4 pCi/L.  
 : Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.  
 : Zone 3 indoor average level < 2 pCi/L.

---

Federal Area Radon Information for Zip Code: 94063

Number of sites tested: 1

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.300 pCi/L	100%	0%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	Not Reported	Not Reported	Not Reported	Not Reported

# PHYSICAL SETTING SOURCE RECORDS SEARCHED

## TOPOGRAPHIC INFORMATION

### USGS 7.5' Digital Elevation Model (DEM)

Source: United States Geologic Survey

EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

### Current USGS 7.5 Minute Topographic Map

Source: U.S. Geological Survey

## HYDROLOGIC INFORMATION

**Flood Zone Data:** This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.

Source: FEMA

Telephone: 877-336-2627

Date of Government Version: 2003, 2015

**NWI:** National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005, 2010 and 2015 from the U.S. Fish and Wildlife Service.

### State Wetlands Data: Wetland Inventory

Source: Department of Fish and Wildlife

Telephone: 916-445-0411

## HYDROGEOLOGIC INFORMATION

### AQUIFLOW<sup>R</sup> Information System

Source: EDR proprietary database of groundwater flow information

EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

## GEOLOGIC INFORMATION

### Geologic Age and Rock Stratigraphic Unit

Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

### STATSGO: State Soil Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)

The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

### SSURGO: Soil Survey Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)

Telephone: 800-672-5559

SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

# PHYSICAL SETTING SOURCE RECORDS SEARCHED

## LOCAL / REGIONAL WATER AGENCY RECORDS

### FEDERAL WATER WELLS

#### PWS: Public Water Systems

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

#### PWS ENF: Public Water Systems Violation and Enforcement Data

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

#### USGS Water Wells: USGS National Water Inventory System (NWIS)

This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

## OTHER STATE DATABASE INFORMATION

### Groundwater Ambient Monitoring & Assessment Program

State Water Resources Control Board

Telephone: 916-341-5577

The GAMA Program is California's comprehensive groundwater quality monitoring program. GAMA collects data by testing the untreated, raw water in different types of wells for naturally-occurring and man-made chemicals. The GAMA data includes Domestic, Monitoring and Municipal well types from the following sources, Department of Water Resources, Department of Health Services, EDF, Agricultural Lands, Lawrence Livermore National Laboratory, Department of Pesticide Regulation, United States Geological Survey, Groundwater Ambient Monitoring and Assessment Program and Local Groundwater Projects.

### Water Well Database

Source: Department of Water Resources

Telephone: 916-651-9648

### California Drinking Water Quality Database

Source: Department of Public Health

Telephone: 916-324-2319

The database includes all drinking water compliance and special studies monitoring for the state of California since 1984. It consists of over 3,200,000 individual analyses along with well and water system information.

### California Oil and Gas Well Locations

Source: Dept of Conservation, Geologic Energy Management Division

Telephone: 916-323-1779

Oil and Gas well locations in the state.

### California Earthquake Fault Lines

Source: California Division of Mines and Geology

The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

## RADON

### State Database: CA Radon

Source: Department of Public Health

Telephone: 916-210-8558

Radon Database for California



## PHYSICAL SETTING SOURCE RECORDS SEARCHED

### Area Radon Information

Source: USGS

Telephone: 703-356-4020

The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

### EPA Radon Zones

Source: EPA

Telephone: 703-356-4020

Sections 307 & 309 of IRRA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

### OTHER

Airport Landing Facilities: Private and public use landing facilities

Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater

Source: Department of Commerce, National Oceanic and Atmospheric Administration

California Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines, prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

### STREET AND ADDRESS INFORMATION

Â© 2015 TomTom North America, Inc. All rights reserved. This material is proprietary and the subject of copyright protection and other intellectual property rights owned by or licensed to Tele Atlas North America, Inc. The use of this material is subject to the terms of a license agreement. You will be held liable for any unauthorized copying or disclosure of this material.

## Appendix E HISTORICAL RECORDS



**3705 Haven Avenue**

3705 Haven Ave  
Menlo Park, CA 94025

Inquiry Number: 7227915.5

January 20, 2023

# The EDR-City Directory Image Report

## TABLE OF CONTENTS

### SECTION

Executive Summary

Findings

City Directory Images

***Thank you for your business.***

Please contact EDR at 1-800-352-0050  
with any questions or comments.

### **Disclaimer - Copyright and Trademark Notice**

This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, Inc. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. **NO WARRANTY EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, INC. SPECIFICALLY DISCLAIMS THE MAKING OF ANY SUCH WARRANTIES, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, INC. BE LIABLE TO ANYONE, WHETHER ARISING OUT OF ERRORS OR OMISSIONS, NEGLIGENCE, ACCIDENT OR ANY OTHER CAUSE, FOR ANY LOSS OR DAMAGE, INCLUDING, WITHOUT LIMITATION, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR EXEMPLARY DAMAGES. ANY LIABILITY ON THE PART OF ENVIRONMENTAL DATA RESOURCES, INC. IS STRICTLY LIMITED TO A REFUND OF THE AMOUNT PAID FOR THIS REPORT.** Purchaser accepts this Report "AS IS". Any analyses, estimates, ratings, environmental risk levels or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction or forecast of, any environmental risk for any property. Only a Phase I Environmental Site Assessment performed by an environmental professional can provide information regarding the environmental risk for any property. Additionally, the information provided in this Report is not to be construed as legal advice.

Copyright 2020 by Environmental Data Resources, Inc. All rights reserved. Reproduction in any media or format, in whole or in part, of any report or map of Environmental Data Resources, Inc. or its affiliates is prohibited without prior written permission.

EDR and its logos (including Sanborn and Sanborn Map) are trademarks of Environmental Data Resources, Inc. or its affiliates. All other trademarks used herein are the property of their respective owners.

## EXECUTIVE SUMMARY

### DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Report is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Report includes a search of available city directory data at 5 year intervals.

### RECORD SOURCES

EDR's Digital Archive combines historical directory listings from sources such as Cole Information and Dun & Bradstreet. These standard sources of property information complement and enhance each other to provide a more comprehensive report.

EDR is licensed to reproduce certain City Directory works by the copyright holders of those works. The purchaser of this EDR City Directory Report may include it in report(s) delivered to a customer. Reproduction of City Directories without permission of the publisher or licensed vendor may be a violation of copyright.



### RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. A check mark indicates where information was identified in the source and provided in this report.

<u>Year</u>	<u>Target Street</u>	<u>Cross Street</u>	<u>Source</u>
2017	<input checked="" type="checkbox"/>	<input type="checkbox"/>	EDR Digital Archive
2014	<input checked="" type="checkbox"/>	<input type="checkbox"/>	EDR Digital Archive
2010	<input checked="" type="checkbox"/>	<input type="checkbox"/>	EDR Digital Archive
2005	<input checked="" type="checkbox"/>	<input type="checkbox"/>	EDR Digital Archive
2000	<input checked="" type="checkbox"/>	<input type="checkbox"/>	EDR Digital Archive
1995	<input checked="" type="checkbox"/>	<input type="checkbox"/>	EDR Digital Archive
1992	<input checked="" type="checkbox"/>	<input type="checkbox"/>	EDR Digital Archive
1986	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HAINES AND COMPANY
1981	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HAINES AND COMPANY
1978	<input checked="" type="checkbox"/>	<input type="checkbox"/>	POLK DIRECTORY CO
1973	<input checked="" type="checkbox"/>	<input type="checkbox"/>	POLK DIRECTORY CO
1969	<input checked="" type="checkbox"/>	<input type="checkbox"/>	POLK DIRECTORY CO
1964	<input checked="" type="checkbox"/>	<input type="checkbox"/>	POLK DIRECTORY CO
1957	<input checked="" type="checkbox"/>	<input type="checkbox"/>	POLK DIRECTORY CO

## EXECUTIVE SUMMARY

Year      Target Street      Cross Street      Source

## FINDINGS

### TARGET PROPERTY STREET

3705 Haven Ave  
Menlo Park, CA 94025

<u>Year</u>	<u>CD Image</u>	<u>Source</u>
-------------	-----------------	---------------

### HAVEN AVE

2017	pg A2	EDR Digital Archive
2014	pg A4	EDR Digital Archive
2010	pg A6	EDR Digital Archive
2005	pg A8	EDR Digital Archive
2000	pg A10	EDR Digital Archive
1995	pg A11	EDR Digital Archive
1992	pg A12	EDR Digital Archive
1986	pg A13	HAINES AND COMPANY
1986	pg A14	HAINES AND COMPANY
1981	pg A15	HAINES AND COMPANY
1981	pg A16	HAINES AND COMPANY
1978	pg A17	POLK DIRECTORY CO
1978	pg A18	POLK DIRECTORY CO
1973	pg A19	POLK DIRECTORY CO
1973	pg A20	POLK DIRECTORY CO
1969	pg A21	POLK DIRECTORY CO
1964	pg A22	POLK DIRECTORY CO
1964	pg A23	POLK DIRECTORY CO
1957	pg 0	POLK DIRECTORY CO
		Street not listed in Source

## FINDINGS

### CROSS STREETS

No Cross Streets Identified



## **City Directory Images**





-

**HAVEN AVE 2017 (Cont'd)**

3735	TYSON KENNELS WITMERTYSON IMPORTS
3750	NU GARAGE DOORS & GATES WALTER BAIL BONDS
3757	MENLO ATHERTON STORAGE WITMER TYSON IMPORTS





-

**HAVEN AVE 2014 (Cont'd)**

3757 WARREN, JIM M  
WITMER TYSON IMPORTS





-

**HAVEN AVE 2010 (Cont'd)**

- 3723 SAN FRANCISQUITO CREEK  
SCALE DB  
TITANIUM TECHNOLOGY  
VCI SYSTEMS INC  
WORLD INFO INC
- 3735 TYSON KENNELS
- 3757 MENLOATHERTON STORAGE  
WARREN, JOE  
WITMERTYSON IMPORTS
- 3760 NANOSYN INC

**HAVEN AVE 2005**

3600 AM & G  
 AM & G ALCALA MARBLE  
 CATERING BY GRACE  
 NOR CAL DESIGN  
 NOR, CAL  
 REAL STEEL SUPPLY  
 SHARADON SILK SCREENING  
 STEELMAN CYCLES  
 UNIVERSAL BY DANA  
 3601 WESTERN SERVICE CONTACT CORP  
 3603 INTELICOAT CORP  
 LANDEC CORP  
 NANOSTELLAR INC  
 PAK, MICHAEL D  
 3609 AURORA MANUFACTURING INC  
 AURORA MFG INC  
 3611 SS MANUFACTURING AND WOOD WORKING LL  
 3615 ALL CAR AUTO DISMANTLERS  
 LEONARD H BELASKI  
 REDWOOD GARDEN  
 3620 ANDERSON NISWANDER CONSTRUCTION INC  
 INTEGRATED BUILDERS INC  
 JAMES GUINN MASONRY CONTRACTOR  
 WATER HEATERS ONLY INC  
 3624 CF ARCHIBALD PAVING INC  
 3632 STRUCTURAL CNCRT & SHTCRT  
 STRUCTURAL CONCRETE AND SHOTCRETE IN  
 WEST COAST BUILDERS  
 3639 GOODMAN BALL INC  
 3641 NORCAL VOCATIONAL INC  
 3696 ISCIENCE SURGICAL  
 ORATEC INTERVENTIONS  
 3698 CARDIO KINETIX  
 EOPLEX TECHNOLOGIES INC  
 3705 BLUE RIDGE MASONRY  
 FATIMA FUNDING SOLUTIONS  
 FRIENDLY ISLE HOME CARE HMC  
 MEDIMENSION INC  
 MS BROKERAGE INC  
 REDDY SOFTWARE  
 3723 AGORICS INC  
 BREAKAWAY COMMUNICATIONS LLC  
 EMIFINANCIAL CORP  
 ES CAPITOL  
 HELPUSELL MENLO HOMES  
 LINKORE LLC  
 MENLO HOME SALES  
 MILLENNIUM IMAGING SOLUTIONS INC  
 MINFON INC  
 SECOND FOUNDATION INC





-

**HAVEN AVE 2005 (Cont'd)**

3723	SILICON IRAN
	SOUTH PACIFIC ASIAN LEGAL SERVICES
	SUBUTHI OVERSEAS INC
	TITANIUM TECHNOLOGY
3735	TYSON KENNELS
3760	NEUREX



**HAVEN AVE 1995**

3600	CROCKER, STEVE FILOMENAS ITALIAN M E FRENCH MACHINE SHOP NOR CAL DESIGN SHARADON SILK SCREENING
3601	CAL WEST MC GRAW INSURANCE SVC
3603	LANDEC LABS INC
3605	JOHN J SHOOTER INC
3607	ELDORADO FORKLIFT CO
3609	ALLPAK PACKING & CRATING INC
3615	ALL CAR AUTO DISMANTLERS
3620	GUYS ROOFING & GUTTERS JAMES GUINN INC NOR CAL WATERPROOFING
3624	A J EITNER ARTHUR J EITNER
3633	A & M PRECAST
3636	LEMMONS SIGNS
3637	ADVANCE SCAFFOLD & SHORING
3638	ROYAL DISTRIBUTORS
3639	GOODMAN BALL INC REMEDICATION TESTING & DESIGN
3640	PERATA, GEORGE
3641	KOPFMANN CONSTRUCTION INC SCIMITAR PARTNERS YOUTH ENTERPRISES RECYCLING
3645	HAVEN ENTERPRISES STORAGE
3651	BERGEN ENTERPRISES
3665	DIESEL ELECTRIC SALES
3696	ADVANCED POLYMER SYSTEMS INC
3698	COMMUNICATIONS RESEARCH CO CONRAD, WEI COTTAGE INDUSTRIES JAMES S HEATON CO
3705	BSG ASSOC INC
3717	KOB AUTO KOB SHOP
3723	THYSEN MANAGEMENT CO
3735	TYSON KENNELS
3750	MENLO PARK SCHUTZHUND CLUB INC
3757	MENLO ATHERTON STORAGE
3760	NEUREX CORP



✓

-

**HAVEN AVE 1986**

3600	B&B MOLD&MANUFCTRN	364-1637	
	COMMUNCTNS RESEARC	366-8248	1
	E C MFG	364-0223	+6
	ENERGETICS MCHNCL	361-1004	+6
	FRENCH M E MACH SHP	361-1440	2
	SPACE CONTROL	364-2797	+6
	TRANSPORTATN TECH	364-4550	0
	V M METAL	365-9780	5
	VETRA METAL FASTNRS	364-3550	5
3620	GUINN JAMES INC	369-0195	+6
	SOUTHEAST ROOFING	364-0338	3
3624	A R D O	364-7025	3
	ARCHIBALD C F PAVNG	364-3045	3
	DUFFY CONSTRUCTION	368-2179	+6
	EITNER ARTHUR J	366-4250	3
3636	LEMMONS SIGNS	365-1747	
3638	ROYAL DISTRIBUTORS	365-3040	
3642	XXXX	00	
3645	XXXX	00	
3696	A M C O POLYMERICS	366-2626	+6
	ADVANCED POLYMER	366-2626	+6
	H&K SALES INC	367-1400	8
	HEATON JAS S CO	367-9000	8
	MITCO PETROLEUM INC	367-0737	5

## HAVEN AVE 1986

3605	SHOOTER JOHN J INC	364-9720	3
3609A	ALLPAK PACKNG&CRATG	364-7355	+6
3611	LABELIT INC	367-1442	0
	PIERS DAIRY PRODUCT	369-9200	+6
3615	ALL CAR AUTO WRCKRS	364-2113	
	ALLCAR AUTO DSMNTR	364-2113	2
	BEST BODY	369-4904	+6
3633	XXXX	00	
3635	ARNOLD BARRY	364-9616	+6
	BOAT YARD THE	361-9927	3
	WEST VALLEY CONSTR	364-9464	8
3637	DRIVER EQUIP LSNG	366-2001	+6
	INTERMODAL DLVRY SV	368-2118	+6
3641	BARIENT CO	367-9924	5
	BARLOW MARINE USA	365-7625	5
	ONLY FROM ITALY	364-0800	+6
	ULTRASPORTS	363-2200	5
3643	XXXX	00	
3645	HAVEN ENTRPRS STRGE	365-2871	
3651	BERGEN INDUSTRIES	364-4040	+6
3665	AVERELL MICHAEL S	369-3853	
	DIESEL ELECTRIC SLS	364-0734	
3694	XXXX	00	
3696	XXXX	00	
3700	INDUSTRL GRDN MNTNC	364-2454	1
3704	METCAL INC	366-3777	4
3705	SILTEC CORP	365-8600	5
	SILTEC PACKAGNG DIV	365-8600	
3717	XXXX	00	
3721	XXXX	00	
3723	CLEARVIEW TV ADMIN	366-2601	+6
	CLEARVIEW TV SALES	363-2406	+6
3735	TYCOMP	364-3151	
	TYSON KENNELS	364-3151	
3750	CARL W OLSON&SONS	323-1851	2
	OLSON CARL W&SONS	323-1851	
3760	ENGENICS INC	324-8600	4



✓

-

**HAVEN AVE 1981**

3600	B&B MOLD&MANUFCTRN	364-1637	5
	BURKE JAMES B CO	366-4444	7
	COMMUNCTNS RESEARC	366-8248	+1
	CONTRACT METAL PRDS	364-6811	8
	FRENCH MARVIN E	365-5717	9
	MCMAHON BILL	367-1220	0
	PAC CST REBUILD CTR	365-7614	9
	TECHNE ELECTRONICS	367-8646	0
	TRANSPORTATN TECH	364-4550	0
3620	FIBER CYCLE	367-9090	0
	FOARD&NOLAN CONSTR	367-6565	+1
3624	LEWIES TRACK SERV	369-3453	
	LOUIES TRACK SERVIC	369-3453	+1
3636	LEMMONS SIGNS	365-1747	6
	THERMO ENGNRD SOLAR	367-8124	0
3638	ROYAL DISTRIBUTORS	365-3040	5
3642	EVAN ALAN INC	368-8443	
3645	XXXX	00	
3696	ATLAS SAFE CO	367-8700	8
	H&K SALES INC	367-1400	8
	HEATON JAS S CO	367-9000	8

✓

-

**HAVEN AVE 1981**

3605	SHOOTER ARTHUR INC	365-5010	4
3611	CAP SNAP SEAL INC	364-3377+1	
	LABELIT INC	367-1442	0
3615	FINE BROS	367-8886+1	
3633	XXXX	00	
3635	BOAT YARD THE	365-9927	
	WEST VALLEY CONSTR	364-9464	8
3637	TRUSTY ROOFING CO	366-0788	
3641	WESTATES TRUCK EQPT	364-4500	4
	WESTSTATES TRCK EQP	364-4500	3
3643	XXXX	00	
3645	HAVEN ENTRPRS STRGE	365-2871	6
3665	AVERELL MICHAEL S	369-3853	6
	DIESEL ELECTRIC SLS	364-0734	
3696	XXXX	00	
3700	HUETTIG&SCHROMM INC	364-2454	4
	INDUSTRIAL GDN MNTC	364-2454+1	
3717	SILTEC CORP	365-8600	
3721	XXXX	00	
3735	TYCOMP BUSINESS SVC	364-3153	7
	TYSON KENNELS	364-3151	4
3750	OLSON CARL W&SONS	323-1851	3
3760	COLE JOHN M CO	328-2653	6



## HAVEN AVE 1978

3551m H B M Enterprises Inc  
autos whol 367-0910

3551n Vacant

3551o Peninsula Mtce (Ofc)

3551p Coast Q R S Inc neon sign  
mfg 364-5440

3551q California Hot Tub Co Inc  
mfrs & distributor wood  
tubs 364-0700

3551r California Hot Tubs Co Inc  
(Corp Ofc)

3551s Larwood Mark Co (Ofc)

3551t Vacant

3551u Eldex Laboratories Inc  
electronics mfrs 364-8159

3551w Mersch-Karikas Inc mfr  
reps 365-8331

3551x Peninsula Wood Products  
368-7432

3555 Long Life Products bulbs &  
tubes 364-6515

3559 California Cabinets cabt  
mkrs 369-1734

3605 Shooter Arthur H Inc  
landscape archt contr  
365-5010

3611 Cap Snap Seal Inc btlrs sup  
364-3377

3615 Fine Bros Auto Wreckers  
368-5455

3633 Vacant

3635 West Valley Construction  
Touchatt Trucking Co (Ofc)  
365-9355

3637 Trusty Roofing Co 366-0788

3641 Weststates Truck Equip Corp.  
364-4500

## HAVEN AVE 1978

**HAVEN AV—Contd**

- 3643 Caria & Sons Enterprises**  
recreation vehicle mfg  
364-2151
- 3645 Turner Enterprises**  
recreational vehicle repr  
365-2871
- Haven Enterprises**  
recreational vehicle stge  
365-2871
- 3645a Ferris Hoist & Repair truck**  
repr 365-6665
- 3665 Diesel Electric Sls elec mtrs**  
364-0734
- 3695 Siltec Corp ofcs**  
**HAVEN COURT BEGINS**
- 3705 R O Associates Inc electronic**  
power supplies 322-5321
- 3717 Siltec Corp silicon crystal**  
mfrs 365-8600
- 3721 Siltec Corp (Whse)**
- 3723 R O Associates (Ofc)**  
322-5321
- 3735 Tycomp Business Service**  
automation system 364-3153  
Tyson Kennels 364-3151
- 3750 Olson Carl W & Sons Inc**  
bldg contrs 323-1851
- MARSH RD INTERSECTS**
- 3760 Cole John M Co constn**  
equip 328-2653



**HAVEN AVE 1973**

27

**HAVEN AV —FROM  
NORTHWEST CITY LIMITS  
SOUTHEAST AND NORTH  
NORTH TO BAYSHORE  
HWY****ZIP CODE 94025**

- 3501 Bernard Associates distrs-  
importers 365-8585
- 3503 A-A Printers litho 365-1919
- 3505 Advanced Wheelchair Co
- 3507 Larwood Mark Co (Whse)
- 3509 Polytec machihne shop  
365-8648
- 3511 Noren Products Inc 365-0632
- 3517 Just Plain Smith Co The  
woodcraft products 364-3031
- 3519 Vacant (3519-3523)
- 3525 Long Life Products Inc  
364-6515
- 3527 Vacant
- 3529 Electro Technology
- 3533 I W Enterprises
- 3535 Vacant (3535-45)
- 3605 Shooter Arthur A Inc  
landscape archt contr  
365-5010
- 3611 Cap Snap Seal Inc (Whse)
- 3615 A-Auto Salvage 342-4812  
Fine Bros Auto Wreckers  
bldg materials 368-5455
- 3633 Peterson Roofing Co 365-0803  
Ferguson Oscar Termite  
Control 365-0226
- 3635 Brown Tom boat works
- 3637 Trusty Roofing Co 366-0788
- 3641 West States Truck  
Equipment Co 364-4500
- 3645 Middlefield Supply auto  
wreckers 369-2941
- 3651 Trucks Wholesale Inc  
365-7000
- 3665 Vacant
- 3695 Siltec Corp ofcs
- HAVEN COURT BEGINS**
- 3705 R O Associates Inc electronic  
power supplies 322-5321
- 3717 Siltec Corp silicon crystal  
mfrs 365-8600
- 3721 Permagg Sierra Corp  
fabricators magnetic  
materials 369-0303

HAVEN AVE 1973

---

**3723 Heaton James L Co**  
**electronic equip 369-4671**  
**H & K Sales Inc electronic**  
**equip 369-6244**  
**3750 Olson Carl W & Sons Inc**  
**bldg contrs 323-1851**

---

## HAVEN AVE 1969

**HAVEN AV —FROM  
NORTHWEST CITY LIMITS  
SOUTHEAST AND NORTH,  
NORTH TO BAYSHORE  
HWY**

ZIP CODE 94025

- 3501 Bernard Associates mfr  
agts 365-8585
- 3513 Vacant
- 3615 Fine Bros bldg materials  
368-5455
- 3633 Bauman John F grading  
contr 366-4621
- 3637 Trusty Roofing Co 366-0788
- 3645 Middlefield Supply auto  
wreckers 369-2941
- 3665 La Marr Industries Inc  
steel lab 368-1372
- 3695 Atlas Sales Co electronic  
equip 368-2986
- Heaton James L Co  
electronic equip 369-4671
- H & K Sales Inc electronic  
equip 369-6244
- 3705 Heuttig & Schromm Inc  
landscape gdnrs 325-3205  
Industrial Garden  
Maintenance 325-3205
- 3717 Siltec Corp silicon crystal  
mfrs 365-8600
- 3719 Assembly Technology Corp  
lead die bonding 365-8555
- 3745 Middlefield Sup (Stge)
- 3750 Holmes Oscar C Co constn  
engs 322-5393



## HAVEN AVE 1964

**Bayshore hwy intersects**

3504 Vacant

3506 Vacant

3524 Oil Marketing Equip Co  
368-0752

3536 Sequoia Mill cabt mkrs  
368-3864

3562 Pac Equip Rentals  
contrs 369-9188

3570 Bergie Plmb Co  
368-9494

3580 Colonial Bakeries Inc  
368-5947

3582 Regal Sls Co (garage)

3586 Regal Sls Co drugs  
distr 369-3776

3592 Bennett Hookins Corp  
369-3781

3594 Marconi Food Serv  
caterers 369-3724

Marconi Vending Co  
369-8093

## HAVEN AVE 1964

HAVEN AV—Contd  
3596 Garrett & Associates  
jwlry 369-8229  
3600 Coast Insulations Co  
contrs 368-2953  
3620 Patt Jas Plastering  
369-0353  
3624 Lewies Track Serv repr  
& sls 369-3453  
3636 Berges Steel Erector  
368-0431  
Masonry Panels fiber  
glass 369-2949  
3638 Royal Distr Co  
3642 Tree Products Co mfrs  
368-8443  
3696 Linck Wallace H truck  
dlrs 368-8730  
Litco Inv Co 368-8730  
Edwards Wood Products  
Inc 365-0940



**3705 Haven Avenue**

3705 Haven Avenue

Menlo Park, CA 94025

Inquiry Number: 7227915.8

January 18, 2023

# The EDR Aerial Photo Decade Package



6 Armstrong Road, 4th floor  
Shelton, CT 06484  
Toll Free: 800.352.0050  
[www.edrnet.com](http://www.edrnet.com)



# EDR Aerial Photo Decade Package

01/18/23

**Site Name:**

3705 Haven Avenue  
3705 Haven Avenue  
Menlo Park, CA 94025  
EDR Inquiry # 7227915.8

**Client Name:**

Stantec  
290 Conejo Ridge Avenue  
Thousand Oaks, CA 91361  
Contact: Jennifer Alvarado



Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

**Search Results:**

<u>Year</u>	<u>Scale</u>	<u>Details</u>	<u>Source</u>
2020	1"=500'	Flight Year: 2020	USDA/NAIP
2016	1"=500'	Flight Year: 2016	USDA/NAIP
2012	1"=500'	Flight Year: 2012	USDA/NAIP
2009	1"=500'	Flight Year: 2009	USDA/NAIP
2005	1"=500'	Flight Year: 2005	USDA/NAIP
1998	1"=500'	Flight Date: August 27, 1998	USDA
1991	1"=500'	Acquisition Date: January 01, 1991	USGS/DOQQ
1982	1"=500'	Flight Date: July 05, 1982	USDA
1974	1"=500'	Flight Date: June 26, 1974	USGS
1968	1"=500'	Flight Date: June 14, 1968	USGS
1963	1"=500'	Flight Date: June 23, 1963	EDR Proprietary Aerial Viewpoint
1958	1"=500'	Flight Date: July 21, 1958	USGS
1950	1"=500'	Flight Date: April 03, 1950	USDA
1948	1"=500'	Acquisition Date: September 26, 1948	USGS/DOQQ
1943	1"=500'	Flight Date: October 05, 1943	USDA

**When delivered electronically by EDR, the aerial photo images included with this report are for ONE TIME USE ONLY. Further reproduction of these aerial photo images is prohibited without permission from EDR. For more information contact your EDR Account Executive.**

**Disclaimer - Copyright and Trademark Notice**

This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, LLC. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. This Report is provided on an "AS IS", "AS AVAILABLE" basis. NO WARRANTY EXPRESS OR IMPLIED IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT.

ENVIRONMENTAL DATA RESOURCES, LLC AND ITS SUBSIDIARIES, AFFILIATES AND THIRD PARTY SUPPLIERS DISCLAIM ALL WARRANTIES, OF ANY KIND OR NATURE, EXPRESS OR IMPLIED, ARISING OUT OF OR RELATED TO THIS REPORT OR ANY OF THE DATA AND INFORMATION PROVIDED IN THIS REPORT, INCLUDING WITHOUT LIMITATION, ANY WARRANTIES REGARDING ACCURACY, QUALITY, CORRECTNESS, COMPLETENESS, COMPREHENSIVENESS, SUITABILITY, MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, TITLE, NON-INFRINGEMENT, MISAPPROPRIATION, OR OTHERWISE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, LLC OR ITS SUBSIDIARIES, AFFILIATES OR THIRD PARTY SUPPLIERS BE LIABLE TO ANYONE FOR ANY DIRECT, INCIDENTAL, INDIRECT, SPECIAL, CONSEQUENTIAL OR OTHER DAMAGES OF ANY TYPE OR KIND (INCLUDING BUT NOT LIMITED TO LOSS OF PROFITS, LOSS OF USE, OR LOSS OF DATA), ARISING OUT OF OR IN ANY WAY CONNECTED WITH THIS REPORT OR ANY OF THE DATA AND INFORMATION PROVIDED IN THIS REPORT.

Any analyses, estimates, ratings, environmental risk levels, or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction or forecast of, any environmental risk for any property. Only an assessment performed by a qualified environmental professional can provide findings, opinions or conclusions regarding the environmental risk or conditions in, on or at any property.

Copyright 2023 by Environmental Data Resources, Inc. All rights reserved. Reproduction in any media or format, in whole or in part, of any report or map of Environmental Data Resources, Inc., or its affiliates, is prohibited without prior written permission.

EDR and its logos (including Sanborn and Sanborn Map) are trademarks of Environmental Data Resources, LLC or its affiliates. All other trademarks used herein are the property of their respective owners.



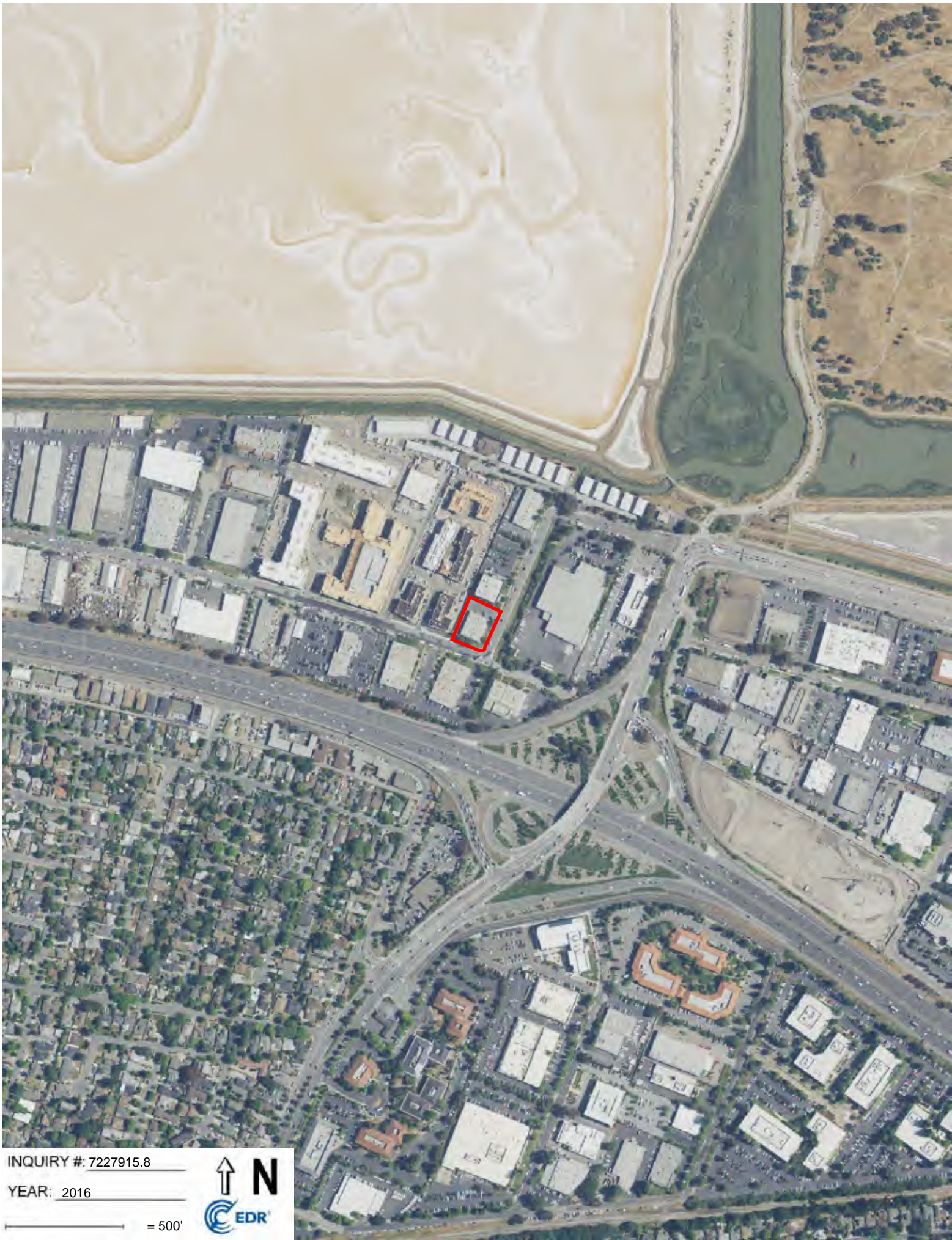
INQUIRY #: 7227915.8

YEAR: 2020

\_\_\_\_\_ = 500'







INQUIRY # 7227915.8

YEAR: 2016

\_\_\_\_\_ = 500'







INQUIRY #: 7227915.8

YEAR: 2012

\_\_\_\_\_ = 500'







INQUIRY #: 7227915.8

YEAR: 2009

\_\_\_\_\_ = 500'







INQUIRY #: 7227915.8

YEAR: 2005

\_\_\_\_\_ = 500'







INQUIRY #: 7227915.8

YEAR: 1998

\_\_\_\_\_ = 500'







INQUIRY #: 7227915.8

YEAR: 1991

\_\_\_\_\_ = 500'







INQUIRY #: 7227915.8

YEAR: 1982

\_\_\_\_\_ = 500'







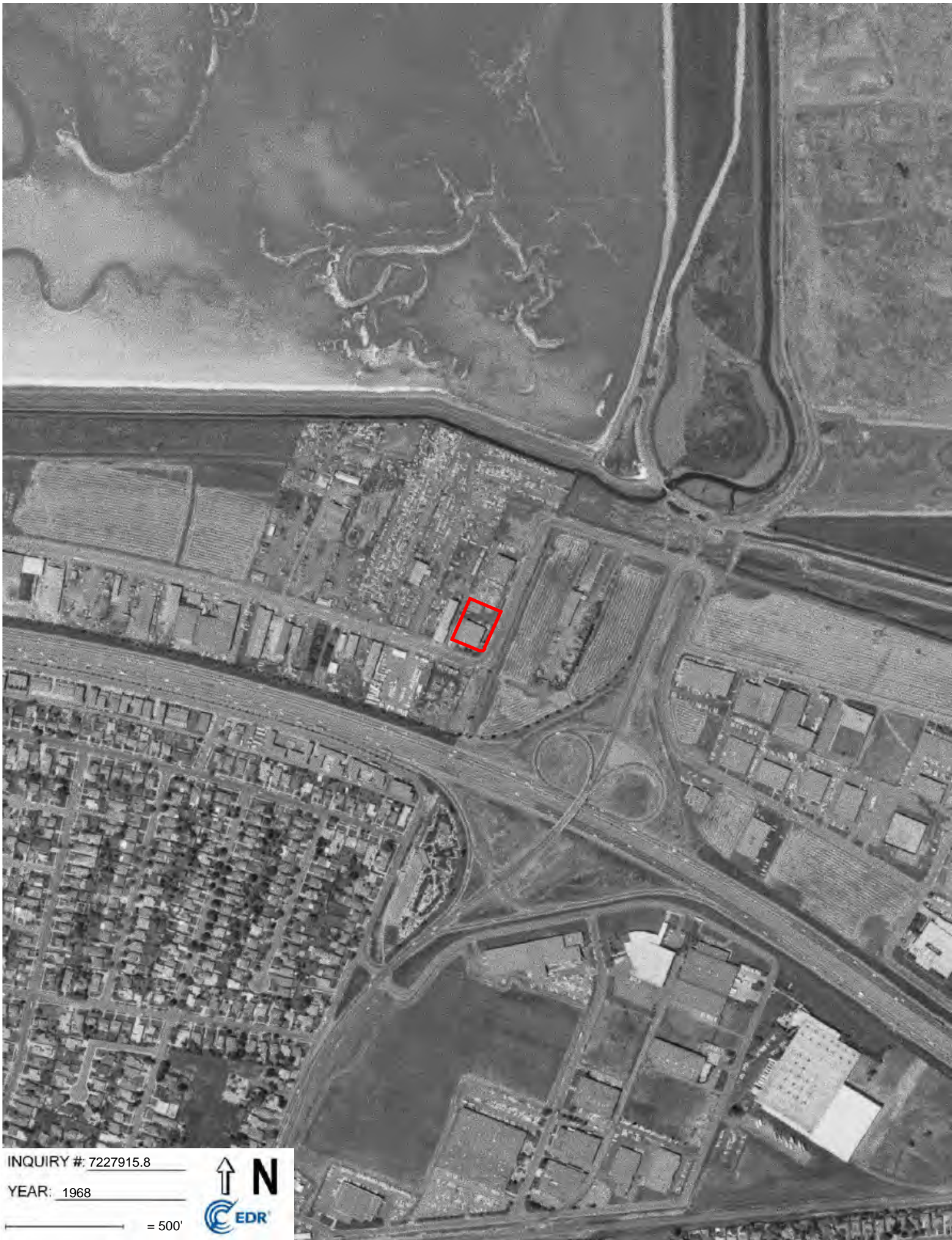
INQUIRY #: 7227915.8

YEAR: 1974

\_\_\_\_\_ = 500'







INQUIRY #: 7227915.8

YEAR: 1968

\_\_\_\_\_ = 500'







INQUIRY #: 7227915.8

YEAR: 1963

\_\_\_\_\_ = 500'







INQUIRY #: 7227915.8

YEAR: 1958

\_\_\_\_\_ = 500'







INQUIRY #: 7227915.8

YEAR: 1950

\_\_\_\_\_ = 500'





INQUIRY #: 7227915.8

YEAR: 1948

\_\_\_\_\_ = 500'



Subject boundary not shown because it exceeds image extent or image is not georeferenced.





INQUIRY #: 7227915.8

YEAR: 1943

— = 500'





3705 Haven Avenue

3705 Haven Avenue

Menlo Park, CA 94025

Inquiry Number: 7227915.4

January 18, 2023

# EDR Historical Topo Map Report

with QuadMatch™



6 Armstrong Road, 4th floor  
Shelton, CT 06484  
Toll Free: 800.352.0050  
[www.edrnet.com](http://www.edrnet.com)

# EDR Historical Topo Map Report

01/18/23

**Site Name:**

3705 Haven Avenue  
3705 Haven Avenue  
Menlo Park, CA 94025  
EDR Inquiry # 7227915.4

**Client Name:**

Stantec  
290 Conejo Ridge Avenue  
Thousand Oaks, CA 91361  
Contact: Jennifer Alvarado



EDR Topographic Map Library has been searched by EDR and maps covering the target property location as provided by Stantec were identified for the years listed below. EDR's Historical Topo Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDR's Historical Topo Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the late 1800s.

**Search Results:****Coordinates:**

<b>P.O.#</b>	NA	<b>Latitude:</b>	37.485554 37° 29' 8" North
<b>Project:</b>	1858	<b>Longitude:</b>	-122.182229 -122° 10' 56" West
		<b>UTM Zone:</b>	Zone 10 North
		<b>UTM X Meters:</b>	572297.41
		<b>UTM Y Meters:</b>	4149052.66
		<b>Elevation:</b>	10.00' above sea level

**Maps Provided:**

2018	1948, 1953
2015	1947, 1948
2012	1943
1999	1902
1994, 1996	1899
1973	1897
1968	
1959, 1961	

**Disclaimer - Copyright and Trademark Notice**

This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, LLC. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. This Report is provided on an "AS IS", "AS AVAILABLE" basis. NO WARRANTY EXPRESS OR IMPLIED IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, LLC AND ITS SUBSIDIARIES, AFFILIATES AND THIRD PARTY SUPPLIERS DISCLAIM ALL WARRANTIES, OF ANY KIND OR NATURE, EXPRESS OR IMPLIED, ARISING OUT OF OR RELATED TO THIS REPORT OR ANY OF THE DATA AND INFORMATION PROVIDED IN THIS REPORT, INCLUDING WITHOUT LIMITATION, ANY WARRANTIES REGARDING ACCURACY, QUALITY, CORRECTNESS, COMPLETENESS, COMPREHENSIVENESS, SUITABILITY, MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, TITLE, NON-INFRINGEMENT, MISAPPROPRIATION, OR OTHERWISE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, LLC OR ITS SUBSIDIARIES, AFFILIATES OR THIRD PARTY SUPPLIERS BE LIABLE TO ANYONE FOR ANY DIRECT, INCIDENTAL, INDIRECT, SPECIAL, CONSEQUENTIAL OR OTHER DAMAGES OF ANY TYPE OR KIND (INCLUDING BUT NOT LIMITED TO LOSS OF PROFITS, LOSS OF USE, OR LOSS OF DATA), ARISING OUT OF OR IN ANY WAY CONNECTED WITH THIS REPORT OR ANY OF THE DATA AND INFORMATION PROVIDED IN THIS REPORT. Any analyses, estimates, ratings, environmental risk levels, or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction or forecast of, any environmental risk for any property. Only an assessment performed by a qualified environmental professional can provide findings, opinions or conclusions regarding the environmental risk or conditions in, on or at any property.

Copyright 2023 by Environmental Data Resources, Inc. All rights reserved. Reproduction in any media or format, in whole or in part, of any report or map of Environmental Data Resources, Inc., or its affiliates, is prohibited without prior written permission.

EDR and its logos (including Sanborn and Sanborn Map) are trademarks of Environmental Data Resources, LLC or its affiliates. All other trademarks used herein are the property of their respective owners.

## Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

### 2018 Source Sheets



Palo Alto  
2018  
7.5-minute, 24000



Redwood Point  
2018  
7.5-minute, 24000

### 2015 Source Sheets



Palo Alto  
2015  
7.5-minute, 24000



Redwood Point  
2015  
7.5-minute, 24000

### 2012 Source Sheets



Palo Alto  
2012  
7.5-minute, 24000



Redwood Point  
2012  
7.5-minute, 24000

### 1999 Source Sheets



Palo Alto  
1999  
7.5-minute, 24000  
Aerial Photo Revised 1999

## Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

### 1994, 1996 Source Sheets



Palo Alto  
1994  
7.5-minute, 24000  
Aerial Photo Revised 1991



Redwood Point  
1996  
7.5-minute, 24000  
Aerial Photo Revised 1993

### 1973 Source Sheets



Redwood Point  
1973  
7.5-minute, 24000  
Aerial Photo Revised 1973



Palo Alto  
1973  
7.5-minute, 24000  
Aerial Photo Revised 1973

### 1968 Source Sheets



Palo Alto  
1968  
7.5-minute, 24000  
Aerial Photo Revised 1968



Redwood Point  
1968  
7.5-minute, 24000  
Aerial Photo Revised 1968

### 1959, 1961 Source Sheets



Redwood Point  
1959  
7.5-minute, 24000  
Aerial Photo Revised 1958



Palo Alto  
1961  
7.5-minute, 24000  
Aerial Photo Revised 1960

## Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

### 1948, 1953 Source Sheets



Redwood Point  
1948  
7.5-minute, 24000



Palo Alto  
1953  
7.5-minute, 24000  
Aerial Photo Revised 1948

### 1947, 1948 Source Sheets



PALO ALTO  
1947  
15-minute, 50000



HAYWARD  
1948  
15-minute, 50000

### 1943 Source Sheets



Palo Alto  
1943  
15-minute, 62500  
Aerial Photo Revised 1940

### 1902 Source Sheets



Santa Cruz  
1902  
30-minute, 125000

## **Topo Sheet Key**

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

### **1899 Source Sheets**



Palo Alto  
1899  
15-minute, 62500



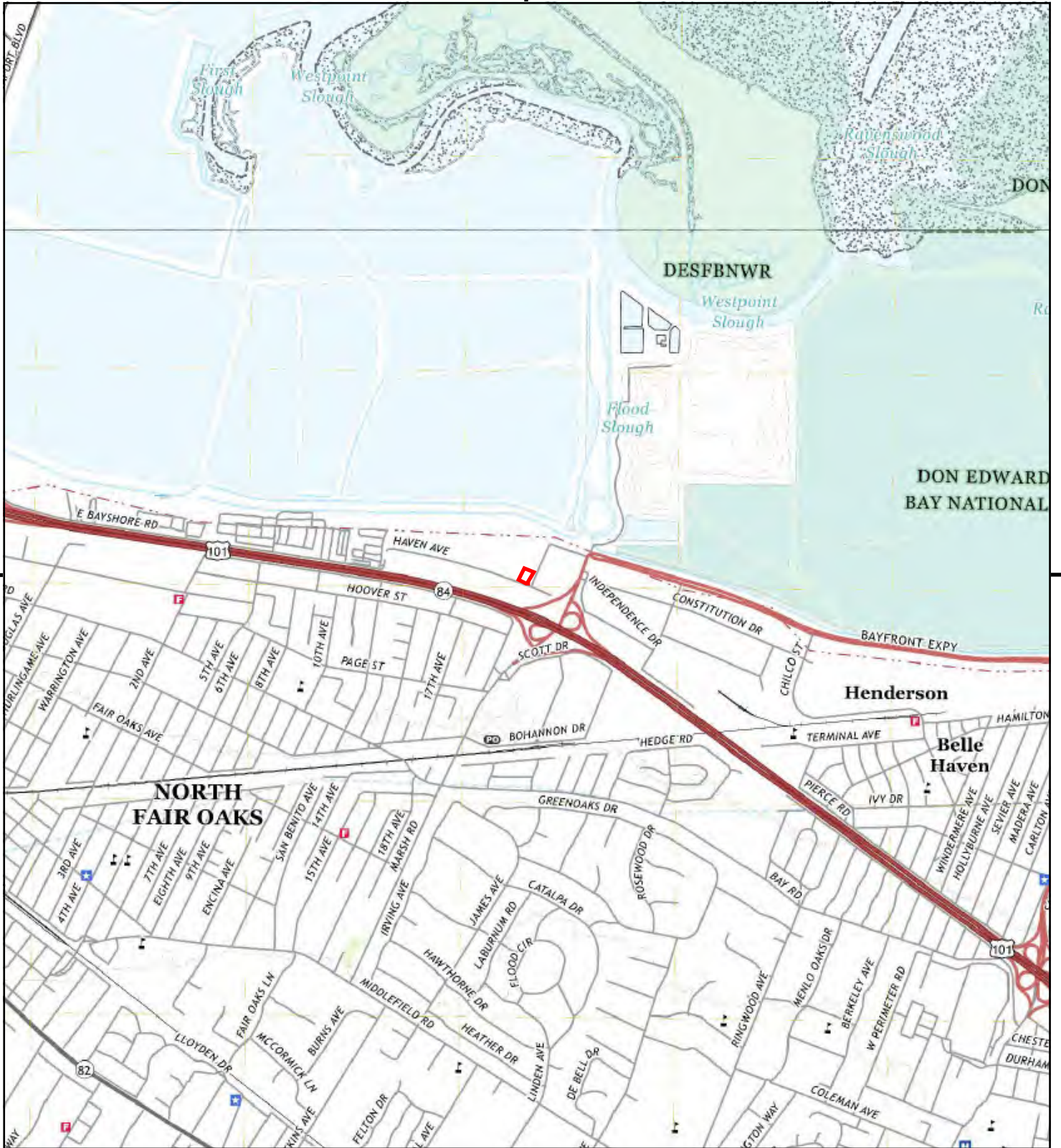
Haywards  
1899  
15-minute, 62500

### **1897 Source Sheets**

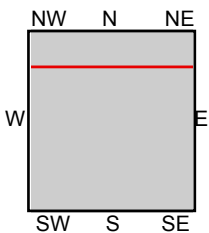
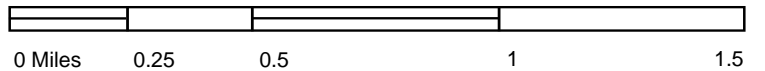


Palo Alto  
1897  
15-minute, 62500





This report includes information from the following map sheet(s).

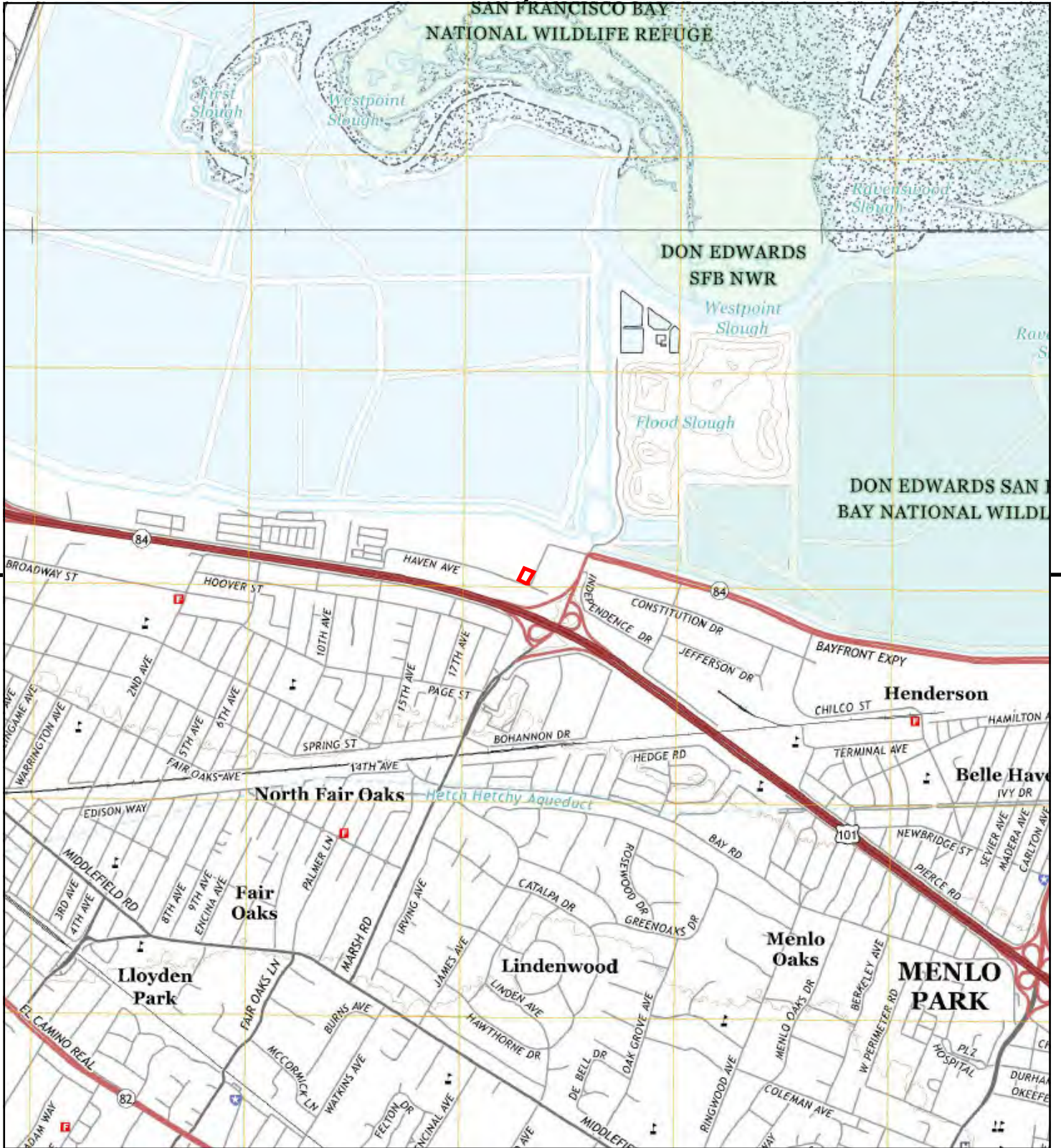


TP, Palo Alto, 2018, 7.5-minute  
 N, Redwood Point, 2018, 7.5-minute

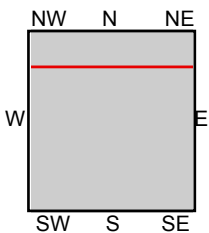
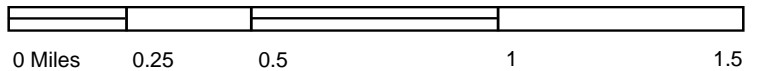
SITE NAME: 3705 Haven Avenue  
 ADDRESS: 3705 Haven Avenue  
 Menlo Park, CA 94025  
 CLIENT: Stantec







This report includes information from the following map sheet(s).

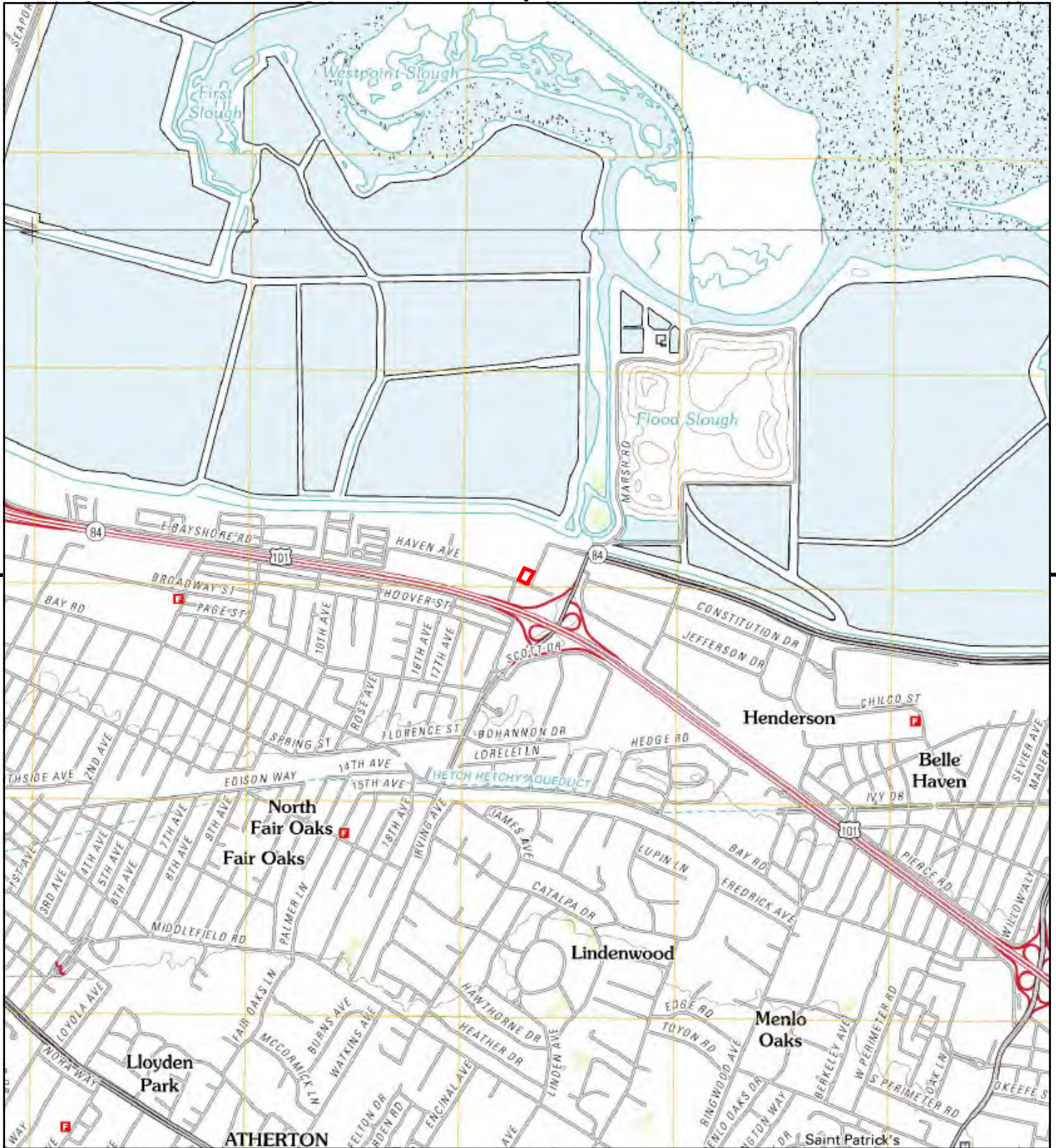


TP, Palo Alto, 2015, 7.5-minute  
 N, Redwood Point, 2015, 7.5-minute

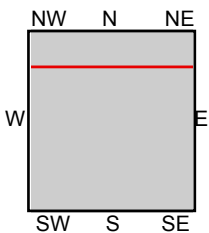
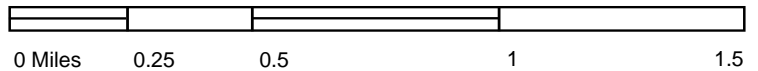
SITE NAME: 3705 Haven Avenue  
 ADDRESS: 3705 Haven Avenue  
 Menlo Park, CA 94025  
 CLIENT: Stantec







This report includes information from the following map sheet(s).



TP, Palo Alto, 2012, 7.5-minute  
 N, Redwood Point, 2012, 7.5-minute

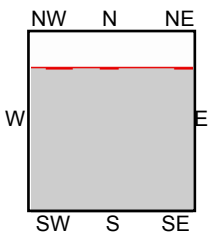
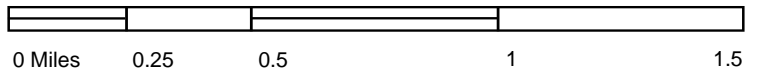
SITE NAME: 3705 Haven Avenue  
 ADDRESS: 3705 Haven Avenue  
 Menlo Park, CA 94025  
 CLIENT: Stantec







This report includes information from the following map sheet(s).

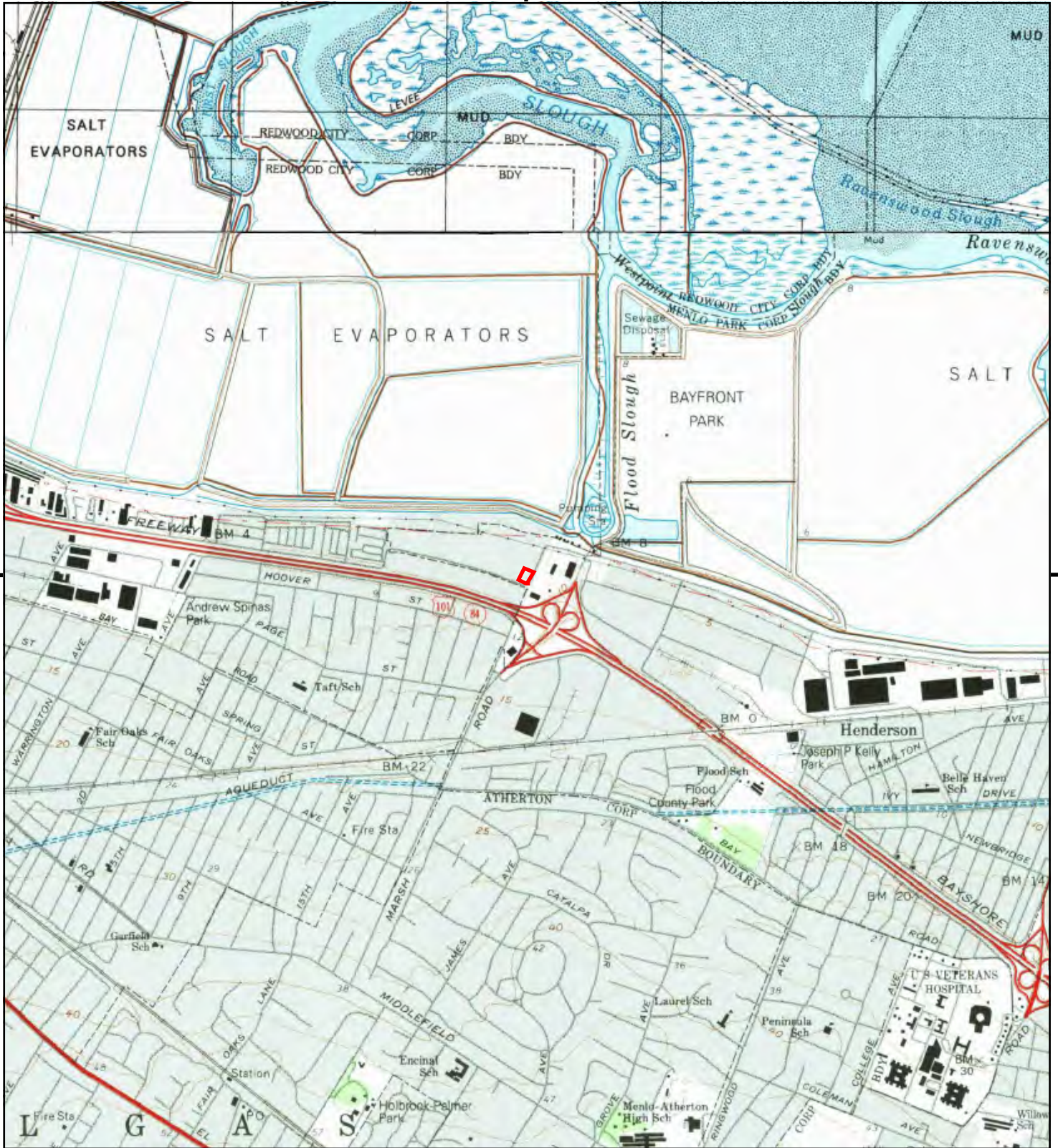


TP, Palo Alto, 1999, 7.5-minute

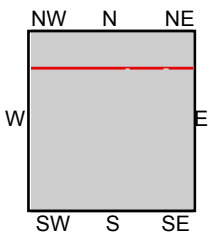
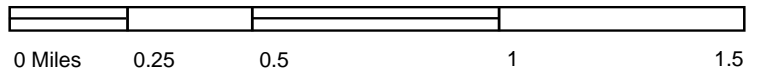
SITE NAME: 3705 Haven Avenue  
 ADDRESS: 3705 Haven Avenue  
 Menlo Park, CA 94025  
 CLIENT: Stantec







This report includes information from the following map sheet(s).

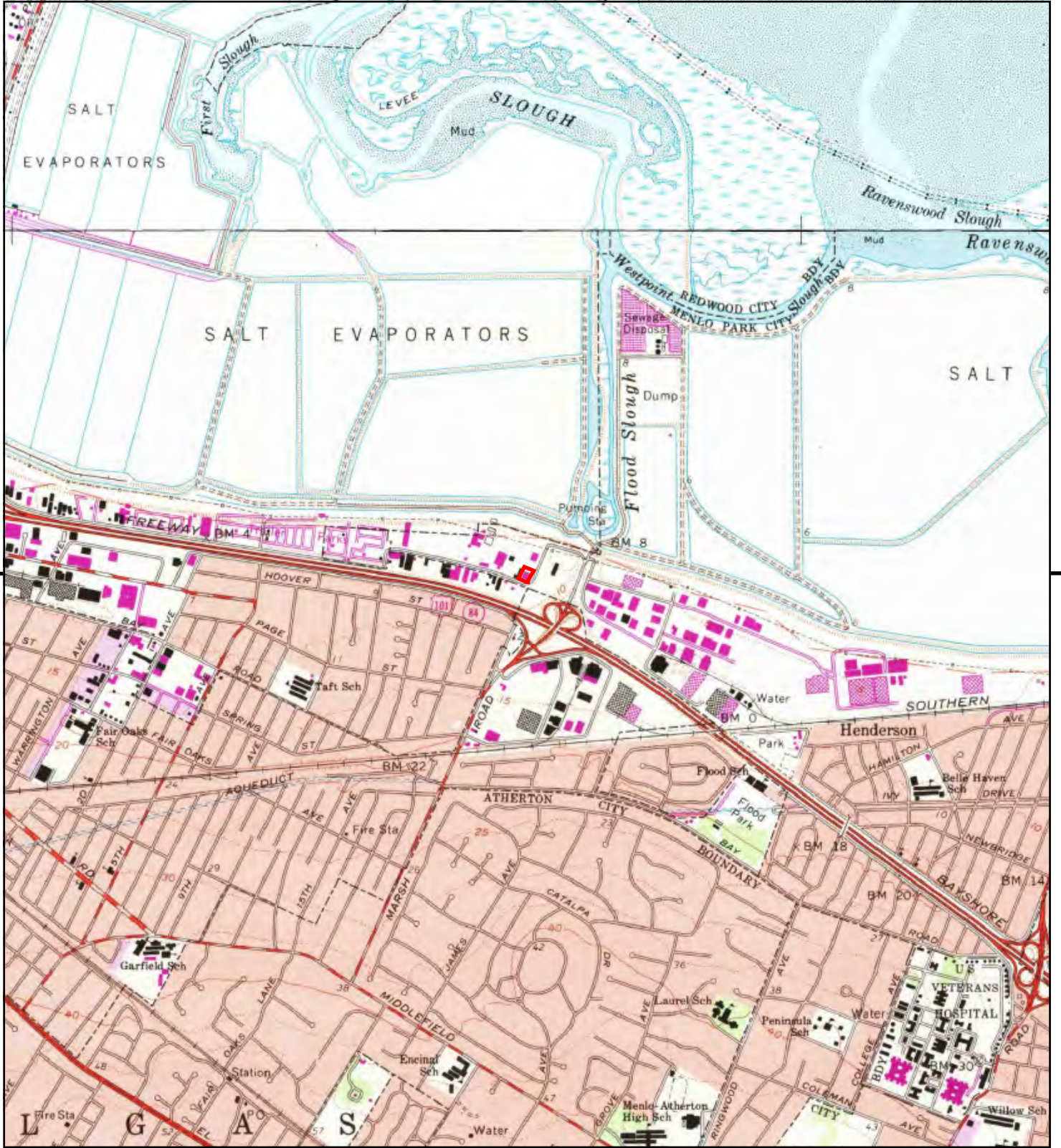


TP, Palo Alto, 1994, 7.5-minute  
 N, Redwood Point, 1996, 7.5-minute

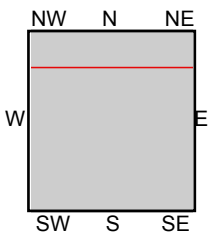
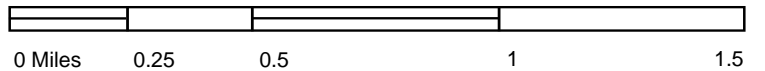
**SITE NAME:** 3705 Haven Avenue  
**ADDRESS:** 3705 Haven Avenue  
 Menlo Park, CA 94025  
**CLIENT:** Stantec







This report includes information from the following map sheet(s).



TP, Palo Alto, 1973, 7.5-minute  
 N, Redwood Point, 1973, 7.5-minute

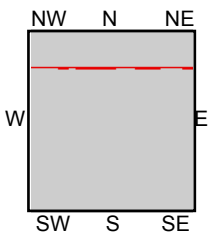
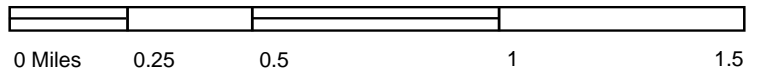
SITE NAME: 3705 Haven Avenue  
 ADDRESS: 3705 Haven Avenue  
 Menlo Park, CA 94025  
 CLIENT: Stantec







This report includes information from the following map sheet(s).

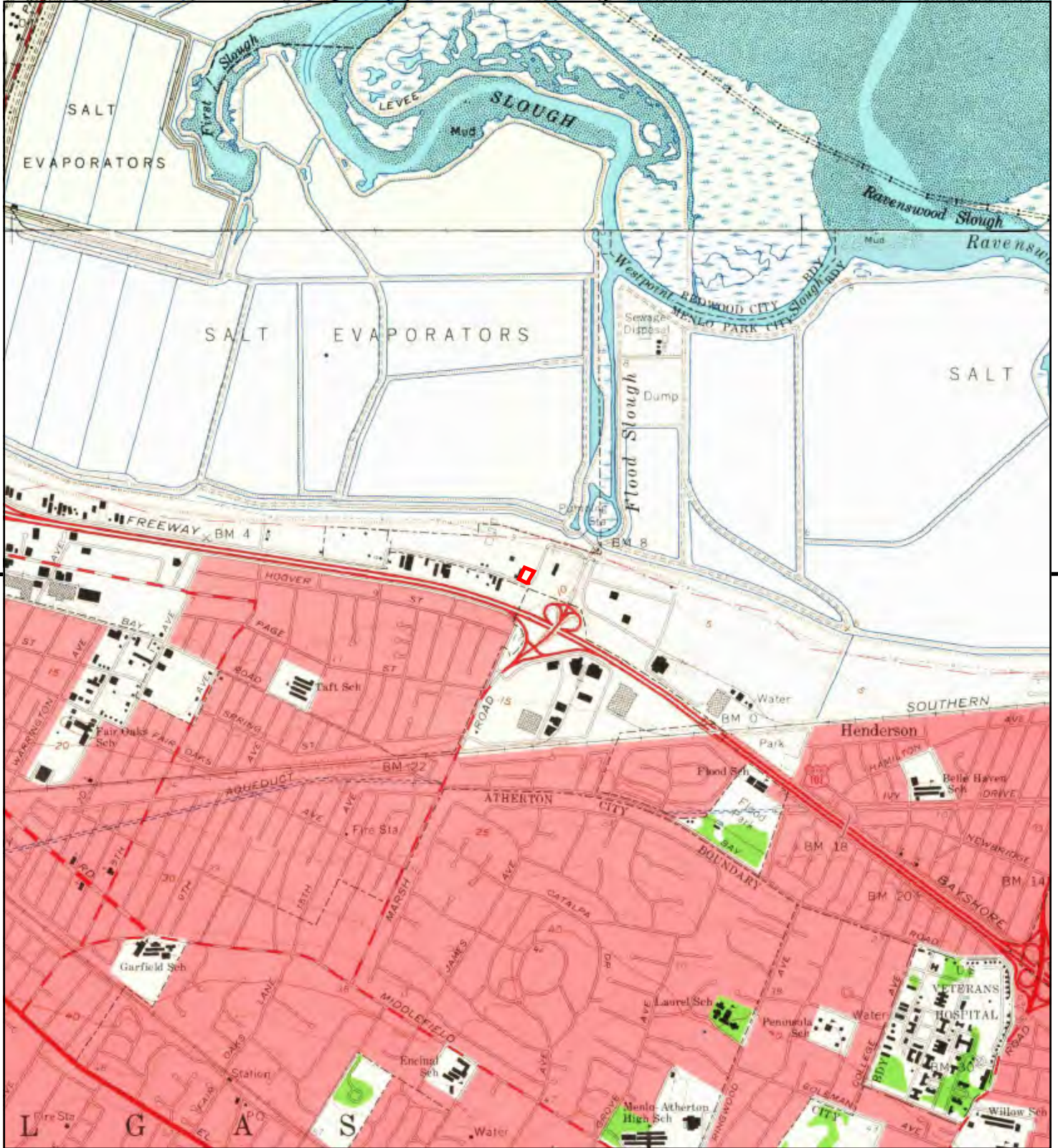


TP, Palo Alto, 1968, 7.5-minute  
N, Redwood Point, 1968, 7.5-minute

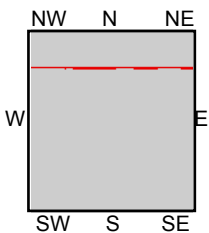
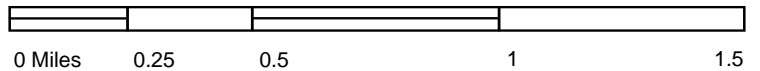
SITE NAME: 3705 Haven Avenue  
ADDRESS: 3705 Haven Avenue  
Menlo Park, CA 94025  
CLIENT: Stantec







This report includes information from the following map sheet(s).

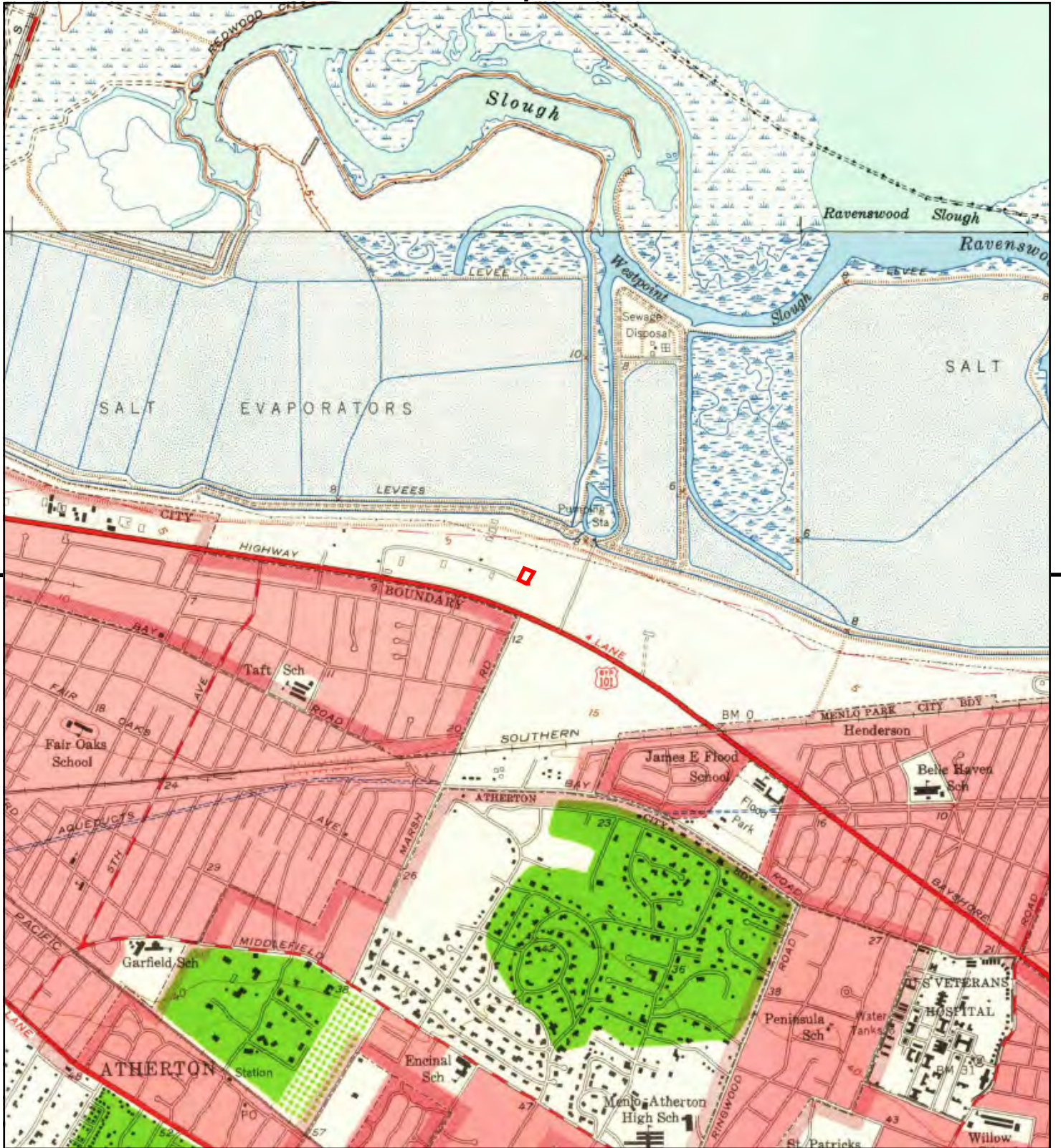


TP, Palo Alto, 1961, 7.5-minute  
N, Redwood Point, 1959, 7.5-minute

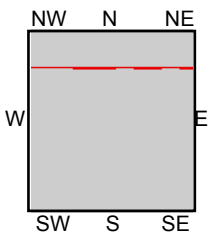
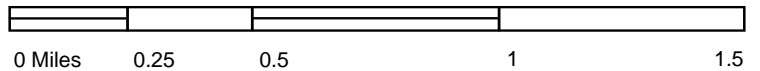
SITE NAME: 3705 Haven Avenue  
ADDRESS: 3705 Haven Avenue  
Menlo Park, CA 94025  
CLIENT: Stantec







This report includes information from the following map sheet(s).

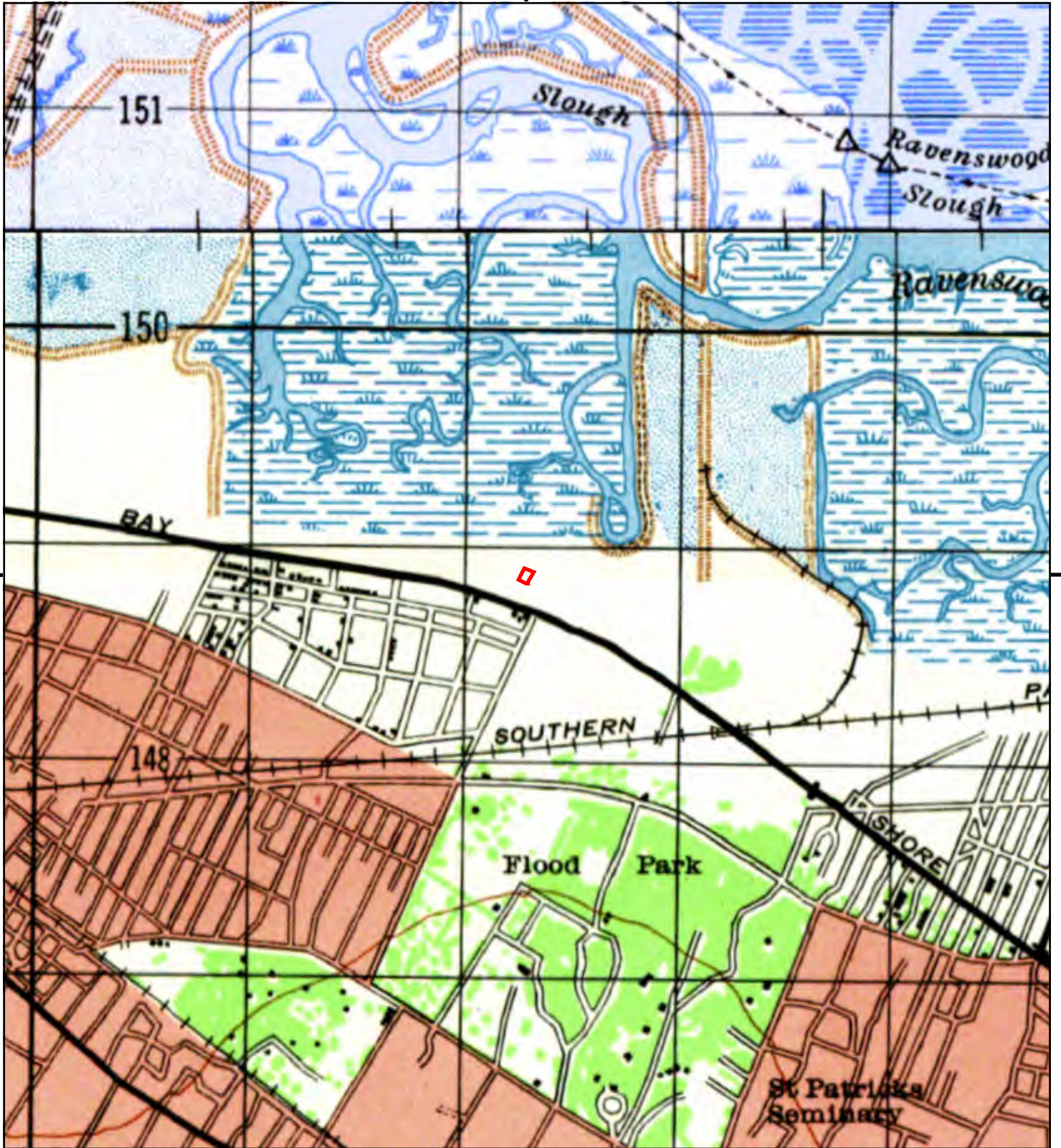


TP, Palo Alto, 1953, 7.5-minute  
N, Redwood Point, 1948, 7.5-minute

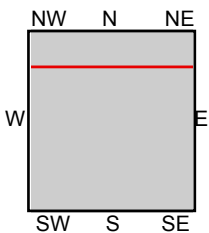
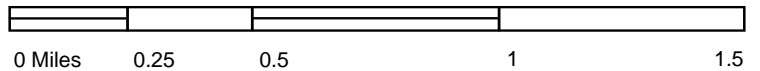
SITE NAME: 3705 Haven Avenue  
ADDRESS: 3705 Haven Avenue  
Menlo Park, CA 94025  
CLIENT: Stantec







This report includes information from the following map sheet(s).

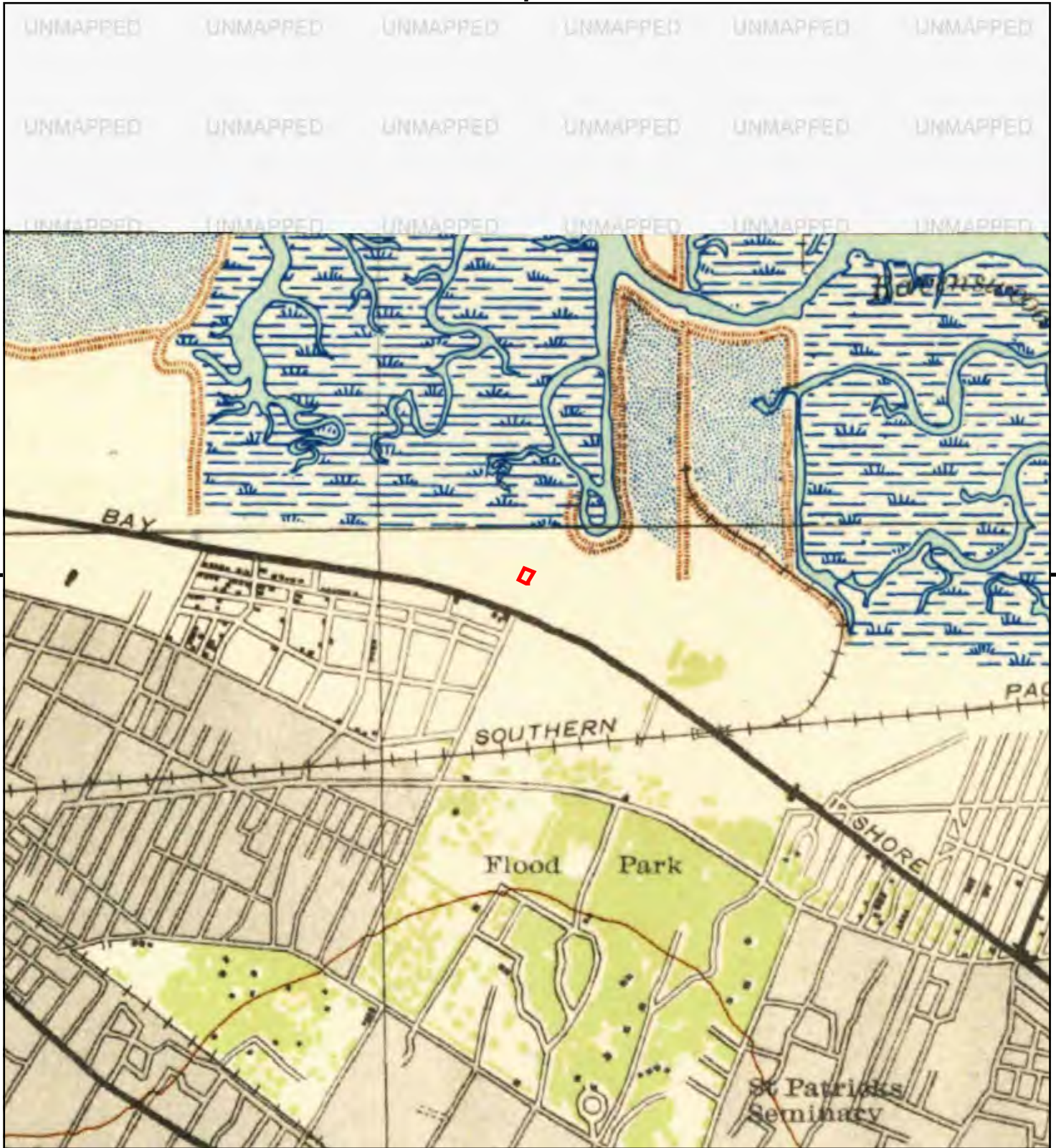


TP, PALO ALTO, 1947, 15-minute  
N, HAYWARD, 1948, 15-minute

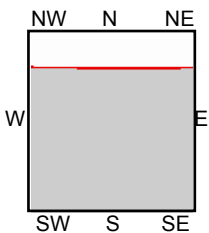
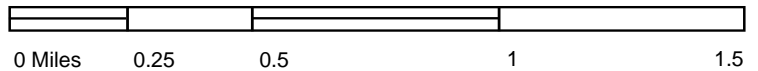
SITE NAME: 3705 Haven Avenue  
ADDRESS: 3705 Haven Avenue  
Menlo Park, CA 94025  
CLIENT: Stantec







This report includes information from the following map sheet(s).

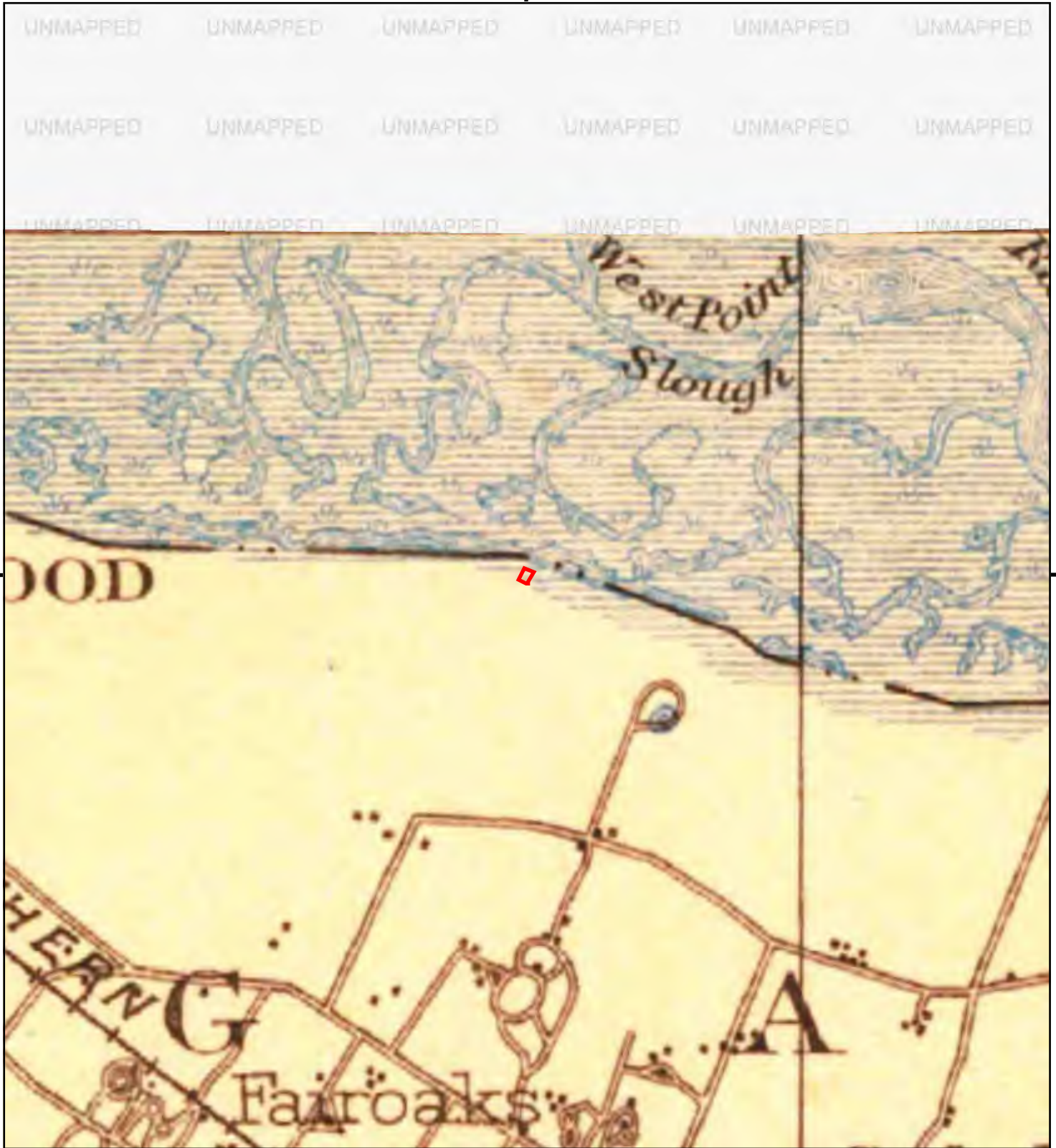


TP, Palo Alto, 1943, 15-minute

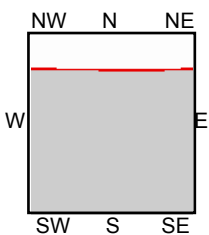
SITE NAME: 3705 Haven Avenue  
 ADDRESS: 3705 Haven Avenue  
 Menlo Park, CA 94025  
 CLIENT: Stantec







This report includes information from the following map sheet(s).

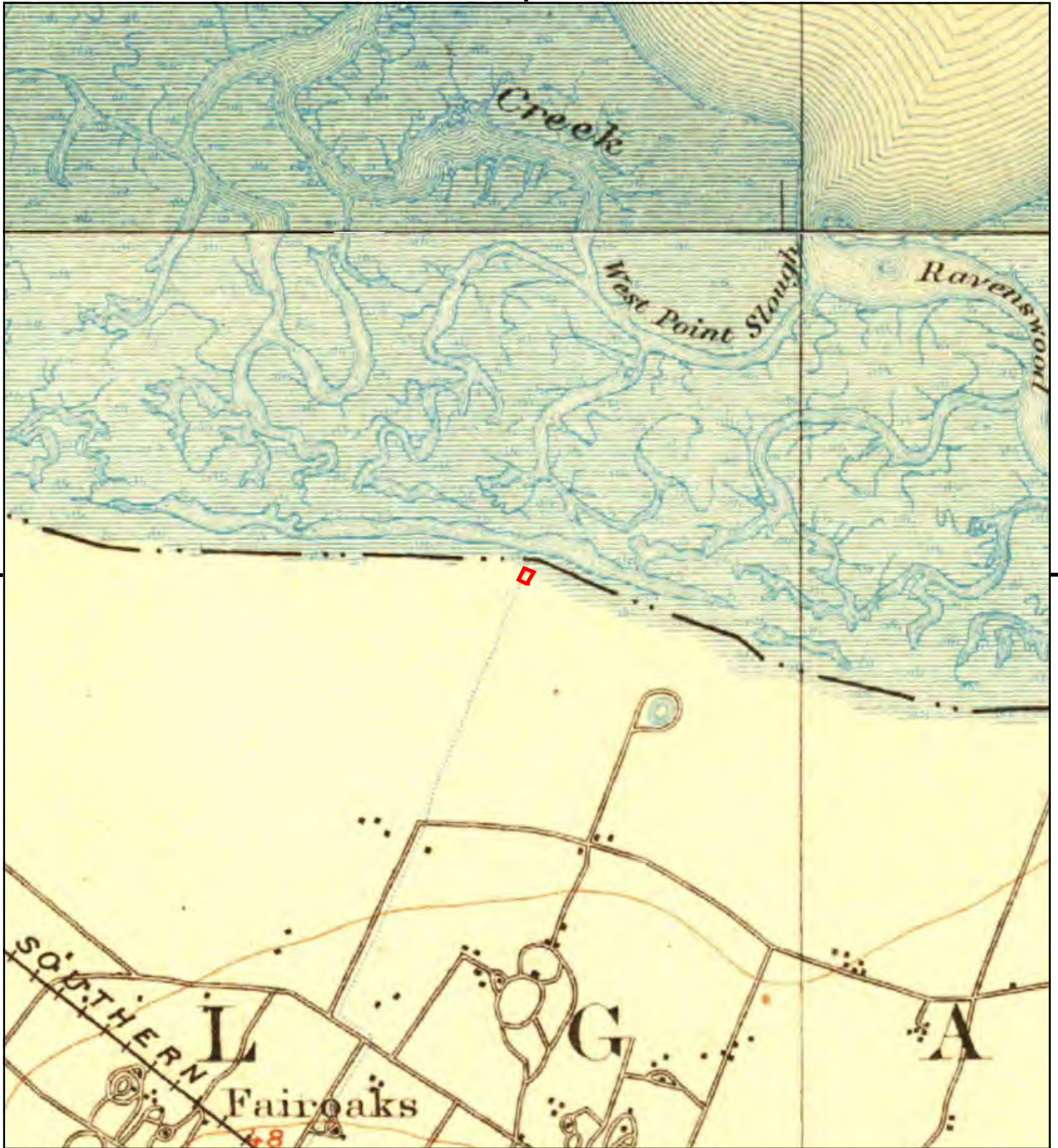


TP, Santa Cruz, 1902, 30-minute

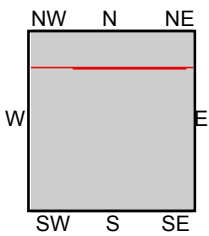
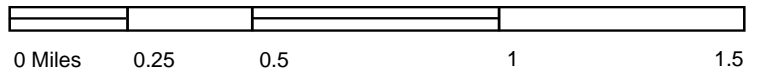
SITE NAME: 3705 Haven Avenue  
 ADDRESS: 3705 Haven Avenue  
 Menlo Park, CA 94025  
 CLIENT: Stantec







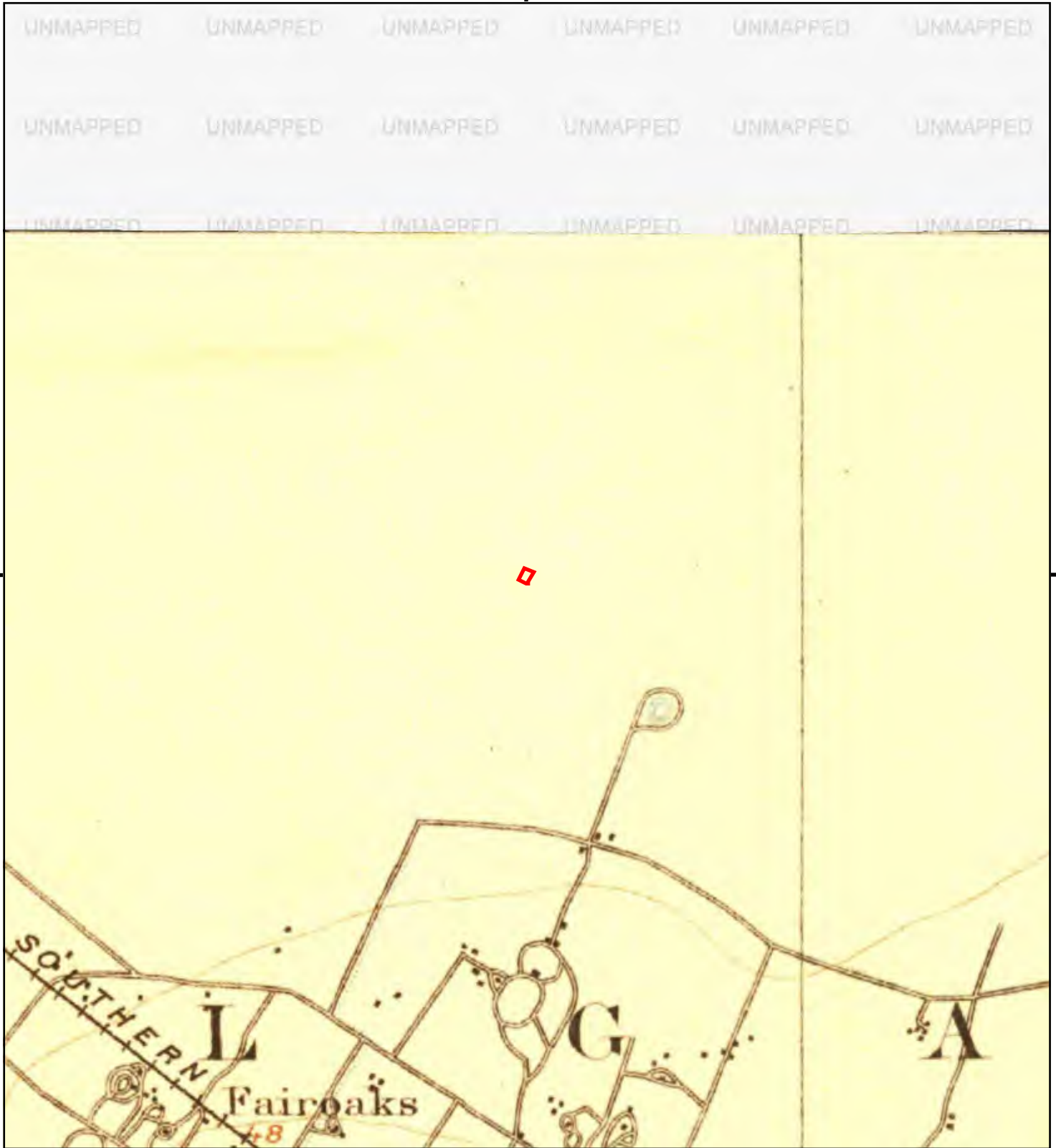
This report includes information from the following map sheet(s).



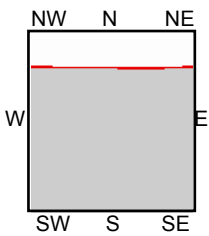
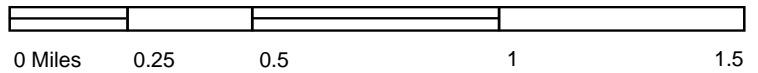
TP, Palo Alto, 1899, 15-minute  
N, Haywards, 1899, 15-minute

SITE NAME: 3705 Haven Avenue  
ADDRESS: 3705 Haven Avenue  
Menlo Park, CA 94025  
CLIENT: Stantec





This report includes information from the following map sheet(s).



TP, Palo Alto, 1897, 15-minute

SITE NAME: 3705 Haven Avenue  
 ADDRESS: 3705 Haven Avenue  
 Menlo Park, CA 94025  
 CLIENT: Stantec



3705 Haven Avenue

3705 Haven Avenue

Menlo Park, CA 94025

Inquiry Number: 7227915.3

January 18, 2023

## Certified Sanborn® Map Report



6 Armstrong Road, 4th floor  
Shelton, CT 06484  
Toll Free: 800.352.0050  
[www.edrnet.com](http://www.edrnet.com)



# Certified Sanborn® Map Report

01/18/23

**Site Name:**

3705 Haven Avenue  
3705 Haven Avenue  
Menlo Park, CA 94025  
EDR Inquiry # 7227915.3

**Client Name:**

Stantec  
290 Conejo Ridge Avenue  
Thousand Oaks, CA 91361  
Contact: Jennifer Alvarado



The Sanborn Library has been searched by EDR and maps covering the target property location as provided by Stantec were identified for the years listed below. The Sanborn Library is the largest, most complete collection of fire insurance maps. The collection includes maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow, and others. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by the Sanborn Library LLC, the copyright holder for the collection. Results can be authenticated by visiting [www.edrnet.com/sanborn](http://www.edrnet.com/sanborn).

The Sanborn Library is continually enhanced with newly identified map archives. This report accesses all maps in the collection as of the day this report was generated.

## Certified Sanborn Results:

**Certification #** 3440-4BF9-8800

**PO #** NA

**Project** 1858

### UNMAPPED PROPERTY

This report certifies that the complete holdings of the Sanborn Library, LLC collection have been searched based on client supplied target property information, and fire insurance maps covering the target property were not found.



Sanborn® Library search results

Certification #: 3440-4BF9-8800

The Sanborn Library includes more than 1.2 million fire insurance maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow and others which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- Library of Congress
- University Publications of America
- EDR Private Collection

*The Sanborn Library LLC Since 1866™*

### Limited Permission To Make Copies

Stantec (the client) is permitted to make up to FIVE photocopies of this Sanborn Map transmittal and each fire insurance map accompanying this report solely for the limited use of its customer. No one other than the client is authorized to make copies. Upon request made directly to an EDR Account Executive, the client may be permitted to make a limited number of additional photocopies. This permission is conditioned upon compliance by the client, its customer and their agents with EDR's copyright policy; a copy of which is available upon request.

### Disclaimer - Copyright and Trademark Notice

This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, LLC. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. This Report is provided on an "AS IS", "AS AVAILABLE" basis. NO WARRANTY EXPRESS OR IMPLIED IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT.

ENVIRONMENTAL DATA RESOURCES, LLC AND ITS SUBSIDIARIES, AFFILIATES AND THIRD PARTY SUPPLIERS DISCLAIM ALL WARRANTIES, OF ANY KIND OR NATURE, EXPRESS OR IMPLIED, ARISING OUT OF OR RELATED TO THIS REPORT OR ANY OF THE DATA AND INFORMATION PROVIDED IN THIS REPORT, INCLUDING WITHOUT LIMITATION, ANY WARRANTIES REGARDING ACCURACY, QUALITY, CORRECTNESS, COMPLETENESS, COMPREHENSIVENESS, SUITABILITY, MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, TITLE, NON-INFRINGEMENT, MISAPPROPRIATION, OR OTHERWISE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, LLC OR ITS SUBSIDIARIES, AFFILIATES OR THIRD PARTY SUPPLIERS BE LIABLE TO ANYONE FOR ANY DIRECT, INCIDENTAL, INDIRECT, SPECIAL, CONSEQUENTIAL OR OTHER DAMAGES OF ANY TYPE OR KIND (INCLUDING BUT NOT LIMITED TO LOSS OF PROFITS, LOSS OF USE, OR LOSS OF DATA), ARISING OUT OF OR IN ANY WAY CONNECTED WITH THIS REPORT OR ANY OF THE DATA AND INFORMATION PROVIDED IN THIS REPORT.

Any analyses, estimates, ratings, environmental risk levels, or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction or forecast of, any environmental risk for any property. Only an assessment performed by a qualified environmental professional can provide findings, opinions or conclusions regarding the environmental risk or conditions in, on or at any property.

Copyright 2023 by Environmental Data Resources, Inc. All rights reserved. Reproduction in any media or format, in whole or in part, of any report or map of Environmental Data Resources, Inc., or its affiliates, is prohibited without prior written permission.

EDR and its logos (including Sanborn and Sanborn Map) are trademarks of Environmental Data Resources, LLC or its affiliates. All other trademarks used herein are the property of their respective owners.

## Appendix F AGENCY RECORDS





**Yana Garcia**  
Secretary for  
Environmental Protection



## Department of Toxic Substances Control

Meredith Williams, Ph.D.  
Director  
700 Heinz Avenue  
Berkeley, California 94710-2721



**Gavin Newsom**  
Governor

January 19, 2023

Ms. Jennifer Alvarado  
Stantec  
jennifer.alvarado@stantec.com

**Public Records Request Number: PR2-011823-01**

**Location: 3705 Haven Avenue  
Menlo Park, CA 94025  
APN: 055-170-240**

Dear Ms. Alvarado:

We have received your Public Records Act Request at the Department of Toxic Substances Control (DTSC). Upon thorough review of our files, we found no records pertaining to the site(s) referenced above.

For information regarding public reports on hazardous waste shipments of generators, transporters, and TSDFs, you can access our Hazardous Waste Tracking System (HWTS) online at: <https://hwts.dtsc.ca.gov/>. Select the "Reports" tab for search options. If you are interested in retrieving detailed reports, please contact the HWTS unit via e-mail: [hwtsreports@dtsc.ca.gov](mailto:hwtsreports@dtsc.ca.gov) or phone: 1-800-618-6942. Customized reports may require a fee. For copies of manifests, please send an e-mail to [mcr@dtsc.ca.gov](mailto:mcr@dtsc.ca.gov).

In addition, the DTSC provides access to public records online via EnviroStor; another data management system that tracks our efforts in cleanup, permitting, enforcement, and investigation of known/suspected hazardous waste sites and facilities. The available data is updated in real-time. You can access Envirostor online at [www.envirostor.dtsc.ca.gov](http://www.envirostor.dtsc.ca.gov). Navigate the website easily by clicking the "How to Use EnviroStor" tab, then selecting the option "Take a Tour."

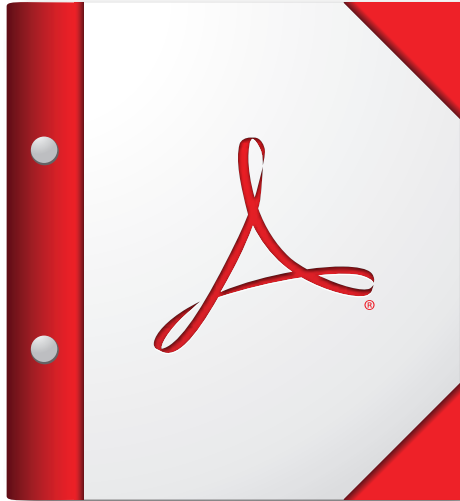
If you have any questions or would like further information regarding your request, please contact me via phone: [510-540-3800](tel:510-540-3800) or e-mail: [Berkeleyfileroom@dtsc.ca.gov](mailto:Berkeleyfileroom@dtsc.ca.gov).

Best regards,

*(Rose) Ann Reeser*

(Rose) Ann Reeser  
Regional Records Coordinator  
DTSC Berkeley Regional Office  
**Department of Toxic Substances Control**  
700 Heinz Ave., Berkeley, California 94710-2721  
California Environmental Protection Agency





**For the best experience, open this PDF portfolio in  
Acrobat X or Adobe Reader X, or later.**

[Get Adobe Reader Now!](#)

---

**San Francisco Bay Regional Water Quality Control Board**

June 16, 2014  
File No. 41S0105 (RL)

SUMCO Phoenix Corp.  
Attn: Mr. Jeffrey Bradshaw  
19801 North Tatum Boulevard  
Phoenix, AZ 85050

RE: No Further Action Required at the former Siltec site located at 3695-3723 Haven Avenue,  
Menlo Park, San Mateo County

Dear Mr. Bradshaw:

This letter confirms the completion of a site investigation and corrective action for the subject site. Thank you for your cooperation throughout this investigation.

This letter responds to the December 31, 2013, "Summary of Environmental Conditions, and Request for Declaration of No Further Active Remediation Status" prepared by Erler & Kalinowski, Inc. (EKI) on behalf of SUMCO Phoenix Corp. ("SUMCO") for the former Siltec facility located at 3695-3723 Haven Avenue, Menlo Park, in San Mateo County (Site). This request was based on an evaluation of the criteria specified in the Regional Water Board's July 31, 2009, "Assessment Tool for Closure of Low Threat Chlorinated Solvent Sites." As explained below, we conclude that no further action is necessary at the Site. I also concur with your request to properly abandon groundwater monitoring wells on-site, and on the off-site downgradient 3750 Haven Avenue property, except for the two on-site shallow monitoring wells MW-8 and MW-9, which are to be monitored by the current Site owner pursuant to the terms of the existing Deed Restrictions. You are requested to provide documentation within 30 days after the proper abandonment of these wells.

### **Summary of Site Investigation and Remediation**

The Site is comprised of three commercial buildings and was formerly used for semiconductor manufacturing which resulted in adverse impact of subsurface soil and groundwater by volatile organic compounds (VOCs), principally trichloroethene (TCE) and cis-1,2-dichloroethene (cis-1,2-DCE). Due to the close proximity to former salt ponds, groundwater in the area has extremely elevated salinity and is not suitable for municipal supply. Extensive investigations of on-site and off-site soil and groundwater have been conducted from 1994 through 2012. Risk-based cleanup goals were developed as part of the 1999 Feasibility Study/Remedial Action Plan (FS/RAP) prepared by EKI. Remedial options were evaluated, including a pilot study of in-situ chemical oxidation using potassium permanganate injection. Ultimately, in-situ treatment did not achieve

targeted reductions in VOC concentrations, and Site remediation was accomplished in 1999 through excavation and removal of impacted soil that exceeded risk-based cleanup goal.

In accordance with the FS/RAP, approximately 2,860 cubic yards of VOC-impacted soil were excavated from the Site and the adjacent 3645 and 3665 Haven Avenue properties to the northwest. The excavation was backfilled with a multilayered mixture of materials intended to inhibit movement of VOC vapors from groundwater into the clean fill. As part of the excavation effort, the building in the middle (Building No. 2 at 3715 Haven Avenue) was demolished and a new two-story building was constructed south of the former Building 2 footprint, outside of the high groundwater risk area. A paved parking lot currently occupies this soil remediation area.

SUMCO and its predecessors have conducted groundwater monitoring for 13 years since Site source excavation, using on-site and off-site downgradient wells. Based on the available data, VOCs in groundwater have migrated off-site to the east and northeast, but the concentrations of chemicals of concern in groundwater have stabilized or declined over this time period through natural attenuation process. Shallow soil vapor sampling conducted by SUMCO's predecessors in 1999 near the commercial building on the adjacent downgradient property to the east (3750 Haven Avenue) did not detect chemicals of concern originated from the Site above laboratory reporting limits.

Currently, Building 2 (3715 Haven Avenue) is owned by Deerfield Realty, and Buildings 1 (3695-3705 Haven Avenue) and 3 (3721-3723 Haven Avenue) are owned by Integrus Millennium Joint Venture LLC (Integrus). A Risk Management Plan (RMP) was prepared and incorporated into a 1999 Covenant (a.k.a. Deed Restriction) between the Site owner and the Regional Water Board. In addition to specific measures to protect human health risk from residual contamination in the groundwater, the RMP also requires the performance of groundwater monitoring in certain on-site wells, and evaluation of changing Site and regulatory conditions, by the Site owner. SUMCO sampled the two on-site shallow (A-zone) wells MW-8 and MW-9 from 1999 through 2004, during which time the concentrations remained below site-specific risk-based screening levels. After 2004, Regional Water Board approved SUMCO's proposal to discontinue monitoring of these wells and they have not been sampled by the current owner since 2004. Based on the 2004 groundwater data, 95 and 3,300 µg/l of TCE remain in the sample collected from MW-8 and MW-9, respectively, which are lower than the site specific screening levels.

## **Conclusion**

Based on our review, we conclude that the Site meets the Water Board's criteria for a low-threat chlorinated solvent site. Remedial actions implemented to date have effectively removed the source and resulted in stabilized and improving groundwater condition. Further remedial actions will have marginal effect and it is anticipated that groundwater quality will further improve over time due to natural attenuation processes. There is an isolated pocket of elevated TCE concentrations in groundwater near MW-9 based on 2004 sampling result, which is above the existing Regional Water Board's Environmental Screening Levels (ESLs) for commercial land use. However, MW-9 is located outside of existing building footprint areas and the detected TCE concentrations were

below the site-specific risk-based screening levels. Based on groundwater data since 2004 from other monitoring wells at the Site, it is reasonable to expect that current TCE concentrations at MW-9 have also decreased significantly from its 2004 level.

Based on information in the above-referenced file and with the provision that the information provided to this agency was accurate and representative of site conditions, I conclude that no further action is necessary at the subject Site. Any risk associated with residual contamination can be adequately managed by the RMP and the deed restrictions. However, in the event the current or future land owner(s) proposes a more sensitive land use at the Site, we will require the use of up-to-date groundwater information, especially near the MW-9 area, to evaluate the risk before any revision of the deed restrictions can be granted.

If you have any questions concerning this letter, please contact Randy Lee of my staff at (510) 622-2375, [e-mail: [rylee@waterboards.ca.gov](mailto:rylee@waterboards.ca.gov)].

Sincerely,

Bruce H. Wolfe  
Executive Officer

Attachment: Case Closure Summary  
cc w/ attachment: Mailing List (next page)

Mailing List:

Mr. Charles Ice  
San Mateo County  
Environmental Health Division  
2000 Alameda de las Pulgas, Suite 100  
San Mateo, CA 94403  
[cice@co.sanmateo.ca.us](mailto:cice@co.sanmateo.ca.us)

Deerfield Realty  
Attn: Mr. Tito Bianchi  
3715 Haven Avenue  
Suite 210  
Menlo Park, CA 95025

Integrus Millennium Joint Venture LLC  
Attn: Mr. Gary William  
2401 Waterman Blvd, Suite A4  
Fairfield, CA 94534  
[gilliams@yahoo.com](mailto:gilliams@yahoo.com)

Dr. Carey Peabody  
Erler & Kalinowski, Inc.  
1870 Ogden Drive  
Burlingame, CA 94010  
[cepeabody@EKICONCONSULT.COM](mailto:cepeabody@EKICONCONSULT.COM)

Jeff Shaw  
Erler & Kalinowski, Inc.  
1870 Ogden Drive  
Burlingame, CA 94010  
[jshaw@ekiconsult.com](mailto:jshaw@ekiconsult.com)

## CASE CLOSURE SUMMARY

### I. AGENCY INFORMATION

Date: June 12, 2014

<i>Agency Name:</i> SF Bay Regional Water Quality Control Board ("RWQCB")	<i>Address:</i> 1515 Clay Street, Suite 1400
<i>City/State/Zip:</i> Oakland, CA 94612	<i>Phone:</i> 510-622-2300
<i>Responsible Staff Person:</i> Randy Lee	<i>Title:</i> Water Resource Control Engineer

### II. SITE INFORMATION

<i>Site Facility Name:</i> former Siltec facility				
<i>Site Facility Address:</i> 3695-3723 Haven Avenue, Menlo Park, San Mateo County				
<i>RB Case No.:</i> 41S0186	<i>Local Case No.:</i>	<i>Priority:</i>		
<i>Responsible Parties (include addresses and phone numbers)</i>				
SUMCO Phoenix Corp. Attn: Mr. Jeffrey Bradshaw, Dir. Env. Health & Safety				
19801 North Tatum Boulevard				
Phoenix, AZ 85050				
(480) 473-6503				
<i>Tank No.</i>	<i>Size in Gallons</i>	<i>Contents</i>	<i>Closed In—Place/Removed?</i>	<i>Date</i>
n/a				

### III. RELEASE AND SITE CHARACTERIZATION INFORMATION

<i>Cause and Type of Release:</i> Release to soil and groundwater associated with manufacture of silicon wafers			
<i>Site characterization complete?</i> Yes		<i>Date Approved by Oversight Agency:</i> March 1999	
<i>Monitoring wells installed?</i> Yes		<i>Number:</i> 6 onsite, 4 offsite, 3 destroyed	<i>Proper screened interval?</i> Yes
<i>Highest GW Depth Below Ground Surface:</i> 4.11		<i>Lowest Depth:</i> 9.00	<i>Flow Direction:</i> E - ENE
<i>Most Sensitive Current Use:</i> Commercial office			
<i>Most Sensitive Potential Use and Probability of Use:</i> Only commercial/industrial land use allowed on Site, by deed restriction. Surrounding properties used for commercial/industrial purposes.			
<i>Are drinking water wells affected?</i> No		<i>Aquifer Name:</i> n/a	
<i>Is surface water affected?</i> No		<i>Nearest surface water name:</i> un-named channelized creek	
<i>Off-Site Beneficial Use Impacts (Addresses/Locations):</i> Minimal (see Sections IV and VI, below)			
<i>Report(s) on file?</i> Yes		<i>Where is report(s) filed?</i> Water Board	
<b>TREATMENT AND DISPOSAL OF AFFECTED MATERIAL</b>			
<i>Material</i>	<i>Amount (Include Units)</i>	<i>Action (Treatment or Disposal w/Destination)</i>	<i>Date</i>
Tanks	n/a	n/a	
Piping	n/a	n/a	
Free Product	n/a	n/a	
Soil	2860 cu. yd.	Disposal at Allied Waste Forward Landfill, Stockton, CA	1999-2001
Groundwater	n/a	n/a	
Barrels	n/a	n/a	

**III. RELEASE AND SITE CHARACTERIZATION INFORMATION (Cont'd)**

<b>MAXIMUM DOCUMENTED POLLUTANT CONCENTRATIONS—BEFORE AND AFTER CLEANUP</b>									
<b>POLLUTANT</b>	<b>Soil (ppm)</b>		<b>Water (ppb)</b>		<b>POLLUTANT</b>	<b>Soil (ppm)</b>		<b>Water (ppb)</b>	
	Before <sup>(a)</sup>	After <sup>(b)</sup>	Before <sup>(a)</sup>	After <sup>(c)</sup>		Before <sup>(a)</sup>	After	Before <sup>(a)</sup>	After <sup>(c)</sup>
Trichloroethene	40	3.2	260,000	3,300	1,1-Dichloroethane	0.38	(d)	140	ND <50
cis-1,2-Dichloroethene	51	(d)	25,000	1,100	Tetrachloroethene	0.073	(d)	46	ND <50
CFC-113 (1,1,2-Trichloro-1,2,2-trifluoroethane)	11	(d)	12,000	1,900	Methylene Chloride	n/a	(d)	32	ND <500
Carbon Tetrachloride	0.021	(d)	2,300	ND <50	1,1,1-Trichloroethane	n/a	(d)	27	ND <50
Vinyl Chloride	0.56	0.075	1,400	75	Toluene	n/a	(d)	6.6	ND <5
Chloroform	0.016	(d)	1,000	28	1,2-Dichloroethane	n/a	(d)	5	ND <50
Benzene	n/a	(d)	460	ND <5	trans-1,2-Dichloroethene	0.11	(d)	1.6	ND <50
1,1-Dichloroethene	n/a	(d)	270	ND <50					

**Comments:**  
Excavation was performed in 1999-2001 to a maximum depth of approximately 6 feet below ground surface, i.e., approximately one foot above groundwater (EKI, 2000; EKI, 2001). Deeper excavation into the capillary fringe or saturated zone was not practicable.

**Notes:**  
(a) Listed pre-excavation VOC concentrations in soil and groundwater are from EKI (1999).  
(b) Post-excavation soil sampling was not required by the RWQCB. Soil was excavated to approximately one foot above groundwater, and lateral excavation boundaries were pre-determined, based on soil sampling prior to excavation. Excavation boundaries enclosed soil samples with VOCs above risk-based screening levels, and were extended to include soil samples with VOCs above reporting limits but below screening levels, as a conservative measure (EKI, 2000). Of the chemical species detected on-Site, risk drivers were trichloroethene and vinyl chloride. Values shown above, in the soil post-excavation column, are the risk-based maximum soil screening levels for VOCs used to demarcate excavation boundaries. These data do not represent analytical results for confirmation soil samples.  
(c) Post-remediation VOC concentrations in groundwater are the maximum analytical values from the three most recent sampling events for each well (EKI, 2013). All maximum post-remediation concentrations listed (except benzene and toluene) are analytical results of samples collected from on-site A-zone well MW-9, most recently sampled in 2004 (EKI, 2013).  
(d) The risk-based soil screening level for this chemical was greater than the maximum observed concentration, thus its distribution did not influence cleanup goals or excavation boundaries.



**IV. CLOSURE**

<p><i>Does completed corrective action protect existing beneficial uses per the Regional Board Basin Plan?</i></p> <p>Yes. Current listed beneficial uses include MUN, PROC, and IND for groundwater. Given the extreme salinity of groundwater at and around the Site, such uses currently are not possible. Nevertheless, VOC concentrations are expected to continue to decline over time, such that such beneficial uses could be possible in the absence of high salinity in groundwater.</p>		
<p><i>Does completed corrective action protect potential beneficial uses per the Regional Board Basin Plan?</i></p> <p>Yes. Potential beneficial uses include AGR for groundwater. Given elevated salinity of groundwater at and around the Site, such use is not currently possible. Nevertheless, VOC concentrations are expected to continue to decline over time such that such a beneficial use could be possible in the absence of high salinity in groundwater.</p>		
<p><i>Does corrective action protect public health for current land use? Yes</i></p>		
<p><i>Site Management Requirements:</i></p> <p>Site activities must be managed in accordance with the Risk Management Plan, dated 12 March 1999, recorded 9 August 1999, County of San Mateo, California; Document no. 1999-135815.</p>		
<p><i>Monitoring Wells Decommissioned:</i></p>	<p><i>Number Decommissioned:</i></p>	<p><i>Number Retained: 2 on-site shallow wells to be retained</i></p>
<p><i>List Enforcement Actions Taken: None</i></p>		
<p><i>List Enforcement Actions Rescinded: N/A</i></p>		

**V. TECHNICAL REPORTS, CORRESPONDENCE, ETC., THAT THIS CLOSURE RECOMMENDATION WAS BASED UPON**

<p>EKI, 1999, <i>Feasibility Study and Remedial Action Plan, 3695-3723 Haven Avenue, Menlo Park, California.</i> Erler and Kalinowski, Inc., 12 March 1999.</p>
<p>EKI, 2000, <i>Remedial Excavation Summary Report, 3695-3723 Haven Avenue Site, Menlo Park, California.</i> Erler &amp; Kalinowski, Inc., 5 May 2000.</p>
<p>EKI, 2001, <i>Remedial Excavation Summary Report Addendum, 3695-3723 Haven Avenue Site, Menlo Park, California.</i> Erler &amp; Kalinowski, Inc., 18 April 2001.</p>
<p>EKI, 2004, <i>Five-Year Review of Groundwater Monitoring Data and Proposal for Modification of Ongoing Groundwater Monitoring Program, 3695-3750 Haven Avenue, Menlo Park, California.</i> Erler &amp; Kalinowski, Inc., 23 November 2004.</p>
<p>EKI, 2013, <i>Summary of Environmental Conditions and Request for Declaration of No Further Active Remediation Status, 3695-3723 Haven Avenue, Menlo Park, California.</i> Erler &amp; Kalinowski, Inc., 31 December 2013.</p>

## VI. ADDITIONAL COMMENTS, DATA, ETC.

EKI (2013) presents a comprehensive summary of the land use history, physical characteristics, former and current chemical concentrations, and remediation activities completed at the 3695-3723 Haven Avenue property (“Site”). Also presented are a description of administrative and engineering controls implemented to address potential future risks presented by residual concentrations of VOCs at the Site, and an analysis of concentration trends and potential fate and transport of VOCs in groundwater at the Site, and downgradient of the Site.

The Site Risk Management Plan (“RMP”) is presented in EKI (1999), and is attached to a Covenant and Environmental Restriction on the Property (i.e., a “deed restriction”), between the RWQCB and the property owner. The deed restriction and RMP detail the responsibilities of current and future owners of the Site for environmental monitoring and risk management, and prohibits certain land uses (e.g., water wells, day-care facilities, and others) that could potentially introduce or complete exposure pathways to future Site users. The deed restriction is recorded in the Official Records of San Mateo County and obligates current and future owners to specific actions to protect human health at the Site.

The Site meets RWQCB’s criteria for a low-threat chlorinated solvent site. Additional environmental monitoring and remediation by SUMCO would not be productive, given the following:

- VOC concentrations in soil, groundwater, and soil vapor at and near the Site have been characterized;
- Source removal has been implemented;
- Engineering and administrative controls have been designed and implemented;
- Thirteen years of groundwater monitoring have been completed;
- VOC concentration trends in the off-Site VOC plume in groundwater are stable to declining;
- Off-site VOC concentrations are well below appropriate Environmental Screening Levels;
- The VOC plume poses minimal to no threat to existing and potential uses of groundwater;
- Movement of VOCs in groundwater to marine water of San Francisco Bay is expected to take centuries to millennia;
- The most recent on-Site VOC groundwater concentration data were below Site-specific risk-based cleanup levels; and
- Under the RMP and deed restriction between the Site owner and the RWQCB, the Site owner is required to monitor on-Site VOC concentrations and perform certain other actions to manage risk at the property; SUMCO is not a party to the RMP or deed restriction.

**This document and the related CASE CLOSURE LETTER shall be retained by the lead agency as part of the official site file.**



---

## San Francisco Bay Regional Water Quality Control Board

July 30, 2021  
Cost Recovery ID 2020805  
GeoTracker ID: [SL18322742](#)

Integris/Millennium Joint Venture, LLC  
Attn.: Gary D. Williams  
2401 Waterman Blvd., Suite 4A-PMB#172  
Fairfield, CA 94534  
[gilliams@havenoffices.com](mailto:gilliams@havenoffices.com)

**Subject: Variance from Covenant and Environmental Restriction on 3705 Haven Avenue, Menlo Park, San Mateo County**

Dear Mr. Williams:

This letter grants a variance (Variance) from certain use restrictions contained in the [Covenant and Environmental Restriction on Property \(Covenant\)](#) recorded against the subject property, 3705 Haven Avenue in Menlo Park, California, in response to the August 12, 2020 request from Integris/Millennium Joint Venture, LLC (Integris). It is our understanding that Integris is the current owner of the subject property. More specifically, this Variance suspends the Covenant's restriction on residential development.

As set forth in more detail below, granting a variance from certain restrictions in the Covenant is appropriate as to the 3705 Haven Avenue parcel. This Variance reflects the following findings:

- A. The Covenant was recorded on two adjacent parcels on Haven Avenue (Burdened Property) on August 9, 1999, in the Official Records of San Mateo County, California, as Document No. 1999-135815. The Covenant restricted development on the two parcels to commercial and industrial uses because groundwater concentrations of chlorinated volatile organic compounds exceeded residential screening levels. After recordation of the Covenant, the Burdened Property was reparcelized into the following 3 parcels: (1) 3705 Haven Avenue, which is the subject of this Variance (APN 055-170-240), and is more particularly described in [Exhibit A](#) attached hereto ("**3705 Haven Property**"); (2) 3715 Haven Avenue, in the City of Menlo Park, County of San Mateo, State of California, with Assessor's Parcel Number 055-170-340, which is more particularly described in [Exhibit B](#) attached hereto ("**3715 Haven Property**"); and (3) 3723 Haven Avenue, in the City of Menlo Park, County of San Mateo, State of California, with Assessor's Parcel Number 055-170-350, which is

---

JIM McGRATH, CHAIR | MICHAEL MONTGOMERY, EXECUTIVE OFFICER

more particularly described in Exhibit C attached hereto and (“**3723 Haven Property**”).

- B. Between January 31, 2020 and August 12, 2020, the Groundwater and Indoor Air Investigation Report and Soil Vapor Investigation Report were submitted demonstrating there is limited residual contamination on 3705 Haven Property compared to the rest of the site. The highest concentration of trichloroethene (TCE) in groundwater at the 3705 Haven Property is 23 micrograms per liter (µg/L). This is more than two orders of magnitude less than groundwater concentrations remaining on 3715 and 3723 Haven Ave. Soil vapor concentrations of TCE at the 3705 Haven Property are less than residential vapor intrusion-based screening levels.
- C. Integris submitted a request to the Water Board for a variance of the Covenant to allow residential land use on 3705 Haven Property. The Water Board concurs that residential land use is acceptable on 3705 Haven Property due to site conditions, including low soil and soil gas contaminant concentrations and risk management measures for groundwater contamination. Risk to residential receptors (including children and seniors) from residual groundwater contamination at 3705 Haven Property can be effectively managed with the Risk Management Plan (including any subsequent approved addenda) that is required by the Covenant. Specifically, the Risk Management Plan will be updated with an addendum to restrict the construction of subsurface structures that could create a vapor intrusion concern.

The Water Board grants to 3705 Haven Avenue a Variance from the following restrictions in Article III, Section 3.1 of the Covenant, provided that no subsurface structures are constructed on the property and the Risk Management Plan is updated as described in Finding C:

- a. Development of the Burdened Property shall be restricted to industrial commercial or office space;
- b. No residence for human habitation shall be permitted on the Burdened Property;
- e. No day care centers for children or day care centers for Senior Citizens shall be permitted on the Burdened Property.

Exhibit A of the Covenant is replaced with Exhibit A, Exhibit B, and Exhibit C attached to this Variance to distinguish the 3705 Haven Property parcel from the 3715 Haven Property and 3723 Haven Property parcels.

If you have any questions, please contact Nicole Fry of my staff at [Nicole.Fry@waterboards.ca.gov](mailto:Nicole.Fry@waterboards.ca.gov)

Sincerely,

Michael Montgomery

Executive Officer

Copy by email:

Richard A. Mielbye, FPG Development Group ([rmielbye@fpg-corp.com](mailto:rmielbye@fpg-corp.com))

Tyson Fulmer, AWR Corporation ([tfulmer@awrcorp.net](mailto:tfulmer@awrcorp.net))

Jacob Madden, San Mateo County, GPP ([JMadden@smcgov.org](mailto:JMadden@smcgov.org))

EXHIBIT A:

LEGAL DESCRIPTION OF 3705 Haven Property

APN: 055-170-240

THE LAND REFERRED TO HEREIN IS SITUATED IN THE CITY OF MENLO PARK, IN THE COUNTY OF SAN MATEO, STATE OF CALIFORNIA, AND IS DESCRIBED AS FOLLOWS:

PARCEL ONE:

Parcel 1, as shown on that certain map entitled "Parcel Map Being a Subdivision of Record of Survey Recorded in Volume 5, Page 89 of Licensed Land Surveyors Maps, Being a Portion of Lot 4 Sweeney Ranch, San Mateo County, California", filed in the Office of the Recorder of the County of San Mateo, State of California on December 15, 1972, in Book 18 of Parcel Maps, at Page 38.

JPN:055-017-170-24a

EXHIBIT B:  
LEGAL DESCRIPTION OF 3715 HAVEN PROPERTY.

APN: 055-170-340

THE LAND REFERRED TO HEREIN BELOW IS SITUATED IN THE CITY OF MENLO PARK, COUNTY OF SAN MATEO, STATE OF CALIFORNIA AND IS DESCRIBED AS FOLLOWS:

Parcel A, as shown on that certain Map entitled, "PARCEL MAP 3715-3723 HAVEN AVENUE BEING A RESUBDIVISION OF PARCEL 2 AS SHOWN ON THAT CERTAIN MAP ENTITLED "PARCEL MAP BEING A RESUBDIVISION OF RECORD OF SURVEY RECORDED IN VOLUME 5, PAGE 89 OF LICENSED LAND SURVEYORS MAPS, BEING A PORTION OF LOT 4 SWEENEY RANCH" WHICH MAP WAS RECORDED DECEMBER 15, 1972 IN BOOK 18 OF PARCEL MAPS AT PAGE 38, SAN MATEO COUNTY RECORDS, CITY OF MENLO PARK, SAN MATEO COUNTY, CALIFORNIA", filed in the office of the County Recorder of the County of San Mateo on February 17, 2000 in Book 72 of Parcel Maps at page 46.

JPN: 055-017-170-25.01a

EXHIBIT C:  
LEGAL DESCRIPTION OF 3723 HAVEN PROPERTY.

APN: 055-170-350

THE LAND REFERRED TO HEREIN IS SITUATED IN THE CITY OF MENLO PARK, IN THE COUNTY OF SAN MATEO, STATE OF CALIFORNIA, AND IS DESCRIBED AS FOLLOWS:

Parcel B, as shown on that certain map entitled "Parcel Map 3715-3723 Haven Avenue, Being a Resubdivision of Parcel 2 as Shown on that Certain Map Entitled "Parcel Map being a Resubdivision of Record of Survey Recorded in Volume 5, Page 89 of Licensed Land Surveyors Maps, Being a Portion of Lot 4 Sweeney Ranch", recorded December 15, 1972, in Book 18 of Parcel Maps, at Page 38, San Mateo County Records, City of Menlo Park, San Mateo County, California", filed in the Office of the Recorder of the County of San Mateo, State of California on February 17, 2000, in Book 72 of Parcel Maps, at Page 46.

JPN: 055-017-170-025A

**Recording Requested By:**

Integris/Millennium Joint Venture LLC,  
A California Limited Liability Company

**When Recorded, Mail To:**

Loretta K. Barsamian, Executive Officer  
California Regional Water Quality Control Board  
San Francisco Bay Region  
1515 Clay Street, Suite 1400  
Oakland, California 94612



**COVENANT AND ENVIRONMENTAL RESTRICTION  
ON PROPERTY**

**3695-3723 Haven Avenue  
Menlo Park, California**

This Covenant and Environmental Restriction on Property (this "Covenant") is made as of the 9th day of Aug., 1999 by Integris/Millennium Joint Venture LLC ("Covenantor") who is the Owner of record of that certain property situated at 3695-3723 Haven Avenue, in the City of Menlo Park, County of San Mateo, State of California, which is more particularly described in Exhibit A attached hereto and incorporated herein by this reference (such portion hereinafter referred to as the "Burdened Property"), for the benefit of the California Regional Water Quality Control Board for the San Francisco Bay Region (the "Board"), with reference to the following facts:

A. **The Burdened Property and groundwater underlying the property contain hazardous materials.**

B. **Contamination of the Burdened Property.** It is believed that certain industrial operations caused soil and groundwater at the Burdened Property to be contaminated with halogenated volatile organic compounds, including trichloroethene and vinyl chloride, which constitute hazardous materials as that term is defined in Health & Safety Code section 25260. To mitigate potential exposure to such chemicals, soil excavation, in-situ chemical oxidation, if feasible, and institutional controls, including this Covenant, are to be implemented.

C. **Exposure Pathways.** The contaminants addressed in this Covenant are present in soil and groundwater on the Burdened Property. Without the mitigation measures described above, exposure to these contaminants could take place via direct contact, resulting in dermal exposure, inhalation, or ingestion by humans. The risk of public exposure to the contaminants has been and will be substantially lessened by the remediation and controls described herein.

D. **Adjacent Land Uses and Population Potentially Affected.** The Burdened Property is currently vacant but has been used for industrial and commercial uses, and is adjacent to industrial and commercial land uses.



E. Full and voluntary disclosure to the Board of the presence of hazardous materials on the Burdened Property has been made and extensive sampling of the Burdened Property has been conducted.

F. Covenantor desires and intends that in order to benefit the Board, and to protect the present and future public health and safety, the Burdened Property shall be used in such a manner as to avoid potential harm to persons or property that may result from hazardous materials that may have been deposited on portions of the Burdened Property.

## ARTICLE I

### GENERAL PROVISIONS

1.1 Provisions to Run with the Land. This Covenant sets forth protective provisions, covenants, conditions and restrictions (collectively referred to as "Restrictions") upon and subject to which the Burdened Property and every portion thereof shall be improved, held, used, occupied, leased, sold, hypothecated, encumbered, and/or conveyed. The restrictions set forth in Article III are reasonably necessary to protect present and future human health and safety or the environment as a result of the presence on the land of hazardous materials. Each and all of the Restrictions shall run with the land, and pass with each and every portion of the Burdened Property, and shall apply to, insure to the benefit of, and bind the respective successors in interest thereof, for the benefit of the Board and all Owners and Occupants. Each and all of the Restrictions are imposed upon the entire Burdened Property unless expressly stated in the Risk Management Plan, see below, as applicable to a specific portion of the Burdened Property. Each and all of the Restrictions run with the land pursuant to section 1471 of the Civil Code. Each and all of the Restrictions are enforceable by the Board.

1.2 Concurrence of Owners and Lessees Presumed. All purchasers, lessees, or possessors of any portion of the Burdened Property shall be deemed by their purchase, leasing, or possession of such Burdened Property, to be in accord with the foregoing and to agree for and among themselves, their heirs, successors, and assignees, and the agents, employees, and lessees of such owners, heirs, successors, and assignees, that the Restrictions as herein established must be adhered to for the benefit of the Board and the Owners and Occupants of the Burdened Property and that the interest of the Owners and Occupants of the Burdened Property shall be subject to the Restrictions contained herein.

1.3 Apportionment of Burden Among Multiple Owners. Where ownership of the Burdened Property is held by multiple persons, holding by several titles, the burdens imposed by this Covenant shall be apportioned between them proportionate to the value of the property held by each owner, if such value can be ascertained, and if not, then according to their respective interests in point of quantity. (Cal. Civ. Code § 1467.)

1.4 Incorporation into Deeds and Leases. Covenantor desires and covenants that the Restrictions set out herein shall be incorporated in and attached to each and all deeds and leases of any portion of the Burdened Property. Recordation of this Covenant shall be deemed binding on all successors, assigns, and lessees, regardless of whether a copy of this Covenant and Agreement has been attached to or incorporated into any given deed or lease.

1998-135815  
08/09/1999 03:24P  
DR Page: 2 of 163

1.5 Purpose. It is the purpose of this instrument to convey to the Board real property rights, which will run with the land, to facilitate the remediation of past environmental contamination and to protect human health and the environment by reducing the risk of exposure to residual hazardous materials.

## ARTICLE II

### DEFINITIONS

2.1 Board. "Board" shall mean the California Regional Water Quality Control Board for the San Francisco Bay Region and shall include its successor agencies, if any.

2.2 Improvements. "Improvements" shall mean all buildings, roads, driveways, regradings, and paved parking areas, constructed or placed upon any portion of the Burdened Property.

2.3 Occupants. "Occupants" shall mean Owners and those persons entitled by ownership, leasehold, or other legal relationship to the exclusive right to occupy any portion of the Burdened Property.

2.4 Owner or Owners. "Owner" or "Owners" shall mean the Covenantor and/or its successors in interest, who hold title to all or any portion of the Burdened Property.

2.5 Risk Management Plan. "Risk Management Plan" (also referred to herein as "RMP") shall mean that certain Plan concerning the Burdened Property, prepared by Erier & Kalinowski, Inc. and dated March 12, 1999, and any and all subsequent addenda thereto, on file with the California Regional Water Quality Control Board, San Francisco Bay Region; the San Mateo County Division of Environmental Health and the City of Menlo Park Building Department. Covenantor shall cause the RMP to be filed with the aforementioned three agencies. Owner, at the time of any addenda to the RMP, shall cause the addenda to be filed with the aforementioned three agencies. The RMP is attached hereto and incorporated herein by this reference as Exhibit B.

## ARTICLE III

### DEVELOPMENT, USE AND CONVEYANCE OF THE BURDENED PROPERTY

3.1 Restrictions on Development and Use. Covenantor promises to restrict the use of the Burdened Property as follows:

- a. Development of the Burdened Property shall be restricted to industrial, commercial or office space;
- b. No residence for human habitation shall be permitted on the Burdened Property;
- c. No hospitals shall be permitted on the Burdened Property;



d. No schools for persons under 21 years of age shall be permitted on the Burdened Property;

e. No day care centers for children or day care centers for Senior Citizens shall be permitted on the Burdened Property;

f. No Owners or Occupants of the Burdened Property or any portion thereof shall conduct any excavation work on the Burdened Property, except in strict compliance with the RMP or unless expressly permitted in writing by the Board. Any contaminated soils brought to the surface by grading, excavation, trenching, or backfilling shall be managed by Covenantor or his agent in accordance with all applicable provisions of local, state and federal law;

g. All uses and development of the Burdened Property shall be consistent with the Risk Management Plan or any applicable Board Order, each of which is hereby incorporated by reference including future amendments thereto. All uses and development shall preserve the integrity of any cap, any remedial measures taken or remedial equipment installed, and any groundwater monitoring system installed on the Burdened Property pursuant to the requirements of the Board, unless otherwise expressly permitted in writing by the Board;

h. No Owners or Occupants of the Property or any portion thereof shall drill, bore, otherwise construct, or use a well for the purpose of extracting water for any use, including but not limited to, domestic, potable, or industrial uses, unless expressly permitted in writing by the Board;

i. The Owner shall notify the Board of each of the following: (1) The type, cause, location and date of any disturbance to any cap, any remedial measures taken or remedial equipment installed, and of the groundwater monitoring system installed on the Burdened Property pursuant to the requirements of the Board, which could affect the ability of such cap or remedial measures, remedial equipment, or monitoring system to perform their respective functions and (2) the type and date of repair of such disturbance. Notification to the Board shall be made by registered mail within ten (10) working days of both the discovery of such disturbance and the completion of repairs;

j. The Covenantor agrees that the Board, and/or any persons acting pursuant to Board orders, shall have reasonable access to the Burdened Property for the purposes of inspection, surveillance, maintenance, or monitoring, as provided for in Division 7 of the Water Code;

k. No Owner or Occupant of the Burdened Property shall act in any manner that will aggravate or contribute to the existing environmental conditions of the Burdened Property. All use and development of the Burdened Property shall preserve the integrity of any capped areas;

3.2 Enforcement. Failure of an Owner or Occupant to comply with any of the restrictions, as set forth in paragraph 3.1, shall be grounds for the Board, by reason of this Covenant, to have the authority to require that the Owner modify or remove any Improvements constructed in violation of that paragraph. Violation of the Covenant shall be grounds for the Board to file civil actions against the Owner as provided by law.



3.3 Notice in Agreements. After the date of Recordation hereof, all Owners and Occupants shall execute a written instrument which shall accompany all purchase agreements or leases relating to the property. Any such instrument shall contain the following statement:

This statement is not a declaration that a hazard exists. The land described herein contains hazardous materials in soils and in the groundwater under the property, and is subject to a deed restriction dated as of July \_\_\_\_\_, 1999, and recorded on July \_\_\_\_\_, 1999, in the Official Records of San Mateo County, California, as Document No. \_\_\_\_\_, which Covenant and Restriction imposes certain covenants, conditions, and restrictions on usage of the property described herein.

#### ARTICLE IV

#### VARIANCE AND TERMINATION

4.1 Variance Any Owner or, with the Owner's consent, any Occupant of the Burdened Property or any portion thereof may apply to the Board for a written variance from the provisions of this Covenant.

4.2 Termination Any Owner or, with the Owner's consent, any Occupant of the Burdened Property or a portion thereof may apply to the Board for a termination of the Restrictions as they apply to all or any portion of the Burdened Property.

4.3 Term Unless terminated in accordance with paragraph 4.2 above, by law or otherwise, this Covenant shall continue in effect in perpetuity.

#### ARTICLE V

#### MISCELLANEOUS

5.1 No Dedication Intended. Nothing set forth herein shall be construed to be a gift or dedication, or offer of a gift or dedication of the Burdened Property or any portion thereof to the general public.

5.2 Notices. Whenever any person gives or serves any notice, demand, or other communication with respect to this Covenant, each such notice, demand, or other communication shall be in writing and shall be deemed effective (1) when delivered, if personally delivered to the person being served or official of a government agency being served, or (2) three (3) business days after deposit in the mail if mailed by United States mail, postage paid certified, return receipt requested:

*If To:* "Covenantor"

Integris/Millennium Joint Venture LLC  
Attention: Mr Loren Baxter  
16 Pulido Court



Danville, California 94526  
and

BCMW LLC  
Attention: Mr. Blair Walker  
597 Daffodil Drive  
Benicia, California 94510

If To: "Board"

Regional Water Quality Control Board  
San Francisco Bay Region  
Attention: Executive Officer  
1515 Clay Street, Suite 1400  
Oakland, California 94512

5.3 Partial Invalidity. If any portion of the Restrictions or terms set forth herein is determined to be invalid for any reason, the remaining portion shall remain in full force and effect as if such portion had not been included.

5.4 Article Headings. Headings at the beginning of each numbered article of this Covenant are solely for the convenience of the parties and are not a part of the Covenant.

5.5 Recordation. This instrument shall be executed by the Covenantor and by the Executive Officer of the Board. This instrument shall be recorded by the Covenantor in the County of San Mateo within ten (10) days of the date of execution.

5.6 References. All references to Code sections include successor provisions

5.7 Construction. Any general rule of construction to the contrary notwithstanding, this instrument shall be liberally construed in favor of the Covenant to effect the purpose of this instrument and the policy and purpose of the Water Code. If any provision of this instrument is found to be ambiguous, an interpretation consistent with the purpose of this instrument that would render the provision invalid shall be favored over any interpretation that would render it invalid.

5.8 Effective Date. This Covenant, its terms and conditions, and the burdens imposed and the benefits derived therefrom, shall become effective upon Recordation of this Covenant.

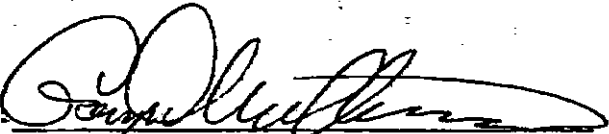
IN WITNESS WHEREOF, the parties execute this Covenant as of the date set forth above.

Covenantor:

INTEGRIS/MILLENNIUM JOINT VENTURE LLC,  
A California Limited Liability Company

15888-130810  
08/09/1988 03 24P  
DR Page 6 of 153



BY:   
GARY WILLIAMS, MEMBER

DATE: 8/9/99

BY:   
GARY WILLIAMS, MEMBER

DATE: 7/6/99

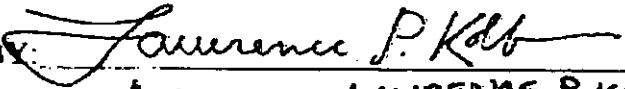
BCMW, LLC, A California Limited Liability Company

BY:   
BLAIR WALKER, MEMBER, BCMW, LLC

DATE: 7/2/99

Agency:

STATE OF CALIFORNIA  
REGIONAL WATER QUALITY CONTROL  
BOARD  
SAN FRANCISCO BAY REGION

BY:   
Acting LAWRENCE P KOLB  
TITLE: Executive Officer

DATE: 7/6/99

1999-135815  
08/09/1999 03:24P  
DR Page: 7 of 163



STATE OF CALIFORNIA

COUNTY OF ALAMEDA

)  
) SS.  
)

On July 6, 1999

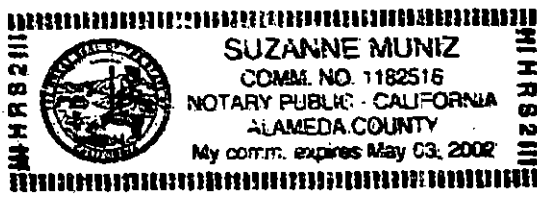
before me, Suzanne Muniz

a Notary Public in and for said County and State, personally appeared LAWRENCE P. KOIB

personally known to me (or proved to me on the basis of satisfactory evidence) to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

Suzanne Muniz  
Signature of Notary



STATE OF \_\_\_\_\_

COUNTY OF \_\_\_\_\_

)  
) SS.  
)

On \_\_\_\_\_

before me, \_\_\_\_\_

a Notary Public in and for said County and State, personally appeared: \_\_\_\_\_

personally known to me (or proved to me on the basis of satisfactory evidence) to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

\_\_\_\_\_  
Signature of Notary

1999-135818  
08/09/1999 03:24P  
DR Page: 8 of 183



**CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT**

State of California }  
 County of Marin } ss.

On JULY 2, 1999, before me, RAFAEL CONSING JR  
Date Name and Title of Officer (e.g., "Jane Doe, Notary Public")

personally appeared BLAIR WALKER  
Names of Signer(s)

personally known to me  
 proved to me on the basis of satisfactory evidence

to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.



WITNESS my hand and official seal.

Rafael Consing Jr  
Signature of Notary Public

Place Notary Seal Above

**OPTIONAL**

*Though the information below is not required by law, it may prove valuable to persons relying on the document and could prevent fraudulent removal and reattachment of this form to another document.*

**Description of Attached Document**

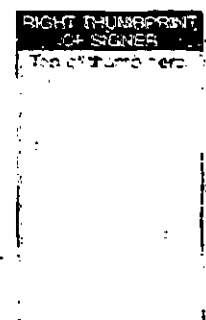
Title or Type of Document: COVENANT, EQUITABLEMENT - RESTRICTION ON PROPERTY

Document Date: 7/2/99 Number of Pages: \_\_\_\_\_

Signer(s) Other Than Named Above: \_\_\_\_\_

**Capacity(ies) Claimed by Signer**

- Signer's Name: \_\_\_\_\_
- Individual
  - Corporate Officer — Title(s): \_\_\_\_\_
  - Partner — Limited  General
  - Attorney in Fact
  - Trustee
  - Guardian or Conservator
  - Other: \_\_\_\_\_



Signer is Representing: \_\_\_\_\_

1999-135813  
 08/09/1999 03:26P  
 DR Page 10 of 153





EXHIBIT 'A'  
LEGAL DESCRIPTION

EXHIBIT 'A'

CITY OF MENLO PARK

PARCELS 1 AND 2, AS SHOWN ON THAT CERTAIN MAP ENTITLED "PARCEL MAP BEING A RESUBDIVISION OF RECORD OF SURVEY RECORDED IN VOLUME 5, PAGE 89 OF LICENSED LAND SURVEYORS MAPS, BEING A PORTION OF LOT 4 SWEENEY RANCH", WHICH MAP WAS RECORDED DECEMBER 15, 1972, IN BOOK 18 OF PARCEL MAPS, AT PAGE 38, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT A CONCRETE MONUMENT MARKING THE NORTHWESTERLY CORNER OF LOT 4 AS SAID LOT IS SHOWN ON THE MAP ENTITLED, "SWEENEY RANCH SUBDIVISION", FILED IN THE OFFICE OF THE RECORDER OF THE COUNTY OF SAN MATEO ON JUNE 24, 1898, IN BOOK "C" OF MAPS, AT PAGE 36; THENCE FROM SAID POINT OF BEGINNING, SOUTH 98° 56' 15" EAST, A DISTANCE OF 2049.31 FEET; NORTH 89° 41' 15" EAST, A DISTANCE OF 1944.05 FEET; AND SOUTH 73° 03' 30" EAST, A DISTANCE OF 871.52 FEET TO THE TRUE POINT OF BEGINNING; THENCE FROM SAID TRUE POINT OF BEGINNING AND ALONG THE NORTHWESTERLY LINE OF THE LANDS CONVEYED TO HOWARD J. WHITE, III, ET AL, BY DEED RECORDED DECEMBER 17, 1968, IN BOOK 5573, AT PAGE 309, OFFICIAL RECORDS, AND ALONG THE NORTHWESTERLY LINE OF THE LANDS CONVEYED TO HOWARD J. WHITE, III, ET AL, BY DEED RECORDED FEBRUARY 17, 1969, IN BOOK 5599, AT PAGE 525, OFFICIAL RECORDS, AND THE NORTHWESTERLY LINE OF THE LANDS CONVEYED TO HUETTIG & SCHROMM INC., A CALIFORNIA CORPORATION, ET AL, BY DEED RECORDED OCTOBER 20, 1967, IN BOOK 5380, AT PAGE 521, OFFICIAL RECORDS, SOUTH 24° 13' WEST, 719.33 FEET TO THE NORTHEASTERLY LINE OF THE LANDS CONVEYED TO THE CITY OF MENLO PARK BY DEED RECORDED JUNE 28, 1963, IN BOOK 4491, AT PAGE 63, OFFICIAL RECORDS; THENCE ALONG THE LANDS SO CONVEYED TO THE CITY, EASTERLY ALONG THE ARC OF A CURVE TO THE RIGHT HAVING A RADIUS OF 10,508.50 FEET, A CENTRAL ANGLE OF 0° 42' 54", AN ARC DISTANCE OF 131.14 FEET; THENCE EASTERLY AND NORTHERLY ALONG THE ARC OF A CURVE TO THE LEFT, SAID CURVE HAVING A RADIUS OF 20 FEET, THROUGH A CENTRAL ANGLE OF 86° 36' 05", AN ARC DISTANCE OF 30.23 FEET TO THE WESTERLY LINE OF THE LANDS CONVEYED TO THE CITY OF MENLO PARK BY DEED RECORDED JUNE 26, 1963, IN BOOK 4491, AT PAGE 65, OFFICIAL RECORDS; THENCE ALONG SAID WESTERLY LINE, NORTH 24° 13' EAST, 709.88 FEET TO THE NORTHERLY LINE OF THE AFORESAID LANDS CONVEYED TO HOWARD J. WHITE, III, ET AL, BY DEED RECORDED DECEMBER 17, 1968, IN BOOK 5573, AT PAGE 309, OFFICIAL RECORDS; THENCE NORTH 73° 03' 30" WEST ALONG SAID NORTHERLY LINE, 150.89 FEET TO THE TRUE POINT OF BEGINNING.

ASSESSOR'S PARCEL NOS. 055-170-240  
055-170-250

JOINT PLANT NOS. 055-017-170-24.00A  
055-017-170-25.00A

1988-135815  
08/08/1988 03:24P  
OF Page: 11 of 189



1998-135A1B  
08/09/1998 03:28P  
DR Page 12 of 163



**EXHIBIT "B"**

**APPENDIX C**

**RISK MANAGEMENT PLAN**

**3695 - 3723 HAVEN AVENUE  
MENLO PARK, CALIFORNIA**

*Prepared by:*

**Erler & Kalinowski, Inc.  
1730 South Amphlett Blvd., Suite 320  
San Mateo, CA 94402**

**1999-135815**  
08/06/1999 03:24P  
DR Page 13 of 153



**RISK MANAGEMENT PLAN**

3695 - 3723 Haven Avenue  
Menlo Park, California

**TABLE OF CONTENTS**

<b>1. INTRODUCTION .....</b>	<b>1</b>
<b>1.1 Representations.....</b>	<b>1</b>
<b>1.2 Owner Responsibilities.....</b>	<b>2</b>
<b>2. SITE BACKGROUND.....</b>	<b>3</b>
<b>2.1 Site Setting.....</b>	<b>3</b>
<b>2.2 Site History.....</b>	<b>3</b>
<b>2.3 Summary of Site Investigations and Remedial Actions .....</b>	<b>4</b>
2.3.1 Documents Summary.....	4
2.3.2 Subsurface Geology .....	5
2.3.3 Hydrology .....	6
2.3.4 Chemicals of Concern Detected in Soil and Groundwater .....	6
2.3.5 Soil Remedial Actions .....	7
2.3.6 Groundwater Remedial Actions.....	7
<b>2.4 Remaining Environmental Conditions .....</b>	<b>8</b>
2.4.1 Residual Concentrations of Halogenated VOCs in Soil .....	8
2.4.2 Residual Concentrations of Halogenated VOCs in Groundwater.....	8
2.4.3 Possible Presence of Chlorinated VOCs Under Concrete Slabs.....	8
<b>3. SUMMARY OF HUMAN HEALTH RISK ASSESSMENT .....</b>	<b>10</b>
<b>3.1 Risk Calculations .....</b>	<b>10</b>
<b>3.2 Estimated Baseline Risks .....</b>	<b>11</b>
<b>3.3 Calculation of Risk-Based Action Levels for Soil and Groundwater .....</b>	<b>12</b>
<b>4. RISK MANAGEMENT DURING CONSTRUCTION .....</b>	<b>13</b>
<b>4.1 Site-Specific Health And Safety Worker Planning Requirements.....</b>	<b>13</b>
<b>4.2 Site-Specific Health And Safety Plans .....</b>	<b>14</b>

1999-135810  
08/09/1999 03:24P  
DR Page 14 of 163



**RISK MANAGEMENT PLAN**

3695 - 3723 Haven Avenue  
Menlo Park, California

**TABLE OF CONTENTS**

<b>4.3 Construction Impact Mitigation Measures .....</b>	<b>14</b>
<b>4.3.1 Soil Management Plan .....</b>	<b>15</b>
<b>4.3.1.1 Soil Screening Methodology During Construction.....</b>	<b>15</b>
<b>4.3.1.2 Management of Soil with Indications of VOC Contamination .....</b>	<b>15</b>
<b>4.3.2 Groundwater Management Plan.....</b>	<b>16</b>
<b>4.3.3 Use Of Construction Methods that Minimize the Potential for Creating         Vertical Conduits .....</b>	<b>16</b>
<b>4.3.4 Protection of Vapor Barrier.....</b>	<b>16</b>
<b>4.3.5 Protection of Monitoring Wells.....</b>	<b>17</b>
<b>5. DESIGN CONSIDERATIONS FOR NEW CONSTRUCTION.....</b>	<b>18</b>
<b>6. NON-CONSTRUCTION RISK MANAGEMENT .....</b>	<b>19</b>
<b>6.1 Property Manager and Tenant Notification.....</b>	<b>19</b>
<b>6.2 Maintaining Commercial/Industrial Land Use .....</b>	<b>19</b>
<b>6.3 Monitoring of Existing Buildings.....</b>	<b>19</b>
<b>6.4 Use of Site Groundwater.....</b>	<b>20</b>
<b>6.5 Establishing Protocols for Future Subsurface Activities .....</b>	<b>20</b>
<b>7. REFERENCES .....</b>	<b>21</b>

1999-135815  
08/08/99 03:24P  
DR Page 15 of 153



## **RISK MANAGEMENT PLAN**

3695 - 3723 Haven Avenue  
Menlo Park, California

### **TABLE OF CONTENTS**

#### **LIST OF TABLES**

- 1 Analytical Results for Volatile Organic Compounds in Soil
- 2 Analytical Results for Volatile Organic Compounds in Groundwater
- 3 Risk-Based Action Levels for Soil
- 4 Risk-Based Action Levels for Groundwater

#### **LIST OF FIGURES**

1. Site Location
2. Oblique View to East of Site and Vicinity, During October 1998
3. Estimated Extent of Soil Excavation
4. Residual TCE Concentrations (ug/kg) Detected in Soils Between 1 and 4 Foot Depths
5. Residual Vinyl Chloride Concentrations (ug/kg) Detected in Soils Between 1 and 4 Foot Depths
6. Concentrations of TCE (ug/L) Detected in Groundwater Samples Collected from the A-Zone
7. Concentrations of Vinyl Chloride (ug/L) Detected in Groundwater Samples Collected from the A-Zone
8. Concentrations of Carbon Tetrachloride (ug/L) Detected in Groundwater Samples Collected from the A-Zone
9. A-Zone Groundwater Exceeding Risk-Based Action Levels
10. Location of Proposed and Existing Groundwater Monitoring Wells

#### **LIST OF ATTACHMENTS**

- A. Human Health Risk Assessment (Appendix A from Feasibility Study/Remedial Action Plan, dated 12 March 1999)

1 5 5 5 5 5 1 5  
08/09/1998 03:24P  
DR Page: 16 of 163



## **1. INTRODUCTION**

This Risk Management Plan is intended to address residual concentrations of chemicals of concern in environmental media at the 3695-3673 Haven Avenue property located in Menlo Park, California (the "Site"; Figure 1). The term Site, as used in this Risk Management Plan, refers to the entire property at the address 3695 -3723 Haven Avenue, Menlo Park, California and any parcels or subdivided parcels that may result from sale of portions of the current property to other owners. Mitsubishi Silicon America ("MSA"), the present owner, has made the property available for sale in whole or in part. Because current zoning of the Site is industrial, the Risk Management Plan contemplates redevelopment of the Site for a variety of industrial/commercial purposes.

The Risk Management Plan provides a decision framework to manage residual chemicals [(i.e., halogenated volatile organic compounds ("VOCs"))] in soil and groundwater at the Site in a manner that is: (1) satisfactory to the RWQCB, as lead agency, and other involved regulatory agencies with oversight authority, as required, (2) protective of human health and the environment, and (3) consistent with planned land uses. This Risk Management Plan contains the following:

- description of the Site background, including a brief history of Site usage, discussion of environmental investigations and remedial actions performed at the Site, and a summary of identified remaining environmental conditions;
- summary of the risk assessment that was conducted to evaluate potential human health impacts at the Site;
- short-term risk management plan to be implemented during construction at the Site, which includes worker health and safety planning requirements and construction impact mitigation measures; and,
- non-construction risk management plan for mitigation of potential long-term risks to human health and the environment, which includes a provision to ensure long-term compliance with this Risk Management Plan.

### **1.1 Representations**

This Risk Management Plan is based on a current understanding of environmental conditions at the Site as well as current environmental policies, laws, and regulations. If environmental conditions are found to differ from those described herein or in the environmental reports referenced in Section 2.3.1, or if environmental policies, laws, and regulations change, then the Risk Management Plan may have to be modified to accommodate those differing conditions. No representation is made by any present or future owner or developer of the Site or their consultants, agents, and contractors as to the

1999-135815  
08/05/1999 09:24P  
OR Page 17 of 183



applicability of this Risk Management Plan with respect to future environmental policies, laws, and regulations.

## **1.2 Owner Responsibilities**

All owners, developers, and any other entities with responsibility for Site activities shall have a continuing obligation to:

- determine the adequacy of this Risk Management Plan in light of the conditions actually encountered and the intended land use;
- comply with policies, laws, and regulations applicable at the time; and,
- establish a notification procedure and protocols for future sub-surface activity to ensure long-term compliance with the Risk Management Plan.

1999-125510  
08/08/1999 03:24P  
DR Page: 18 of 153





## 2. SITE BACKGROUND

This section describes the Site background, including the previous Site uses and the geology and hydrology at the Site.

### 2.1 Site Setting

The Site is located in an industrial section of east Menlo Park, adjacent to San Francisco Bay (Figures 1 and 2). Directly to the east of the Site is a channelized creek that runs to the Bay via Flood and Westpoint Sloughs. A public storage facility, salt evaporators, and Bayfront Park (the former Menlo Park landfill) are located north of the Site. West of the Site is a yard that contains used equipment and materials, and to the south, across Haven Avenue, are two-story buildings that are occupied by light industrial and commercial tenants. Figure 2 is an aerial photograph taken during early October 1998 of the Site and vicinity, prior to demolition of "Building 2".

### 2.2 Site History

The Site, as defined in Chapter 1, refers to the entire property at the address 3695 -3723 Haven Avenue, Menlo Park, California. Currently, the MSA Property is occupied by two vacant buildings ("Building 1" and "Building 3" in Figure 2) and covered by asphalt or concrete pavement with narrow planted areas along Haven Avenue.

Based on a review of historical aerial photographs performed by EKI, the MSA Property was formerly bare land with a few scattered buildings and cars prior to its development in 1969. In the 1969 aerial photograph, the MSA Property was developed with three buildings, two of which are standing as of this writing.

Based on a review of file information from the San Mateo County Department of Health Services and files provided by MSA, uses of the MSA Property have included:

- the fabrication and manufacturing of magnetic materials and electronic devices;
- manufacturing and fabrication of electronic components;
- manufacturing of polished silicon wafers;
- distribution of electronic equipment;
- warehousing and installation of automobile wheels and automotive accessories; and,
- a musical recording studio.

One of the prior tenants of the MSA Property was Siltec Corporation, a corporate predecessor to MSA. From 1970 through 1989, Siltec Corporation used the MSA



Property as manufacturing facility for polished silicon wafers, and as office space. Other more recent tenants of the MSA Property have included KOB Auto Inc., Nor Cal Tire and Wheel, Multiplex Studios, Huettig & Schromm Landscape Contractors, and BSG Associates, Inc.

During October 1998, the middle of the three buildings originally built at the Site during 1969 was demolished. The purpose of demolishing this building (Building 2) was to allow excavation of Site soils with elevated concentrations of halogenated VOCs.

### 2.3 Summary of Site Investigations and Remedial Actions

This section summarizes:

- the reports submitted to the RWQCB regarding investigative work, risk assessments, treatability studies, and work plans describing future work to be performed at the Site;
- the subsurface geology at the Site;
- the local hydrology;
- the chemicals detected in both soil and groundwater at the Site; and
- the remedial actions performed or planned for the Site.

#### 2.3.1 Documents Summary

The following documents describe the results of previous investigations and remedial, treatability, and risk assessments performed at the Site:

- *Feasibility Study and Remedial Action Plan, 3695 - 3723 Haven Avenue, Menlo Park, California, Erler & Kalinowski, Inc., 10 March 1999 (EKI 1999a)*
- *In Situ Chemical Oxidation Bench-Scale Treatability Test Results, 3695-3723 Haven Avenue, Menlo Park, California, Erler & Kalinowski, Inc., 8 January 1999 (EKI 1999b)*
- *Revised Risk Calculations and Cleanup Goals for Source Area Soil Excavation, 3695-3723 Haven Avenue, Menlo Park, California, Erler & Kalinowski, Inc., 12 February 1999 (EKI 1999c)*
- *Results of Sampling and Analysis, 3645 and 3665 Haven Avenue, Menlo Park, California, Erler & Kalinowski, Inc., 30 June 1998 (EKI 1998a)*
- *Results of Sampling and Analysis, Vicinity of 3695-3723 Haven Avenue, Menlo Park, California, Erler & Kalinowski, Inc., 28 October 1998 (EKI 1998b)*



Directly underlying the A-zone are sediments that are generally coarser grained, consisting of sand and gravel. For the purposes of this report, these sediments that occur between approximately 15 and 38 feet bgs are referred to as the "B-zone".

### 2.3.3 Hydrology

During the on-Site and off-Site investigations, selected groundwater samples from borings and monitoring wells were measured for density, total dissolved solids, and chloride. The purpose of collecting such data for groundwater was to allow generalized mapping of the various water bodies that are present along the bay margin: fresh water, salt water associated with the Bay, and brines associated with the evaporation ponds. The available data indicate that brines have apparently leaked from salt evaporation ponds and have intruded primarily into the B-zone. Landward incursion of brines is pronounced beneath the Site as well as at the adjacent Fedex Facility to the east. It appears that the presence of brines in the subsurface has served as a barrier, limiting off-Site migration of chemicals of concern (see Section 2.3.4).

During drilling at the Site, groundwater has been encountered in the subsurface at depths of approximately 8 to 11 feet bgs in fine-grained sediments of the A-zone (EKI 1997a). During October 1998, the piezometric surface for the A-zone occurred at elevations of approximately 0.8 to 1.2 feet relative to the National Geodetic Vertical Datum 1929 (EKI 1999a). The groundwater gradient was to the southeast with a magnitude of approximately 0.003 ft/ft (EKI 1999a). During October 1998, the piezometric surface for the B-zone, corrected for variable density, occurred at elevations of 1.3 to 1.9 feet, relative to the National Geodetic Vertical Datum 1929. The groundwater gradient for the B-zone was generally to the north with a magnitude of approximately 0.003 ft/ft (EKI 1997a). These data indicate that there is a relative upward groundwater gradient at the Site. It should be noted that the local groundwater gradient is strongly affected by density variations. Thus, changes in operation of the nearby salt evaporation ponds could result in changed groundwater gradients.

### 2.3.4 Chemicals of Concern Detected in Soil and Groundwater

The primary chemicals of concern ("COCs") at the Site, based on prevalence in soil and groundwater at the Site and the results from the risk assessment, are halogenated VOCs. The VOCs that contribute most to the estimated risks at the Site are trichloroethene ("TCE") and vinyl chloride ("VC"). Tables 1 and 2 list all the VOCs that have been detected in soil or groundwater samples collected from the Site. The VOCs that have been detected in more than ten groundwater samples collected at the Site include, in order of decreasing frequency of detection:

- TCE;
- cis-1,2-dichloroethene ("cis-1,2-DCE");
- chloroform;
- 1,1,2-trichloro-1,2,2-trifluoro ethane ("CFC-113");
- carbon tetrachloride; and
- VC.



TCE and CFC-113 are believed to have been used historically at the Site. Further, the cis-1,2-DCE and VC found at the Site are presumed to be daughter products of naturally occurring reductive dechlorination of TCE in the soil and groundwater.

TCE is present in groundwater samples collected from the Site in the vicinity of former Building 2 at concentrations that suggest the presence of separate-phase dense non-aqueous phase liquid ("DNAPL"). The presence of separate-phase DNAPL can result in the long-term persistence of VOCs in groundwater. Furthermore, DNAPL liquids can, in some instances, migrate to deeper depths if remedial activities or other subgrade activities penetrate confining media or alter the hydrologic conditions.

Carbon tetrachloride has been detected at significantly higher concentrations in groundwater samples collected from the adjacent property to the west. The source of carbon tetrachloride is unknown but appears to be up-gradient of the Site. The chloroform found in groundwater samples collected on-Site may be a product of the naturally occurring degradation of the carbon tetrachloride.

### 2.3.5 Soil Remedial Actions

As discussed in the FS/RAP, source area soil near the northwestern corner of the former Building 2 will be excavated to a depth of approximately 6 feet during 1999. The extent of planned excavation is shown on Figure 3 (EKI 1998c). The remedial excavation will remove soil known to contain concentrations of COCs above the risk-based action levels listed in Table 3. Results of the remedial excavation will be documented in the Remedial Action Completion Report anticipated to be submitted to the RWQCB as described in Section 2.5.1.

After source area soil is excavated, clean backfill will be placed in the excavation. A high-density polyethylene ("HDPE") liner will be installed as a vapor barrier in the backfill at approximately 4 feet bgs. The vapor barrier will reduce the potential for the clean backfill to be contaminated by VOC vapors emanating from the underlying groundwater. The vapor barrier will also reduce the potential for migration of VOC vapors from groundwater into any buildings that may be constructed in that location in the future, thereby further reducing the potential future risks at the Site.

As discussed below, future owners of the property will be required to protect the integrity of the vapor barrier by not penetrating through the barrier during construction or maintenance activity at the Site unless (a) damage to the barrier can be effectively repaired, or (b) the underlying groundwater no longer contains VOCs above risk-based action levels.

### 2.3.6 Groundwater Remedial Actions

As discussed in the FS/RAP, a pilot test is planned to evaluate the efficacy of ICO by injecting potassium permanganate ("Oxidant") into saturated zone soils and groundwater

1998-135819  
08/08/1998 03:24P  
OR Page: 23 of 163



near the northwestern corner of the former Building 2 (EKI 1998d). The oxidant is intended to oxidize halogenated VOCs in soil and groundwater to less toxic daughter products. If the pilot test is successful, full-scale ICO treatment will be performed as described in the FS/RAP.

## 2.4 Remaining Environmental Conditions

This Section describes the available information regarding the residual concentrations of VOCs in soil, groundwater, and soil gas beneath concrete slabs. For the purposes of this document, it is assumed that soil excavation activities, including removal of the concrete slab and installation of a vapor barrier, as proposed in EKI (1998c) will have been executed.

### 2.4.1 Residual Concentrations of Halogenated VOCs in Soil

Figure 3 shows the locations of soil borings drilled in and around the source area at the northwestern corner of the former Building 2 as well as the proposed extent of the remedial soil excavation. Table 1 summarizes the data for soil samples collected from the area outside the remedial excavation area and represents the available data regarding residual concentrations of VOCs in Site soils post-excavation. The concentrations of TCE and VC in post-excavation Site soils are shown on Figures 4 and 5, respectively.

For the purposes of this Risk Management Plan, it has been assumed that there may exist on the Site areas of contamination undetected by previous investigations. Therefore, risk management for all future activities involving disturbance of soil at the Site will be performed under the assumption that VOCs may be present in soil, as discussed further in Chapter 4.

### 2.4.2 Residual Concentrations of Halogenated VOCs in Groundwater

Figures 6, 7, and 8 show the extents of TCE, VC, and carbon tetrachloride, respectively, in groundwater at the Site. Table 2 summarizes data for groundwater samples collected from the Site.

Elevated concentrations of VOCs have been detected in groundwater in the vicinity of the northern portion of former Building 2. The area of groundwater containing VOCs in excess of the risk-based action levels for groundwater is shown on Figure 9. For the purposes of this Risk Management Plan, this area is defined as the Groundwater Risk Area.

### 2.4.3 Possible Presence of Chlorinated VOCs Under Concrete Slabs

The VOCs detected in soil gas during the remedial investigation include trichloroethene, cis-1,2-dichloroethene, CFC-113, chloroform, and benzene (EKI 1997a). Trichloroethene, cis-1,2-dichloroethene, and CFC-113 are the three chemicals detected at highest concentrations (EKI 1997a). Elevated concentrations of these chemicals were

detected in soil gas from the vicinity of the northwestern corner of the former Building 2, both inside and outside of the former building.

It should be noted that some of the soil gas samples from locations within the former building were collected within the gravel base beneath the building slab. It is possible that the concentrations of chemicals detected in these samples reflect some relatively increased lateral migration because of the permeable gravel base. It is possible that, in the future, without proper engineering controls, VOCs could migrate from groundwater into permeable subgrade material beneath new structures. Chapter 5 discusses the use of engineering controls to prevent this type of VOC migration.

1999-125815  
03/09/1999 03:28P  
DR Page: 26 of 153

### 3. SUMMARY OF HUMAN HEALTH RISK ASSESSMENT

A human health risk assessment was undertaken to:

- Evaluate potential impacts to human health by chemicals of concern ("COCs") present in soil and groundwater at the Site; and
- Develop risk-based action levels for soil and groundwater at the Site.

The risk assessment is included in Attachment A.

Note that baseline risks at the Site were calculated previously for development of risk-based action levels for soil excavation using data collected prior to April 1998 (EKI 1998c; EKI 1999b). However, some additional groundwater data were collected for the Site after April 1998. Therefore, the data set used herein and in Appendix A to calculate the baseline risk at the Site has been updated to include the soil and groundwater data for the Site available as of February 1999. Also, the proposed risk-based action levels have now been developed to consider VOCs in both soil and groundwater, and one of the physical assumptions (soil saturated porosity) for the Site has been modified.

The risk assessment was conducted assuming hypothetical exposure scenarios for future occupants of the Site. Occupants were subdivided into several receptor populations based on their expected locations and activities. Each group was assumed to be subjected to different concentrations of chemicals for different amounts of time. All assumptions used in the risk assessment are quantified in the text and tables included in Attachment A.

Baseline risks were calculated for the following three hypothetical receptor populations at the Haven Avenue Site:

- Future commercial/industrial building occupants, who will work indoors on-Site over a long period of time ("Indoor Workers");
- Workers involved in the construction of new buildings or subsurface utilities on-Site, who will occupy the Site for much more limited periods ("Construction Workers"); and,
- Future maintenance personnel such as groundskeepers, who will labor primarily outdoors over a long period of time ("Maintenance Workers").

#### 3.1 Risk Calculations

As discussed in the risk assessment (Attachment A), summation of Hazard Indices over all pathways and chemicals gives the non-carcinogenic effects Hazard Index for each hypothetical receptor population. A total Hazard Index less than or equal to one indicates



that the population will not be exposed to the chemical beyond a dosage considered safe for non-carcinogenic adverse health effects.

Summation of the estimated incremental carcinogenic risk from all carcinogenic chemicals over all pathways valid for a particular receptor population gives an estimated overall incremental excess carcinogenic risk ("Cancer Risk") for the hypothetical receptor population (Appendix A). The National Oil and Hazardous Substances Pollution Contingency Plan (40 CFR §300) mandates an acceptable range of Cancer Risk between  $10^{-4}$  (1 in 10,000) and  $10^{-5}$  (1 in 1,000,000). California law requires notification of on-Site workers if the Cancer Risk is estimated to exceed  $10^{-5}$  (1 in 100,000) (California Code of Regulations ("CCR") Title 22, Section 12703). The targeted maximum Cancer Risk of  $10^{-5}$ , used in the risk assessment for the Site, satisfies both sets of regulations.

### 3.2 Estimated Baseline Risks

The estimated baseline risks for the three hypothetical future populations at the Site are summarized below based on the results of the risk assessment in Attachment A. Several references are made below to tables in Attachment A (e.g., "Table A-19").

Estimated baseline Hazard Indices and Cancer Risk for Indoor Workers are listed in Table A-19. Non-carcinogenic hazard for this population is calculated to have a Hazard Index equal to 0.08, less than the maximum target value of 1. The estimated Cancer Risk is  $1.9 \times 10^{-5}$ , above the maximum target level of  $10^{-5}$ . The most significant chemical/pathway combination for Indoor Workers, in terms of the estimated Cancer Risk, is inhalation of TCE and VC evaporating from groundwater.

Estimated baseline Hazard Indices and Cancer Risks for Maintenance Workers through all pathways are listed in Table A-20. Non-carcinogenic hazard for this population is calculated to be 0.03, less than the maximum target level of 1. The estimated Cancer Risk is  $4.5 \times 10^{-6}$ , below the maximum target level of  $1.0 \times 10^{-5}$ . The most significant chemical/pathway combination for the Maintenance Worker receptor population is inhalation of VC evaporating from soil.

Estimated baseline risk and Hazard Indices and Cancer Risk for all Construction Worker exposure pathways are listed in Table A-21. The estimated Cancer Risk is  $1.0 \times 10^{-7}$ , less than the target level of  $10^{-5}$ . Non-carcinogenic hazard for this population is calculated to be 0.01, less than the target level of 1. The most significant chemical/pathway combination, both in terms of Cancer Risk and non-carcinogenic health hazard for the Construction Worker receptor population is inhalation of VC evaporating from soil.





### **3.3 Calculation of Risk-Based Action Levels for Soil and Groundwater**

Using the baseline risks calculated for the hypothetical receptor populations at the Site, risk-based action levels for soil and groundwater have been calculated, as discussed below. Risk-based action levels have been calculated considering potential exposures to the future hypothetical receptor populations, i.e., Maintenance Workers, Construction Workers, and Indoor Workers.

Risk-based action levels (cleanup goals) for soil and groundwater were calculated to apportion post-remediation risk such that Cancer Risk to the Indoor Worker, Construction Worker, and Maintenance Worker populations are each at or below  $10^{-5}$ , and Hazard Indices are at or below 1.0. The method used for apportioning risk was to allocate most of the risk to the more hazardous chemicals and those more commonly found at the Site. This approach minimizes the volume of material to be remediated, while keeping future hypothetical populations' exposure to hazardous chemicals below the target maximum risk levels.

Tables 3 and 4 (and Tables A-22 and A-23 in Attachment A) list the calculated risk-based action levels for soil and groundwater, respectively. For soil, the risk-based action levels for TCE and VC are 3.2 mg/kg and 0.075 mg/kg, respectively. For groundwater, the risk-based action levels for TCE and VC are 8,000 ug/L and 500 ug/L, respectively, and carbon tetrachloride and chloroform have action levels of 2,600 ug/L and 2,000 ug/L, respectively.

Tables A-24, A-25, and A-26 show the estimated Hazard Indices and Cancer Risks for the receptor populations, i.e., Indoor Workers, Maintenance Workers and Construction Workers, assuming VOCs are present in soil and groundwater at the risk-based action level concentrations. For each population, the estimated total Hazard Index is less than 1 and the estimated cumulative Cancer Risk is less than or equal to  $10^{-5}$ . Therefore, the risk-based action levels result in an acceptable level of risk for the future potentially exposed populations.

Future collection and analysis of soil or groundwater samples from the Site could potentially indicate the presence of chemical concentrations different from the current dataset. In this case, risk-based action levels for the Site may be recalculated to reflect the improved understanding of the distribution and concentrations of chemicals in Site soil or groundwater.



#### 4. RISK MANAGEMENT DURING CONSTRUCTION

Risk management during construction activities at the Site involves precautions that will be taken by the property owner to mitigate risks to human health and the environment from possible exposure to chemicals of concern during various activities that involve disturbing soil at the Site. As discussed in Section 2.4.1, it is assumed for the purposes of this Risk Management Plan that residual VOCs may be present in soils located anywhere on-Site. Therefore, construction-related risk management procedures should be evaluated and implemented by the property owner, its contractors, agents, and consultants any time work will be performed that involves disturbing soil at the Site.

When establishing the procedures and precautions to be implemented, the evaluation should include, but not necessarily be limited to, the following:

- Establishing a notification procedure and protocols for future sub-surface activity to ensure long-term compliance with this Risk Management Plan;
- Establishment of health and safety training, worker protection procedures, and worker notification procedures for workers who may be exposed to VOC-containing soil or groundwater during any subsurface works;
- Use of construction methods that ensure that conduits to deeper groundwater zones are not created; and,
- Establishment of soil and groundwater management procedures to:
  - (1) appropriately manage soil and groundwater encountered during construction;
  - (2) characterize soil and groundwater that have indicators of VOC contamination;
  - (3) manage potential VOC vapors that could emanate from excavated soils or groundwater;
  - (4) properly store and dispose of soil and groundwater; and
  - (5) control or prevent storm water from contacting stored soils.

##### 4.1 Site-Specific Health And Safety Worker Planning Requirements

Considering that VOCs may remain in soil, groundwater, and soil gas at the Site following completion of the remedial actions, preparation and implementation of health and safety plans ("HSPs") will be required for activities at the Site during which workers may encounter VOCs in soil, groundwater, or soil gas during subgrade work. Separate HSPs may be prepared for different types of work, i.e., depending on the nature of the work and the estimated potential for exposure to VOCs based on the available data. It will be the responsibility of the property owner to evaluate work activities at the Site and identify those activities that require preparation of a HSP, subject to the constraints described below.



It will be assumed for the preparation of HSPs that VOCs may be present in soil throughout the Site. Therefore, subgrade work activities requiring a HSP include, but are not limited to, (a) excavation and grading during demolition or construction activity, (b) subgrade utility installation or repair, (c) entrance into subgrade confined spaces, such as utility vaults or manholes, and (d) landscaping work that disturbs native soil, including but not limited to activities such as tree and shrub planting, sprinkler installation, and soil relocation.

A HSP is not required by this RMP for activities where no more than the upper 12 inches of soil will be disturbed if the work is in an area where clean fill soil has been imported during 1999 or later (e.g., new topsoil in landscaped areas, backfill installed in the source area soil excavation). For those activities, however, a HSP should still be prepared if required by applicable laws or regulations or if determined appropriate by the responsible party.

A HSP is not required by this RMP for workers who will perform activities at the Site without disturbing soil (e.g., carpenters, painters, carpet installers). When constructed, buildings and cover materials such as roads and walk-ways will prevent exposure to VOC-containing soil. It remains the responsibility of the property owner to determine if a health and safety plan is required for compliance with other federal, state, and local requirements.

#### **4.2 Site-Specific Health And Safety Plans**

Each HSP prepared pursuant to the requirements of this RMP will be required to address potential worker exposures to VOCs that could result from the work if VOCs are encountered in soil, groundwater, or soil gas during the work. To the extent required by applicable law, each HSP will be prepared in accordance with Federal and California Occupational Safety and Health Administration ("OSHA") standards for hazardous waste operations (29 CFR 1910.120 and 8 CCR 5192), or applicable regulations promulgated in the future. The HSP should also include but not be limited to a description of health and safety training requirements for the affected workers, a description of the level of personal protective equipment to be used, if any, air quality monitoring plans if necessary, and any other applicable precautions to reduce potential exposure to VOCs to acceptable levels.

#### **4.3 Construction Impact Mitigation Measures**

This section outlines measures that should be considered to mitigate potential impacts to human health and the environment during construction at the Site. The need to implement any active measures should be identified in a Construction Impact Mitigation Plan to be prepared by the property owner or its agent. Identified mitigation measures should be implemented during construction. At a minimum, measures to be considered for implementation should include:

- Management of soil;

1999-135816  
08/06/1999 03:24P  
DR Page: 36 of 153



- Management of groundwater (e.g., during excavation dewatering);
- Preventing creation of migration pathways for contamination to deeper aquifer zones;
- Protection of the vapor barrier installed by MSA in the source area soil excavation backfill (see Section 2.3.5); and
- Protection of groundwater monitoring wells at the Site.

#### 4.3.1 Soil Management Plan

The Construction Impact Mitigation Plan should include a section that establishes procedures for safely managing excavated soil. The soil management plan should consider, at a minimum, the following:

- Methods for the safe excavation and on-Site storage of removed soil;
- Methods for screening excavated soil for the presence of VOCs, as discussed in Section 4.3.1.1;
- Methods for preventing exposure to VOC vapors that may emanate from excavated soil;
- Methods for controlling storm water runoff such that contact with excavated soils is eliminated; and
- Procedures for characterizing and properly disposing excavated soil.

##### 4.3.1.1 Soil Screening Methodology During Construction

During future excavation of soil, an appropriate field instrument should be used during the excavation to help determine if VOCs are present in the soil. VOC screening measurements should be taken periodically as soil is excavated at the Site. A soil screening plan also should be developed as part of the Site-specific health and safety plan generally described in Section 4.2. The soil screening plan should describe procedures for screening soil for the presence of VOCs and action levels for terminating work activities or upgrading worker personal protective equipment. Elevated VOC screening readings may be an indication of VOC contamination in soil.

##### 4.3.1.2 Management of Soil with Indications of VOC Contamination

Contingency protocols should be included in the Construction Impact Management Plan for management of soils should VOC screening indicate the presence of VOC contamination. These contingency protocols should include methods for safely stockpiling soil until the actual concentrations of VOCs in soil are identified and, based



on regulations governing management of excavated soil, an appropriate management method is determined. Excavated soil should be stored in a manner so as to limit access to and contact by unauthorized personnel and to minimize contact with storm water.

#### 4.3.2 Groundwater Management Plan

If construction at the Site is performed such that groundwater will be removed, a groundwater management plan should be included in the Construction Impact Mitigation Plan. The groundwater management plan should, at a minimum, consider implementing methods in accordance with applicable regulations to perform the following:

- safely remove and store groundwater during construction;
- limit exposure to VOC vapors that may emanate from groundwater; and
- characterize and properly dispose of stored groundwater.

#### 4.3.3 Use Of Construction Methods that Minimize the Potential for Creating Vertical Conduits

As discussed in Section 2.6.2, residual concentrations of VOCs currently exist in shallow groundwater at concentrations that suggest the presence of separate-phase DNAPL. The top of this shallow groundwater zone is typically encountered at a depth of approximately 6 to 8 feet bgs (EKI 1997a). DNAPLs can, in some instances, migrate to deeper depths if conduits are created in confining media or hydrologic conditions are altered.

If in the future chemical concentrations in groundwater suggest the presence of DNAPL, construction activities should be conducted such that the potential for DNAPL migration is limited. For example, penetrations through the bottom of the B-zone at the Site into deeper aquifers could potentially provide a conduit for the migration of groundwater containing elevated concentrations of VOCs to deeper aquifers that are currently not impacted. A specific example of a penetration to a deeper aquifer is the installation of pilings for the foundation of new construction.

Penetrations to below the B-zone will not be allowed in areas where VOCs are present in groundwater above California Maximum Contaminant Levels ("MCLs") for drinking water, unless (a) sufficient precautions are taken to prevent migration of impacted groundwater to deeper groundwater zones, and (b) RWQCB concurs that the design is adequate to prevent impacts to deeper groundwater.

#### 4.3.4 Protection of Vapor Barrier

A vapor barrier will be installed at approximately 4 feet bgs in the backfill for the source area soil excavation. The barrier is designed to prevent possible migration of VOC vapors from underlying groundwater into the clean backfill. The barrier would also reduce the rate at which VOCs from groundwater could migrate into any overlying

1999-135815  
08/08/1999 03:24P  
DR Page 32 of 163



structures. Owners of the property are required to protect the integrity of the vapor barrier by not penetrating through the barrier during construction or maintenance activity at the Site unless (a) damage to the barrier can be effectively repaired, or (b) the underlying groundwater no longer contains VOCs above risk-based action levels.

#### 4.3.5 Protection of Monitoring Wells

It is anticipated that selected existing groundwater monitoring wells at the Site will be required for future groundwater monitoring. Existing monitoring wells at the Site include monitoring wells MW-1, MW-2, MW-3, MW-4, MW-5B, MW-6B, and MW-7B. Of these, monitoring wells MW-2, MW-5B, MW-6B, and MW-7B are planned for a future groundwater monitoring program. In addition two additional on-Site wells, MW-8 and MW-9 are planned for installation and monitoring. Existing and proposed on-Site monitoring wells are shown on Figure 10.

As long as groundwater monitoring is required by the RWQCB or other regulatory agency, construction procedures should be implemented to prevent accidental damage to the required groundwater monitoring wells. With the approval of the RWQCB, groundwater monitoring wells may be abandoned and replaced with new groundwater monitoring wells at a different locations.



## **5. DESIGN CONSIDERATIONS FOR NEW CONSTRUCTION**

Based on the results of the human health risk assessment (Chapter 3), the highest identified risk to indoor workers at the Site is exposure to VOCs migrating into enclosed spaces. No buildings currently exist over the Groundwater Risk Area, discussed in Section 2.4.2. Unless it is demonstrated that VOC concentrations in groundwater are less than risk-based action levels, any new buildings should be designed so that migration of VOCs into new buildings is limited. Materials and methods (e.g., liners, sub-slab aeration, low permeability concrete, crack sealants) are available to restrict vapor intrusion through building floors. At the time of building design, a professional engineer experienced in this type of work should be consulted to design appropriate barriers to prevent the potential migration of VOCs into new buildings.

1999-135815  
08/09/1998 03:28P  
DR Page 34 of 183



## 6. NON-CONSTRUCTION RISK MANAGEMENT

This risk management plan also addresses precautions that should be implemented to mitigate long-term risks to human health and the environment related to exposure to COCs during periods of normal, non-construction activity. Any construction that will disturb the soil, building foundations, or pavement should be completed in a manner that is consistent with Chapters 4 and 5 and applicable environmental policies, laws, and regulations.

Components of the risk management plan for non-construction activities are as follows:

- Ensuring that future land uses are consistent with the commercial/industrial uses assumed under this Risk Management Plan;
- Monitoring groundwater at the perimeter of the Groundwater Risk Area to monitor for possible future expansion of the Groundwater Risk Area, unless VOC concentrations in groundwater samples collected in all on-Site wells are less than risk-based action levels;
- Prohibiting the use of groundwater at the Site, unless VOC concentrations in groundwater are less than MCLs;
- Establishing a notification procedure and protocols for future sub-surface activity to ensure long-term compliance with this Risk Management Plan; and
- Inspecting the Site as necessary to verify that risk management controls are being implemented and that they are effective in limiting potential exposure to VOCs at the Site.

### 6.1 Property Manager and Tenant Notification

The property owner shall provide notification of the known environmental conditions at the Site and of the requirements of this RMP to (a) the property manager, and (b) tenants and other entities leasing or otherwise exercising control over space at the Site.

### 6.2 Maintaining Commercial/Industrial Land Use

The Site is restricted to commercial/industrial use, except that uses for day-care or primary education are explicitly not allowed. If other uses are proposed, the owner may make a proposal to the RWQCB or other appropriate agency, supported by analysis, that the provisions of this RMP should be changed.

### 6.3 Monitoring of Existing Buildings

As discussed in Section 2.4.2, groundwater with VOC concentrations above the risk-based action levels has not been detected outside the Groundwater Risk Area shown on Figure 7. However, over time, it is possible that the groundwater flow regime at the Site





## 7. REFERENCES

California Code of Regulations ("CCR"), Title 8, Section 5155, Revised 1 September 1995.

CCR, Title 8, Section 5192, Revised 16 June 1995.

CCR, Title 22, Sections 12000 to 14000, Revised 24 May 1996.

Code of Federal Regulations, Title 29, Section 1910.120.

EKI, 1999a. *Remedial Action Plan and Feasibility Study, 3695-3723 Haven Avenue, Menlo Park, California*, Erler & Kalinowski, Inc., 10 March 1999

EKI, 1999b. *In Situ Chemical Oxidation Bench-Scale Treatability Test Results, 3695-3723 Haven Avenue, Menlo Park, California*, Erler & Kalinowski, Inc., 8 January 1999

EKI, 1999c. *Revised Risk Calculations and Cleanup Goals for Source Area Soil Excavation, 3695-3723 Haven Avenue, Menlo Park, California*, 12 February 1999

EKI, 1998a. *Results of Sampling and Analysis, 3645 and 3665 Haven Avenue, Menlo Park, California*, Erler & Kalinowski, Inc., 30 June 1998

EKI, 1998b. *Results of Sampling and Analysis, Vicinity of 3695-3723 Haven Avenue, Menlo Park, California*, Erler & Kalinowski, Inc., 28 October 1998

EKI, 1998c. *Work Plan for Source Area Soil Excavation, 3695-3723 Haven Avenue, Menlo Park, California*, Erler & Kalinowski, Inc., 29 September 1998

EKI, 1998d. *Work Plan for In Situ Chemical Oxidation Pilot Study, 3695 - 3723 Haven Avenue, Menlo Park, California*, letter from Erler & Kalinowski, Inc. to RWQCB, 24 November 1998.

EKI, 1997a. *Remedial Investigation Report, 3695-3723 Haven Avenue and Vicinity, Menlo Park, California*, Erler & Kalinowski, Inc., 21 April 1997

EKI, 1997b. *Results of Additional Investigations and Testing, 3695-3723 Haven Avenue, Menlo Park, California*, Erler & Kalinowski, Inc., 30 December 1997.

ESI, 1994a. *Phase I Environmental Assessment for Property Located at 3705-3723 Haven Avenue, Menlo Park, California*, EnviroScience, Inc., 8 April 1994.

ESI, 1994b. *Preliminary Subsurface Assessment, 3705-3723 Haven Avenue, Menlo Park, California*, EnviroScience, Inc., 17 October 1994.

1898-135815  
08/08/1999 03:24P  
DR Page: 37 of 153



**Geomatrix, 1995. *Groundwater Investigation Report, 3705-3723 Haven Avenue, Menlo Park, California, Geomatrix Consultants, August 1995.***

**1999-135815**  
08/09/1998 03:24P  
DR Page: 38 of 163







Table 1  
 Analytical Results for Volatile Organic Compounds in Soil  
 3695-3723 Haven Avenue Property  
 Menlo Park, California

Sample	Sample Depth Range (ft bgs) <sup>(a)</sup>	Sample Collection Date	Concentration in Soil (mg/kg)										
			Carbon Tetrachloride	Chloroform	1,2-Dichlorobenzene	1,1-Dichloroethane	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Tetrachloroethene	Trichloroethene	1,1,2-Trichloro-1,2,2-Trifluoroethane	Vinyl Chloride	
EC-13	5.5-6.0	19-Jun-97	<0.025	<0.025	<0.025	<0.025	0.13	<0.025	<0.025	<0.025	0.1	<0.025	<0.05
EC-14	2.0-2.5	19-Jun-97	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	1.1	<0.05	<0.1
EC-14	5.5-6.0	19-Jun-97	<0.025	<0.025	<0.025	<0.025	0.097	<0.025	<0.025	<0.025	0.18	<0.025	<0.05
EC-15-A	3.5-4.0	19-Jun-97	<0.025	<0.025	<0.025	<0.025	0.35	<0.025	<0.025	<0.025	0.49	<0.025	<0.05
EC-15-A	5.5-6.0	19-Jun-97	<0.025	<0.025	<0.025	<0.025	0.91	<0.025	<0.025	<0.025	0.086	<0.025	<0.05
EC-16	2.0-2.5	19-Jun-97	<0.025	<0.025	<0.025	<0.025	0.039	<0.025	<0.025	<0.025	0.056	<0.025	<0.05
EC-16	5.5-6.0	19-Jun-97	<0.025	<0.025	<0.025	<0.025	0.048	<0.025	<0.025	<0.025	<0.025	<0.025	<0.05
EC-17	2.0-2.5	19-Jun-97	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.05
EC-17	5.5-6.0	19-Jun-97	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.05
EC-18	5.5-6.0	19-Jun-97	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.05
EC-19	2.0-2.5	19-Jun-97	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.05
EC-19	5.5-6.0	19-Jun-97	<0.05	<0.05	<0.05	<0.05	0.38	<0.05	<0.05	<0.05	0.19	<0.05	<0.05
EC-20	2.0-2.5	19-Jun-97	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.19	<0.05	<0.05
EC-20	5.5-6.0	19-Jun-97	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.05
EC-21	2.5-3.0	10-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.05
EC-21	5.0-5.5	10-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.027	<0.025	<0.05
EC-22	3.0-3.5	10-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.039	<0.025	<0.05
EC-22	5.0-5.5	10-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.05
EC-23	3.0-3.5	10-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.05
EC-23	5.0-5.5	10-Sep-97	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EC-24	3.5-4.0	10-Sep-97	<0.025	<0.025	<0.025	<0.025	0.51	<0.025	<0.025	<0.025	0.03	<0.025	<0.05
EC-24	5.0-5.5	10-Sep-97	<2	<2	<2	<2	0.06	<0.025	<0.025	<0.025	0.03	<0.025	<0.05
EC-25	3.5-4.0	10-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.05
EC-25	5.0-5.5	10-Sep-97	<0.5	<0.5	1.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5

Trichloroethene	1,1,2-Trichloro-1,2,2-Trifluoroethane	Vinyl Chloride
0.089	<0.05	<0.05
0.23	<0.05	<0.05
<0.025	<0.05	<0.05
0.061	<0.05	<0.05
0.1	<0.05	<0.05
0.07	0.083	<0.05
0.29	<0.05	<0.05



Table 1  
 Analytical Results for Volatile Organic Compounds in Soil  
 3695-3723 Haven Avenue Property  
 Menlo Park, California

Sample	Sample Depth Range (ft bgs) (a)	Sample Collection Date	Concentration in Soil (mg/kg)					
			Carbon Tetrachloride	Chloroform	1,2-Dichlorobenzene	1,1-Dichloroethane	cis-1,2-Dichloroethane	trans-1,2-Dichloroethane
EC-26	3.5-4.0	11-Sep-97	<0.25	<0.25	<0.25	<0.25	0.27	<0.25
EC-26	5.0-5.5	11-Sep-97	<0.25	<0.25	<0.25	<0.25	15.4	<0.25
EC-27	3.0-3.5	11-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
EC-27	5.0-5.5	11-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
EC-28	1.0-1.5	11-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
EC-28	5.0-5.5	11-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
EC-29	2.5-3.0	11-Sep-97	<0.2	<0.2	<0.2	<0.2	0.25	<0.2
EC-29	5.0-5.5	11-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
EC-30	1.5-2.0	11-Sep-97	<0.1	<0.1	<0.1	<0.1	0.15	<0.1
EC-30	5.0-5.5	11-Sep-97	<0.1	<0.1	<0.1	<0.1	0.15	<0.1
EC-31	3.0-3.5	10-Sep-97	<0.1	<0.1	<0.1	<0.1	0.15	<0.1
EC-31	5.0-5.5	10-Sep-97	<0.25	<0.25	<0.25	<0.25	1.6	<0.25
EC-32	2.5-3.0	10-Sep-97	<0.05	<0.05	<0.05	<0.05	0.22	<0.05
EC-32	5.0-5.5	10-Sep-97	<0.1	<0.1	<0.1	<0.1	0.2	<0.1
EC-33	2.5-3.0	10-Sep-97	<0.05	<0.05	<0.05	<0.05	1.15	<0.05
EC-33	5.0-5.5	10-Sep-97	<0.1	<0.1	<0.1	<0.1	2.5	<0.1
EC-34	3.0-3.5	10-Sep-97	<0.05	<0.05	<0.05	<0.05	0.7	<0.05
EC-34	5.0-5.5	10-Sep-97	<0.2	<0.2	<0.2	<0.2	4.9	<0.2
EC-35	2.5-3.0	10-Sep-97	<0.025	<0.025	<0.025	<0.025	0.031	<0.025
EC-35	5.0-5.5	10-Sep-97	<0.05	<0.05	<0.05	<0.05	1.2	<0.05
EC-36	2.0-2.5	10-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
EC-36	5.0-5.5	10-Sep-97	<0.025	<0.025	<0.025	<0.025	0.21	<0.025
EC-37	2.0-2.5	10-Sep-97	<0.025	<0.025	<0.025	<0.025	0.28	<0.025



Table 1.  
 Analytical Results for Volatile Organic Compounds in Soil  
 3695-3723 Haven Avenue Property  
 Menlo Park, California

Sample	Sample Depth Range (ft bgs) <sup>(a)</sup>	Sample Collection Date	Concentration in Soil (mg/kg)											
			Carbon Tetrachloride	Chloroform	1,2-Dichlorobenzene	1,1-Dichloroethane	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Tetrachloroethene	Trichloroethene	1,1,2-Trichloro-1,2,2-Trifluoroethane	Vinyl Chloride		
EC-37	5.0-5.5	10-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	0.39	<0.025	<0.025	0.39	0.7	0.08	<0.05
EC-38	3.0-3.5	10-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.05	<0.05	<0.05
EC-38	5.0-5.5	10-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	0.17	<0.025	<0.025	<0.025	0.079	<0.05	<0.05
EC-39	2.5-3.0	10-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.05	<0.05	<0.05
EC-39	5.0-5.5	10-Sep-97	<0.05	<0.05	<0.05	<0.05	<0.05	0.85	<0.05	<0.05	0.18	1.5	<0.1	<0.05
EC-40	5.0-5.5	11-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	0.16	<0.025	<0.025	0.4	0.93	<0.05	<0.05
EC-41	2.0-2.5	11-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.05	<0.05	<0.05
EC-41	5.0-5.5	11-Sep-97	<0.05	<0.05	<0.05	<0.05	<0.05	0.28	<0.05	<0.05	0.68	0.87	<0.1	<0.05
EC-42	2.5-3.0	11-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	0.051	<0.025	<0.025	0.038	0.084	<0.05	<0.05
EC-42	5.0-5.5	11-Sep-97	<0.1	<0.1	<0.1	<0.1	<0.1	0.16	<0.1	<0.1	0.17	0.91	<0.2	<0.2
EC-43	3.0-3.5	11-Sep-97	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.1	<0.1
EC-43	5.0-5.5	11-Sep-97	<0.1	<0.1	<0.1	<0.1	<0.1	0.25	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2
EC-44	3.5-4.0	11-Sep-97	<0.05	<0.05	<0.05	<0.05	<0.05	0.3	<0.05	<0.05	0.59	<0.1	<0.1	<0.1
EC-44	5.0-5.5	11-Sep-97	<0.1	<0.1	<0.1	<0.1	<0.1	0.15	<0.1	<0.1	0.11	0.4	0.56	<0.1
EC-45	2.5-3.0	11-Sep-97	<0.2	<0.2	<0.2	<0.2	<0.2	0.52	<0.2	<0.2	0.71	0.4	<0.4	<0.4
EC-45	5.0-5.5	11-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	0.57	<0.025	<0.025	0.084	<0.05	<0.05	<0.05
EC-46	2.5-3.0	11-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.047	<0.05	<0.05	<0.05
EC-46	5.0-5.5	11-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.05	<0.05	<0.05
EC-47	2.5-3.0	12-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	0.13	<0.025	<0.025	0.15	<0.05	<0.05	<0.05
EC-47	5.0-5.5	12-Sep-97	<0.2	<0.2	<0.2	<0.2	<0.2	2.9	<0.2	<0.2	0.44	<0.4	<0.4	<0.4
EC-48	2.0-2.5	15-Sep-97	<0.1	<0.1	<0.1	<0.1	<0.1	1.1	<0.1	<0.1	0.28	<0.2	<0.2	<0.2
EC-48	5.0-5.5	15-Sep-97	<0.1	<0.1	<0.1	<0.1	<0.1	10	<0.1	<0.1	1.8	<2	<2	<2
EC-49	1.5-2.0	12-Sep-97	<0.1	<0.1	<0.1	<0.1	<0.1	1.6	<0.1	<0.1	0.68	0.43	<0.2	<0.2
EC-49	5.0-5.5	12-Sep-97	<0.5	<0.5	<0.5	<0.5	<0.5	13	<0.5	<0.5	5.2	1.2	<1	<1







1998-12-01  
08/09/1998 03:24p  
OR Page 44 of 163

Table 1

Analytical Results for Volatile Organic Compounds in Soil

3695-3723 Haven Avenue Property  
Menlo Park, California

Sample	Sample Depth Range (ft bgs) <sup>(a)</sup>	Sample Collection Date	Concentration in Soil (mg/kg)												
			Carbon Tetrachloride	Chloroform	1,2-Dichlorobenzene	1,1-Dichloroethane	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Tetrachloroethene	Trichloroethene	1,1,2-Trichloro-1,2,2-Trifluoroethane	Vinyl Chloride			
EC-62	2.5-3.0	12-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.27	<0.05	<0.05
EC-62	5.0-5.5	12-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.05	<0.05
EC-63	2.5-3.0	11-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.078	<0.05	<0.05
EC-63	5.0-5.5	11-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.21	<0.05	<0.05
EC-64	2.5-3.0	12-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	0.15	<0.025	<0.025	<0.025	<0.025	0.21	0.12	<0.05
EC-64	5.0-5.5	12-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.05	<0.05
EC-65	2.5-3.0	12-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	0.25	<0.025	<0.025	<0.025	<0.025	0.33	0.24	<0.05
EC-65	5.0-5.5	12-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.05	<0.05
EC-66	2.5-3.0	12-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.05	<0.05
EC-66	5.0-5.5	12-Sep-97	<0.05	<0.05	<0.05	<0.05	0.34	<0.05	<0.05	<0.05	<0.05	<0.05	0.42	0.22	<0.1
EC-67	2.0-2.5	12-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.11	<0.05
EC-67	5.0-5.5	12-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	0.19	<0.025	<0.025	<0.025	<0.025	0.088	0.081	<0.05
EC-68	2.5-3.0	12-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.05	<0.05
EC-68	5.0-5.5	12-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	0.29	<0.025	<0.025	<0.025	<0.025	0.23	0.17	<0.05
EC-69	2.0-2.5	12-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.05	<0.05
EC-69	5.0-5.5	12-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	0.072	<0.025	<0.025	<0.025	<0.025	0.098	0.17	<0.05
EC-70	2.0-2.5	10-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.05	<0.05
EC-70	5.0-5.5	10-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	0.053	<0.025	<0.025	<0.025	<0.025	0.22	<0.05	<0.05
EC-71	1.5-2.0	11-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.05	<0.05
EC-71	5.0-5.5	11-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	0.049	<0.025	<0.025	<0.025	<0.025	0.19	<0.05	<0.05
EC-72	2.0-2.5	11-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.049	<0.05	<0.05
EC-72	5.0-5.5	11-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.063	<0.05	<0.05
EC-73	2.0-2.5	15-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.05	<0.05
EC-73	6.0-6.5	15-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.05	<0.05









Table 2  
Analytical Results for Volatile Organic Compounds in Groundwater  
3695-3723 Haven Avenue Property  
Menlo Park, California

Sample Location	Screened Interval Depth (ft bgs) <sup>(a)</sup>	Sample Collection Date	EPA Analysis Method	Concentration in Groundwater (ug/L)																	
				Acetone	Benzene	Carbon Tetrachloride	Chloroform	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethane	cis-1,2-Dichloroethane	trans-1,2-Dichloroethane	Methylene Chloride	Tetrachloroethene	Toluene	1,1,1-Trichloroethane	Trichloroethene	1,1,2-Trichloro-1,2,2-Trifluoroethane <sup>(b)</sup>	Trichlorofluoromethane <sup>(c)</sup>	Vinyl Chloride	
MW-4	6-16	18-Sep-97	8010	-	-	82	110	<10	<10	<10	<10	14	<10	<10	<300	<10	<10	430	200	<10	<20
MW-4	6-16	17-Apr-98	8010	-	-	39	90	<12	<12	<12	<12	16	<12	<12	<125	<12	<12	590	-	<12	<25
MW-5B	24-34	1-Nov-96	8010	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	0.73	3.1	-	<0.5	<1.0
MW-5B	24-34	18-Sep-97	8010	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	0.9	<0.5	<0.5	<0.5	<5.0	<0.5	2	8.7	5.9	<0.5	<1.0
MW-5B	24-34	17-Apr-98	8010	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	2.6	<0.5	<0.5	<0.5	<5.0	<0.5	6.5	16	-	<0.5	<1.0
MW-5D (g)	24-34	17-Apr-98	8010	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	2.3	<0.5	<0.5	<0.5	<5.0	<0.5	5.4	17	-	<0.5	<1.0
MW-6H	21-31	1-Nov-96	8010	-	-	<100	<100	<100	<100	<100	250	<100	<100	<100	<1000	<100	<100	4500	-	<100	<200
MW-6B	21-31	17-Sep-97	8010	-	-	<50	60	<50	<50	<50	180	<50	<50	<50	<50	<50	<50	2600	7200	<50	<100
MW-6J	21-31	17-Apr-98	8010	-	-	<25	<25	<25	<25	<25	35	<25	<25	<25	<250	<25	<25	1280	-	<25	<50
MW-6B	21-31	8-Sep-98	8010	-	-	<100	<100	<100	<100	<100	120	<100	<100	<1000	<1000	<100	<100	3500	-	<100	<200
MW-7J	18-28	1-Nov-96	8010	-	-	1000	<1000	<1000	<1000	<1000	<1000	<1000	<1000	<1000	<10000	<1000	<1000	37000	-	<1000	<2000
MW-7B (g)	18-28	1-Nov-96	8010	-	-	1000	<1000	<1000	<1000	<1000	<1000	<1000	<1000	<1000	<10000	<1000	<1000	3800	-	<1000	<2000
MW-7J	18-28	18-Sep-97	8010	-	-	<2500	<2500	<2500	<2500	<2500	<2500	<2500	<2500	<2500	<25000	<2500	<2500	31000	<5000	<2500	<5000
MW-7B (g)	18-28	18-Sep-97	8010	-	-	<2500	<2500	<2500	<2500	<2500	<2500	<2500	<2500	<2500	<25000	<2500	<2500	30000	<5000	<2500	<5000
MW-7B	18-28	17-Apr-98	8010	-	-	<2500	<2500	<2500	<2500	<2500	<2500	<2500	<2500	<2500	<25000	<2500	<2500	52000	-	<2500	<5000
MW-7B	18-28	8-Sep-98	8010	-	-	<2500	<2500	<2500	<2500	<2500	<2500	<2500	<2500	<2500	<25000	<2500	<2500	49000	-	<2500	<2500

Notes

- (a) Depth of groundwater interval sampled in feet below ground surface ("ft bgs").
- (b) 1,1,2-Trichloro-1,2,2-Trifluoroethane = Freon 113
- (c) Trichlorofluoromethane = Freon 11
- (d) Less than symbol (" $<$ ") denotes that analyte was not present above the laboratory detection limit indicated.
- (e) A hyphen (-) indicates that no analysis was performed for the chemical.
- (f) Sample collected by Geomatrix, 1995; value unknown.
- (g) Duplicate sample.
- (h) Laboratory indicates this result is an estimated value.

**Table 3**  
**Risk-Based Action Levels for Soil**  
 3695-3723 Haven Avenue Property  
 Menlo Park, California

Chemical	Risk-Based Action Level for Soil (mg/kg)
Acetone	1000
Benzene	0.50
Carbon Tetrachloride	0.50
Chloroform	0.50
1,2-Dichlorobenzene	50
1,1-Dichloroethane	5.0
1,2-Dichloroethane	0.50
1,1-Dichloroethene	5.0
cis-1,2-Dichloroethene	500
trans-1,2-Dichloroethene	50
Methylene Chloride	0.50
Tetrachloroethene	0.50
Toluene	5.0
1,1,1-Trichloroethane	5.0
Trichloroethene	3.2 (b)
1,1,2-Trichloro-1,2,2-Trifluoroethane	1000
Vinyl Chloride	0.075 (b)

Note:

- (a) Risk-based action level concentrations rounded to two significant digits.
- (b) These volatile organic compounds have been detected in Site soil at concentrations greater than the risk-based action level.

1999-138819  
 08/09/1999 03:24P  
 DR Page: 51 of 163



**Table 4**  
**Risk-Based Action Levels for Groundwater**  
 3695-3723 Haven Avenue Property  
 Menlo Park, California

Chemical	Risk-Based Action Level for Groundwater (ug/L)
Acetone	500
Benzene	1,000
Carbon Tetrachloride	2,600
Chloroform	2,000
1,2-Dichlorobenzene	500
1,1-Dichloroethane	510
1,2-Dichloroethane	500
1,1-Dichloroethene	520
cis-1,2-Dichloroethene	50,000
trans-1,2-Dichloroethene	510
Methylene Chloride	560
Tetrachloroethene	510
Toluene	510
1,1,1-Trichloroethane	510
Trichloroethene	8,000 (b)
1,1,2-Trichloro-1,2,2-Trifluoroethane	29,000
Vinyl Chloride	500 (b)

**Notes**

- (a) Risk-based action level concentrations rounded to two significant digits.
- (b) These volatile organic compounds have been detected in Site groundwater at concentrations greater than the risk-based action level.

1998-135810  
 08/08/1999 03:24P  
 DR Page 62 of 163





FRANCISCO

BAY

SAN FRANCISCO BAY  
NATIONAL  
WILDLIFE  
REFUGE

SLUGH

SALT

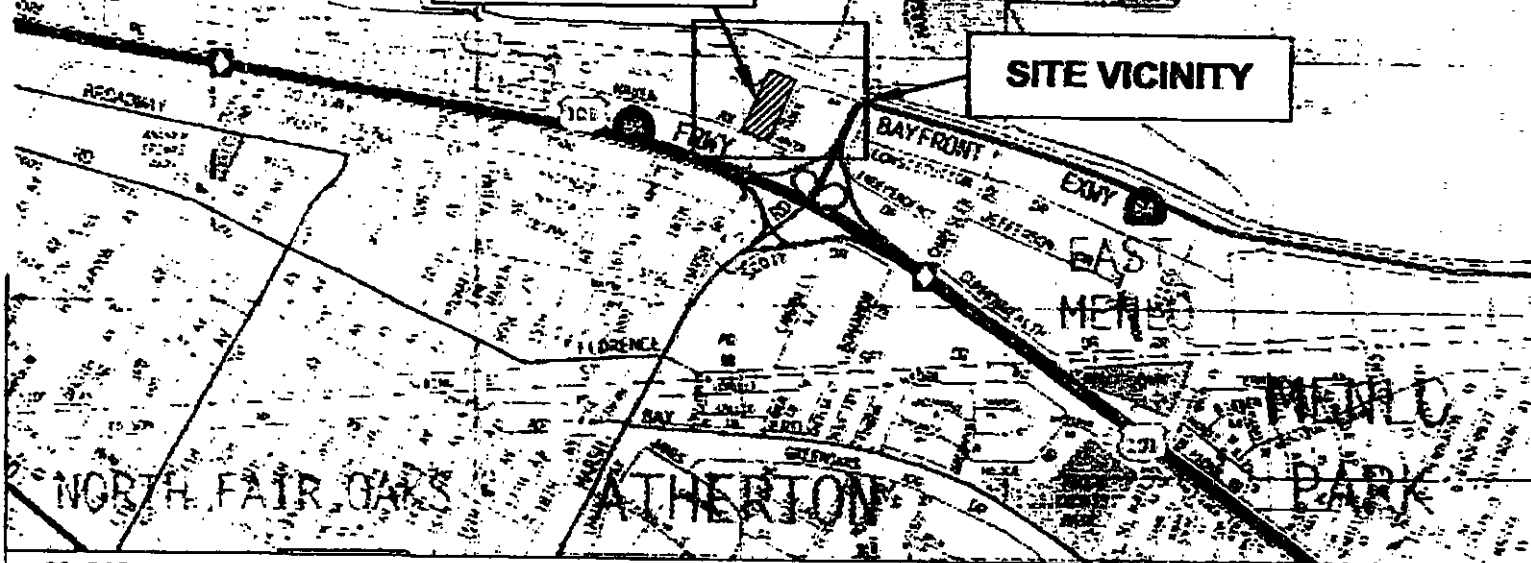
EVAPORATORS

EVAPORATORS

**SITE LOCATION**

3645-3723 HAVEN AVENUE  
MENLO PARK, CA

**SITE VICINITY**



SOURCE: SANTA CLARA / SAN MATEO COUNTIES THOMAS GUIDE, 1997.



0 2400 4800



(Approximate Scale in Feet)

**Erler &  
Kalinowski, Inc.**

Site Location

3645-3723 Haven Avenue  
Menlo Park, CA

March 1999

EKI 960007.07

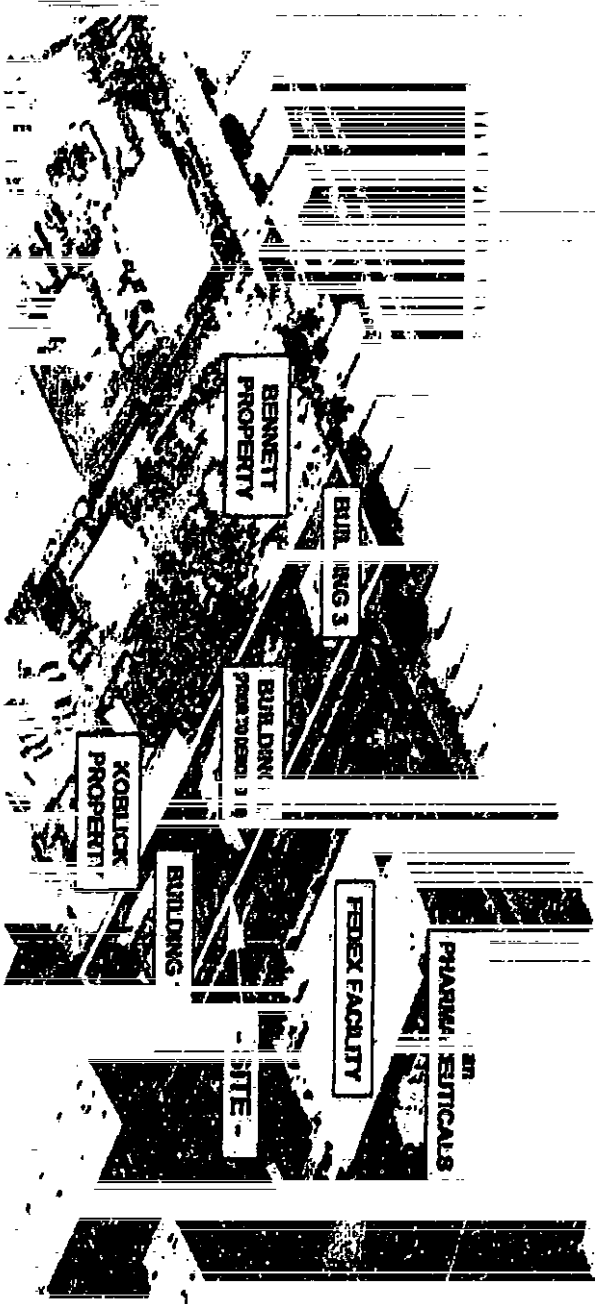
Figure 1

08/08/1999 03:24P  
Page 63 of 183



**FORMER MENTLO  
PARK LANDFILL**





BENNETT  
PROPERTY

BUILDING 3

BUILDING  
FROM 20 DEMOL 2 18

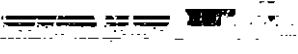
KOBLUCK  
PROPERTY

BUILDINGS

FEDEX FACILITY

PHARMA CHEMICALS

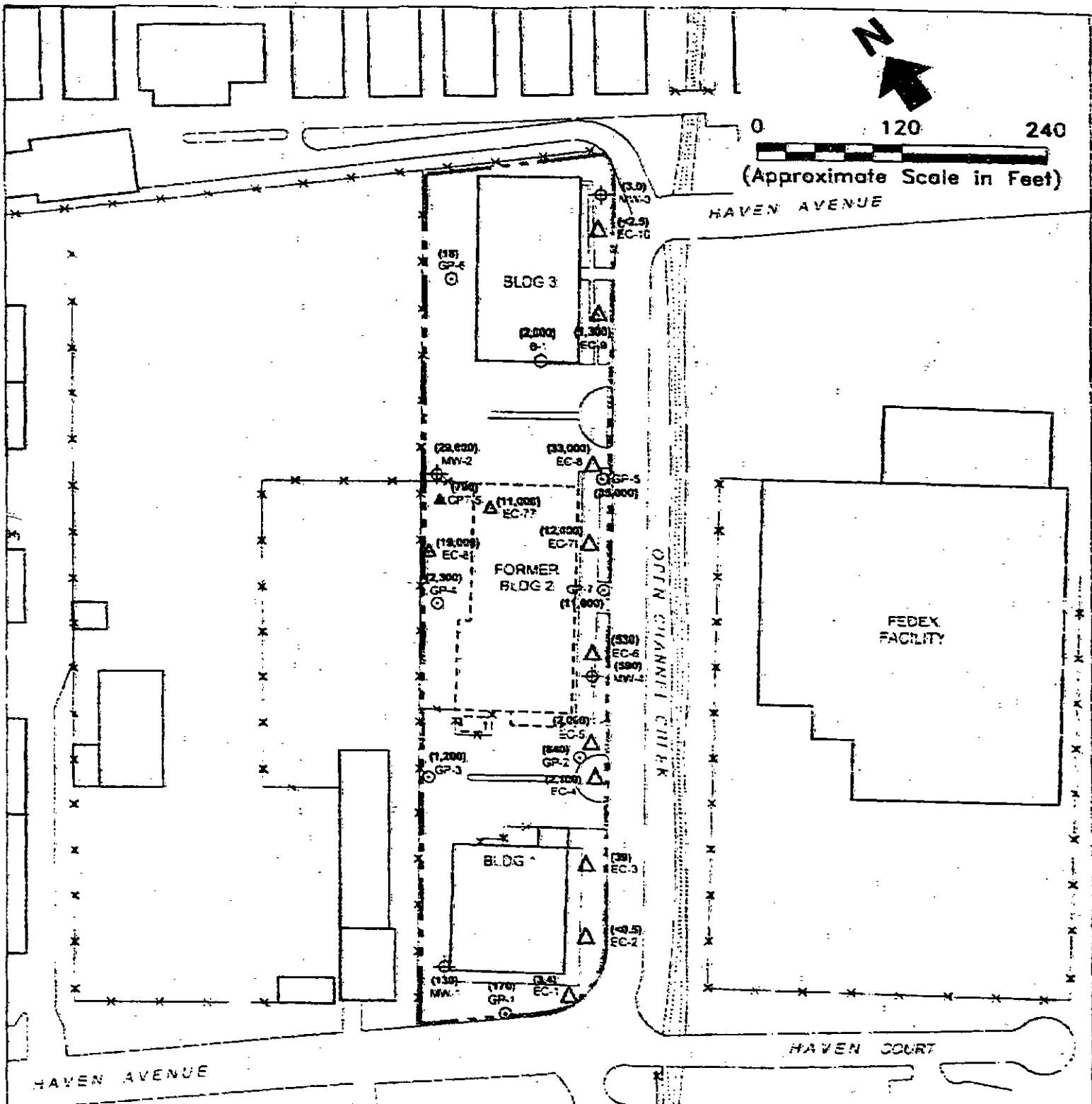
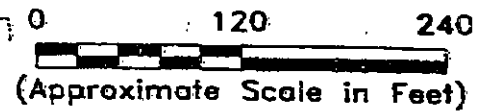
SITE











**LEGEND**

- ⊕ Groundwater Monitoring Well Screened in The A-Zone (ES, 1994, EKI, August 1996)
- Grab Groundwater Sample (ES, 1994)
- ⊙ Geoprobe Sample From 10-15 feet bgs (Geomatrix, 1995)
- ▲ CPT/PIPP Sample (July and August 1996)
- △ Grab Groundwater Sample (October 1996)

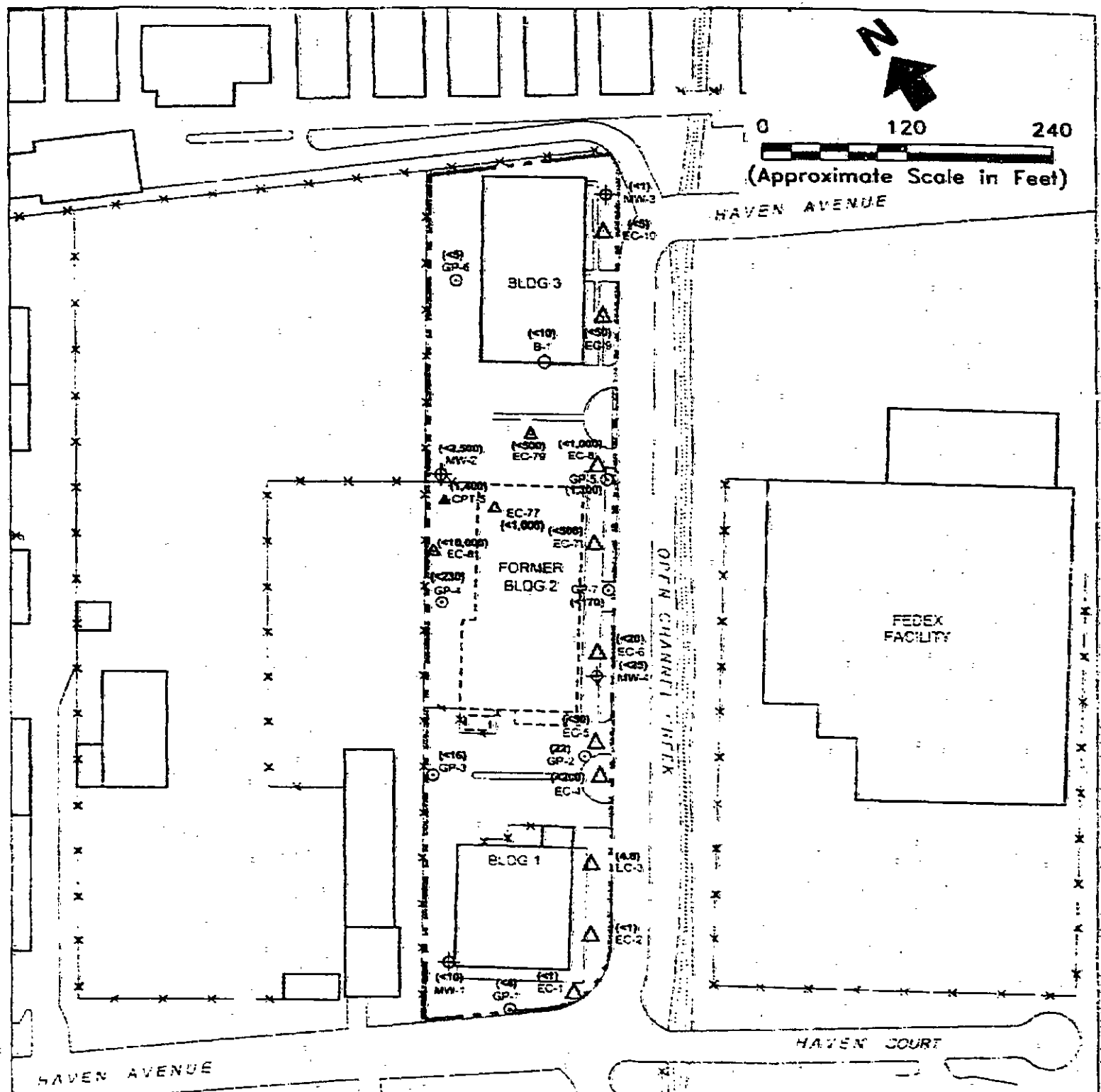
- △ Grab Groundwater Sample (April and September 1998)
- (170) TCE Concentration (ug/L) Detected in Groundwater Sample

**Notes:**

1. All locations are approximate.
2. The A-Zone extends from 0 to approximately 15 feet bgs.
3. The B-Zone extends from approximately 15-38 feet bgs.
4. bgs = below ground surface.
5. CPT/PIPP = Cone Penetrometer Test/Push In PVC Piezometer.
6. TCE = Trichloroethene

**Erler & Kalinowski, Inc.**

Concentrations of TCE (ug/L)  
 Detected in Groundwater Samples  
 Collected From the A-Zone  
 3645-3723 Haven Avenue and Vicinity  
 Menlo Park, CA  
 March 1999  
 EKI 960007.07  
 Figure 6



**LEGEND**

- ⊕ Groundwater Monitoring Well Screened in The A-Zone (ESI, 1994; E-KI, August 1996)
- Grab Groundwater Sample (ESI, 1994)
- ⊙ Geoprobe Sample From 10-15 feet bgs (Geomatrix, 1995)
- ▲ CPT/PIPP Sample (July and August 1996)
- △ Grab Groundwater Sample (October 1996)

- △ Grab Groundwater Sample (April and September 1996)
- (170) Vinyl Chloride Concentration (ug/L) Detected in Groundwater Sample

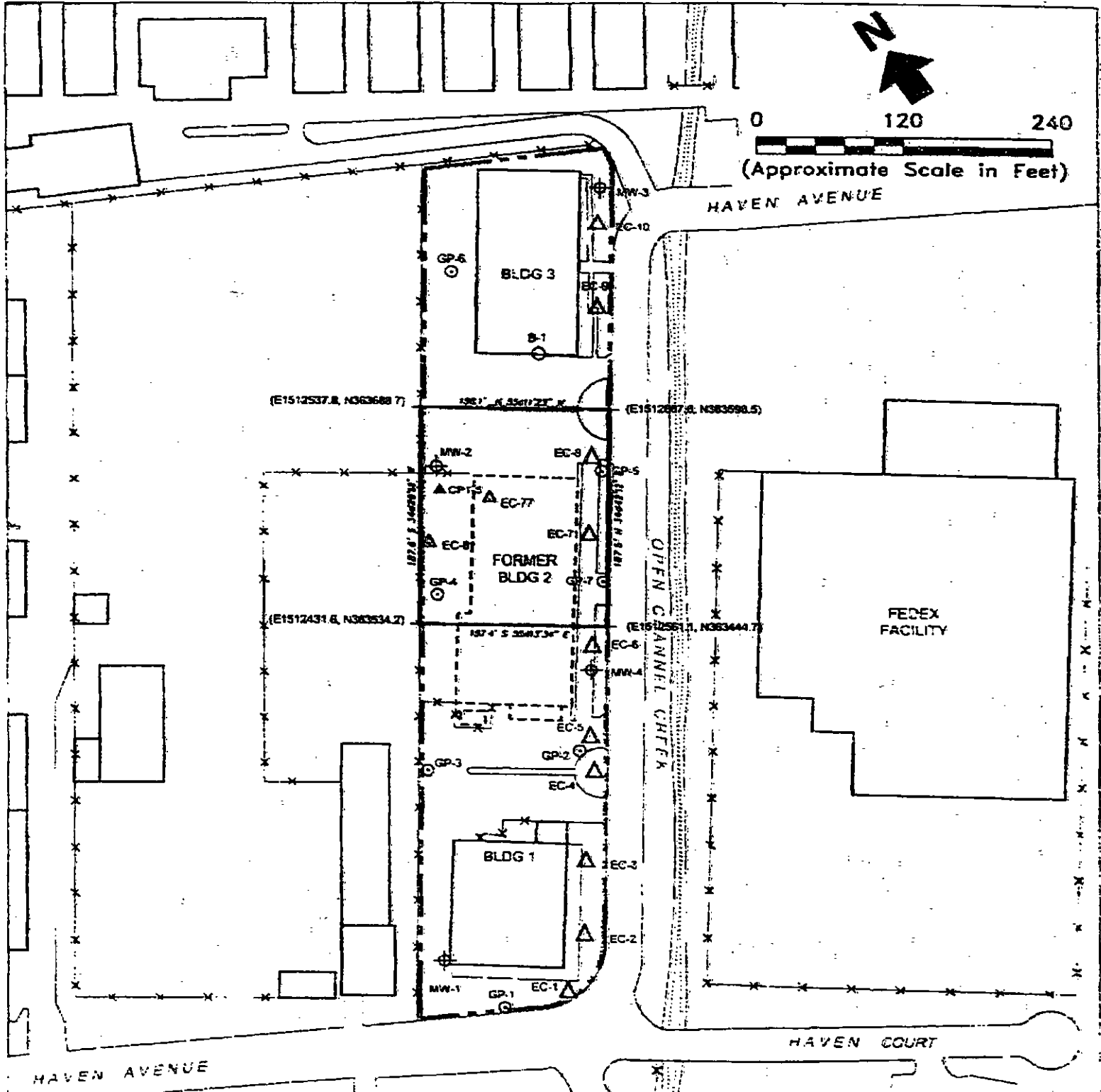
- Notes:**
1. All locations are approximate.
  2. The A-Zone extends from 0 to approximately 15 feet bgs.
  3. The B-Zone extends from approximately 15-38 feet bgs.
  4. bgs = below ground surface.
  5. CPT/PIPP = Cone Penetrometer Test/Push in PVC Piezometer.

**Erler & Kalinowski, Inc.**

Concentrations of Vinyl Chloride (ug/L) Detected in Groundwater Samples Collected From the A-Zone  
3645-3723 Haven Avenue and Vicinity  
Menlo Park, CA  
March 1999  
EKI 960007.07  
Figure 7







**LEGEND**

- ⊙ Groundwater Monitoring Well Screened in The A-Zone (ESI, 1994; EKI, August 1996)
- Grab Groundwater Sample (ESI, 1994)
- ⊙ Geoprobe Sample From 10-15 feet bgs (Geomatrix, 1995)
- ▲ CPT/PIPP Sample (July and August 1996)
- △ Grab Groundwater Sample (October 1996)
- △ Grab Groundwater Sample (April and September 1998)
- Lateral Extent of A-Zone Groundwater Exceeding Risk-Based Action Levels
- N363528.6 Northing Coordinate
- E1512587.1 Easting Coordinate

- Notes:
1. All locations are approximate.
  2. The A-Zone extends from 0 to approximately 15 feet bgs.
  3. The B-Zone extends from approximately 15-38 feet bgs.
  4. bgs = below ground surface.
  5. CPT/PIPP = Cone Penetrometer Test/Push in PVC Piezometer.

**Erler & Kalinowski, Inc.**

**A-Zone Groundwater Exceeding Risk-Based Action Levels**

3645-3723 Haven Avenue and Vicinity  
 Menlo Park, CA  
 March 1999  
 EKI 960007.07  
 Figure 9

**ATTACHMENT A**

**(Appendix A of Feasibility Study/ Remedial Action Plan,  
dated 12 March 1999)**

**HUMAN HEALTH RISK ASSESSMENT**

**3695 - 3723 HAVEN AVENUE  
MENLO PARK, CALIFORNIA**

*Prepared by:*

**Erler & Kalinowski, Inc.  
1730 South Amphlett Blvd., Suite 320  
San Mateo, CA 94402**

**12 March 1999  
EKI 960007.07**

**1999-135815  
03/09/1999 03:24P  
DR Page: 63 of 163**



APPENDIX A

HUMAN HEALTH RISK ASSESSMENT

3695-3723 Haven Avenue Property  
Menlo Park, California  
(EKI 960007.07)

TABLE OF CONTENTS

EXECUTIVE SUMMARY .....	ES-1
1. INTRODUCTION.....	1
2. ASSESSMENT OF BASELINE HUMAN HEALTH RISKS .....	3
2.1 Identification of Potentially Exposed Receptor Populations and Relevant Exposure Pathways.....	3
2.2 Chemicals of Concern in Soil and Groundwater .....	6
2.3 Toxicity Criteria .....	7
2.3.1 Non-Carcinogenic Toxicity Criteria .....	7
2.3.2 Carcinogenic Toxicity Criteria.....	8
2.4 Calculation of Exposure Point Concentrations and Chronic Daily Intakes.....	8
2.4.1 Ingestion and Dermal Contact Exposure Pathways .....	8
2.4.2 Inhalation Exposure Pathways .....	9
2.5 Baseline Risk Characterization.....	13
2.5.1 Future Indoor Workers.....	15
2.5.2 Future Maintenance Workers.....	15
2.5.3 Construction Workers .....	15
3. CALCULATION OF RISK-BASED ACTION LEVELS FOR SOIL AND GROUNDWATER .....	16
4. CONSERVATIVE ASSUMPTIONS IN THE RISK ASSESSMENT.....	17
5. REFERENCES.....	20

1999-130610  
08/07/1999 03:24P  
OR Page: 05 of 103



## **LIST OF TABLES**

- A-I Summary of Baseline Risks to Hypothetical Future Site Populations**
- A-II Risk-Based Action Levels for VOCs in Soil**
- A-III Risk-Based Action Levels for VOCs in Groundwater**
  
- A-1. Summary of Chemical Analytical Data for Soil Samples**
- A-2. Summary of Chemical Analytical Data for Groundwater Samples**
- A-3. Representative Concentrations of Chemicals in Soil and Groundwater**
- A-4. Oral and Inhalation Non-Carcinogenic Toxicity Information for Chemicals of Concern**
- A-5. Oral and Inhalation Carcinogenic Toxicity Information for Chemicals**
- A-6. Human Exposure Assumptions**
- A-7. Site Physical Parameter Assumptions**
- A-8. Chemical Parameters of Compounds Present in Site Soil or Groundwater**
- A-9. Characterization of Baseline Human Health Risks due to Inhalation of COCs Volatilized from Subsurface Soil for Future Indoor Workers**
- A-10. Characterization of Baseline Human Health Risks due to Inhalation of COCs Volatilized from Groundwater for Future Indoor Workers**
- A-11. Characterization of Baseline Human Health Risks due to Ingestion of COCs in Soil for Future Maintenance Workers**
- A-12. Characterization of Baseline Human Health Risks due to Dermal Contact with COCs in Soil for Future Maintenance Workers**
- A-13. Characterization of Baseline Human Health Risks due to Inhalation of COCs Volatilized from Subsurface Soil for Future Maintenance Workers**
- A-14. Characterization of Baseline Human Health Risks due to Inhalation of COCs Volatilized from Groundwater for Future Maintenance Workers**
- A-15. Characterization of Baseline Human Health Risks due to Ingestion of COCs in Soil for Construction Workers**
- A-16. Characterization of Baseline Human Health Risks due to Dermal Contact with COCs in Soil for Construction Workers**
- A-17. Characterization of Baseline Human Health Risks due to Inhalation of COCs Volatilized from Subsurface Soil for Construction Workers**
- A-18. Characterization of Baseline Human Health Risks due to Inhalation of COCs Volatilized from Groundwater for Construction Workers**

1999-125815  
08/09/1999 03:24P  
DR Page 66 of 183



**LIST OF TABLES (CONTINUED)**

- A-19. Summary of Baseline Human Health Risks from All Exposure Pathways for Future Indoor Workers
- A-20. Summary of Baseline Human Health Risks from All Exposure Pathways for Future Maintenance Workers
- A-21. Summary of Baseline Human Health Risks from All Exposure Pathways for Construction Workers
- A-22. Risk-Based Action Levels for Soil
- A-23. Risk-Based Action Levels for Groundwater
- A-24. Summary of Estimated Human Health Risks from All Exposure Pathways at Action Levels for Future Indoor Workers
- A-25. Summary of Estimated Human Health Risks from All Exposure Pathways at Action Levels for Future Maintenance Workers
- A-26. Summary of Estimated Human Health Risks from All Exposure Pathways at Action Levels for Future Construction Workers

1999-135515  
08/08/1999 03:24P  
OF Page : 67 of 153



## EXECUTIVE SUMMARY

This human health risk assessment was performed to:

- Evaluate potential impacts to human health by chemicals of concern ("COCs") present in soil and groundwater at the commercial/industrial property located at 3695-3723 Haven Avenue, Menlo Park, California (the "Site"); and,
- Develop risk-based action levels for soil and groundwater at the Site.

An analysis of risk was conducted assuming hypothetical exposure scenarios for potential future occupants of the Site. Occupants were subdivided into three hypothetical receptor populations based on their expected locations and activities. Each hypothetical population is described herein with a unique set of environmental and physiological assumptions, and was thus assumed to be exposed to different concentrations of chemicals for different amounts of time. All assumptions used in the risk assessment are quantified in the attached tables.

Baseline risks were calculated for the following three hypothetical receptor populations at the Site:

- Future commercial/industrial building occupants, who will work indoors on-Site over a long period of time ("Indoor Workers");
- Future maintenance personnel such as groundskeepers, who will labor primarily outdoors over a long period of time ("Maintenance Workers").
- Workers involved in the construction of new buildings or subsurface utilities on-Site, who will occupy the Site for much more limited periods ("Construction Workers"); and

A summary table of calculated baseline risks to each of the hypothetical future populations is shown below (Table A-1). These values represent the estimated total (a) Hazard Index for non-carcinogenic adverse health affects, and (b) incremental excess carcinogenic risk ("Cancer Risk"), to the hypothetical populations due to current Site conditions. In general, potential exposure pathways considered in the calculation of these baseline risks include exposure through incidental ingestion of soil, dermal contact with soil, inhalation of vapors from soil, and inhalation of vapors from groundwater.

One of the assumptions regarding the future Indoor Worker receptor population is that, unlike future Maintenance and Construction Workers, its members never work directly with soil. Thus, incidental ingestion and dermal contact with contaminated soil are not considered exposure pathways for this population. Inhalation of volatile organic



compounds evaporating from soil and groundwater were considered as complete pathways for all hypothetical populations.

HYPOTHETICAL POPULATION	BASELINE HAZARD INDEX	BASELINE CANCER RISK
Future Indoor Workers	0.08	$1.9 \times 10^{-5}$
Future Maintenance Workers	0.03	$4.5 \times 10^{-6}$
Construction Workers	0.01	$1.0 \times 10^{-7}$

**Table A-I. Summary of Baseline Risks to Hypothetical Future Site Populations.**

A more complete summary of estimated Hazard Index and Cancer Risk for the above populations may be found in Tables A-19, A-20, and A-21. Risk calculations are further documented in Tables A-9 through A-18.

### **Risk Calculations**

Table A-19 is a summary of estimated baseline risks for Indoor Workers. The most significant chemical/pathway combination for Indoor Workers, in terms of Cancer Risk, is inhalation of TCE evaporating from groundwater. The non-carcinogenic Hazard Index for this population is dominated by inhalation of vinyl chloride, trichloroethene ("TCE"), and *cis*-1,2-dichloroethene ("*cis*-1,2-DCE") from groundwater.

Baseline estimated Hazard Indices and Cancer Risk for Maintenance Workers through all pathways are listed in Table A-20. The most significant chemical/pathway combination for the Maintenance Worker receptor population is inhalation of vinyl chloride volatilizing from soil.

Baseline estimated Hazard Indices and Cancer Risk for all Construction Worker exposure pathways are listed in Table A-21. The most significant chemical/pathway combination, both in terms of Cancer Risk and the non-carcinogenic Hazard Index for the Construction Worker receptor population is inhalation of vinyl chloride volatilizing from soil.

### **Calculation of Risk-Based Action Levels**

Using the baseline risks calculated for the hypothetical receptor populations at the Site, risk-based action levels for soil and groundwater have been calculated, as discussed below.

1999-135810  
08/09/1999 03:24P  
DR Page 58 of 162





Risk-based action levels for soil and groundwater were calculated to apportion post-remediation risk such that overall Cancer Risk to the Indoor Worker, Maintenance Worker, and Construction Worker are each at or below  $1.0 \times 10^{-5}$ , and overall Hazard Index is at or below 1.0.

Table A-II is a listing of the risk-based action levels for those chemicals found in Site soil at concentrations exceeding the risk-based action levels. These include vinyl chloride and TCE. A more complete listing of risk-based action levels in soil for all chemicals of concern is provided in Table A-22.

VOLATILE ORGANIC COMPOUND	RISK-BASED ACTION LEVEL IN SOIL (ug/kg)
vinyl chloride	75
trichloroethene	3,200

Table A-II. Risk-Based Action Levels for VOCs in Soil

Table A-III is a summary of risk-based action levels for chemicals with maximum concentrations found in Site groundwater exceeding the risk-based action levels, i.e. TCE and vinyl chloride. Table A-23 is a more detailed enumeration of the calculated groundwater risk-based action levels.

VOLATILE ORGANIC COMPOUND	RISK-BASED ACTION LEVEL IN GROUNDWATER (ug/L)
vinyl chloride	500
trichloroethene	8,000

Table A-III. Risk-Based Action Levels for VOCs in Groundwater.

The method used for apportioning risk was to allocate most of the "available" risk to the more hazardous chemicals and those more commonly found at the Site. This approach minimizes the volume of soil and groundwater potentially requiring remediation, while keeping future hypothetical populations' estimated risks below target levels. Concentrations of vinyl chloride and TCE have been encountered in soil and groundwater samples from the Site in exceedence of their risk-based action levels. Other chemicals of concern have been discovered at concentrations consistently below the action levels.

Tables A-24, A-25, and A-26 are summaries of Hazard Index and Cancer Risk to each of the three hypothetical future worker populations at the calculated risk-based action levels

1999-135815  
08/09/1999 03:28P  
DR Page: 70 of 153



for soil and groundwater. Cumulative Hazard Indices and Cancer Risks are equal to or below 1.0 and  $1.0 \times 10^{-5}$ , respectively, in each case. Therefore, the risk-based action levels for soil and groundwater presented in Tables A-II and A-III result in an acceptable level of risk for future potentially exposed populations.

Future installation of monitoring wells (or other on-Site environmental work) may involve the collection of soil or groundwater samples for chemical analysis. Such analyses could potentially indicate the presence of chemical concentrations different from the current dataset. In this case, risk-based action levels for the Site may be recalculated to reflect the improved understanding of the distribution and concentrations of chemicals in Site soil or groundwater.

1999-135815  
08/08/1999 03:34P  
DR Page 71 of 153



## 1. INTRODUCTION

This appendix presents a human health risk assessment that was performed to:

- evaluate potential impacts to human health by chemicals of concern ("COCs") present in soil and groundwater at the commercial/industrial property located at 3705-3723 Haven Avenue, Menlo Park, California (the "Site"), and
- develop risk-based action levels for soil and groundwater at the Site.

Note that baseline risks at the Site were calculated previously for development of risk-based action levels for soil excavation using data collected prior to April 1998 (EKI 1998c; EKI 1999b). The methods and assumptions used in the risk calculations described herein are consistent with the previous risk calculations, with the following exceptions. The previous risk assessment used the most conservative measured values of vadose and capillary zone saturated porosities for Site soil. The calculated risks presented herein have instead assumed Site-average values for each parameter. Some additional groundwater data were collected for the Site after April 1998. Therefore, the data set used herein to calculate the baseline risk at the Site has been updated to include all the soil and groundwater data for the Site available as of February 1999. Also, the proposed risk-based action levels have now been developed to consider VOCs in both soil and groundwater.

The risk assessment was conducted assuming hypothetical exposure scenarios for future occupants of the Site. Occupants are subdivided into several receptor populations based on their expected locations and activities. Each group was assumed to be subjected to different concentrations of chemicals for different amounts of time. All assumptions used in the risk assessment are quantified in the attached tables.

This report is divided into three major sections. The first discusses criteria used to define each of the future occupant populations, outlines the chemicals present at the Site and their representative concentrations, and explains the toxicity criteria used in calculations. The second section presents and discusses the calculation of risk-based cleanup goals at the Site, and the third section discusses conservative assumptions used and uncertainty involved in the calculations.

This risk assessment was performed using guidelines published by the U.S. Environmental Protection Agency ("USEPA"), the California Environmental Protection Agency ("Cal-EPA"), and the American Society for Testing and Materials ("ASTM"), in the following documents:

- USEPA, December 1989, *Risk Assessment Guidance for Superfund, Volume 1, Human Health Evaluation Manual*.

08/08/1999 03:24P  
DR Page 72 of 163

- Cal-EPA, July 1992, *Supplemental Guidance for Human Health Multimedia Risk Assessments of Hazardous Waste Sites and Permitted Facilities*.
- ASTM, September 1995, *Standard Guide for Risk-Based Corrective Action Applied at Petroleum Release Sites ("RBCA")*.

Although all three documents are used for guidance in the risk assessment calculations, RBCA was the source of transport models used to calculate indoor and outdoor air exposure point concentrations for the assessment.

Chemicals of concern at the Site include halogenated volatile organic compounds ("VOCs"), acetone, and the aromatics benzene and toluene. Ordered by frequency of detection, the most common contaminants in soil and groundwater are trichloroethene ("TCE"), *cis*-1,2-dichloroethene ("*cis*-1,2-DCE"), and 1,1,2-trichloro-1,2,2-trifluoroethane ("CFC-113"). In groundwater, chloroform is also a common constituent. Based on the current set of samples, more chemicals appear to be present at detectable levels in groundwater than in soil.



## 2. ASSESSMENT OF BASELINE HUMAN HEALTH RISKS

The objective of a risk assessment for a particular location is to calculate the potential for adverse health effects, caused by chemicals present at the Site, to hypothetical current and future populations that may use the Site. The Site is currently unoccupied. Therefore, risk calculations in this report concern only hypothetical future populations. This section presents a discussion of the following topics:

- Potentially exposed receptor populations and relevant exposure pathways,
- Chemicals of concern present in soil and groundwater,
- Toxicity criteria for the chemicals of concern used in risk calculations,
- Assumptions used to calculate representative and exposure-point contaminant concentrations, and
- Results of the risk calculations.

### 2.1 Identification of Potentially Exposed Receptor Populations and Relevant Exposure Pathways

The Site is a commercial/industrial property, previously used for the manufacture of polished silicon wafers. It is located in a low-elevation, industrial/commercial area, approximately one hundred feet south of the salt evaporation ponds at the margin of San Francisco Bay. Two buildings are located on the Site; both are currently vacant. Populations at risk of potential exposure to chemicals of concern at the Site are therefore limited to hypothetical future populations of workers, which for the purpose of this study are grouped into three categories:

- Future commercial/industrial building occupants, who will work indoors on-Site over a long period of time ("Indoor Workers");
- Future maintenance personnel such as groundskeepers, who will labor primarily outdoors over a long period of time ("Maintenance Workers"); and
- Workers involved in the construction of new buildings or subsurface utilities on-Site, who will occupy the Site for much more limited periods ("Construction Workers").

Based on current land use and zoning, no residential, health-care, or educational facilities are expected to be built on-Site. Thus, all potentially exposed receptor populations in the risk assessment are assumed to be adults. Each potentially exposed future population at the Site has a set of possible exposure mechanisms, or pathways, through which it may come in contact with various chemicals of concern. These exposure pathways are dependent upon the type of activity or tasks expected from the population.



Oral ingestion of groundwater is a potential exposure pathway that was considered and rejected. Analytical results for samples of groundwater from the Site range from 8,600 mg/L to 154,200 mg/L total dissolved solids ("TDS") [EKL, 1999a], which classifies the water as brackish to saline [Drever, 1988]. The groundwater beneath the Site cannot be considered a potential source of drinking water because these values exceed the California state TDS guideline of 3,000 mg/L for drinking water sources (CRWOCB, 1995).

Dermal contact with groundwater was also rejected. Historic depth to groundwater at the Site is six to eight feet below ground surface ("bgs") [EKL, 1997a]. Expected depth of excavation for future construction utility installation or repair is estimated to be less than six to eight feet, so direct dermal exposure to groundwater is not treated as a valid exposure pathway for any of the hypothetical future Site receptor populations.

For the purpose of calculating baseline risk, parameters assumed in this study for each of the receptor populations are the following:

- INDOOR WORKERS

- \* Exposure Pathways:

- Inhalation of volatiles from groundwater
- Inhalation of volatiles from soil

- \* Exposure Parameters:

- Frequency: 250 working days per year, none doing excavation work; all days spent working indoors
- Duration: 25 years

- MAINTENANCE WORKERS

- \* Exposure Pathways:

- Inhalation of volatiles from soil
- Inhalation of volatiles from groundwater
- Dermal contact with soil
- Incidental ingestion of soil

- \* Exposure Parameters:

- Frequency: 250 working days per year: 5 days of excavation work, 245 days of non-excavation work; all working days spent outside
- Duration: 25 years



• CONSTRUCTION WORKERS

• Exposure Pathways:

- Inhalation of volatiles from soil
- Inhalation of volatiles from groundwater
- Dermal contact with soil
- Incidental ingestion of soil

• Exposure Parameters:

- Frequency: 250 working days per year, 87 spent doing excavation work
  - Duration: 4 months

Unlike the Indoor Worker population, Maintenance and Construction Workers are assumed to have contact with Site soil in the course of their jobs during excavation work. Thus, dermal contact and incidental ingestion pathways are considered for these populations. Although the hypothetical Maintenance and Construction Worker populations share the same potential exposure pathways, the two groups differ in exposure duration. Maintenance Workers, being permanent employees, are assumed to undergo exposure through activities at the Site for 25 years [USEPA, 1991].

Construction Workers are assumed to have a much shorter per-individual exposure of one year, a span of time assumed to encompass the earthwork stage of a construction project. An additional difference between the two outdoor receptor populations is the assumption that Maintenance Workers engage in excavation-type activities for an average of 5 days per year of 250 days, whereas Construction Workers perform excavation 87 days (four months) of their work year. This is significant in that excavation work is modeled with a higher soil ingestion rate than non-excavation activity.

The Site is almost completely covered by asphalt or concrete. Due to this cover, mobilization of chemicals through inhalation of particulate matter from surficial soils is not considered as a viable exposure pathway. The assumption was made that the Site will retain a similar type of cover, such as asphalt, concrete, or clean landscaping fill, in the future. Volatilization of chemicals from surficial soils to ambient air is similarly precluded, as almost none of the soil at the Site exists at the surface. For modeling purposes, all contaminated soil is treated as subsurface soil.

Mobilization and diffusion of vapor-phase chemicals (volatilized from soil or groundwater) from the subsurface to the surface is driven by a concentration gradient between the subsurface source of the vapors and the local atmosphere. Many chemicals at the Site are present in both soil and groundwater, and are conservatively assumed, in the baseline risk calculations, to volatilize and diffuse from both soil and groundwater into the atmosphere.



1992a; Cal-EPA, 1992]. The conservative assumption is made whereby analyses that did not detect a particular chemical of concern are treated as though the chemical had been detected at a concentration of one half the detection limit [USEPA, 1989]. Representative concentrations for all chemicals of concern at the Site are shown in Table A-3.

## 2.3 Toxicity Criteria

Accumulated data from various laboratory toxicity studies have been compiled and interpreted by a number of Federal and State agencies, among them the U.S. Environmental Protection Agency and the California Environmental Protection Agency. Results from human and, more commonly, animal trials are summarized into reference doses ("RfDs") for non-carcinogenic chemicals and risk slope factors ("SFs") for carcinogens. Toxicity values used in this risk assessment are taken from a hierarchy of several sources. If the needed value was not available in the preferred source, the next most reviewed source was consulted, and so on.

Non-carcinogen RfDs are preferentially obtained from the U.S. EPA Integrated Risk Information System ("IRIS") [USEPA, 1996], an on-line database of peer-reviewed toxicity information. The next most desirable RfD sources, in order of preference, are the U.S. EPA Health Effects Summary Tables ("HEAST") [USEPA, 1997], the U.S. EPA National Center for Environmental Assessment ("NCEA") Risk Assessment Issue Papers, and the Cal-EPA Office of Environmental Health Hazard Assessment Technical Support Document for the Determination of Non-Cancer Chronic Reference Exposure Levels ("OEHHA") [Cal-EPA, 1997].

Carcinogen SFs are preferentially culled from the Cal-EPA Memorandum Concerning Cancer Potency Factors: Update [Cal-EPA, 1996]. Values unavailable in that document are obtained from one of the above references for RfDs, in the same order of preference.

### 2.3.1 Non-Carcinogenic Toxicity Criteria

Toxicity of non-carcinogenic chemicals is expressed through reference doses, or RfDs, in units of milligrams per kilogram of body weight per day (mg/kg-day). The RfD for a particular chemical of concern is the hypothetical dose which will cause no adverse effects in human populations. An oral or ingestion reference dose ("RfDo") for a chemical is calculated from a different set of experiments than is an inhalation reference dose ("RfDi"). When one quantity or the other is unavailable, a "route-to-route extrapolation," or substitution, is sometimes used in the above data sources to estimate the missing value. As most toxicity studies are performed on laboratory animals, direct quantitative data for human toxicity of a particular chemical are uncommon. Published RfDs therefore generally contain safety factors of one or two orders of magnitude, to account for cross-species uncertainty, uncertainty from experimental procedures, and other effects. RfDs may be interpreted as representing the maximum "safe" dosage of a non-carcinogenic chemical. A low RfD indicates a low threshold dose, and therefore a





more toxic chemical; a high RfD denotes a substance with less toxicity. Reference doses for each chemical of concern at the Site are listed in Table A-4, together with a summary of demonstrated health effects and sources of the toxicological data.

### 2.3.2 Carcinogenic Toxicity Criteria

Toxicity for carcinogens is expressed as a risk slope factor, or "SF". Units of an SF are inverse exposure units, or (mg/kg-day)<sup>-1</sup>. When multiplied by a dose, the inverse dosage units cancel, resulting in a dimensionless value that represents the risk associated with that dose. Slope factors are therefore the "plausible upper-bound estimates of the probability of a carcinogenic response per unit of chemical intake over a lifetime" [USEPA, 1989]. As opposed to RfDs, chemicals with low SFs are less carcinogenic than those with high SFs. Slope factors for chemicals of concern at the Site are summarized in Table A-5, along with carcinogenic effects and SF data sources for each chemical.

### 2.4 Calculation of Exposure Point Concentrations and Chronic Daily Intakes

Based on the calculated representative concentrations for the chemicals of concern at the Site, estimates can be calculated for the concentration each potentially exposed receptor population might experience through a particular set of exposure pathways. Called exposure point concentrations ("EPCs"), these values, along with parameters describing the potentially exposed populations, allow determination of a Chronic Daily Intake ("CDI") for each chemical, population, and pathway. CDIs are expressed as dosages, in units of milligram of chemical per kilogram of body weight per day (mg/kg-day). Carcinogenic CDIs are calculated differently from non-carcinogenic CDIs. Averaging time is assumed to be 25 years for non-carcinogens but a full lifetime of 70 years for carcinogens. Assumed values for all parameters, along with the sources of the assumptions, are summarized in Table A-6.

#### 2.4.1 Ingestion and Dermal Contact Exposure Pathways

For the cases of soil ingestion and dermal contact, exposure point concentrations are identical to representative concentrations. CDIs for the two potential future receptor populations assumed to have the greatest likelihood of contact with Site soil, Maintenance Workers and Construction Workers, are calculated according to equations [1] and [2]:

Ingestion:

$$CDI_i = \frac{C_s \times IR_s \times EF \times ED \times 10^{-6} \frac{\text{kg}}{\text{mg}}}{BW \times AT} \quad [1]$$

where

CDI<sub>i</sub> = Chronic daily intake through ingestion (mg/kg-day)

C<sub>s</sub> = Representative Concentration = Concentration in soil (mg/kg)



- IR<sub>s</sub> = Ingestion rate of soil (mg/day)  
 EF = Exposure frequency (days/year)  
 ED = Exposure duration (years)  
 BW = Body weight (kg)  
 AT = Averaging time (days)

Dermal Contact:

$$CDI_{dc} = \frac{C_s \times SA_s \times ABS \times AF \times EF \times ED \times 10^{-6} \frac{kg}{mg}}{BW \times AT} \quad [2]$$

where

- CDI<sub>dc</sub> = Chronic daily intake through dermal contact (mg/kg-day)  
 C<sub>s</sub> = Representative Concentration = Concentration in soil (mg/kg)  
 SA<sub>s</sub> = Surface area of skin exposed to soil contact (cm<sup>2</sup>/event)  
 ABS = Soil-dermal absorption fraction (unitless)  
 AF = Soil adherence factor (mg/cm<sup>2</sup>)  
 EF = Exposure frequency (days/year)  
 ED = Exposure duration (years)  
 BW = Body weight (kg)  
 AT = Averaging time (days)

The Maintenance and Construction Worker scenarios differ with regard to incidental ingestion of soil. A Maintenance Worker is assumed to excavate soil for a total of 5 days during a work year of 250 days. In contrast, a Construction Worker is assumed to engage in excavation labor for four months (approximately 87 days) throughout the 250-day work year. Soil ingestion is assumed to occur at a rate of 480 mg/day during excavation activity and 50 mg/day during routine maintenance activities [USEPA, 1991; Cal-EPA, 1992]. See Table A-6 for more details of human exposure assumptions.

2.4.2 Inhalation Exposure Pathways

Chemicals of concern can volatilize from the subsurface into the air, posing a potential hazard to on-Site workers breathing in the vicinity. Different algorithms are used to calculate Exposure Point Concentrations ("EPCs") for indoor and outdoor air. When chemicals evaporate from soil and groundwater, the rate of transfer, based on each chemical's volatility, must first be determined before air EPCs can be calculated. Volatilization is modeled as a linear transfer function of the chemical's concentration in soil or groundwater [ASTM, 1995]. Expressed as a volatilization factor ("VF"), the transfer function is based, in part, on a chemical's Henry's Law constant, diffusion coefficients in air and water, and organic carbon partition coefficient. Exposure point concentrations in air due to volatilization of chemicals present in soil and groundwater are calculated for all future worker receptor populations through equations [3], and [4]:



$$C_a = VFx \times RC \times AgF \quad [3]$$

for excavation work, and

$$C_a = VFx \times RC \quad [4]$$

for non-excavation work, where

- $C_a$  = Concentration in air, or EPC (mg/m<sup>3</sup>)
- RC = Representative concentration of the chemical (mg/kg or mg/L)
- AgF = Agitation factor to model enhanced evaporation from excavation (unitless)

and the general term VFx refers to one of the following pathway and chemical-specific Volatilization Factors ("VFs"):

$VF_{s_{amb}}$  = Soil-to-outdoor air (ambient) pathway (kg soil/m<sup>3</sup> air):

$$VF_{s_{amb}} = \frac{H \times \rho_s \times 10^3 \frac{cm^3 \text{ kg}}{m^3 \text{ g}}}{[\theta_{ws} + (k_{oc} \times f_{oc} \times \rho_s) + (H \times \theta_{AS})] \times \left( 1 + \frac{U_{AIR} \times \delta_{AIR} \times L_S}{D_S^{eff} \times W} \right)} \quad [5]$$

$VF_{w_{amb}}$  = Groundwater-to-outdoor air (ambient) pathway (L H<sub>2</sub>O/m<sup>3</sup> air):

$$VF_{w_{amb}} = \frac{H \times 10^3 \frac{L}{m^3}}{\left( 1 + \frac{U_{AIR} \times \delta_{AIR} \times L_{GW}}{D_{ws}^{eff} \times W} \right)} \quad [6]$$

$VF_{s_{esp}}$  = Soil-to-indoor air (enclosed space) pathway (kg soil/m<sup>3</sup> air):

$$VF_{s_{esp}} = \frac{\frac{H \times \rho_s}{[\theta_{ws} + (k_{oc} \times f_{oc} \times \rho_s) + (H \times \theta_{AS})]} \times \left[ \frac{D_S^{eff}}{L_S \times ER \times L_B} \right] \times 10^3 \frac{cm^3 \text{ kg}}{m^3 \text{ g}}}{1 + \left[ \frac{D_S^{eff}}{L_S \times ER \times L_B} \right] + \left[ \frac{D_S^{eff} \times L_{CRACK}}{L_S \times D_{CRACK}^{eff} \times \eta} \right]} \quad [7]$$

1999-122815  
 08/09/1998 03:24P  
 DR Page 91 of 153



$VFW_{exp}$  = Groundwater-to-indoor air (enclosed space) pathway (L H<sub>2</sub>O/m<sup>3</sup> air):

$$VFW_{exp} = \frac{H \times \left[ \frac{D_{ws}^{eff}}{L_{GW} \times ER \times L_B} \right] \times 10^3 \frac{L}{m}}{1 + \left[ \frac{D_{ws}^{eff}}{L_{GW} \times ER \times L_B} \right] + \left[ \frac{D_{ws}^{eff} \times L_{CRACK}}{L_{GW} \times D_{CRACK}^{eff} \times \eta} \right]} \quad [8]$$

VFs are based, in part, upon effective diffusion coefficients for each chemical, calculated as follows:

$D_s^{eff}$  = Effective diffusion coefficient in soil based on vapor concentration (cm<sup>2</sup> / s):

$$D_s^{eff} = \left[ D^{air} \times \frac{(\theta_{AS})^{10/3}}{(\theta_T)^2} \right] + \left[ D^{water} \times \frac{(\theta_{WS})^{10/3}}{H \times (\theta_T)^2} \right] \quad [9]$$

$D_{CAP}^{eff}$  = Effective diffusion coefficient through capillary fringe (cm<sup>2</sup> / s):

$$D_{CAP}^{eff} = \left[ D^{air} \times \frac{(\theta_{ACAP})^{10/3}}{(\theta_T)^2} \right] + \left[ D^{water} \times \frac{(\theta_{WCAP})^{10/3}}{H \times (\theta_T)^2} \right] \quad [10]$$

$D_{ws}^{eff}$  = Effective diffusion coefficient between groundwater and surface (cm<sup>2</sup> / s):

$$D_{ws}^{eff} = \frac{(h_{CAP} + h_y)}{\left[ \frac{h_{CAP}}{D_{CAP}^{eff}} + \frac{h_y}{D_s^{eff}} \right]} \quad [11]$$

$D_{CRACK}^{eff}$  = Effective diffusion coefficient through floor or wall cracks (cm<sup>2</sup> / s):

$$D_{CRACK}^{eff} = \left[ D^{air} \times \frac{(\theta_{ACRACK})^{10/3}}{(\theta_T)^2} \right] + \left[ D^{water} \times \frac{(\theta_{WCRACK})^{10/3}}{H \times (\theta_T)^2} \right] \quad [12]$$

Where:

$D^{air}$  = Diffusion coefficient of the chemical in air (cm<sup>2</sup> / s)

$D^{water}$  = Diffusion coefficient of the chemical in water (cm<sup>2</sup> / s)



$ER$	= Enclosed-space air exchange rate (L / sec)
$f_{OC}$	= Fraction of organic carbon in soil (g C / g soil)
$H$	= Henry's Law constant ( $\text{cm}^3 \text{H}_2\text{O} / \text{cm}^3 \text{air}$ )
$h_{cap}$	= Thickness of capillary fringe (cm)
$h_v$	= Thickness of vadose zone (cm)
$k_{OC}$	= Organic carbon-water sorption coefficient ( $\text{cm}^3 \text{H}_2\text{O} / \text{g C}$ )
$L_B$	= Enclosed-space volume / infiltration area ratio (cm)
$L_{CRACK}$	= Enclosed-space floor or wall thickness (cm)
$L_{GW}$	= Depth to groundwater, i.e. $h_{cap} + h_v$ (cm)
$L_S$	= Depth to subsurface soil sources (cm)
$U_{AIR}$	= Wind speed above ground surface in ambient mixing zone (cm / sec)
$W$	= Width of source area parallel to wind or groundwater flow direction (cm)
$\delta_{AIR}$	= Ambient air mixing zone height (cm)
$\delta_{GW}$	= Groundwater mixing zone thickness (cm)
$\eta$	= Areal fraction of cracks in floor or wall ( $\text{cm}^2 \text{cracks} / \text{cm}^2 \text{total area}$ )
$\theta_{ACAP}$	= Volumetric air content in capillary fringe soil ( $\text{cm}^3 \text{air} / \text{cm}^3 \text{soil}$ )
$\theta_{ACRACK}$	= Volumetric air content in floor or wall cracks ( $\text{cm}^3 \text{air} / \text{cm}^3 \text{crack vol.}$ )
$\theta_{AS}$	= Volumetric air content in vadose zone soil ( $\text{cm}^3 \text{air} / \text{cm}^3 \text{soil}$ )
$\theta_T$	= Total soil porosity ( $\text{cm}^3 / \text{cm}^3 \text{soil}$ )
$\theta_{WCAP}$	= Volumetric water content in capillary fringe soil ( $\text{cm}^3 \text{water} / \text{cm}^3 \text{soil}$ )
$\theta_{WCRACK}$	= Volumetric water content in floor or wall cracks ( $\text{cm}^3 \text{water} / \text{cm}^3 \text{crack vol.}$ )
$\theta_{WS}$	= Volumetric water content in vadose zone soil ( $\text{cm}^3 \text{water} / \text{cm}^3 \text{soil}$ )
$\rho_S$	= Soil bulk density (g soil / $\text{cm}^3 \text{soil}$ )

Volatilization Factors are calculated according to the method described in the ASTM RBCA guidance [ASTM, 1995]. Air diffusion coefficients (" $D_{air}$ ") for chemicals of concern at the Site are estimated using the FSG method [Lyman, et al., 1990; USEPA, 1988]. Water diffusion coefficients (" $D_{water}$ ") are calculated through the method of Hayduk and Laudie [Lyman, et al., 1990]. Ambient-air VFs are used for calculations regarding Construction and Maintenance Workers, while enclosed-space air VFs are used for Indoor Worker EPC calculations. Specific physical parameter assumptions used in the above VF equations can be found in Table A-7; the quantities are Site-specific and noted as such where available, and otherwise are default values from the ASTM RBCA guidance [ASTM, 1995]. Table A-8 lists the resulting VFs and other data for each chemical of concern and volatilization pathway.

Construction Workers are modeled herein as performing excavation for their four month on-Site tenure of 87 working days (USEPA, 1991; Cal-EPA, 1992), consequently equation [3] is applied throughout. Maintenance Workers, however, are assumed to only labor five days per year in excavation tasks; AgF is only factored in through the use of equation [3] for those five days annually. The rest of the time, Maintenance Worker air EPCs are calculated using equation [4]. Indoor Workers are assumed to never perform excavation tasks, thus air EPCs are calculated with equation [4].



Chronic Daily Intakes in air due to volatilization of chemicals present in soil are calculated for all future worker receptor populations through equation [13]:

$$CDI_{inh} = \frac{C_a \times IR_a \times EF \times ED}{BW \times AT} \quad [13]$$

where

- CDI<sub>inh</sub> = Chronic daily intake through inhalation (mg/kg-day)
- C<sub>a</sub> = Concentration in air, or EPC (mg/m<sup>3</sup>)
- IR<sub>a</sub> = Inhalation rate of air (m<sup>3</sup>/day)
- EF = Exposure frequency (days/year)
- ED = Exposure duration (years)
- BW = Body weight (kg)
- AT = Averaging time (days)

Chronic daily intakes of chemicals of concern for each valid population/pathway combination are summarized in Table A-9 through Table A-18.

## 2.5 Baseline Risk Characterization

For the purpose of risk assessment at the Site, effects from chemicals of concern are split into two broad categories, Cancer Risk and non-carcinogenic Hazard Index. Each of these types of risk is calculated differently, although many contaminants at the Site have both effects, and are assigned both classifications. The separation is driven by the toxicity data for the two chemical effect categories. Non-carcinogens are assigned a Reference Dose ("RfD") in mg/kg-day, and carcinogens are assigned a Slope Factor ("SF"), having inverse dosage units of (mg/kg-day)<sup>-1</sup>. This section outlines assumptions used to calculate quantitative, Site-specific estimates of potential health hazards from non-carcinogens and of incremental lifetime Cancer Risk from carcinogens occurring at the Site.

Note that baseline risks are calculated assuming receptor populations are unprotected from exposure to hazardous chemicals (i.e. no engineering controls or personal protection equipment used).

As discussed in Section 1.3, non-carcinogenic RfDs are generally based on the highest no-adverse-effects chronic dosages from several studies. The hazard of a chemical of concern through a particular exposure pathway is calculated as the Chronic Daily Intake ("CDI") divided by the RfD for that pathway. This quantity is called the Hazard Index ("HI"). It is unique to the site, chemical, exposure pathway, and receptor population:

$$HI_n = \frac{CDI_n}{RfD_n} \quad [14]$$



where

- $HI_n$  = Hazard Index for the  $n^{\text{th}}$  combination of population, exposure pathway, and chemical of concern (dimensionless)  
 $CDI_n$  = Chronic Daily Intake for the  $n^{\text{th}}$  combination of population, exposure pathway, and chemical of concern (mg/kg-day)  
 $RfD_n$  = Reference Dose for the  $n^{\text{th}}$  combination of exposure pathway and chemical of concern (mg/kg-day)

For an explanation of CDI calculation for each population / pathway combination, please see footnotes to Tables A-9 through A-18, as appropriate.

Summation of Hazard Indices over all pathways and chemicals gives the Hazard Index for each population, which is targeted to remain at or below a value of one. A total HI less than or equal to one indicates that the population will not be exposed to the chemical beyond a dosage considered safe.

Carcinogenic chemicals are assigned, based on experimental evidence and mathematical modeling, a published Slope Factor for each exposure pathway. When multiplied by the CDI for that pathway, a unitless quantity results which represents the incremental risk of developing cancer from exposure to that chemical, through that exposure pathway, over a lifetime of 70 years [USEPA, 1989].

$$CR_n = CDI_n \times SF_n \quad [15]$$

where

- $CR_n$  = Estimated incremental excess Cancer Risk for the  $n^{\text{th}}$  combination of population, exposure pathway, and chemical of concern (dimensionless)  
 $CDI_n$  = Chronic Daily Intake for the  $n^{\text{th}}$  combination of population, exposure pathway, and chemical of concern (mg/kg-day)  
 $SF_n$  = Slope Factor for the  $n^{\text{th}}$  combination of exposure pathway and chemical of concern (mg/kg-day)<sup>-1</sup>

As with the non-cancer Hazard Index, summation of risk from all chemicals over all pathways valid for a particular receptor population gives an overall Cancer Risk for the population at the Site. This value is targeted to remain at or below  $10^{-5}$ . The National Oil and Hazardous Substances Pollution Contingency Plan (40 CFR §300) mandates an acceptable range of maximum incremental carcinogenic risk between  $10^{-4}$  and  $10^{-5}$ . California law requires notification of on-Site workers if Cancer Risk is estimated to exceed  $10^{-5}$  (California Code of Regulations ("CCR") Title 22, Section 12703). The targeted maximum carcinogenic risk of  $10^{-5}$  satisfies both sets of regulations.

All potentially exposed populations are assumed to be unprotected in the baseline risk calculations.



### 2.5.1 Future Indoor Workers

One of the assumptions regarding the future Indoor Worker receptor population is that its members never work with soil, thus, incidental ingestion and dermal contact with contaminated soil are not considered exposure pathways for this population. Inhalation of volatile organic compounds evaporating from soil, however, is valid and is presented in Table A-9. The same data for inhalation of VOCs from groundwater is shown in Table A-10.

A summary of baseline hazard and risk for Indoor Workers may be found in Table A-19. The most significant chemical/pathway combination for Indoor Workers, in terms of Cancer Risk, is inhalation of TCE evaporating from groundwater. The non-carcinogenic Hazard Index for this population is dominated by inhalation of vinyl chloride, TCE, and cis-1,2-DCE from groundwater.

### 2.5.2 Future Maintenance Workers

Baseline risk characterization data for Maintenance Workers is compiled in several tables. Table A-11 summarizes the soil ingestion exposure pathway, and Table A-12 displays similar data for the soil dermal contact exposure pathway. Table A-13 displays Hazard Index and Cancer Risk for the inhalation pathway through volatilization of organic compounds from soil. The same calculations for inhalation of VOCs from groundwater are shown in Table A-14.

Hazard and risk for Maintenance Workers through all pathways is summarized in Table A-20. The most significant chemical/pathway combination for the Maintenance Worker receptor population is inhalation of vinyl chloride volatilizing from soil. Note that under existing Site conditions, potential risks experienced by the hypothetical Maintenance Worker population are within acceptable limits.

### 2.5.3 Construction Workers

Baseline Hazard indices and Cancer Risks for each chemical of concern at the Site are organized in the same way as for Maintenance Workers. Table A-15 lists the soil ingestion exposure pathway, and Table A-16 lists similar data for the soil dermal contact pathway. Table A-17 lists Hazard Index and Cancer Risk for the inhalation pathway of volatile organic compounds evaporating from soil; groundwater VOC volatilization is detailed in Table A-18. A summary of baseline Cancer Risks and Hazard Indices for all Construction Worker exposure pathways is listed in Table A-21. The most significant chemical/pathway combination, both in terms of potential carcinogenic risk and non-carcinogenic health hazard for the Construction Worker receptor population, is inhalation of vinyl chloride volatilizing from soil. Dermal contact with vinyl chloride is also a significant pathway in terms of generation of carcinogenic risk for Construction Workers. Note that under current conditions, potential risks experienced by the hypothetical Construction Worker population are less than the acceptable maximum values.

1999-135819  
06/09/1999 03:24P  
DR Page: 06 of 183





### 3. CALCULATION OF RISK-BASED ACTION LEVELS FOR SOIL AND GROUNDWATER

Using the baseline risks calculated for the hypothetical receptor populations at the Site, risk-based action levels for soil and groundwater have been calculated, as discussed below. Risk-based action levels have been calculated considering potential exposures to future hypothetical receptor populations, i.e., Indoor Workers, Maintenance Workers, and Construction Workers.

Risk-based action levels for soil and groundwater were calculated to apportion post-remediation risk such that overall Cancer Risk to all hypothetical worker populations is at or below  $1.0 \times 10^{-5}$ , and overall Hazard Index is at or below 1.0. The method used for apportioning risk was to allocate most of the risk to the more hazardous chemicals and those more commonly found at the Site. This approach minimizes the volume of soil and groundwater potentially requiring remediation, while keeping future hypothetical populations' estimated risks below target levels.

Table A-22 lists risk-based action levels for soil, and Table A-23 lists risk-based action levels for groundwater. Current representative concentrations of chemicals within soil and groundwater are also shown on Tables A-22 and A-23 for comparison. TCE and vinyl chloride have been detected in Site soil and groundwater at concentrations greater than their respective risk-based action levels.

Estimates of future estimated Hazard Indices and Cancer Risks for each of the hypothetical populations are listed in Tables A-24, A-25, and A-26. These risks represent estimates of what would result from cleanup of both soil and groundwater at the Site to the respective risk-based action levels. Estimated cumulative Hazard Indices and Cancer Risks for each hypothetical population are equal to or below 1.0 and  $1.0 \times 10^{-5}$ , respectively. Therefore, the risk-based action levels for soil and groundwater listed in Tables A-22 and A-23 would result in an acceptable level of risk for future potentially exposed populations.

If, in the future, chemicals are measured in soil or groundwater samples that differ significantly from the current dataset, risk-based action levels may be recalculated to more accurately reflect the distribution and concentrations of the chemicals.

1999-125015  
03/08/1999 03:24P  
OR Page: 67 of 163



#### 4. CONSERVATIVE ASSUMPTIONS IN THE RISK ASSESSMENT

The estimated baseline risks and the risk-based action levels presented in the attached tables are upper-bound, health conservative estimates of baseline risks and risk-based action levels for reasonable maximum exposure scenarios. Actual risks may be lower. This section discusses the conservative nature of some of the assumptions in the risk assessment.

Major conservative assumptions include:

- the method used to calculate representative concentrations for chemicals in soil and groundwater;
- the use of all chemicals detected on-Site for risk calculation, even if the frequency of detection was very low;
- the use of conservative exposure frequency assumptions (in days of exposure per year) for hypothetical future worker populations;
- "double counting" of certain calculated risks caused by summing the risks due to volatilization of VOCs from soil and from groundwater; and
- apportionment of risk to each chemical of concern in both soil and groundwater, even when the chemical was actually detected in only one medium.

##### 4.1 Calculation of Representative Concentrations

Representative concentrations of chemicals used to calculate baseline risks are assumed to be the lesser of the maximum detected concentration or the 95% upper confidence limit of the mean concentration ("95% UCL"), based on a lognormal model. When calculating the 95% UCL, samples without detectable concentrations were conservatively assumed to contain chemicals at concentrations equal to half the detection limit for the analyses. Potentially exposed populations may actually be exposed to a lesser concentration than either the maximum or the 95% UCL, as the distribution of chemicals at the Site is not homogeneous.

##### 4.2 Frequency of Detection

Chemicals detected in Site soil and groundwater are dominated by TCE and cis-1,2-DCE. As a conservative approach, however, all detected chemical species were used in calculation of baseline risks, regardless of each chemical's frequency of detection. Table A-3 shows frequencies of detection for all chemicals detected on-Site.



Given the overall conservative nature of the risk assessment, actual non-carcinogenic and carcinogenic risks to potentially exposed populations are likely to be significantly lower than reported herein. The calculated health risk-based action levels are founded on the same conservative assumptions as the baseline risk calculations. Consequently, chemicals present in soil and groundwater at their human health risk-based action level concentrations should not pose an adverse risk to occupants at the Site.

1998-132815  
08/08/1998 03:27P  
DR Page 98 of 153



## 5. REFERENCES

- ASTM, 1995, *Standard Guide for Risk-Based Corrective Action Applied at Petroleum Release Sites*. American Society for Testing and Materials, Designation E 1739-95, 10 September 1995.
- Cal-EPA, 1992, *Supplemental Guidance for Human Health Multimedia Risk Assessments of Hazardous Waste Sites and Permitted Facilities*. California Environmental Protection Agency, Department of Toxic Substances Control, July 1992.
- Cal-EPA, 1996, *Cancer Potency Factors: Update*. California Environmental Protection Agency, Standards and Criteria Work Group, Office of Environmental Health Hazard Assessment, April 1996.
- Cal-EPA, 1997, *Technical Support Document for the Determination of Non-Cancer Chronic Reference Exposure Levels*. California Environmental Protection Agency, Air Toxic and Epidemiology Section, Office of Environmental Health Hazard Assessment, October 1997.
- CRWQB, 1995, *San Francisco Bay Basin (Region 2) Water Quality Control Plan*. California Regional Water Quality Control Board, San Francisco Bay Region, June 1995.
- Drever, 1988, *The Geochemistry of Natural Waters, 2<sup>nd</sup> ed.* Prentice-Hall Pub. Co., Englewood Cliffs, NJ.
- EKI, 1999a. *Remedial Action Plan and Feasibility Study, 3695-3723 Haven Avenue, Menlo Park, California*. Erler & Kalinowski, Inc., 10 March 1999
- EKI, 1997a. *Remedial Investigation Report, 3695-3723 Haven Avenue and Vicinity, Menlo Park, California*. Erler & Kalinowski, Inc., 21 April 1997.
- Hem, J.D., 1985, *Study and Interpretation of the Chemical Characteristics of Natural Water*. U.S. Geological Survey Water-Supply Paper 2254.
- Lyman, W.J., W.F. Reehl, and D.H. Rosenblatt, 1990, *Handbook of Chemical Property Estimation Methods*. American Chemical Society, Washington, D.C.
- USEPA, 1988, *Superfund Exposure Assessment Manual*. EPA/540/1-88/001, U.S. Environmental Protection Agency, Office of Emergency and Remedial Response, April 1988.

1999-135818  
08/09/1999 of 249  
OK Page 91 of 183



## REFERENCES (CONTINUED)

- USEPA, 1989, *Risk Assessment Guidance for Superfund ("RAGS"), Volume 1, Human Health Evaluation Manual (Part A)*. EPA/540/12-89/002, U.S. Environmental Protection Agency, Office of Emergency and Remedial Response, December 1989.
- USEPA, 1991, *RAGS, Volume 1 - Human Health Evaluation Manual, Supplemental Guidance: Standard Default Exposure Factors*. Interim Final, OSWER Directive 9285.6-03, U.S. Environmental Protection Agency, Office of Solid Waste and Emergency Response, March 1991.
- USEPA, 1992a, *Supplemental Guidance to RAGS: Calculating the Concentration Term*. Intermittent Bulletin, Vol. 1, No. 1, Publication 9285.7-081, U.S. Environmental Protection Agency, Office of Solid Waste and Emergency Response.
- USEPA, 1996, *Integrated Risk Information System (IRIS)*, U.S. Environmental Protection Agency, Washington, D.C., [<http://www.epa.gov/iris>]

1999-12-13  
09/09/1999 01:34P  
OR Page 92 of 153







Table A-1  
Summary of Chemical Analytical Data for Soil Samples  
3695-3723 Haven Avenue Property, Menlo Park, California

Sample	Sample Depth Range (ft bgs) <sup>(a)</sup>	Sample Collection Date	Concentration in Soil (mg/kg)												
			Carbon Tetrachloride	Chloroform	1,2-Dichlorobenzene	1,1-Dichloroethane	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Tetrachloroethene	Trichloroethene	1,1,2-Trichloro-1,2,2-Trifluoroethane	Vinyl Chloride			
EC-27	3.0-3.5	11-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.089	<0.05	<0.05
EC-27	5.0-5.5	11-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.23	<0.05	<0.05
EC-28	1.0-1.5	11-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.05	<0.05
EC-28	5.0-5.5	11-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.061	<0.05	<0.05
EC-29	2.5-3.0	11-Sep-97	<0.2	<0.2	<0.2	<0.2	<0.2	0.26	<0.2	<0.2	<0.2	<0.2	3.4	<0.4	<0.4
EC-29	5.0-5.5	11-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.05	<0.05
EC-30	1.5-2.0	11-Sep-97	<0.1	<0.1	<0.1	<0.1	<0.1	0.19	<0.1	<0.1	<0.1	<0.1	1.3	<0.2	<0.2
EC-30	5.0-5.5	11-Sep-97	<0.1	<0.1	<0.1	<0.1	<0.1	1.8	<0.1	<0.1	<0.1	<0.1	0.21	<0.2	<0.2
EC-31	3.0-3.5	10-Sep-97	<0.1	<0.1	<0.1	<0.1	<0.1	0.84	<0.1	<0.1	<0.1	<0.1	2.1	<0.2	<0.2
EC-31	5.0-5.5	10-Sep-97	<0.25	<0.25	<0.25	<0.25	<0.25	4.6	<0.25	<0.25	<0.25	<0.25	0.92	<0.5	<0.5
EC-32	2.5-3.0	10-Sep-97	<0.05	<0.05	<0.05	<0.05	<0.05	0.44	<0.05	<0.05	<0.05	<0.05	1.0	<0.1	<0.1
EC-32	5.0-5.5	10-Sep-97	<0.1	<0.1	<0.1	<0.1	<0.1	23	<0.1	<0.1	<0.1	<0.1	1.1	<2	<2
EC-33	2.5-3.0	10-Sep-97	<0.05	<0.05	<0.05	<0.05	<0.05	1.1	<0.05	<0.05	<0.05	<0.05	1.0	<0.1	<0.1
EC-33	5.0-5.5	10-Sep-97	<0.1	<0.1	<0.1	<0.1	<0.1	2.6	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	0.41
EC-34	3.0-3.5	10-Sep-97	<0.05	<0.05	<0.05	<0.05	<0.05	0.71	<0.05	<0.05	<0.05	<0.05	1.3	0.11	<0.1
EC-34	5.0-5.5	10-Sep-97	<0.2	<0.2	<0.2	<0.2	<0.2	4.9	<0.2	<0.2	<0.2	<0.2	<0.2	<0.4	<0.4
EC-35	2.5-3.0	10-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	0.031	<0.025	<0.025	<0.025	<0.025	0.12	0.18	<0.05
EC-35	5.0-5.5	10-Sep-97	<0.05	<0.05	<0.05	<0.05	<0.05	1.2	<0.05	<0.05	<0.05	<0.05	1.1	0.67	0.19
EC-36	2.0-2.5	10-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.1	<0.05	<0.05
EC-36	5.0-5.5	10-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	0.21	<0.025	<0.025	<0.025	<0.025	0.07	0.083	<0.05
EC-37	2.0-2.5	10-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	0.28	<0.025	<0.025	<0.025	<0.025	0.29	<0.05	<0.05
EC-37	5.0-5.5	10-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	0.39	<0.025	<0.025	<0.025	<0.025	0.39	0.7	0.08
EC-38	3.0-3.5	10-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.05	<0.05
EC-38	5.0-5.5	10-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	0.17	<0.025	<0.025	<0.025	<0.025	<0.025	0.079	<0.05
EC-39	2.5-3.0	10-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.05	<0.05



Table A-1  
 Summary of Chemical Analytical Data for Soil Samples  
 3695-3723 Haven Avenue Property, Menlo Park, California

Sample	Sample Depth Range (ft bgs) <sup>(a)</sup>	Sample Collection Date	Concentration in Soil (mg/kg)											
			Carbon Tetrachloride	Chloroform	1,2-Dichlorobenzene	1,1-Dichloroethane	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Tetrachloroethene	Trichloroethene	1,1,2-Trichloro-1,2,2-Trifluoroethane	Vinyl Chloride		
EC-39	5.0-5.5	10-Sep-97	<0.05	<0.05	<0.05	<0.05	<0.05	0.85	<0.05	<0.05	<0.05	0.18	1.5	<0.1
EC-40	5.0-5.5	11-Sep-97	<0.025	<0.025	<0.025	<0.025	0.16	<0.025	<0.025	<0.025	0.4	0.93	<0.05	<0.05
EC-41	2.0-2.5	11-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	0.28	<0.025	<0.025	<0.025	<0.025	<0.05	<0.05
EC-41	5.0-5.5	11-Sep-97	<0.05	<0.05	<0.05	<0.05	0.051	1.6	<0.1	<0.1	0.68	0.87	<0.1	<0.1
EC-42	2.5-3.0	11-Sep-97	<0.025	<0.025	<0.025	<0.025	1.0	0.13	<0.05	<0.05	0.038	0.084	<0.05	<0.05
EC-42	5.0-5.5	11-Sep-97	<0.1	<0.1	<0.1	<0.1	2.3	2.5	<0.1	<0.1	2.7	0.91	<0.2	<0.2
EC-43	3.0-3.5	11-Sep-97	<0.05	<0.05	<0.05	<0.05	<0.05	0.52	<0.05	<0.05	0.84	<0.1	<0.1	<0.1
EC-43	5.0-5.5	11-Sep-97	<0.1	<0.1	<0.1	<0.1	<0.05	0.57	<0.1	<0.1	<0.1	<2	<2	<2
EC-44	3.5-4.0	11-Sep-97	<0.05	<0.05	<0.05	<0.05	<0.05	<0.025	<0.05	<0.05	0.59	<0.1	<0.1	<0.1
EC-44	5.0-5.5	11-Sep-97	<0.1	<0.1	<0.1	<0.1	<0.1	2.9	<0.1	<0.1	<0.1	0.4	0.4	0.56
EC-45	2.5-3.0	11-Sep-97	<0.2	<0.2	<0.2	<0.2	<0.2	0.13	<0.2	<0.2	4.1	<0.4	<0.4	<0.4
EC-45	5.0-5.5	11-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	0.13	<0.025	<0.025	0.084	<0.05	<0.05	<0.05
EC-46	2.5-3.0	11-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.047	<0.05	<0.05	<0.05
EC-46	5.0-5.5	11-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	0.13	<0.025	<0.025	<0.025	<0.05	<0.05	<0.05
EC-47	2.5-3.0	12-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	10	<0.025	<0.025	0.15	<0.05	<0.05	<0.05
EC-47	5.0-5.5	12-Sep-97	<0.2	<0.2	<0.2	<0.2	<0.2	2.9	<0.2	<0.2	0.44	<0.4	<0.4	<0.4
EC-48	2.0-2.5	15-Sep-97	<0.1	<0.1	<0.1	<0.1	<0.1	1.1	<0.1	<0.1	0.28	<0.2	<0.2	<0.2
EC-48	5.0-5.5	15-Sep-97	<0.1	<0.1	<0.1	<0.1	<0.1	10	<0.1	<0.1	1.8	<2	<2	<2
EC-49	1.5-2.0	12-Sep-97	<0.1	<0.1	<0.1	<0.1	<0.1	1.6	<0.1	<0.1	0.68	0.43	<0.2	<0.2
EC-49	5.0-5.5	12-Sep-97	<0.5	<0.5	<0.5	<0.5	<0.5	13	<0.5	<0.5	5.2	1.2	<1	<1
EC-50	1.5-2.0	12-Sep-97	<0.25	<0.25	<0.25	<0.25	<0.25	3.3	<0.25	<0.25	1	<0.5	<0.5	<0.5
EC-50	5.0-5.5	12-Sep-97	<2	<2	<2	<2	<2	9.2	<2	<2	40	7.6	<4	<4
EC-51	2.0-2.5	12-Sep-97	<0.05	<0.05	<0.05	<0.05	<0.05	0.68	<0.05	<0.05	0.35	0.12	<0.1	<0.1
EC-51	5.0-5.5	12-Sep-97	<0.1	<0.1	<0.1	<0.1	<0.1	10	<0.1	<0.1	2.7	3	<2	<2
EC-52	2.0-2.5	12-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	0.061	<0.025	<0.025	<0.025	0.12	<0.05	<0.05

Table A-1  
Summary of Chemical Analytical Data for Soil Samples  
3695-3723 Haven Avenue Property, Menlo Park, California

Sample	Sample Depth Range (ft bgs) <sup>(a)</sup>	Sample Collection Date	Concentration in Soil (mg/kg)											
			Carbon Tetrachloride	Chloroform	1,2-Dichlorobenzene	1,1-Dichloroethane	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Tetrachloroethene	Trichloroethene	1,1,2-Trichloro-1,2,2-Trifluoroethane	Vinyl Chloride		
EC-52	5.0-5.5	12-Sep-97	<0.2	<0.2	<0.2	<0.2	1.2	<0.2	<0.2	<0.2	<0.2	1.1	5.3	<0.4
EC-53	2.0-2.5	12-Sep-97	<0.2	<0.2	<0.2	<0.2	1.8	<0.2	<0.2	<0.2	<0.2	0.37	<0.4	<0.4
EC-53	5.0-5.5	12-Sep-97	<1	<1	<1	<1	22	<1	<1	<1	<1	5.5	11	<2
EC-54	2.0-2.5	12-Sep-97	<0.025	<0.025	<0.025	<0.025	0.12	<0.025	<0.025	<0.025	<0.025	<0.025	0.22	<0.05
EC-54	5.0-5.5	12-Sep-97	<0.5	<0.5	<0.5	<0.5	2.7	<0.5	<0.5	<0.5	<0.5	<0.5	5.6	<1
EC-55	2.0-2.5	12-Sep-97	<0.025	<0.025	<0.025	<0.025	0.079	<0.025	<0.025	<0.025	<0.025	0.058	0.12	<0.05
EC-55	5.0-5.5	12-Sep-97	<0.025	<0.025	<0.025	<0.025	0.06	<0.025	<0.025	<0.025	<0.025	<0.025	0.16	<0.05
EC-56	2.0-2.5	12-Sep-97	<0.025	<0.025	<0.025	<0.025	0.087	<0.025	<0.025	<0.025	<0.025	0.081	<0.05	<0.05
EC-56	5.0-5.5	12-Sep-97	<0.05	<0.05	<0.05	<0.05	0.66	<0.05	<0.05	<0.05	<0.05	0.36	0.65	<0.1
EC-57	2.0-2.5	12-Sep-97	<0.025	<0.025	<0.025	<0.025	0.032	<0.025	<0.025	<0.025	<0.025	<0.025	<0.05	0.19
EC-57	5.0-5.5	12-Sep-97	<0.2	<0.2	<0.2	<0.2	2.3	<0.2	<0.2	<0.2	<0.2	0.16	2.1	<0.4
EC-58	2.0-2.5	12-Sep-97	<0.025	<0.025	<0.025	<0.025	0.049	<0.025	<0.025	<0.025	<0.025	<0.025	0.059	<0.05
EC-58	5.0-5.5	12-Sep-97	<0.25	<0.25	<0.25	<0.25	6.4	<0.25	<0.25	<0.25	<0.25	0.75	2.7	<0.5
EC-59	2.0-2.5	12-Sep-97	<0.025	<0.025	<0.025	<0.025	0.053	<0.025	<0.025	<0.025	<0.025	<0.025	<0.05	<0.05
EC-59	5.0-5.5	12-Sep-97	<0.1	<0.1	<0.1	<0.1	2.8	<0.1	<0.1	<0.1	<0.1	0.51	1.6	<0.2
EC-60	2.5-3.0	12-Sep-97	<0.025	<0.025	<0.025	<0.025	0.073	<0.025	<0.025	<0.025	<0.025	<0.025	<0.05	<0.05
EC-60	5.0-5.5	12-Sep-97	<0.05	<0.05	<0.05	<0.05	0.78	<0.05	<0.05	<0.05	<0.05	<0.05	0.48	<0.1
EC-61	2.5-3.0	12-Sep-97	<0.025	<0.025	<0.025	<0.025	0.046	<0.025	<0.025	<0.025	<0.025	0.083	<0.05	<0.05
EC-61	5.0-5.5	12-Sep-97	<0.025	<0.025	<0.025	<0.025	0.41	<0.025	<0.025	<0.025	<0.025	<0.025	0.17	0.072
EC-62	2.5-3.0	12-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.27	<0.05	<0.05
EC-62	5.0-5.5	12-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.05	<0.05
EC-63	2.5-3.0	11-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.05	<0.05
EC-63	5.0-5.5	11-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.078	<0.05	<0.05
EC-64	2.5-3.0	12-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.21	<0.05	<0.05
EC-64	5.0-5.5	12-Sep-97	<0.025	<0.025	<0.025	<0.025	0.15	<0.025	<0.025	<0.025	<0.025	0.21	0.12	<0.05





1899-135015  
08/09/1999 03:24P  
DR Page 99 of 183

Table A-1  
Summary of Chemical Analytical Data for Soil Samples  
3695-3723 Haven Avenue Property, Menlo Park, California

Sample	Sample Depth Range (ft bgs) <sup>(a)</sup>	Sample Collection Date	Concentration in Soil (mg/kg)										
			Carbon Tetrachloride	Chloroform	1,2-Dichlorobenzene	1,1-Dichloroethane	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Tetrachloroethene	Trichloroethene	1,1,2-Trichloro-1,2,2-Trifluoroethane	Vinyl Chloride	
EC-76	5.0-5.5	10-Sep-97	<0.025	<0.025	<0.025	<0.025	0.065	<0.025	<0.025	<0.025	0.25	<0.05	<0.05
MW-7B	4.0-4.5	23-Oct-96	<2	<2	<2	<2	51	<2	<2	11	<4	<0.1	<0.1
S2-3	3.0-3.5	04-Sep-97	<0.1	<0.1	<0.1	<0.1	1.0	<0.1	<0.1	<0.1	<0.1	<0.05	<0.05
TR-1	2.0	10-Sep-97	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.41	<0.05	<0.05	<0.05
<b>Summary of Concentrations (mg/kg)</b>													
Number of Samples Analyzed			154	154	154	154	154	154	154	154	154	117	154
Number of Analyte Detections			1	3	2	1	92	1	1	95	39	33%	6
Frequency of Detection (%)			1%	2%	1%	1%	60%	1%	1%	62%	0.024	0.059	4%
Minimum Concentration			0.021	0.0056	0.021	0.38	0.014	0.11	0.073	0.024	0.072	0.072	0.072
Maximum Concentration			0.021	0.016	1.5	0.38	51	0.11	0.073	40	11	11	0.56
95% Upper Confidence Limit (c)			0.062	0.061	0.066	0.065	3.950	0.063	0.063	1.811	0.575	0.575	0.137
Representative Concentration in mg/kg (d)			0.021	0.016	0.066	0.065	4.0	0.063	0.063	1.8	0.57	0.57	0.14

**Notes:**

- (a) Sample depth range in feet below ground surface (ft bgs).
- (b) A hyphen (-) indicates that the sample was not analyzed for the chemical.
- (c) The 95% upper confidence limit of the mean concentration was calculated assuming a log-normal data distribution. One-half the detection limit value was used for samples in which the analyte concentration was reported as below the detection limit.
- (d) The representative concentration was selected as the lesser of either the 95% upper confidence limit or the maximum detected concentration.







Table A-2  
Summary of Chemical Analytical Data for Groundwater Samples  
3695-3723 Haven Avenue Property, Menlo Park, California

Sample	Sample Collection Depth (ft bgs) <sup>(a)</sup>	Sample Collection Date	EPA Analysis Method	Concentration in Groundwater (ug/L)														
				Acetone	Benzene	Carbon Tetrachloride	Chloroform	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethane	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Methylene Chloride	Tetrachloroethene	Toluene	1,1,1-Trichloroethane	Trichloroethene	1,1,2-Trichloro-1,2,2-Trifluoroethane
MW-2	5.5-15.5	08-Sep-98	8010	-	-	<1250	<1250	<1250	<1250	<1250	<1250	<1250	<1250	<1250	<1250	<1250	<1250	<2500
MW-1	5.5-15.5	04-Oct-94	8240	<5.0	<5.0	90	110	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	9	<5.0	
MW-3	5.5-15.5	08-Aug-96	8010	-	-	<2.5	7	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	130	<5.0	
MW-3	5.5-15.5	17-Sep-97	8010	-	-	100	110	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	9	<5.0	
MW-3	5.5-15.5	17-Apr-98	8010	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	3	<1.0	
MW-4	6-16	08-Aug-96	8010	-	-	77	140	<10	<10	<10	<10	<10	<10	<10	<10	750	<20	
MW-4	6-16	01-Nov-96	8010	-	-	75	100	<12	<12	<12	<12	<12	<12	<12	<12	710	<25	
MW-4	6-16	18-Sep-97	8010	-	-	82	110	<10	<10	<10	<10	<10	<10	<10	<10	430	<20	
MW-4	6-16	17-Apr-98	8010	-	-	39	90	<12	<12	<12	<12	<12	<12	<12	<12	590	<25	
MW-5B	24-34	01-Nov-96	8010	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	3	<1.0	
MW-5B	24-34	18-Sep-97	8010	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	9	<1.0	
MW-5B	24-34	17-Apr-98	8010	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	16	<1.0	
MW-5D	24-34	17-Apr-98	8010	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	17	<1.0	
MW-6B	21-31	01-Nov-96	8010	-	-	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	4500	<200	
MW-6B	21-31	17-Sep-97	8010	-	-	<50	60	<50	<50	<50	<50	<50	<50	<50	<50	2600	<100	
MW-6B	21-31	17-Apr-98	8010	-	-	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	1200	<50	
MW-6H	21-31	08-Sep-98	8010	-	-	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	3500	<200	
MW-7B	18-28	01-Nov-96	8010	-	-	1000	<1000	<1000	<1000	<1000	<1000	<1000	<1000	<1000	<1000	37000	<2000	
MW-7B	18-28	18-Sep-97	8010	-	-	<2500	<2500	<2500	<2500	<2500	<2500	<2500	<2500	<2500	<2500	31000	<5000	
MW-7B	18-28	17-Apr-98	8010	-	-	<2500	<2500	<2500	<2500	<2500	<2500	<2500	<2500	<2500	<2500	52000	<5000	
MW-7B	18-28	08-Sep-98	8010	-	-	<2500	<2500	<2500	<2500	<2500	<2500	<2500	<2500	<2500	<2500	49000	<2500	

Table A-2  
Summary of Chemical Analytical Data for Groundwater Samples  
3695-3723 Haven Avenue Property, Menlo Park, California

Sample	Sample Collection Depth (ft bgs) <sup>(a)</sup>	Sample Collection Date	EPA Analysis Method	Concentration in Groundwater (ug/L)														
				Acetone	Benzene	Carbon Tetrachloride	Chloroform	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Methylene Chloride	Tetrachloroethene	Toluene	1,1,1-Trichloroethane	Trichloroethene	1,1,2-Trifluoroethane
<b>Summary of Concentrations (ug/L)</b>																		
				32	35	102	102	102	102	102	102	102	102	102	102	102	102	102
				6	2	22	43	4	2	10	2	1	1	1	8	71	14	12
				19%	6%	22%	42%	4%	6%	10%	2%	1%	1%	3%	8%	70%	44%	12%
				11	4.7	6.1	0.5	1.9	5	0.9	1.6	32	46	6.0	0.73	0.57	5.9	1.1
				37	460	2300	1000	140	5	270	25000	1.6	32	6.6	27	260000	12000	1400
				88	23	2014	3308	262	31941	288	52099	2621	284	14	247	3130151	2221	651
				37	23	2,000	1,000	140	5.0	270	25,000	2.0	32	7.0	27	260,000	2,200	650
				<b>Representative Concentration (ug/L)<sup>(d)</sup></b>														

Notes:

- (a) Depth of groundwater interval sampled in feet below ground surface ("ft bgs").
- (b) A hyphen (-) indicates that no analysis was performed for the chemical.
- (c) The 95% upper confidence limit of the mean concentration was calculated assuming a log-normal data distribution. One-half the detection limit value was used for samples in which the analyte concentration was reported as below the detection limit.
- (d) The representative concentration was selected as the lesser of either the 95% upper confidence limit concentration or the maximum detected concentration.



**Table A-3**  
**Representative Concentrations of Chemicals in Soil and Groundwater**  
**3695-3723 Haven Avenue Property, Menlo Park, California**

Chemical	Soil		Groundwater	
	Frequency of Detection	Representative Concentration <sup>(a)</sup> (mg/kg)	Frequency of Detection	Representative Concentration <sup>(a)</sup> (ug/L)
Acetone	(b)	-	19%	37
Benzene	-	-	6%	23
Carbon Tetrachloride	1%	0.021	22%	2000
Chloroform	2%	0.016	42%	1000
1,2-Dichlorobenzene	1%	0.066	-	-
1,1-Dichloroethane	1%	0.065	4%	140
1,2-Dichloroethane	-	-	6%	5.0
1,1-Dichloroethene	-	-	10%	270
cis-1,2-Dichloroethene	60%	4.0	50%	25000
trans-1,2-Dichloroethene	1%	0.063	2%	2
Methylene Chloride	-	-	1%	32
Tetrachloroethene	1%	0.063	1%	46
Toluene	-	-	3%	7
1,1,1-Trichloroethane	-	-	8%	27
Trichloroethene	62%	1.8	70%	260000
1,1,2-Trichloro-1,2,2-Trifluoroethane	33%	0.57	44%	2200
Vinyl Chloride	4%	0.14	12%	650

**Notes:**

(a) Representative Concentrations ("RCs") were calculated as the lesser of the maximum concentration or the 95% Upper Confidence Limit of the mean concentration ("UCL95"), assuming a lognormal distribution.

(b) A hyphen (-) means the chemical was not detected.

1999-130815  
6/29/1999 03:24P  
OR Page 108 of 183



**Table A-4**  
**Oral and Inhalation Non-Carcinogenic Toxicity Information for Chemicals of Concern**  
**3695-3723 Haven Avenue Property, Menlo Park, California**

Compound	Oral Reference Dose (mg/kg-day)	Inhalation Reference Dose (mg/kg-day)	Non-Carcinogenic Effects	Source <sup>(a)</sup>
Acetone	0.1	0.1 <sup>(b)</sup>	Liver toxicity in mice, liver and kidney weight gain in rats.	IRIS
Benzene	0.003	0.0017	Neoplasia in rats and mice.	NCEA
Carbon Tetrachloride	0.0007	0.011	Liver lesions in rats.	IRIS (o), OEHHA (i)
Chloroform	0.01	0.086	Liver cyst formation in dogs.	IRIS (o), OEHHA (i)
1,2-Dichlorobenzene	0.09	0.057	Liver necrosis and lymphocyte depletion in rats and mice.	IRIS (o), HEAST (i)
1,1-Dichloroethane	0.1	0.14	Under review	HEAST
1,2-Dichloroethane	(c)	-	-	-
1,1-Dichloroethene	0.009	0.0057	Hepatic lesions in rats, alimentary system effects.	IRIS (o), HEAST (i)
cis-1,2-Dichloroethene	0.01	0.01 <sup>(b)</sup>	Decreased hematocrit and hemoglobin in rats.	HEAST
trans-1,2-Dichloroethene	0.02	0.02 <sup>(b)</sup>	Changes in serum chemistry, decreased thymus gland weight in rats.	IRIS
Methylene Chloride	0.06	0.086	Liver toxicity in rats.	IRIS (o), OEHHA (i)
Tetrachloroethene	0.01	0.011	Liver toxicity in mice, liver and kidney weight gain in rats.	IRIS (o), OEHHA (i)
Toluene	0.2	0.11	Neurotoxicity in humans when inhaled; change in liver, kidney weights in rats.	IRIS (o), OEHHA & IRIS (i)
1,1,1-Trichloroethane	0.035	0.29	Central nervous system depression, psychomotor effects in humans.	NCEA
Trichloroethene	0.17 <sup>(d)</sup>	0.17	Under review.	OEHHA
1,1,2-Trichloro-1,2,2-Trifluoroethane	30	26	Psychomotor impairment in occupationally exposed humans.	IRIS (o), OEHHA (i)
Vinyl Chloride	0.0014 <sup>(d)</sup>	0.0014	Under review.	OEHHA

1999-135819  
08/09/1999 03:24P  
DR Page 106 of 163



**Table A-4**  
**Oral and Inhalation Non-Carcinogenic Toxicity Information for Chemicals of Concern**  
**3695-3723 Haven Avenue Property, Menlo Park, California**

**Notes:**

- (a) Reference doses ("RfDs") were obtained from the California EPA Office of Environmental Health Hazard Assessment, 1997 Technical Support Document for the Determination of Noncancer Chronic Reference Exposure Levels ("OEHHHA"); the U.S. Environmental Protection Agency Integrated Risk Information System ("IRIS"); the U.S. EPA 1997 Health Effects Assessment Summary Tables ("HEAST"); or the U.S. EPA National Center for Environmental Assessment Risk Assessment Issue Papers ("NCEA"); in order of precedence. Notation: (o) = oral reference dose, (i) = inhalation reference dose.
- (b) An inhalation RfD is not defined in the listed sources, so the corresponding oral RfD (i.e. route-to-route extrapolation) is shown.
- (c) A hyphen (-) indicates that no data for the indicated parameter was available from the listed sources.
- (d) An oral RfD is not defined in the listed sources, so the corresponding inhalation RfD (i.e. route-to-route extrapolation) is shown.

1999-130019  
08/09/1999 03:24P  
OK Page 107 of 153



**Table A-5**  
**Oral and Inhalation Carcinogenic Toxicity Information for Chemicals of Concern**  
**3695-3723 Haven Avenue Property, Menlo Park, California**

Compound	Weight of Evidence Classification <sup>(a)</sup>	Oral Slope Factor (mg/kg-d) <sup>-1</sup>	Inhalation Slope Factor (mg/kg-d) <sup>-1</sup>	Carcinogenic Effects	Source <sup>(b)</sup>
Acetone	D	(c)	-	-	IRIS
Benzene	A	0.1	0.1	Non-lymphocytic leukemia from occupational exposure of humans.	Memo
Carbon Tetrachloride	B2	0.15	0.15	Liver cell carcinomas in rats, mice, hamsters.	Memo
Chloroform	B2	0.031	0.019	Several tumor types formed in rats and mice.	Memo
1,2-Dichlorobenzene	D	-	-	-	IRIS
1,1-Dichloroethane	C	0.0057	0.0057	Mammary gland carcinomas, liver cell carcinomas, benign uterine polyps in female rats and mice.	Memo
1,2-Dichloroethane	B2	0.07	0.07	Several tumor types in rats. Lung papillomas in mice.	Memo
1,1-Dichloroethene	C	-	-	(d)	IRIS
cis-1,2-Dichloroethene	D	-	-	-	IRIS
trans-1,2-Dichloroethene	-	-	-	-	-
Methylene Chloride	B2	0.014	0.0035	Liver cell and lung neoplasms in mice. Salivary gland sarcomas, benign mammary tumors in rats.	Memo
Tetrachloroethene	B2	0.051	0.021	-	Memo
Toluene	D	-	-	-	IRIS
1,1,1-Trichloroethane	D	-	-	-	IRIS
Trichloroethene	B2	0.015	0.01	-	Memo
1,1,2-Trichloro-1,2,2-Trifluoroethane	-	-	-	-	-
Vinyl Chloride	A	0.27	0.27	Liver, lung tumors in rats.	Memo

1333-133313  
08/09/1999 03:24P  
OR Page: 108 of 153



**Table A-5**  
**Oral and Inhalation Carcinogenic Toxicity Information for Chemicals of Concern**  
**3695-3723 Haven Avenue Property, Menlo Park, California**

**Notes:**

(a) U.S. EPA weight-of-evidence classification is as follows:

A = Human Carcinogen

B1 or B2 = Probable Human Carcinogen; B1 indicates that limited human data are available; B2 indicates that there is sufficient evidence in animals and inadequate or no evidence in humans.

C = Possible Human Carcinogen

D = Not Classifiable as to Human Carcinogenicity.

E = Evidence of Non-Carcinogenicity for Humans

Weight-of-evidence information obtained from the U.S. Environmental Protection Agency Integrated Risk Information System database ("IRIS"); the July 1997 U.S. EPA Health Effects Assessment Summary Tables ("HEAST"); or the U.S. EPA National Center for Environmental Assessment Risk Assessment Issue Papers ("NCEA"); in order of precedence.

(b) Slope factors were obtained from the California Environmental Protection Agency, 1996 Memorandum of Cancer Potency Factors Update ("Memo", see below); the U.S. EPA IRIS database; the 1997 U.S. EPA HEAST; or the U.S. EPA NCEA, in order of precedence.

(c) A hyphen (-) indicates that no data for the indicated field was available in the listed sources.

(d) 1,1-Dichloroethene is not recognized as a human carcinogen by the State of California (source: California EPA, 1996, *California Cancer Potency Factors*, California Environmental Protection Agency, Office of Environmental Health Hazard Assessment, Sacramento, California, 1 April 1996).

1998-135815  
08/09/1998 03:24P  
DR Page 108 of 188



**Table A-6**  
**Human Exposure Assumptions**  
**3695-3723 Haven Avenue Property, Menlo Park, California**

Parameter	Variable	Value	Reference <sup>(a)</sup>
<b>Air Inhalation Rate (m<sup>3</sup>/day)</b> All Adult Workers	IRa	20	USEPA (1991), Cal-EPA (1992)
<b>Averaging Time (days)</b> Non-Carcinogens	AT		
Maintenance Worker (25 yrs)		9125	USEPA (1991), Cal-EPA (1992)
Construction Worker (1 yr)		365	USEPA (1991), Cal-EPA (1992)
Indoor Worker (25 yrs)		9125	USEPA (1991), Cal-EPA (1992)
Carcinogens All Workers (70 yrs)		25550	USEPA (1991), Cal-EPA (1992)
<b>Body Weight (kg)</b> All Adult Workers	BW	70	USEPA (1991), Cal-EPA (1992)
<b>Exposure Duration (years)</b> Maintenance Worker Construction Worker Indoor Worker	ED	25 1 25	USEPA (1991), Cal-EPA (1992) Best Professional Judgement USEPA (1991), Cal-EPA (1992)
<b>Exposure Frequency (days/year or events/year)</b> Maintenance Worker - excavation Maintenance Worker - nonexcavation Construction Worker Indoor Worker	EF	5 245 87 250	Best Professional Judgement Best Professional Judgement USEPA (1991), Cal-EPA (1992) USEPA (1991), Cal-EPA (1992)
<b>Skin Surface Area (cm<sup>2</sup>/event)</b> All Adult Workers	SAs	3160	Based on U.S. EPA (1989a)
<b>Soil Adherence Factor (mg/cm<sup>2</sup>)</b> All Outdoor Workers - Excavation All Outdoor Workers - Nonexcavation	AF	0.5 0.5	ASTM (1995) ASTM (1995)
<b>Soil Agitation Factor for Volatilization During Excavation (dimensionless)</b>	AgF	1	U.S. EPA (1989b)
<b>Soil Ingestion Rate (mg/day)</b> Maintenance Worker - excavation Maintenance Worker - nonexcavation Construction Worker	IRs	480 50 480	USEPA (1991) USEPA (1991), Cal-EPA (1992) USEPA (1991)
<b>Soil-Dermal Absorption Fraction (dimensionless)</b> VOCs	ABS	0.1	Cal-EPA (1994)

1589-135815  
06/08/1999 03:24P  
DR Page 110 of 133



**Table A-6**  
**Human Exposure Assumptions**  
**3695-3723 Haven Avenue Property, Menlo Park, California**

**Notes:**

(a) References for exposure assumptions:

- ASTM, 1995, *Standard Guide for Risk-Based Corrective Action Applied at Petroleum Release Sites*. American Society for Testing and Materials, Designation E 1739-95, 10 September 1995.
- Cal-EPA, 1992, *Supplemental Guidance for Human Health Multimedia Risk Assessments of Hazardous Waste Sites and Permitted Facilities*. California Environmental Protection Agency, Department of Toxic Substances Control, Sacramento, California, July 1992.
- Cal-EPA, 1994, *Preliminary Endangerment Assessment Guidance Manual*. California Environmental Protection Agency, Department of Toxic Substances Control, Sacramento, California, January 1994.
- USEPA, 1989a, *Risk Assessment Guidance for Superfund ("RAGS"), Volume 1, Human Health Evaluation Manual (Part A)*. EPA/540/1-89/002, U.S. Environmental Protection Agency, Office of Emergency and Remedial Response ("OERR"), December 1989.
- USEPA, 1989b, *Air Superfund National Technical Guidance Series, Volume III*. U.S. Environmental Protection Agency, Office of Air Quality Planning and Standards, Research Triangle Park, NC, EPA/450/1-89/002-004.
- USEPA, 1991, *RAGS, Volume 1 - Human Health Evaluation Manual, Supplemental Guidance: Standard Default Exposure Factors*. Interim Final, OSWER Directive 9285.6-03, U.S. Environmental Protection Agency, Office of Solid Waste and Emergency Response, March 1991.

**Table A-7**  
**Site Physical Parameter Assumptions**  
**3695-3723 Haven Avenue Property, Menlo Park, California**

Symbol	Value	Variable	Source
$h_{cap}$	15	Thickness of capillary fringe (cm)	EKI, 1997b <sup>(a)</sup>
$h_v$	175	Thickness of vadose zone (cm)	EKI, 1997b
$\theta_{as}$	0.083	Volumetric air content in vadose zone soil (cm <sup>3</sup> air / cm <sup>3</sup> soil)	EKI, 1997b
$\theta_{ws}$	0.331	Volumetric water content in vadose zone soil (cm <sup>3</sup> water / cm <sup>3</sup> soil)	EKI, 1997b
$\theta_{acap}$	0.018	Volumetric air content in capillary fringe soil (cm <sup>3</sup> air / cm <sup>3</sup> soil)	EKI, 1997b
$\theta_{wcap}$	0.396	Volumetric water content in capillary fringe soil (cm <sup>3</sup> water / cm <sup>3</sup> soil)	EKI, 1997b
$\theta_{acrack}$	0.083	Volumetric air content in foundation or wall cracks (cm <sup>3</sup> air / cm <sup>3</sup> crack vol.)	ASTM, 1995 <sup>(b)</sup>
$\theta_{wcrack}$	0.331	Volumetric water content in foundation or wall cracks (cm <sup>3</sup> water / cm <sup>3</sup> crack vol.)	ASTM, 1995
$\theta_T$	0.414	Total soil porosity (cm <sup>3</sup> / cm <sup>3</sup> soil)	EKI, 1997b
$\eta$	0.001	Areal fraction of cracks in foundation or wall (cm <sup>2</sup> cracks / cm <sup>2</sup> total area)	Daugherty, 1992 <sup>(c)</sup>
$\rho_s$	1.57	Soil bulk density (g soil / cm <sup>3</sup> soil)	EKI, 1997b
$\Theta_m$	0.225	Soil moisture content by mass (kg water / kg dry soil)	EKI, 1997b
$L_B$	244	Enclosed-space volume / infiltration area ratio (cm)	EKI <sup>(d)</sup>
$L_{crack}$	11	Enclosed-space foundation or wall thickness (cm)	EKI, 1997b
$L_{gw}$	190	Depth to groundwater, i.e. $h_{cap} + h_v$ (cm)	EKI, 1997b
$L_s$	30	Depth to subsurface soil sources (cm)	EKI, 1997b
ER	0.00023	Enclosed-space air exchange rate (L / sec)	ASTM, 1995
$U_{air}$	410	Wind speed above ground surface in ambient mixing zone (cm / sec)	WRRC, 1998 <sup>(e)</sup>
$\delta_{air}$	200	Ambient air mixing zone height (cm)	ASTM, 1995
W	5100	Width of source area parallel to wind or groundwater flow direction (cm)	EKI, 1997a
foc	0.0061	Fraction of organic carbon in soil (g C / g soil)	EKI, 1997b

**Notes:**

- (a) Parameter values were derived or estimated from physical properties measured onsite and documented in one of the following:  
 EKI, 1997a, *Remedial Investigation Report, 3695-3723 Haven Avenue and Vicinity, Menlo Park, California*. Erier & Kalinowski, Inc., 21 April 1997.  
 EKI, 1997b, *Results of Additional Investigations and Testing, 3695-3723 Haven Avenue and Vicinity, Menlo Park, California*. Erier & Kalinowski, Inc., 30 December 1997.

DR Page: 112 of 163



**Table A-7**  
**Site Physical Parameter Assumptions**  
**3695-3723 Haven Avenue Property, Menlo Park, California**

- (b) Parameter values were defaults taken from the ASTM RBCA guide:  
ASTM, 1995, *Standard Guide for Risk-Based Corrective Action Applied at Petroleum Release Sites*. American Society for Testing and Materials, Designation E 1739-95, 10 September 1995.  
Volumetric air and water content of foundation and wall cracks assumed to be identical to air and water content of vadose zone soil, as in RBCA.
- (c) Taken from:  
Daugherty, S.J., 1992, *Regulatory Approaches to Hydrocarbon Contamination from Underground Storage Tanks*, in Kostecki, P.T., and E.J. Calabrese, eds., *Hydrocarbon Contaminated Soils and Groundwater: Analysis, Fate, Environmental and Public Health Effects, Remediation*. Vol. 1. Lewis Publishers.
- (d) Best professional judgement by EKI personnel.
- (e) Western Regional Climate Center data for Moffett Field, Mountain View, CA.

08/05/1999 03:24P  
OR Page: 113 of 193

Table A-8

Chemical Parameters of Compounds Present in Site Soil or Groundwater  
3695-3723 Haven Avenue Property, Menlo Park, California

Compound	Solubility <sup>(a)</sup> (mg/L)	C <sub>sat</sub> <sup>(b)</sup> (mg/kg)	C <sub>max</sub> <sup>(c)</sup> (mg/kg)	H'	D <sup>air</sup> (cm <sup>2</sup> /s)	D <sup>water</sup> (cm <sup>2</sup> /s)	K <sub>oc</sub> (cm <sup>3</sup> H <sub>2</sub> O/gsoil)	VFW <sub>exp</sub> (L H <sub>2</sub> O/m <sup>3</sup> air)	VFg <sub>exp</sub> (kg soil/m <sup>3</sup> air)	VFW <sub>amb</sub> (L H <sub>2</sub> O/m <sup>3</sup> air)	VFg <sub>amb</sub> (kg soil/m <sup>3</sup> air)
Acetone	1.0E+06	47,925	-	0.0017	0.10	1.0E-05	0.37	2.8E-06	1.4E-05	6.0E-07	1.7E-05
Benzene	1700	267	-	0.23	0.087	9.0E-06	78	4.8E-05	7.1E-05	5.4E-06	9.1E-05
Carbon Tetrachloride	850	452	0.021	0.96	0.079	8.2E-06	344	1.7E-04	7.9E-05	9.3E-06	1.0E-04
Chloroform	8200	1,380	0.016	0.11	0.088	9.2E-06	87	2.6E-05	3.5E-05	3.8E-06	4.6E-05
1,2- Dichlorobenzene	130	75	1.5	0.076	0.071	7.3E-06	385	1.4E-05	5.7E-06	2.3E-06	7.4E-06
1,1-Dichloroethane	5200	473	0.38	0.18	0.089	9.1E-06	30	3.9E-05	1.0E-04	4.9E-06	1.3E-04
1,2-Dichloroethane	8400	592	-	0.045	0.089	9.1E-06	16	1.2E-05	3.7E-05	2.1E-06	4.8E-05
1,1-Dichloroethene	2500	366	-	0.86	0.091	9.6E-06	65	1.8E-04	2.9E-04	1.0E-05	3.8E-04
cis-1,2- Dichloroethene	600	78	51	0.12	0.091	9.6E-06	59	2.8E-05	5.0E-05	4.1E-06	6.5E-05
trans-1,2- Dichloroethene	4900	646	0.11	0.30	0.091	9.6E-06	59	6.6E-05	1.2E-04	6.6E-06	1.5E-04
Methylene Chloride	16000	963	-	0.0709	0.10	1.1E-05	8.7	2.0E-05	7.5E-05	3.2E-06	9.6E-05
Tetrachloroethene	590	252	0.073	0.54	0.074	7.6E-06	272	9.4E-05	5.2E-05	6.8E-06	6.7E-05
Toluene	540	125	-	0.28	0.078	8.0E-06	132	5.3E-05	5.3E-05	5.3E-06	6.8E-05
1,1,1- Trichloroethane	1500	339	-	0.55	0.079	8.1E-06	125	1.0E-04	1.1E-04	7.3E-06	1.4E-04
Trichloroethene	1100	200	40	0.30	0.081	8.4E-06	95	5.8E-05	7.4E-05	5.8E-06	9.5E-05

Table A-8

Chemical Parameters of Compounds Present in Site Soil or Groundwater  
3695-3723 Haven Avenue Property, Menlo Park, California

Compound	Solubility <sup>(a)</sup> (mg/l.)	C <sub>sat</sub> <sup>(h)</sup> (mg/kg)	C <sub>max</sub> <sup>(c)</sup> (mg/kg)	H'	D <sup>air</sup> (cm <sup>2</sup> /s)	D <sup>water</sup> (cm <sup>2</sup> /s)	K <sub>oc</sub> (cm <sup>3</sup> H <sub>2</sub> O/gsoil)	VFW <sub>esp</sub> (L-H <sub>2</sub> O/m <sup>3</sup> air)	VFS <sub>esp</sub> (kg soil/m <sup>3</sup> air)	VFW <sub>amb</sub> (L-H <sub>2</sub> O/m <sup>3</sup> air)	VFS <sub>amb</sub> (kg soil/m <sup>3</sup> air)
1,1,2-Trichloro- 1,2,2-											
Trifluoroethane	200	149	11	13.85	0.061	7.5E-06	389	1.7E-03	6.2E-04	3.8E-05	7.9E-04
Vinyl Chloride	4300	265	0.56	0.90	0.11	1.1E-05	2.5	2.2E-04	8.6E-04	1.2E-05	1.1E-03

Notes:

(a) Solubility values from Montgomery, J.H. and L.M. Welkom, 1991, *Groundwater Chemicals Desk Reference*, Lewis Pub. Co., Chelsea, Mich.

(b) Saturation soil concentration ("C<sub>sat</sub>") calculated through the equation:

$$C_{sat} = (S \times \theta_m / \rho_s) \times (K_{oc} \times \rho_s \times \theta_w + \theta_w + H' \times \theta_{air})$$

(Parameters and values used in the above equation are shown in Table A-7 and Table A-8.)

(c) Definition of terms (for an explanation of calculations, see section 2.4 of the text):

S = Solubility

C<sub>sat</sub> = Saturation concentration

C<sub>max</sub> = Maximum analysed concentration in soil samples

H' = Dimensionless Henry's Law constant

D<sub>air</sub> = Diffusivity in air

D<sub>water</sub> = Diffusivity in water

K<sub>oc</sub> = Organic carbon partition coefficient

VFW<sub>esp</sub> = Volatilization factor for the groundwater to enclosed space air pathway

VFS<sub>esp</sub> = Volatilization factor for the soil to enclosed space air pathway

VFW<sub>amb</sub> = Volatilization factor for the groundwater to ambient air pathway

VFS<sub>amb</sub> = Volatilization factor for the soil to ambient air pathway

Table A-9

Characterization of Human Health Risks due to Inhalation of COCs Volatilized from Subsurface Soil  
for Future Indoor Workers  
3695-3723 Haven Avenue Property, Menlo Park, California

Compound	Representative Concentration (RC) of Compound in Soil (a) (mg/kg)	Vf <sub>soil</sub> <sup>(b)</sup> (kg soil/m <sup>3</sup> air)	Indoor Air Exposure Point Concentration (c) (mg/m <sup>3</sup> )	Non-Carcinogenic Chronic Daily Intake (c) (mg/kg-day)	Carcinogenic Chronic Daily Intake (c) (mg/kg-day)	Non-Carcinogenic Inhalation Reference Dose (d) (mg/kg-day)	Carcinogenic Inhalation Slope (e) (mg/kg-d) <sup>-1</sup>	Non-Carcinogenic Hazard Index (f)	Estimated Lifetime Incremental Cancer Risk (g)
Acetone	-	1.4E-05	-	-	-	0.1	-	-	-
Benzene	-	7.1E-05	-	-	-	0.0017	0.1	-	-
Carbon Tetrachloride	0.021	7.9E-05	1.7E-06	3.3E-07	1.2E-07	0.011	0.15	3.0E-05	1.7E-08
Chloroform	0.016	3.5E-05	5.7E-07	1.1E-07	4.0E-08	0.086	0.019	1.3E-06	7.5E-10
1,2-Dichlorobenzene	0.066	5.7E-06	3.8E-07	7.4E-08	-	0.057	-	1.3E-06	-
1,1-Dichloroethane	0.065	1.0E-04	6.5E-06	1.3E-06	4.5E-07	0.14	0.0057	9.1E-06	2.6E-09
1,2-Dichloroethane	-	3.7E-05	-	-	-	-	0.07	-	-
1,1-Dichloroethene	-	2.9E-04	-	-	-	0.0057	-	-	-
cis-1,2-Dichloroethene	3.950	5.0E-05	2.0E-04	3.9E-05	-	0.01	-	3.9E-03	-
trans-1,2-Dichloroethene	0.063	1.2E-04	7.4E-06	1.4E-06	-	0.02	-	7.2E-05	-
Methylene Chloride	-	7.5E-05	-	-	-	0.086	0.0035	-	-
Tetrachloroethene	0.063	5.2E-05	3.3E-06	6.4E-07	2.3E-07	0.011	0.021	5.8E-05	4.8E-09

**Table A-9**  
**Characterization of Human Health Risks due to Inhalation of COCs Volatilized from Subsurface Soil**  
**for Future Indoor Workers**  
**3695-3723 Haven Avenue Property, Menlo Park, California**

Compound	Representative Concentration (RC) of Compound in Soil (a) (mg/kg)	Vf <sub>soil</sub> <sup>(b)</sup> (kg soil/m <sup>3</sup> air)	Indoor Air Exposure Point Concentration <sup>(c)</sup> (mg/m <sup>3</sup> )	Non-Carcinogenic Chronic Daily Intake <sup>(c)</sup> (mg/kg-day)	Carcinogenic Chronic Daily Intake <sup>(c)</sup> (mg/kg-day)	Non-Carcinogenic Inhalation Reference Dose <sup>(d)</sup> (RfDI) (mg/kg-day)	Carcinogenic Inhalation Slope <sup>(e)</sup> (SFO) (mg/kg-d) <sup>(f)</sup>	Non-Carcinogenic Hazard Index <sup>(f)</sup>	Estimated Lifetime Incremental Cancer Risk <sup>(g)</sup>
Toluene	-	5.3E-05	-	-	-	0.11	-	-	-
1,1,1-Trichloroethane	-	1.1E-04	-	-	-	0.29	-	-	-
Trichloroethene	1.811	7.4E-05	1.3E-04	2.6E-05	9.4E-06	0.17	0.01	1.5E-04	9.4E-08
1,1,2-Trichloro-1,2,2-Trifluoroethane	0.575	6.2E-04	3.6E-04	6.9E-05	-	26	-	2.7E-06	-
Vinyl Chloride	0.137	8.6E-04	1.2E-04	2.3E-05	8.2E-06	0.0014	0.27	1.6E-02	2.2E-06
<b>Total Estimated Risk due to Inhalation of COCs Volatilized from Soil to Indoor Air:</b>									<b>2.35E-06</b>

**Notes:**

(a) Refer to Table A-3 for compilation of representative concentrations ("RCs").

(b) Volatilization factor from soil to enclosed-space air ("Vf<sub>soil</sub>") was calculated for each chemical using the Risk-Based Corrective Action model ("RBCA") (ASTM, 1995). Parameters used in the RBCA model are listed in Tables 7 and 8.

(c) Chronic daily intakes ("CDIs") were estimated using methods recommended by U.S. EPA or Cal-EPA. The following equation was used to calculate CDIs (Refer to Table A-6 for parameter values used in calculations):

$$CDI_{(inhalation)} = \frac{C_a \cdot IR \cdot EF \cdot ED}{BW \cdot AT}$$

Table A-9

Characterization of Human Health Risks due to Inhalation of COCs Volatilized from Subsurface Soil  
for Future Indoor Workers  
3695-3723 Haven Avenue Property, Menlo Park, California

where:

$CDI_{(inhalation)}$  = Chronic Daily Intake (mg/kg-day)

$Ca$  = Exposure Point Air Concentration ( $mg/m^3$ ) =  $VF_{resp} \cdot RC$

$IRa$  = Air Inhalation Rate ( $m^3/day$ )

$EF$  = Exposure Frequency (days/year)

$ED$  = Exposure Duration (years)

$BW$  = Body Weight (kg)

$AT$  = Averaging Time (days)

(d) See Table A-4 for an explanation of chronic noncancer reference doses (RfD) used here. A hyphen (-) indicates an RfD was not found for the compound.

(e) See Table A-5 for an explanation of carcinogenic slope factors (SFs) used here. A hyphen (-) indicates an SF was not found for the compound.

(f) Non-carcinogenic hazard index ("HI") for a compound "i" is defined as the  $CDI/RfD_i$ . The non-carcinogenic HI, summed for all compounds and exposure pathways, assumes that there is a level of exposure (i.e., RfD) below which it is unlikely even for sensitive populations to experience adverse health effects (U.S. EPA, 1989). If the chronic daily intake (i.e., CDI) exceeds this RfD threshold (i.e., HI greater than 1), there may be concern for potential adverse non-carcinogenic health effects.

(g) Estimated lifetime incremental cancer risk for compound "i" is defined as  $CDI_i \times SF_i$ . The estimated incremental lifetime cancer risk to an individual of developing cancer due to COCs is given by the sum of incremental cancer risks for all chemicals and exposure pathways.

Table A-10

Characterization of Baseline Human Health Risks due to Inhalation of COCs Volatilized from Groundwater  
for Future Indoor Workers  
3695-3723 Haven Avenue Property, Menlo Park, California

Compound	Representative Concentration (RC) of Compound in Groundwater (g) (ug/L)	VP <sub>wsp</sub> (b) (L H <sub>2</sub> O / m <sup>3</sup> air)	Outdoor Air Exposure Point Concentration (c) (mg/m <sup>3</sup> )	Non-Carcinogenic Chronic Daily Intake (c) (mg/kg-day)	Carcinogenic Chronic Daily Intake (c) (mg/kg-day)	Non-Carcinogenic Inhalation Reference Dose (d) (mg/kg-day)	Carcinogenic Inhalation Slope (e) (SF1) (mg/kg-d) <sup>-1</sup>	Non-Carcinogenic Hazard Index (f)	Estimated Lifetime Incremental Cancer Risk (g)
Acetone	37	2.8E-06	1.0E-07	2.1E-08	-	0.1	-	2.1E-07	-
Benzene	23	4.8E-05	1.1E-06	2.2E-07	7.7E-08	0.0017	0.1	1.3E-04	7.7E-09
Carbon Tetrachloride	2000	1.7E-04	3.5E-04	6.8E-05	2.4E-05	0.011	0.15	6.2E-03	3.7E-06
Chloroform	1000	2.6E-05	2.6E-05	5.1E-06	1.8E-06	0.086	0.019	5.9E-05	3.4E-08
1,2-Dichlorobenzene	-	1.4E-05	-	-	-	0.057	-	-	-
1,1-Dichloroethane	140	3.9E-05	5.5E-06	1.1E-06	3.8E-07	0.14	0.0057	7.7E-06	2.2E-09
1,2-Dichloroethane	5.0	1.2E-05	5.8E-08	-	4.0E-09	-	0.07	-	2.8E-10
1,1-Dichloroethene	270	1.8E-04	4.8E-05	9.5E-06	-	0.0057	-	1.7E-03	-
cis-1,2-Dichloroethene	25000	2.8E-05	7.1E-04	1.4E-04	-	0.01	-	1.4E-02	-
trans-1,2-Dichloroethene	2.0	6.6E-05	1.3E-07	2.6E-08	-	0.02	-	1.3E-06	-
Methylene Chloride	32	2.0E-05	6.3E-07	1.2E-07	4.4E-08	0.086	0.0035	1.4E-06	1.5E-10
Tetrachloroethene	46	9.4E-05	4.3E-06	8.5E-07	3.0E-07	0.011	0.021	7.7E-05	6.4E-09

**Table A-10**  
**Characterization of Baseline Human Health Risks due to Inhalation of COCs Volatilized from Groundwater**  
**for Future Indoor Workers**  
**3695-3723 Haven Avenue Property, Menlo Park, California**

Compound	Representative Concentration (RC) of Compound in Groundwater (a) (ug/L)	V <sub>Fwesp</sub> (b) (L H <sub>2</sub> O / m <sup>3</sup> air)	Outdoor Air Exposure Point Concentration (c) (ng/m <sup>3</sup> )	Non-Carcinogenic Chronic Daily Intake (c) (mg/kg-day)	Carcinogenic Chronic Daily Intake (c) (mg/kg-day)	Non-Carcinogenic Inhalation Reference Dose (d) (RfDI) (mg/kg-day)	Carcinogenic Inhalation Slope (e) (SfO) (mg/kg-d) <sup>-1</sup>	Non-Carcinogenic Hazard Index (f)	Estimated Lifetime Incremental Cancer Risk (g)
Toluene	7.0	5.3E-05	3.7E-07	7.2E-08	-	0.11	-	6.6E-07	-
1,1,1-Trichloroethane	27	1.0E-04	2.8E-06	5.4E-07	-	0.29	-	1.9E-06	-
Trichloroethene	260000	5.8E-05	1.5E-02	2.9E-03	1.1E-03	0.17	0.01	1.7E-02	1.1E-05
1,1,2-Trichloro-1,2,2-Trifluoroethane	2200	1.7E-03	3.8E-03	7.4E-04	-	26	-	2.9E-05	-
Vinyl Chloride	650	2.2E-04	1.4E-04	2.8E-05	1.0E-05	0.0014	0.27	2.0E-02	2.7E-06
<b>Total Estimated Risk due to Inhalation of COCs Volatilized from Groundwater to Outdoor Air:</b>									
								<b>0.06</b>	<b>1.7E-05</b>

**Notes:**

- (a) Refer to Table A-3 for compilation of representative concentrations ("RCs").
- (b) Volatilization factor from groundwater to enclosed-space air ("V<sub>Fwesp</sub>") was calculated for each chemical using the Risk-Based Corrective Action model ("RBCA") [ASTM, 1995]. Parameters used in the RBCA model are listed in Tables 7 and 8.
- (c) Chronic daily intakes ("CDIs") were estimated using methods recommended by U.S. EPA or Cal-EPA. The following equation was used to calculate CDIs (Refer to Table A-6 for parameter values used in calculations):

$$CDI_{(inhalation)} = \frac{C_a \cdot IR_a \cdot EF \cdot ED}{BW \cdot AT}$$



Characterization of Baseline Human Health Risks due to Inhalation of COCs Volatilized from Groundwater  
for Future Indoor Workers  
3695-3723 Haven Avenue Property, Menlo Park, California

Table A-10

where:

$CDI_{(inhalation)}$  = Chronic Daily Intake (mg/kg-day)

$Ca$  = Exposure Point Air Concentration (mg/m<sup>3</sup>) \* VPwamb \* RC

$IRa$  = Air Inhalation Rate (m<sup>3</sup>/day)

$EF$  = Exposure Frequency (days/year)

$ED$  = Exposure Duration (years)

$BW$  = Body Weight (kg)

$AT$  = Averaging Time (days)

(d) See Table A-4 for an explanation of chronic noncancer reference doses (RfD) used here. A hyphen (-) indicates an RfD was not found for the compound.

(e) See Table A-5 for an explanation of carcinogenic slope factors (SFs) used here. A hyphen (-) indicates an SF was not found for the compound.

(f) Non-carcinogenic hazard index ("HI") for a compound "i" is defined as the  $CDI_i/RfD_i$ . The non-carcinogenic HI, summed for all compounds and exposure pathways, assumes that there is a level of exposure (i.e., RfD) below which it is unlikely even for sensitive populations to experience adverse health effects [U.S. EPA, 1989]. If the chronic daily intake (i.e., CDI) exceeds this RfD threshold (i.e., HI greater than 1), there may be concern for potential adverse non-carcinogenic health effects.

(g) Estimated lifetime incremental cancer risk for compound "i" is defined as  $CDI_i \times SF_i$ . The estimated incremental lifetime cancer risk to an individual of developing cancer due to COCs is given by the sum of incremental cancer risks for all chemicals and exposure pathways.

Table A-11  
Characterization of Baseline Human Health Risks due to Ingestion of COCs in Soil  
for Future Maintenance Workers  
3695-3723 Haven Avenue Property, Menlo Park, California

Compound	Representative Concentration (RC) of Compound in Soil <sup>(a)</sup> (mg/kg)	Non-Carcinogenic Chronic Daily Intake <sup>(b)</sup> (mg/kg-day)	Carcinogenic Chronic Daily Intake <sup>(b)</sup> (mg/kg-day)	Non-Carcinogenic Ingestion Reference Dose <sup>(c)</sup> (RfD <sub>o</sub> ) (mg/kg-day)	Carcinogenic Oral Slope Factor <sup>(d)</sup> (SFO) (mg/kg-d) <sup>-1</sup>	Non-Carcinogenic Hazard Index	Estimated Lifetime Incremental Cancer Risk <sup>(f)</sup>
Acetone	-	-	-	0.1	-	-	-
Benzene	-	-	-	0.003	0.1	-	-
Carbon Tetrachloride	0.021	1.2E-08	4.3E-09	0.0007	0.15	1.7E-05	6.5E-10
Chloroform	0.016	9.2E-09	3.3E-09	0.01	0.031	9.2E-07	1.0E-10
1,2-Dichlorobenzene	0.066	3.8E-08	-	0.09	-	4.2E-07	-
1,1-Dichloroethane	0.065	3.7E-08	1.3E-08	0.1	0.0057	3.7E-07	7.6E-11
1,2-Dichloroethane	-	-	-	-	0.07	-	-
1,1-Dichloroethene	-	-	-	0.009	-	-	-
cis-1,2-Dichloroethene	3.950	2.3E-06	-	0.01	-	2.3E-04	-
trans-1,2-Dichloroethene	0.063	3.6E-08	-	0.02	-	1.8E-06	-
Methylene Chloride	-	-	-	0.06	0.014	-	-
Tetrachloroethene	0.063	3.6E-08	1.3E-08	0.01	0.051	3.6E-06	6.5E-10

Table A-11

Characterization of Baseline Human Health Risks due to Ingestion of COCs in Soil  
for Future Maintenance Workers  
3695-3723 Haven Avenue Property, Menlo Park, California

Compound	Representative Concentration (RC) of Compound in Soil <sup>(a)</sup> (mg/kg)	Non-Carcinogenic Chronic Daily Intake <sup>(b)</sup> (mg/kg-day)	Carcinogenic Chronic Daily Intake <sup>(b)</sup> (mg/kg-day)	Non-Carcinogenic Ingestion Reference Dose <sup>(c)</sup> (RfDo) (mg/kg-day)	Carcinogenic Oral Slope Factor <sup>(d)</sup> (Sf <sub>o</sub> ) (mg/kg-d) <sup>-1</sup>	Non-Carcinogenic Hazard Index	Estimated Lifetime Incremental Cancer Risk <sup>(e)</sup>	
Toluene	-	-	-	0.2	-	-	-	
1,1,1-Trichloroethane	-	-	-	0.035	-	-	-	
Trichloroethene	1.811	1.0E-06	3.7E-07	0.17	0.015	6.1E-06	5.6E-09	
1,1,2-Trichloro-1,2,2-Trifluoroethane	0.575	3.3E-07	-	30	-	1.1E-08	-	
Vinyl Chloride	0.137	7.8E-08	2.8E-08	0.0014	0.27	5.6E-05	7.6E-09	
Total Estimated Risk due to Ingestion of Soil Containing COCs:							3.1E-04	1.5E-08

Notes:

(a) Refer to Table A-3 for compilation of representative concentrations.

(b) Chronic daily intakes (CDIs) were estimated using method's recommended by U.S. EPA or Cal-EPA, as follows:

(Note that different soil ingestion rates were assumed for excavation and non-excavation work. See Table A-6 for details.)

$$CDI_{(ingestion)} = \frac{C_s \cdot IR_s \cdot EF \cdot ED \cdot 10^{-6} \text{ kg/mg}}{BW \cdot AT}$$

where:

$CDI_{(ingestion)}$  = Chronic daily intake (mg/kg-day)

$C_s$  = Concentration in soil (mg/kg)

$IR_s$  = Ingestion Rate of soil (mg/day)

Table A-11

Characterization of Baseline Human Health Risks due to Ingestion of COCs in Soil  
for Future Maintenance Workers  
3695-3723 Haven Avenue Property, Menlo Park, California

EF = Exposure Frequency (days/year)  
ED = Exposure Duration (years)  
BW = Body Weight (kg)  
AT = Averaging Time (days)  
and assuming Cs = RCsoil

- (c) See Table A-4 for an explanation of chronic noncancer reference doses (RfD) used here. A hyphen (-) indicates an RfD was not found for the compound.
- (d) See Table A-5 for an explanation of carcinogenic slope factors (SFs) used here. A hyphen (-) indicates an SF was not found for the compound.
- (e) Non-carcinogenic hazard index (HI) for a compound "i" is defined as the CDI/RfD<sub>i</sub>. The non-carcinogenic HI, summed for all compounds and exposure pathways, assumes that there is a level of exposure (i.e., RfD) below which it is unlikely even for sensitive populations to experience adverse health effects (U.S. EPA, 1989). If the chronic daily intake (i.e., CDI) exceeds this RfD threshold (i.e., HI greater than 1), there may be concern for potential adverse non-carcinogenic health effects.
- (f) Estimated lifetime incremental cancer risk for compound "i" is defined as CDI<sub>i</sub> x SF<sub>i</sub>. The estimated incremental lifetime cancer risk to an individual of developing cancer due to COCs is given by the sum of incremental cancer risks for all chemicals and exposure pathways.



Table A-12

Characterization of Baseline Human Health Risks due to Dermal Contact with COCs in Soil  
 for Future Maintenance Workers  
 3695-3723 Haven Avenue Property, Menlo Park, California

Compound	Representative Concentration (RC) of Compound in Soil <sup>(a)</sup> (mg/kg)	Non-Carcinogenic Chronic Daily Intake <sup>(b)</sup> (mg/kg-day)	Carcinogenic Chronic Daily Intake <sup>(b)</sup> (mg/kg-day)	Non-Carcinogenic Ingestion Reference Dose <sup>(c)</sup> (RfDo) (mg/kg-day)	Carcinogenic Oral Slope Factor <sup>(d)</sup> (SFO) (mg/kg-d) <sup>-1</sup>	Non-Carcinogenic Hazard Index <sup>(e)</sup>	Estimated Lifetime Incremental Cancer Risk <sup>(f)</sup>
Acetone	-	-	-	0.1	-	-	-
Benzene	-	-	-	0.003	0.1	-	-
Carbon Tetrachloride	0.021	3.2E-08	1.2E-08	0.0007	0.15	4.6E-05	1.7E-09
Chloroform	0.016	2.5E-08	8.8E-09	0.01	0.031	2.5E-06	2.7E-10
1,2-Dichlorobenzene	0.066	1.0E-07	-	0.09	-	1.1E-06	-
1,1-Dichloroethane	0.065	1.0E-07	3.6E-08	0.1	0.0057	1.0E-06	2.0E-10
1,2-Dichloroethane	-	-	-	-	0.07	-	-
1,1-Dichloroethene	-	-	-	0.009	-	-	-
cis-1,2-Dichloroethene	3.950	6.1E-06	-	0.01	-	6.1E-04	-
trans-1,2-Dichloroethene	0.063	9.8E-08	-	0.02	-	4.9E-06	-
Methylene Chloride	-	-	-	0.06	0.014	-	-
Tetrachloroethene	0.063	9.7E-08	3.5E-08	0.01	0.051	9.7E-06	1.8E-09

Table A-12

Characterization of Baseline Human Health Risks due to Dermal Contact with COCs in Soil  
for Future Maintenance Workers  
3695-3723 Haven Avenue Property, Menlo Park, California

Compound	Representative Concentration (KC) of Compound in Soil <sup>(a)</sup> (mg/kg)	Non-Carcinogenic Chronic Daily Intake <sup>(b)</sup> (mg/kg-day)	Carcinogenic Chronic Daily Intake <sup>(b)</sup> (mg/kg-day)	Non-Carcinogenic Ingestion Reference Dose <sup>(c)</sup> (RfDo) (mg/kg-day)	Carcinogenic Oral Slope Factor <sup>(d)</sup> (SfO) (mg/kg-d) <sup>-1</sup>	Non-Carcinogenic Hazard Index <sup>(e)</sup>	Estimated Lifetime Incremental Cancer Risk <sup>(f)</sup>
Toluene	-	-	-	0.2	-	-	-
1,1,1-Trichloroethane	-	-	-	0.035	-	-	-
Trichloroethene	1.811	2.8E-06	1.0E-06	0.17	0.015	1.6E-05	1.5E-08
1,1,2-Trichloro-1,2,2-Trifluoroethane	0.575	8.9E-07	-	30	-	3.0E-08	-
Vinyl Chloride	0.137	2.1E-07	7.6E-08	0.0014	0.27	1.5E-04	2.0E-08
Total Estimated Risk due to Dermal Contact with Soil Containing COCs:							
						8.4E-04	3.9E-08

Notes:

(a) Refer to Table A-3 for compilation of representative concentrations.

(b) Chronic daily intakes (CDI) were estimated using methods recommended by U.S. EPA or Cal-EPA, as follows:

$$CDI_{(dermal\ contact)} = \frac{C_s \cdot SAs \cdot ABS \cdot AF \cdot EF \cdot ED \cdot 10^{-6}}{BW \cdot AT} \text{ kg/mg}$$

Table A-13  
Characterization of Baseline Human Health Risks due to Inhalation of COCs Volatilized from Subsurface Soil  
for Future Maintenance Workers  
3695-3723 Haven Avenue Property, Menlo Park, California

Compound	Representative Concentration (RC) of Compound in Soil (e) (mg/kg)	VFs <sub>amb</sub> (b) (kg soil / m <sup>3</sup> air)	Outdoor Air Exposure Point Concentration (c) (mg/m <sup>3</sup> )	Non-Carcinogenic Chronic Daily Intake (c) (mg/kg-day)	Carcinogenic Chronic Daily Intake (c) (mg/kg-day)	Non-Carcinogenic Inhalation Reference Dose (d) (RfDI) (mg/kg-day)	Carcinogenic Inhalation Slope (e) (SF1) (mg/kg-d) <sup>-1</sup>	Non-Carcinogenic Hazard Index (f)	Estimated Lifetime Incremental Cancer Risk (g)
Acetone	-	1.7E-05	-	-	-	0.1	-	-	-
Benzene	-	9.1E-05	-	-	-	0.0017	0.1	-	-
Carbon Tetrachloride	0.021	1.0E-04	2.1E-06	4.2E-07	1.5E-07	0.011	0.15	3.8E-05	2.2E-08
Chloroform	0.016	4.6E-05	7.3E-07	1.4E-07	5.1E-08	0.086	0.019	1.7E-06	9.7E-10
1,2-Dichlorobenzene	0.066	7.4E-06	4.9E-07	9.5E-08	-	0.057	-	1.7E-06	-
1,1-Dichloroethane	0.065	1.3E-04	8.3E-06	1.6E-06	5.8E-07	0.14	0.0057	1.2E-05	3.3E-09
1,2-Dichloroethane	-	4.8E-05	-	-	-	-	0.07	-	-
1,1-Dichloroethene	-	3.8E-04	-	-	-	0.0057	-	-	-
cis-1,2-Dichloroethene	3.950	6.5E-05	2.6E-04	5.0E-05	-	0.01	-	5.0E-03	-
trans-1,2-Dichloroethene	0.063	1.5E-04	9.4E-06	1.8E-06	-	0.02	-	9.2E-05	-
Methylene Chloride	-	9.6E-05	-	-	-	0.086	0.0035	-	-
Tetrachloroethene	0.063	6.7E-05	4.2E-06	8.2E-07	2.9E-07	0.011	0.021	7.5E-05	6.2E-09

Table A-13

Characterization of Baseline Human Health Risks due to Inhalation of COCs Volatilized from Subsurface Soil  
for Future Maintenance Workers  
3695-3723 Haven Avenue Property, Menlo Park, California

Compound	Representative Concentration (RC) of Compound in Soil <sup>(a)</sup> (mg/kg)	VFs <sub>amb</sub> <sup>(b)</sup> (kg soil / m <sup>3</sup> air)	Outdoor Air Exposure Point Concentration <sup>(c)</sup> (mg/m <sup>3</sup> )	Non-Carcinogenic Chronic Daily Intake <sup>(c)</sup> (mg/kg-day)	Carcinogenic Chronic Daily Intake <sup>(c)</sup> (mg/kg-day)	Non-Carcinogenic Inhalation Reference Dose <sup>(d)</sup> (RfD) (mg/kg-day)	Carcinogenic Inhalation Slope <sup>(e)</sup> (Sf0) (mg/kg-d) <sup>-1</sup>	Non-Carcinogenic Hazard Index <sup>(f)</sup>	Estimated Lifetime Incremental Cancer Risk <sup>(g)</sup>
Toluene		6.8E-05				0.11			
1,1,1-Trichloroethane		1.4E-04				0.29			
Trichloroethene	1.811	9.5E-05	1.7E-04	3.4E-05	1.2E-05	0.17	0.01	2.0E-04	1.2E-07
1,1,2-Trichloro-1,2,2-Trifluoroethane	0.575	7.9E-04	4.6E-04	8.9E-05		26		3.4E-06	
Vinyl Chloride	0.137	1.1E-03	1.5E-04	3.0E-05	1.1E-05	0.0014	0.27	2.1E-02	2.9E-06
Total Estimated Risk due to Inhalation of COCs Volatilized from Soil to Outdoor Air:									
								0.03	3.0E-06

Notes:

- (a) Refer to Table A-3 for compilation of representative concentrations ("RCs").
- (b) Volatilization factor from soil to ambient air ("VFsamb") was calculated for each chemical using the Risk-Based Corrective Action model ("RBCA") (ASTM, 1995). Parameters used in the RBCA model are listed in Tables 7 and 8.
- (c) Chronic daily intakes ("CDIs") were estimated using methods recommended by U.S. EPA or Cal-EPA. The following equation was used to calculate CDIs (Refer to Table A-6 for parameter values used in calculations):

$$CDI_{(inhalation)} = \frac{C_p \cdot IR_a \cdot EF \cdot ED}{BW \cdot AT}$$





Table A-13

Characterization of Baseline Human Health Risks due to Inhalation of COCs Volatilized from Subsurface Soil  
for Future Maintenance Workers  
3695-3723 Haven Avenue Property, Menlo Park, California

where:

- $CDI_{(inhalation)}$  = Chronic Daily Intake (mg/kg-day)
- $Ca$  = Exposure Point Air Concentration (mg/m<sup>3</sup>) =  $VF_{amb} \cdot RC$  for non-excavation work and  $Ca = VF_{pamb} \cdot RC \cdot AgF$  for excavation work, where  $AgF = Agitation Factor \times 18$ .
- $IRa$  = Air Inhalation Rate (m<sup>3</sup>/day)
- $EF$  = Exposure Frequency (days/year)
- $ED$  = Exposure Duration (years)
- $BW$  = Body Weight (kg)
- $AT$  = Averaging Time (days)

- (d) See Table A-4 for an explanation of chronic noncancer reference doses (RfD) used here. A hyphen (-) indicates an RfD was not found for the compound.
- (e) See Table A-5 for an explanation of carcinogenic slope factors (SFs) used here. A hyphen (-) indicates an SF was not found for the compound.
- (f) Non-carcinogenic hazard index ("HI") for a compound "i" is defined as the  $CDI_i/RfD_i$ . The non-carcinogenic HI, summed for all compounds and exposure pathways, assumes that there is a level of exposure (i.e., RfD) below which it is unlikely even for sensitive populations to experience adverse health effects (U.S. EPA, 1989). If the chronic daily intake (i.e., CDI) exceeds this RfD threshold (i.e., HI greater than 1), there may be concern for potential adverse non-carcinogenic health effects.
- (g) Estimated lifetime incremental cancer risk for compound "i" is defined as  $CDI_i \times SF_i$ . The estimated incremental lifetime cancer risk to an individual of developing cancer due to COCs is given by the sum of incremental cancer risks for all chemicals and exposure pathways.

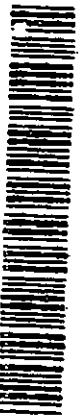


Table A-14  
Characterization of Baseline Human Health Risks due to Inhalation of COCs Volatilized from Groundwater  
for Future Maintenance Workers  
3695-3723 Haven Avenue Property, Menlo Park, California

Compound	Representative Concentration (RC) of Compound in Groundwater (a) (ug/l.)	V <sub>FW</sub> <sup>(b)</sup> (L H <sub>2</sub> O / m <sup>3</sup> air)	Outdoor Air Exposure Point Concentration <sup>(c)</sup> (mg/m <sup>3</sup> )	Non-Carcinogenic Chronic Daily Intake <sup>(c)</sup> (mg/kg-day)	Carcinogenic Chronic Daily Intake <sup>(e)</sup> (mg/kg-day)	Non-Carcinogenic Inhalation Reference Dose <sup>(d)</sup> (RfDI) (mg/kg-day)	Carcinogenic Inhalation Slope <sup>(e)</sup> (SFI) (mg/kg-d) <sup>-1</sup>	Non-Carcinogenic Hazard Index <sup>(f)</sup>	Estimated Lifetime Incremental Cancer Risk <sup>(g)</sup>
Acetone	37	6.0E-07	2.2E-08	4.3E-09	-	0.1	-	4.3E-08	-
Benzene	23	5.4E-06	1.2E-07	2.4E-08	8.7E-09	0.0017	0.1	1.4E-05	8.7E-10
Carbon Tetrachloride	2000	9.3E-06	1.9E-05	3.6E-06	1.3E-06	0.011	0.15	3.3E-04	1.9E-07
Chloroform	1000	3.8E-06	3.8E-06	7.4E-07	2.6E-07	0.086	0.019	8.6E-06	5.0E-09
1,2-Dichlorobenzene	-	2.3E-06	-	-	-	0.057	-	-	-
1,1-Dichloroethane	140	4.9E-06	6.8E-07	1.3E-07	4.8E-08	0.14	0.0057	9.5E-07	2.7E-10
1,2-Dichloroethane	5.0	2.1E-06	1.0E-08	-	7.2E-10	-	0.07	-	5.0E-11
1,1-Dichloroethene	270	1.0E-05	2.8E-06	5.4E-07	-	0.0057	-	9.5E-05	-
cis-1,2-Dichloroethene	25000	4.1E-06	1.0E-04	2.0E-05	-	0.01	-	2.0E-03	-
trans-1,2-Dichloroethene	2.0	6.6E-06	1.3E-08	2.6E-09	-	0.02	-	1.3E-07	-
Methylene Chloride	32	3.2E-06	1.0E-07	2.0E-08	7.2E-09	0.086	0.0035	2.3E-07	2.5E-11
Tetrachloroethene	46	6.8E-06	3.1E-07	6.1E-08	2.2E-08	0.011	0.021	5.6E-06	4.6E-10



**Characterization of Baseline Human Health Risks due to Inhalation of COCs Volatilized from Groundwater  
for Future Maintenance Workers  
3695-3723 Haven Avenue Property, Menlo Park, California**

Table A-14

Compound	Representative Concentration (RC) of Compound in Groundwater (a) (ug/L)	V <sub>Fw</sub> <sup>amb</sup> (L H <sub>2</sub> O / m <sup>3</sup> air)	Outdoor Air Exposure Point Concentration (b) (mg/m <sup>3</sup> )	Non-Carcinogenic Chronic Daily Intake (c) (mg/kg-day)	Carcinogenic Chronic Daily Intake (c) (mg/kg-day)	Non-Carcinogenic Inhalation Reference Dose (d) (RfDI) (mg/kg-day)	Carcinogenic Inhalation Slope (e) (SfQ) (mg/kg-d) <sup>-1</sup>	Non-Carcinogenic Hazard Index (f)	Estimated Lifetime Incremental Cancer Risk (g)
Toluene	7.0	5.3E-06	3.7E-08	7.3E-09	-	0.11	-	6.7E-08	-
1,1,1-Trichloroethane	27	7.3E-06	2.0E-07	3.9E-08	-	0.29	-	1.3E-07	-
Trichloroethene	26000	5.8E-06	1.5E-03	2.9E-04	1.0E-04	0.17	0.01	1.7E-03	1.0E-06
1,1,2-Trichloro-1,2,2-Trifluoroethane	2200	3.8E-05	8.4E-05	1.6E-05	-	26	-	6.3E-07	-
Vinyl Chloride	650	1.2E-05	8.0E-06	1.6E-06	5.6E-07	0.0014	0.27	1.1E-03	1.5E-07
<b>Total Estimated Risk due to Inhalation of COCs Volatilized from Groundwater to Outdoor Air:</b>									<b>1.4E-06</b>

**Notes:**

- (a) Refer to Table A-3 for compilation of representative concentrations ("RCs").
- (b) Volatilization factor from groundwater to ambient air ("V<sub>Fw</sub><sup>amb</sup>") was calculated for each chemical using the Risk-Based Corrective Action model ("RBCA") (ASTM, 1995). Parameters used in the RBCA model are listed in Tables 7 and 8.
- (c) Chronic daily intakes ("CDIs") were estimated using methods recommended by U.S. EPA or Cal-EPA. The following equation was used to calculate CDIs (Refer to Table A-6 for parameter values used in calculations):

$$CDI_{(inhalation)} = \frac{C_a \cdot IR \cdot EF \cdot ED}{BW \cdot AT}$$



# Characterization of Baseline Human Health Risks due to Inhalation of COCs Volatilized from Groundwater for Future Maintenance Workers

3695-3723 Haven Avenue Property, Menlo Park, California

Table A-14

where:

$CDI_{(inhalation)}$  = Chronic Daily Intake (mg/kg-day)

$Ca$  = Exposure Point Air Concentration ( $mg/m^3$ ) =  $VF \cdot w_{amb} \cdot RC$

$IRa$  = Air Inhalation Rate ( $m^3/day$ )

$EF$  = Exposure Frequency (days/year)

$ED$  = Exposure Duration (years)

$BW$  = Body Weight (kg)

$AT$  = Averaging Time (days)

(d) See Table A-4 for an explanation of chronic noncancer reference doses (RfD) used here. A hyphen (-) indicates an RfD was not found for the compound.

(e) See Table A-5 for an explanation of carcinogenic slope factors (SFs) used here. A hyphen (-) indicates an SF was not found for the compound.

(f) Non-carcinogenic hazard index ("HI") for a compound "i" is defined as the  $CDI_i/RfD_i$ . The non-carcinogenic HI, summed for all compounds and exposure pathways, assumes that there is a level of exposure (i.e., RfD) below which it is unlikely even for sensitive populations to experience adverse health effects [U.S. EPA, 1989]. If the chronic daily intake (i.e., CDI) exceeds this RfD threshold (i.e., HI greater than 1), there may be concern for potential adverse non-carcinogenic health effects.

(g) Estimated lifetime incremental cancer risk for compound "i" is defined as  $CDI_i \times SF_i$ . The estimated incremental lifetime cancer risk to an individual of developing cancer due to COCs is given by the sum of incremental cancer risks for all chemicals and exposure pathways.

Table A-15  
Characterization of Baseline Human Health Risks due to Ingestion of COCs in Soil  
for Construction Workers  
3695-3723 Haven Avenue Property, Menlo Park, California

Compound	Representative Concentration (RC) of Compound in Soil <sup>(a)</sup> (mg/kg)	Non-Carcinogenic Chronic Daily Intake <sup>(b)</sup> (mg/kg-day)	Carcinogenic Chronic Daily Intake <sup>(b)</sup> (mg/kg-day)	Non-Carcinogenic Ingestion Reference Dose <sup>(c)</sup> (RfDo) (mg/kg-day)	Carcinogenic Oral Slope Factor <sup>(d)</sup> (SfO) (mg/kg-d) <sup>-1</sup>	Non-Carcinogenic Hazard Index	Estimated Lifetime Incremental Cancer Risk <sup>(f)</sup>
Acetone	-	-	-	0.1	-	-	-
Benzene	-	-	-	0.003	0.1	-	-
Carbon Tetrachloride	0.021	3.4E-08	4.9E-10	0.0007	0.15	4.9E-05	7.3E-11
Chloroform	0.016	2.6E-08	3.7E-10	0.01	0.031	2.6E-06	1.2E-11
1,2-Dichlorobenzene	0.066	1.1E-07	-	0.09	-	1.2E-06	-
1,1-Dichloroethane	0.065	1.1E-07	1.5E-09	0.1	0.0057	1.1E-06	8.6E-12
1,2-Dichloroethane	-	-	-	-	0.07	-	-
1,1-Dichloroethene	-	-	-	0.009	-	-	-
cis-1,2-Dichloroethene	3.950	6.4E-06	-	0.01	-	6.4E-04	-
trans-1,2-Dichloroethene	0.063	1.0E-07	-	0.02	-	5.2E-06	-
Methylene Chloride	-	-	-	0.06	0.014	-	-
Tetrachloroethene	0.063	1.0E-07	1.5E-09	0.01	0.051	1.0E-05	7.4E-11



Table A-15

Characterization of Baseline Human Health Risks due to Ingestion of COCs in Soil  
for Construction Workers

3695-3723 Haven Avenue Property, Menlo Park, California

Compound	Representative Concentration (RC) of Compound in Soil <sup>(a)</sup> (mg/kg)	Non-Carcinogenic Chronic Daily Intake <sup>(b)</sup> (mg/kg-day)	Carcinogenic Chronic Daily Intake <sup>(b)</sup> (mg/kg-day)	Non-Carcinogenic Ingestion Reference Dose <sup>(c)</sup> (RfDo) (mg/kg-day)	Carcinogenic Oral Slope Factor <sup>(d)</sup> (SFO) (mg/kg-d) <sup>-1</sup>	Non-Carcinogenic Hazard Index	Estimated Lifetime Incremental Cancer Risk <sup>(e)</sup>
Toluene	-	-	-	0.2	-	-	-
1,1,1-Trichloroethane	-	-	-	0.035	-	-	-
Trichloroethene	1.811	2.9E-06	4.2E-08	0.17	0.015	1.7E-05	6.3E-10
1,1,2-Trichloro-1,2,2-Trifluoroethane	0.575	9.4E-07	-	30	-	3.1E-08	-
Vinyl Chloride	0.137	2.2E-07	3.2E-09	0.0014	0.27	1.6E-04	8.6E-10
Total Estimated Risk due to Ingestion of Soil Containing COCs:							
						0.0009	1.7E-09

Notes:

(a) Refer to Table A-3 for compilation of representative concentrations.

(b) Chronic daily intakes (CDIs) were estimated using methods recommended by U.S. EPA or Cal-EPA, as follows:

(Note that different soil ingestion rates were assumed for excavation and non-excavation work. See Table A-6 for details.)

$$CDI_{(ingestion)} = \frac{Cs \cdot IRs \cdot EF \cdot ED \cdot 10^{-6} \text{ kg/mg}}{BW \cdot AT}$$

where:

$CDI_{(ingestion)}$  = Chronic daily intake (mg/kg-day)

$Cs$  = Concentration in soil (mg/kg)

$IRs$  = Ingestion Rate of soil (mg/day)



Table A-15

**Characterization of Baseline Human Health Risks due to Ingestion of COCs in Soil  
for Construction Workers  
3695-3723 Haven Avenue Property, Menlo Park, California**

EF = Exposure Frequency (days/year)  
ED = Exposure Duration (years)  
BW = Body Weight (kg)  
AT = Averaging Time (days)  
and assuming Cs = RC<sub>soil</sub>

- (c) See Table A-4 for an explanation of chronic noncancer reference doses (RfD) used here. A hyphen (-) indicates an RfD was not found for the compound.
- (d) See Table A-5 for an explanation of carcinogenic slope factors (SFs) used here. A hyphen (-) indicates an SF was not found for the compound.
- (e) Non-carcinogenic hazard index (HI) for a compound "i" is defined as the CDI/RfD<sub>i</sub>. The non-carcinogenic HI, summed for all compounds and exposure pathways, assumes that there is a level of exposure (i.e., RfD) below which it is unlikely even for sensitive populations to experience adverse health effects (U.S. EPA, 1989). If the chronic daily intake (i.e., CDI) exceeds this RfD threshold (i.e., HI greater than 1), there may be concern for potential adverse non-carcinogenic health effects.
- (f) Estimated lifetime incremental cancer risk for compound "i" is defined as CDI<sub>i</sub> x SF<sub>i</sub>. The estimated incremental lifetime cancer risk to an individual of developing cancer due to COCs is given by the sum of incremental cancer risks for all chemicals and exposure pathways.



**Table A-16**  
**Characterization of Baseline Human Health Risks due to Dermal Contact with COCs in Soil**  
**for Construction Workers**  
**3695-3723 Haven Avenue Property, Menlo Park, California**

Compound	Representative Concentration (RC) of Compound in Soil <sup>(a)</sup> (mg/kg)	Non-Carcinogenic Chronic Daily Intake <sup>(h)</sup> (mg/kg-day)	Carcinogenic Chronic Daily Intake <sup>(b)</sup> (mg/kg-day)	Non-Carcinogenic Ingestion Reference Dose <sup>(c)</sup> (RfD <sub>o</sub> ) (mg/kg-day)	Carcinogenic Oral Slope Factor <sup>(d)</sup> (SF <sub>o</sub> ) (mg/kg-d) <sup>-1</sup>	Non-Carcinogenic Hazard Index <sup>(e)</sup>	Estimated Lifetime Incremental Cancer Risk <sup>(f)</sup>
Acetone	-	-	-	0.1	-	-	-
Benzene	-	-	-	0.003	0.1	-	-
Carbon Tetrachloride	0.021	3.2E-08	1.2E-08	0.0007	0.15	4.6E-05	1.7E-09
Chloroform	0.016	2.5E-08	8.8E-09	0.01	0.031	2.5E-06	2.7E-10
1,2-Dichlorobenzene	0.066	1.0E-07	-	0.09	-	1.1E-06	-
1,1-Dichloroethane	0.065	1.0E-07	3.6E-08	0.1	0.0057	1.0E-06	2.0E-10
1,2-Dichloroethane	-	-	-	-	0.07	-	-
1,1,1-Dichloroethene	-	-	-	0.009	-	-	-
cis-1,2-Dichloroethene	3.950	6.1E-06	-	0.01	-	6.1E-04	-
trans-1,2-Dichloroethene	0.063	9.8E-08	-	0.02	-	4.9E-06	-
Methylene Chloride	-	-	-	0.06	0.014	-	-
Tetrachloroethene	0.063	9.7E-08	3.5E-08	0.01	0.051	9.7E-06	1.8E-09



Table A-16  
Characterization of Baseline Human Health Risks due to Dermal Contact with COCs in Soil  
for Construction Workers  
3695-3723 Haven Avenue Property, Menlo Park, California

Compound	Representative Concentration (RC) of Compound in Soil <sup>(a)</sup> (mg/kg)	Non-Carcinogenic Chronic Daily Intake <sup>(b)</sup> (mg/kg-day)	Carcinogenic Chronic Daily Intake <sup>(b)</sup> (mg/kg-day)	Non-Carcinogenic Ingestion Reference Dose <sup>(c)</sup> (RfDo) (mg/kg-day)	Carcinogenic Oral Slope Factor <sup>(d)</sup> (SFO) (mg/kg-d) <sup>-1</sup>	Non-Carcinogenic Hazard Index <sup>(e)</sup>	Estimated Lifetime Incremental Cancer Risk <sup>(f)</sup>
Toluene	-	-	-	0.2	-	-	-
1,1,1-Trichloroethane	-	-	-	0.035	-	-	-
Trichloroethene	1.811	2.8E-06	1.0E-06	0.17	0.015	1.6E-05	1.5E-08
1,1,2-Trichloro-1,2,2-Trifluoroethane	0.575	8.9E-07	-	30	-	3.0E-08	-
Vinyl Chloride	0.137	2.1E-07	7.6E-08	0.0014	0.27	1.5E-04	2.0E-08
Total Estimated Risk due to Dermal Contact with Soil Containing COCs:							
						8.4E-04	3.9E-08

Notes:

(a) Refer to Table A-3 for compilation of representative concentrations.

(b) Chronic daily intakes (CDI)s were estimated using methods recommended by U.S. EPA or Cal-EPA, as follows:

$$CDI_{(dermal contact)} = \frac{C_s \cdot SAs \cdot ABS \cdot A \cdot F \cdot ED \cdot 10^{-6}}{BW \cdot AT}$$



Table A-16

### Characterization of Baseline Human Health Risks due to Dermal Contact with COCs in Soil for Construction Workers

3695-3723 Haven Avenue Property, Menlo Park, California

where:

$CDI_{(dermal\ contact)}$  = Chronic daily intake (mg/kg-day)

$C_s$  = Concentration in soil (mg/kg)

$SAs$  = Surface Area of Skin exposed to soil contact ( $cm^2/event$ )

$AF$  = Soil Adherence Factor ( $mg/cm^2$ )

$ABS$  = Soil-Dermal Absorption Fraction (dimensionless)

$EF$  = Exposure Frequency (events/year)

$ED$  = Exposure Duration (years)

$BW$  = Body Weight (kg)

$AT$  = Averaging Time (days)

and assuming  $C_s = RC_{soil}$

- (c) See Table A-4 for an explanation of chronic noncancer reference doses (RfD) used here. A hyphen (-) indicates an RfD was not found for the compound.
- (d) See Table A-5 for an explanation of carcinogenic slope factors (SF<sub>0</sub>) used here. A hyphen (-) indicates an SF was not found for the compound.
- (e) Non-carcinogenic hazard index (HI) for a compound "i" is defined as the  $CDI_i/RfD_i$ . The non-carcinogenic HI, summed for all compounds and exposure pathways, assumes that there is a level of exposure (i.e., RfD) below which it is unlikely even for sensitive populations to experience adverse health effects [U.S. EPA, 1989]. If the chronic daily intake (i.e., CDI) exceeds this RfD threshold (i.e., HI greater than 1), there may be concern for potential adverse non-carcinogenic health effects.
- (f) Estimated lifetime incremental cancer risk for compound "i" is defined as  $CDI_i \times SF_i$ . The estimated incremental lifetime cancer risk to an individual of developing cancer due to COCs is given by the sum of incremental cancer risks for all chemicals and exposure pathways.



1998-135815  
06/09/1999 03:24P  
DR Page: 149 of 153

Table A-17

Characterization of Baseline Human Health Risks due to Inhalation of COCs Volatilized from Subsurface Soil  
for Construction Workers  
3695-3723 Haven Avenue Property, Menlo Park, California

Compound	Representative Concentration (RC) of Compound in Soil (a) (mg/kg)	VFs <sub>amb</sub> <sup>(b)</sup> (kg soil / m <sup>3</sup> air)	Outdoor Air Exposure Point Concentration (c) (mg/m <sup>3</sup> )	Non-Carcinogenic Chronic Daily Intake (c) (mg/kg-day)	Carcinogenic Chronic Daily Intake (c) (mg/kg-day)	Non-Carcinogenic Inhalation Reference Dose (d) (mg/kg-day)	Carcinogenic Inhalation Slope (e) (SFI) (mg/kg-d) <sup>-1</sup>	Non-Carcinogenic Hazard Index (f)	Estimated Lifetime Incremental Cancer Risk (g)
Acetone	-	1.7E-05	-	-	-	0.1	-	-	-
Benzene	-	9.1E-05	-	-	-	0.0017	0.1	-	-
Carbon Tetrachloride	0.021	1.0E-04	2.1E-06	1.4E-07	2.1E-09	0.011	0.15	1.3E-05	3.1E-10
Chloroform	0.016	4.6E-05	7.3E-07	4.9E-08	7.1E-10	0.086	0.019	5.7E-07	1.3E-11
1,2-Dichlorobenzene	0.066	7.4E-06	4.9E-07	3.3E-08	-	0.057	-	5.8E-07	-
1,1-Dichloroethane	0.065	1.3E-04	8.3E-06	5.7E-07	8.1E-09	0.14	0.0057	4.0E-06	4.6E-11
1,2-Dichloroethane	-	4.8E-05	-	-	-	-	0.07	-	-
1,1-Dichloroethene	-	3.8E-04	-	-	-	0.0057	-	-	-
cis-1,2-Dichloroethene	3.950	6.5E-05	2.6E-04	1.7E-05	-	0.01	-	1.7E-03	-
trans-1,2-Dichloroethene	0.063	1.5E-04	9.4E-06	6.4E-07	-	0.02	-	3.2E-05	-
Methylene Chloride	-	9.6E-05	-	-	-	0.086	0.0035	-	-
Tetrachloroethene	0.063	6.7E-05	4.2E-06	2.8E-07	4.1E-09	0.011	0.021	2.6E-05	8.5E-11

Table A-17  
Characterization of Baseline Human Health Risks due to Inhalation of COCs Volatilized from Subsurface Soil  
for Construction Workers  
3695-3723 Haven Avenue Property, Menlo Park, California

Compound	Representative Concentration (RC) of Compound in Soil (a) (mg/kg)	VF <sub>s,amb</sub> (b) (kg soil / m <sup>3</sup> air)	Outdoor Air Exposure Point Concentration (c) (mg/m <sup>3</sup> )	Non-Carcinogenic Chronic Daily Intake (c) (mg/kg-day)	Carcinogenic Chronic Daily Intake (c) (mg/kg-day)	Non-Carcinogenic Inhalation Reference Dose (d) (RfDI) (mg/kg-day)	Carcinogenic Inhalation Slope (e) (SFO) (mg/kg-d) <sup>-1</sup>	Non-Carcinogenic Hazard Index (f)	Estimated Lifetime Incremental Cancer Risk (g)	
Toluene	-	6.8E-05	-	-	-	0.11	-	-	-	
1,1,1-Trichloroethane	-	1.4E-04	-	-	-	0.29	-	-	-	
Trichloroethene	1.811	9.5E-05	1.7E-04	1.2E-05	1.7E-07	0.17	0.01	6.9E-05	1.7E-09	
1,1,2-Trichloro-1,2,2-Trifluoroethane	0.575	7.9E-04	4.6E-04	3.1E-05	-	26	-	1.2E-06	-	
Vinyl Chloride	0.137	1.1E-03	1.5E-04	1.0E-05	1.5E-07	0.0014	0.27	7.3E-03	4.0E-08	
Total Estimated Risk due to Inhalation of COCs Volatilized from Soil to Outdoor Air:										
									0.0	4.2E-08

Notes:

- (a) Refer to Table A-3 for compilation of representative concentrations ("RCs").
- (b) Volatilization factor from soil to ambient air ("VF<sub>s,amb</sub>") was calculated for each chemical using the Risk-Based Corrective Action model ("RBCA") [ASTM, 1995]. Parameters used in the RBCA model are listed in Tables 7 and 8.
- (c) Chronic daily intakes ("CDIs") were estimated using methods recommended by U.S. EPA or Cal-EPA. The following equation was used to calculate CDIs (Refer to Table A-6 for parameter values used in calculations):

$$CDI_{(inhalation)} = \frac{C_a \cdot IR_a \cdot EF \cdot ED}{BW \cdot AT}$$



Characterization of Baseline Human Health Risks due to Inhalation of COCs Volatilized from Subsurface Soil  
for Construction Workers  
3695-3723 Haven Avenue Property, Menlo Park, California

Table A-17

where:

$CDI_{(inhalation)}$  = Chronic Daily Intake (mg/kg-day)

$Ca$  = Exposure Point Air Concentration ( $mg/m^3$ ) =  $Vf_{samb} * RC$  for non-excavation work and  $Ca = Vf_{samb} * RC * AgF$  for excavation work, where  $AgF$  = Agitation Factor = 1.

$IRa$  = Air Inhalation Rate ( $m^3/day$ )

$EF$  = Exposure Frequency (days/year)

$ED$  = Exposure Duration (years)

$BW$  = Body Weight (kg)

$AT$  = Averaging Time (days)

- (d) See Table A-4 for an explanation of chronic noncancer reference doses (RfD) used here. A hyphen (-) indicates an RfD was not found for the compound.
- (e) See Table A-5 for an explanation of carcinogenic slope factors (SFs) used here. A hyphen (-) indicates an SF was not found for the compound.
- (f) Non-carcinogenic hazard index ("HI") for a compound "i" is defined as the  $CDI/RfD_i$ . The non-carcinogenic HI, summed for all compounds and exposure pathways, assumes that there is a level of exposure (i.e., RfD) below which it is unlikely even for sensitive populations to experience adverse health effects [U.S. EPA, 1989]. If the chronic daily intake (i.e., CDI) exceeds this RfD threshold (i.e., HI greater than 1), there may be concern for potential adverse non-carcinogenic health effects.
- (g) Estimated lifetime incremental cancer risk for compound "i" is defined as  $CDI_i * SF_i$ . The estimated incremental lifetime cancer risk to an individual of developing cancer due to COCs is given by the sum of incremental cancer risks for all chemicals and exposure pathways.



1999-135816  
08/09/1999 03:24P  
DR Page 144 of 163

Table A-18  
Characterization of Baseline Human Health Risks due to Inhalation of COCs Volatilized from Groundwater  
for Construction Workers  
3695-3723 Haven Avenue Property, Menlo Park, California

Compound	Representative Concentration (RC) of Compound in Groundwater (a) (ug/L)	VFW <sub>amb</sub> (b) (L H <sub>2</sub> O / m <sup>3</sup> air)	Outdoor Air Exposure Point Concentration (c) (mg/m <sup>3</sup> )	Non-Carcinogenic Chronic Daily Intake (c) (mg/kg-day)	Carcinogenic Chronic Daily Intake (c) (mg/kg-day)	Non-Carcinogenic Inhalation Reference Dose (d) (RfDI) (mg/kg-day)	Carcinogenic Inhalation Slope (e) (SFO) (mg/kg-d) <sup>-1</sup>	Non-Carcinogenic Hazard Index (f)	Estimated Lifetime Incremental Cancer Risk (g)
Toluene	7.0	5.3E-06	3.7E-08	2.5E-09	-	0.11	-	2.3E-08	-
1,1,1-Trichloroethane	27	7.3E-06	2.0E-07	1.3E-08	-	0.29	-	4.6E-08	-
Trichloroethene	26000	5.8E-06	1.5E-03	1.0E-04	1.5E-06	0.17	0.01	6.0E-04	1.5E-08
1,1,2-Trichloro-1,2,2-Trifluoroethane	2200	3.8E-05	8.4E-05	5.7E-06	-	26	-	2.2E-07	-
Vinyl Chloride	650	1.2E-05	8.0E-06	5.5E-07	7.8E-09	0.0014	0.27	3.9E-04	2.1E-09
Total Estimated Risk due to Inhalation of COCs Volatilized from Groundwater to Outdoor Air:									
								0.00	1.9E-08

Notes:

- (a) Refer to Table A-3 for compilation of representative concentrations ("RCs").
- (b) Volatilization factor from groundwater to ambient air ("VFW<sub>amb</sub>") was calculated for each chemical using the Risk-Based Corrective Action model ("RBCA") [ASTM, 1995]. Parameters used in the RBCA model are listed in Tables 7 and 8.
- (c) Chronic daily intakes ("CDIs") were estimated using methods recommended by U.S. EPA or Cal-EPA. The following equation was used to calculate CDIs (Refer to Table A-6 for parameter values used in calculations):

$$CDI_{(inhalation)} = \frac{C_g \cdot IR_g \cdot EF \cdot ED}{BW \cdot AT}$$



Table A-18

Characterization of Baseline Human Health Risks due to Inhalation of COCs Volatilized from Groundwater  
for Construction Workers  
3695-3723 Haven Avenue Property, Menlo Park, California

where:

$CDI_{(inhalation)}$  = Chronic Daily Intake (mg/kg-day)

$C_a$  = Exposure Point Air Concentration (mg/m<sup>3</sup>) \* VFWamb \* RC

$IR_a$  = Air Inhalation Rate (m<sup>3</sup>/day)

$EF$  = Exposure Frequency (days/year)

$ED$  = Exposure Duration (years)

$BW$  = Body Weight (kg)

$AT$  = Averaging Time (days)

(d) See Table A-4 for an explanation of chronic noncancer reference doses (RfD) used here. A hyphen (-) indicates an RfD was not found for the compound.

(c) See Table A-5 for an explanation of carcinogenic slope factors (SFs) used here. A hyphen (-) indicates an SF was not found for the compound.

(f) Non-carcinogenic hazard index ("HI") for a compound "i" is defined as the  $CDI_i/RfD_i$ . The non-carcinogenic HI, summed for all compounds and exposure pathways, assumes that there is a level of exposure (i.e., RfD) below which it is unlikely even for sensitive populations to experience adverse health effects [U.S. EPA, 1989]. If the chronic daily intake (i.e., CDI) exceeds this RfD threshold (i.e., HI greater than 1), there may be concern for potential adverse non-carcinogenic health effects.

(g) Estimated lifetime incremental cancer risk for compound "i" is defined as  $CDI_i \times SF_i$ . The estimated incremental lifetime cancer risk to an individual of developing cancer due to COCs is given by the sum of incremental cancer risks for all chemicals and exposure pathways.

**Table A-19**  
**Summary of Baseline Human Health Risks from All Exposure Pathways**  
**for Future Indoor Workers**  
**3695-3723 Haven Avenue Property, Menlo Park, California**

Compound	Non-Carcinogenic Hazard Index				Estimated Lifetime Cancer Risk			
	Inhalation of Volatiles From Soil	Inhalation of Volatiles From Groundwater	Per Chemical Subtotal	% of Total	Inhalation of Volatiles From Soil	Inhalation of Volatiles From Groundwater	Per Chemical Subtotal	% of Total
Acetone	-	2.1E-07	2.1E-07	0%	-	-	-	-
Benzene	-	1.3E-04	1.3E-04	0%	-	7.7E-09	7.7E-09	0%
Carbon Tetrachloride	3.0E-05	6.2E-03	6.3E-03	8%	1.7E-08	3.7E-06	3.7E-06	19%
Chloroform	1.3E-06	5.9E-05	6.0E-05	0%	7.5E-10	3.4E-08	3.5E-08	0%
1,2-Dichlorobenzene	1.3E-06	-	1.3E-06	0%	-	-	-	-
1,1-Dichloroethane	9.1E-06	7.7E-06	1.7E-05	0%	2.6E-09	2.2E-09	4.8E-09	0%
1,2-Dichloroethane	-	-	-	-	-	2.8E-10	2.8E-10	0%
1,1-Dichloroethene	-	1.7E-03	1.7E-03	2%	-	-	-	-
cis-1,2-Dichloroethene	3.9E-03	1.4E-02	1.8E-02	22%	-	-	-	-
trans-1,2-Dichloroethene	7.2E-05	1.3E-06	7.3E-05	0%	-	-	-	-
Methylene Chloride	-	1.4E-06	1.4E-06	0%	-	-	-	-
Tetrachloroethene	5.8E-05	7.7E-05	1.4E-04	0%	4.8E-09	6.4E-09	1.1E-08	0%
Toluene	-	6.6E-07	6.6E-07	0%	-	-	-	-
1,1,1-Trichloroethane	-	1.9E-06	1.9E-06	0%	-	-	-	-
Trichloroethene	1.5E-04	1.7E-02	1.7E-02	22%	9.4E-08	1.1E-05	1.1E-05	55%
1,1,2-Trichloro-1,2,2-	2.7E-06	2.9E-05	3.1E-05	0%	-	-	-	-
Vinyl Chloride	1.6E-02	2.0E-02	3.7E-02	46%	2.2E-06	2.7E-06	4.9E-06	26%
Subtotal Hazard Index or Risk	0.02	0.06			2.3E-06	1.7E-05		
% of Total	26%	74%			12%	88%		
Totals:	Total Non-Carcinogenic Hazard Index for all COCs: (Future Indoor Workers) 0.08				Total Estimated Lifetime Cancer Risk for all COCs: (Future Indoor Workers) 1.9E-05			



Table A-20  
Summary of Baseline Human Health Risks from All Exposure Pathways  
for Future Maintenance Workers  
3695-3723 Haven Avenue Property, Menlo Park, California

Compound	Non-Carcinogenic Hazard Index							Estimated Lifetime Cancer Risk				
	Soil Ingestion	Dermal Contact	Inhalation of Volatiles From Soil	Inhalation of Volatiles From Groundwater	Per Chemical Subtotal	% of Total	Soil Ingestion	Dermal Contact	Inhalation of Volatiles From Soil	Inhalation of Volatiles From Groundwater	Per Chemical Subtotal	% of Total
Acetone	-	-	-	4.3E-08	4.3E-08	0%	-	-	-	-	-	-
Benzene	-	-	-	1.4E-05	1.4E-05	0%	-	-	-	8.7E-10	8.7E-10	0%
Carbon Tetrachloride	1.7E-05	4.6E-05	3.8E-05	3.3E-04	4.3E-04	1%	6.5E-10	1.7E-09	2.2E-08	1.9E-07	2.2E-07	5%
Chloroform	9.2E-07	2.5E-06	1.7E-06	8.6E-06	1.4E-05	0%	1.0E-10	2.7E-10	9.7E-10	5.0E-09	6.3E-09	0%
1,2-Dichlorobenzene	4.2E-07	1.1E-06	1.7E-06	-	3.2E-06	0%	-	-	-	-	-	-
1,1-Dichloroethane	3.7E-07	1.0E-06	1.2E-05	9.5E-07	1.4E-05	0%	7.6E-11	2.0E-10	3.3E-09	2.7E-10	3.9E-09	0%
1,2-Dichloroethane	-	-	-	-	-	-	-	-	-	5.0E-11	5.0E-11	0%
1,1,1-Trichloroethane	-	-	-	9.5E-05	9.5E-05	0%	-	-	-	-	-	-
cis-1,2-Dichloroethane	2.3E-04	6.1E-04	5.0E-03	2.0E-03	7.8E-03	24%	-	-	-	-	-	-
trans-1,2-Dichloroethane	1.8E-06	4.9E-06	9.2E-05	1.3E-07	9.9E-05	0%	-	-	-	-	-	-
Methylene Chloride	-	-	-	2.3E-07	2.3E-07	0%	-	-	-	2.5E-11	2.5E-11	0%
Tetrachloroethene	3.6E-06	9.7E-06	7.5E-05	5.6E-06	9.3E-05	0%	6.5E-10	1.8E-09	6.2E-09	4.6E-10	9.0E-09	0%
Toluene	-	-	-	6.7E-08	6.7E-08	0%	-	-	-	-	-	-
1,1,1-Trichloroethane	-	-	-	1.3E-07	1.3E-07	0%	-	-	-	-	-	-
Trichloroethene	6.1E-06	1.6E-05	2.0E-04	1.7E-03	1.9E-03	6%	5.6E-09	1.5E-08	1.2E-07	1.0E-06	1.2E-06	27%
1,1,2-Trichloro-1,2,2-Trifluoroethane	1.1E-08	3.0E-08	3.4E-06	6.3E-07	4.1E-06	0%	-	-	-	-	-	-
Vinyl Chloride	5.6E-05	1.5E-04	2.1E-02	1.1E-03	2.2E-02	68%	7.6E-09	2.0E-08	2.9E-06	1.5E-07	3.0E-06	68%
Subtotal Hazard Index or Risk	3.1E-04	8.4E-04	0.03	0.005			1.5E-08	3.9E-08	3.0E-06	1.4E-06		
% of Total	1%	3%	80%	16%			0%	1%	67%	31%		
Totals:	Total Estimated Non-Carcinogenic Hazard Index for All COC: 0.03 (Future Maintenance Workers)							Total Estimated Lifetime Cancer Risk for All COCs: (Future Maintenance Workers) 4.5E-06				



1999-13681B  
 08/09/1999 03:24P  
 DR Page: 148 of 193

**Table A-21**  
**Summary of Baseline Human Health Risks from All Exposure Pathways**  
**for Construction Workers**  
**3695-3723 Haven Avenue Property, Menlo Park, California**

Compound	Non-Carcinogenic Hazard Index						Estimated Lifetime Incremental Cancer Risk					
	Soil Ingestion	Dermal Contact	Inhalation of Volatiles From Soil	Inhalation of Volatiles From Groundwater	Per Chemical Subtotal	% of Total	Soil Ingestion	Dermal Contact	Inhalation of Volatiles From Soil	Inhalation of Volatiles From Groundwater	Per Chemical Subtotal	% of Total
Acetone	-	-	1.5E-08	1.5E-08	1.5E-08	0%	-	-	-	-	-	-
Benzene	-	-	5.0E-06	5.0E-06	5.0E-06	0%	-	-	-	1.2E-11	1.2E-11	0%
Carbon Tetrachloride	4.9E-05	4.6E-05	1.3E-05	1.1E-04	2.2E-04	2%	7.3E-11	1.7E-09	3.1E-10	2.7E-09	4.8E-09	5%
Chloroform	2.6E-06	2.5E-06	5.7E-07	3.0E-06	8.6E-06	0%	1.2E-11	2.7E-10	1.3E-11	6.9E-11	3.7E-10	0%
1,2-Dichlorobenzene	1.2E-06	1.1E-06	5.8E-07	-	2.9E-06	0%	-	-	-	-	-	-
1,1,1-Dichloroethane	1.1E-06	1.0E-06	4.0E-06	3.3E-07	6.4E-06	0%	8.6E-12	2.0E-10	4.6E-11	3.8E-12	2.6E-10	0%
1,2-Dichloroethane	-	-	-	-	-	-	-	-	-	7.0E-13	7.0E-13	0%
1,1,1-Trichloroethane	-	-	3.3E-05	3.3E-05	3.3E-05	0%	-	-	-	-	-	-
cis-1,2-Dichloroethene	6.4E-04	6.1E-04	1.7E-03	6.9E-04	3.7E-03	29%	-	-	-	-	-	-
trans-1,2-Dichloroethene	5.2E-06	4.9E-06	3.2E-05	4.4E-08	4.2E-05	0%	-	-	-	-	-	-
Methylene Chloride	-	-	8.1E-08	8.1E-08	8.1E-08	0%	-	-	-	3.5E-13	3.5E-13	0%
Tetrachloroethene	1.0E-05	9.7E-06	2.6E-05	1.9E-06	4.8E-05	0%	7.4E-11	1.8E-09	8.5E-11	6.4E-12	1.9E-09	2%
Toluene	-	-	2.3E-08	2.3E-08	2.3E-08	0%	-	-	-	-	-	-
1,1,1-Trichloroethane	-	-	4.6E-08	4.6E-08	4.6E-08	0%	-	-	-	-	-	-
Trichloroethene	1.7E-05	1.6E-05	6.9E-05	6.0E-04	7.0E-04	5%	6.3E-10	1.5E-08	1.7E-09	1.5E-08	3.2E-08	31%
1,1,2-Trichloro-1,2,2-Trifluoroethane	3.1E-08	3.0E-08	1.2E-06	2.2E-07	1.5E-06	0%	-	-	-	-	-	-
Vinyl Chloride	1.6E-04	1.5E-04	7.3E-03	3.9E-04	8.0E-03	63%	8.6E-10	2.0E-08	4.0E-08	2.1E-09	6.3E-08	62%
Subtotal Hazard Index or Risk	8.9E-04	8.4E-04	9.2E-03	1.8E-03	-	-	1.7E-09	3.9E-08	4.2E-08	1.9E-08	-	-
% of Total	7%	7%	72%	14%	-	-	2%	39%	41%	19%	-	-
<b>Totals:</b>	<b>Total Estimated Noncarcinogenic Hazard Index for All COCs: (Construction Workers)</b>						<b>Total Estimated Lifetime Cancer Risk for All COCs: (Construction Workers)</b>					
	<b>0.01</b>						<b>1.0E-07</b>					

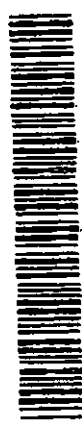
**Table A-22**  
**Risk-Based Action Levels for Soil**  
**3695-3723 Haven Avenue Property, Menlo Park, California**

Chemical	Risk-Based Action Level for Soil (mg/kg) <sup>(a)</sup>	Representative Site Soil Concentration (mg/kg)
Acetone	1000	-
Benzene	0.50	-
Carbon Tetrachloride	0.50	0.021
Chloroform	0.50	0.016
1,2-Dichlorobenzene	50	0.066
1,1-Dichloroethane	5.0	0.065
1,2-Dichloroethane	0.50	-
1,1-Dichloroethene	5.0	-
cis-1,2-Dichloroethene	500	4.0
trans-1,2-Dichloroethene	50	0.063
Methylene Chloride	0.50	-
Tetrachloroethene	0.50	0.063
Toluene	5.0	-
1,1,1-Trichloroethane	5.0	-
Trichloroethene	3.2 (b)	1.8
1,1,2-Trichloro-1,2,2-Trifluoroethane	1000	0.57
Vinyl Chloride	0.075 (b)	0.14

**Notes:**

- (a) Risk based action levels rounded to two significant figures
- (b) These volatile organic compounds have been detected in Site soil at concentrations greater than the risk-based action level.

1999-135815  
08/08/1999 03:24P  
OR Page: 149 of 153



**Table A-23**  
**Risk-Based Action Levels for Groundwater**  
**3695-3723 Haven Avenue Property, Menlo Park, California**

Chemical	Risk-Based Action Level for Groundwater (ug/L) <sup>(a)</sup>	Representative Groundwater Concentration (ug/L)
Acetone	500	37
Benzene	1,000	23
Carbon Tetrachloride	2,600	2,000
Chloroform	2,000	1,000
1,2-Dichlorobenzene	500	-
1,1-Dichloroethane	510	140
1,2-Dichloroethane	500	5.0
1,1-Dichloroethene	520	270
cis-1,2-Dichloroethene	50,000	25,000
trans-1,2-Dichloroethene	510	2.0
Methylene Chloride	500	32
Tetrachloroethene	510	46
Toluene	510	7.0
1,1,1-Trichloroethane	510	27
Trichloroethene	8,000 (b)	260,000
1,1,2-Trichloro-1,2,2-Trifluoroethane	29,000	2,200
Vinyl Chloride	500 (b)	650

**Note:**

- (a) Risk based action levels rounded to two significant figures
- (b) These volatile organic compounds have been detected in Site groundwater at concentrations greater than the risk-based action level

1999-135510  
 08/08/1999 03:24P  
 DR Page: 150 of 153



**Table A-24**  
**Summary of Estimated Human Health Risks from All Exposure Pathways**  
**at ACTION LEVELS**  
**for FUTURE INDOOR WORKERS**  
**3695-3723 Haven Avenue Property, Menlo Park, California**

Compound	Non-Carcinogenic Hazard Index				Estimated Lifetime Cancer Risk			
	Inhalation of Volatiles From Soil	Inhalation of Volatiles From Groundwater	Per Chemical Subtotal	% of Total	Inhalation of Volatiles From Soil	Inhalation of Volatiles From Groundwater	Per Chemical Subtotal	% of Total
Acetone	0.0264	2.8E-06	0.0264	4%	2.5E-07	3.4E-07	5.9E-07	6%
Benzene	0.0040	0.0056	0.0096	1%	4.2E-07	4.7E-06	5.1E-06	51%
Carbon Tetrachloride	7.0E-04	8.0E-03	8.7E-03	1%	2.4E-08	6.9E-08	9.3E-08	1%
Chloroform	4.1E-05	1.2E-04	1.6E-04	0%	-	-	-	-
1,2-Dichlorobenzene	0.0010	2.5E-05	0.0010	0%	2.0E-07	8.0E-09	2.1E-07	2%
1,1-Dichloroethane	6.9E-04	2.8E-05	0.0007	0%	9.2E-08	2.8E-08	1.2E-07	1%
1,1-Dichloroethene	0.05	0.003	0.05	7%	-	-	-	-
cis-1,2-Dichloroethene	0.49	0.03	0.52	73%	-	-	-	-
trans-1,2-Dichloroethene	0.06	0.0003	0.06	8%	-	-	-	-
Methylene Chloride	8.5E-05	2.2E-05	0.0001	0%	9.1E-09	2.4E-09	1.2E-08	0%
Tetrachloroethene	0.0005	0.0009	0.0013	0%	3.8E-08	7.1E-08	1.1E-07	1%
Toluene	0.000	4.8E-05	0.001	0%	-	-	-	-
1,1,1-Trichloroethane	0.000	3.5E-05	0.000	0%	-	-	-	-
Trichloroethene	0.0003	0.0005	0.0008	0%	1.7E-07	3.2E-07	4.9E-07	5%
1,1,2-Trichloro-1,2,2-Trifluoroethane	0.0047	0.0004	0.0050	1%	-	-	-	-
Vinyl Chloride	0.009	0.0156	0.025	3%	1.2E-06	2.1E-06	3.3E-06	33%
Subtotal Hazard Index of Risk	0.65	0.06			2.4E-06	7.6E-06		
% of Total	91%	9%			24%	76%		
Totals:	Estimated Non-Carcinogenic Total Hazard Index: (Future Indoor Workers) 0.71				Estimated Lifetime Total Cancer Risk: (Future Indoor Workers) 1.0E-05			

**Table A-25**  
**Summary of Estimated Human Health Risks from All Exposure Pathways**  
**at ACTION LEVELS**  
**for FUTURE MAINTENANCE WORKERS**  
**3695-3723 Haven Avenue Property, Menlo Park, California**

Compound	Non-Carcinogenic Hazard Index						Estimated Lifetime Cancer Risk					
	Soil Ingestion	Dermal Contact	Inhalation From Soil	Inhalation From Groundwater	Per Chemical Subtotal	% of Total	Soil Ingestion	Dermal Contact	Inhalation From Soil	Inhalation From Groundwater	Per Chemical Subtotal	% of Total
Acetone	5.7E-03	1.5E-02	0.0339	5.9E-07	0.0551	6%	1.0E-08	2.7E-08	3.2E-07	3.8E-08	3.9E-07	10%
Benzene	9.5E-05	2.6E-04	0.0052	6.3E-04	0.0062	1%	1.5E-08	4.1E-08	5.3E-07	2.5E-07	8.4E-07	22%
Carbon Tetrachloride	4.1E-04	1.1E-03	9.0E-04	4.2E-04	2.8E-03	0%	3.2E-09	8.6E-09	3.0E-08	1.0E-08	5.2E-08	1%
Chloroform	2.9E-05	7.8E-05	5.2E-05	1.7E-05	1.8E-04	0%	-	-	-	-	-	-
1,2-Dichlorobenzene	3.2E-04	8.6E-04	0.0013	4.0E-06	0.0024	0%	5.8E-09	1.6E-08	2.5E-07	9.9E-10	2.8E-07	7%
1,1-Dichloroethane	2.8E-05	7.7E-05	8.9E-04	3.5E-06	1.0E-03	0%	7.2E-09	1.9E-08	1.2E-07	5.0E-09	1.5E-07	4%
1,2-Dichloroethane	3.2E-04	8.5E-04	0.06	0.0002	0.07	7%	-	-	-	-	-	-
cis-1,2-Dichloroethene	0.0287	0.0773	0.63	0.0040	0.74	76%	-	-	-	-	-	-
trans-1,2-Dichloroethene	0.0014	0.0039	0.07	3.2E-05	0.08	8%	-	-	-	-	-	-
Methylene Chloride	4.8E-06	1.3E-05	0.0001	3.7E-06	0.0001	0%	1.4E-09	3.9E-09	1.2E-08	3.9E-10	1.7E-08	0%
Tetrachloroethene	2.9E-05	7.7E-05	0.0006	6.2E-05	0.0008	0%	5.2E-09	1.4E-08	4.9E-08	5.1E-09	7.4E-08	2%
Toluene	1.4E-05	3.9E-05	0.001	4.8E-06	0.001	0%	-	-	-	-	-	-
1,1,1-Trichloroethane	8.2E-05	0.0002	0.000	2.5E-06	0.001	0%	-	-	-	-	-	-
Trichloroethene	1.1E-05	2.9E-05	0.0004	5.3E-05	0.0004	0%	9.9E-09	2.7E-08	2.1E-07	3.2E-08	2.8E-07	7%
1,1,2-Trichloro-1,2,2-Trifluoroethane	1.9E-05	5.2E-05	0.0060	8.3E-06	0.0060	1%	-	-	-	-	-	-
Vinyl Chloride	3.1E-05	8.3E-05	0.012	8.7E-04	0.013	1%	4.1E-09	1.1E-08	1.6E-06	1.2E-07	1.7E-06	45%
<b>Subtotal Hazard Index or Risk</b>	<b>0.0372</b>	<b>0.100</b>	<b>0.83</b>	<b>0.006</b>	<b>0.98</b>		<b>6.2E-08</b>	<b>1.7E-07</b>	<b>3.1E-06</b>	<b>4.6E-07</b>		
% of Total	4%	10%	85%	1%			2%	4%	82%	12%		
<b>Totals:</b>	<b>Estimated Non-Carcinogenic Total Hazard Index: (Future Maintenance Workers)</b>						<b>Estimated Lifetime Total Cancer Risk: (Future Maintenance Workers)</b>					
	<b>0.98</b>						<b>3.8E-06</b>					

**Table A-26**  
**Summary of Estimated Human Health Risks From All Exposure Pathways**  
**at ACTION LEVELS,**  
**for FUTURE CONSTRUCTION WORKERS**  
**3695-3723 Haven Avenue Property, Menlo Park, California**

Compound	Non-Carcinogenic Hazard Index					Estimated Lifetime Cancer Risk						
	Soil Ingestion	Dermal Contact	Inhalation of Volatiles From Soil	Inhalation of Volatiles From Groundwater	Per Chemical Subtotal	% of Total	Soil Ingestion	Dermal Contact	Inhalation of Volatiles From Soil	Inhalation of Volatiles From Groundwater	Per Chemical Subtotal	% of Total
Acetone	1.6E-02	1.5E-02	1.2E-02	2.0E-07	0.0435	9%	1.2E-09	2.7E-08	4.4E-09	5.3E-10	3.4E-08	15%
Benzene	2.7E-04	2.6E-04	0.0018	2.2E-04	0.0025	1%	1.7E-09	4.1E-08	7.4E-09	3.5E-09	5.4E-08	24%
Carbon Tetrachloride	1.2E-03	1.1E-03	3.1E-04	1.5E-04	2.7E-03	1%	3.6E-10	8.6E-09	4.2E-10	1.4E-10	9.5E-09	4%
Chloroform	8.2E-05	7.8E-05	1.8E-05	6.0E-06	1.8E-04	0%	-	-	-	-	-	-
1,2-Dichlorobenzene	9.0E-04	8.6E-04	0.0004	1.4E-06	0.0022	0%	6.6E-10	1.6E-08	3.5E-09	1.4E-11	2.0E-08	9%
1,1-Dichloroethane	8.1E-05	7.7E-05	3.1E-04	1.2E-06	4.7E-04	0%	8.2E-10	1.9E-08	1.6E-09	7.0E-11	2.2E-08	10%
1,2-Dichloroethane	9.0E-04	8.5E-04	0.02	6.4E-05	0.02	5%	-	-	-	-	-	-
cis-1,2-Dichloroethene	0.0814	0.0773	0.220	0.0014	0.38	76%	-	-	-	-	-	-
trans-1,2-Dichloroethene	0.0041	0.0039	0.025	1.1E-05	0.0331	7%	-	-	-	-	-	-
Methylene Chloride	1.4E-05	1.3E-05	3.8E-05	1.3E-06	6.5E-05	0%	1.6E-10	3.9E-09	1.6E-10	5.5E-12	4.2E-09	2%
Tetrachloroethene	8.2E-05	7.7E-05	0.0002	2.2E-05	0.0004	0%	5.9E-10	1.4E-08	6.8E-10	7.1E-11	1.5E-08	7%
Toluene	4.1E-05	3.9E-05	-	1.7E-06	8.1E-05	0%	-	-	-	-	-	-
1,1,1-Trichloroethane	0.0002	0.0002	0.0002	8.8E-07	0.001	0%	-	-	-	-	-	-
Trichloroethene	3.1E-05	2.9E-05	1.2E-04	1.8E-05	2.0E-04	0%	1.1E-09	2.7E-08	3.0E-09	4.5E-10	3.1E-08	14%
1,1,2-Trichloro-1,2,2-Trifluoroethane	5.4E-05	5.2E-05	2.1E-03	2.9E-06	2.2E-03	0%	-	-	-	-	-	-
Trifluoroethane	8.7E-05	8.3E-05	0.004	3.0E-04	0.004	1%	4.7E-10	1.1E-08	2.2E-08	1.6E-09	3.5E-08	16%
Subtotal Hazard Index or Risk	0.1057	0.100	0.29	0.002			7.1E-09	1.7E-07	4.3E-08	6.4E-09		
% of Total	21%	20%	58%	0%			3%	75%	19%	3%		
<b>Totals:</b>	Total Estimated Non-Carcinogenic Hazard Index: (Future Maintenance Workers)					<b>0.50</b>	Total Estimated Lifetime Cancer Risk for All COCs: (Future Maintenance Workers)					<b>2.2E-07</b>



---

## San Francisco Bay Regional Water Quality Control Board

July 30, 2021  
Cost Recovery ID 2020805  
GeoTracker ID: [SL18322742](#)

Integris/Millennium Joint Venture, LLC  
Attn.: Gary D. Williams  
2401 Waterman Blvd., Suite 4A-PMB#172  
Fairfield, CA 94534  
[gilliams@havenoffices.com](mailto:gilliams@havenoffices.com)

**Subject: Variance from Covenant and Environmental Restriction on 3705 Haven Avenue, Menlo Park, San Mateo County**

Dear Mr. Williams:

This letter grants a variance (Variance) from certain use restrictions contained in the [Covenant and Environmental Restriction on Property \(Covenant\)](#) recorded against the subject property, 3705 Haven Avenue in Menlo Park, California, in response to the August 12, 2020 request from Integris/Millennium Joint Venture, LLC (Integris). It is our understanding that Integris is the current owner of the subject property. More specifically, this Variance suspends the Covenant's restriction on residential development.

As set forth in more detail below, granting a variance from certain restrictions in the Covenant is appropriate as to the 3705 Haven Avenue parcel. This Variance reflects the following findings:

- A. The Covenant was recorded on two adjacent parcels on Haven Avenue (Burdened Property) on August 9, 1999, in the Official Records of San Mateo County, California, as Document No. 1999-135815. The Covenant restricted development on the two parcels to commercial and industrial uses because groundwater concentrations of chlorinated volatile organic compounds exceeded residential screening levels. After recordation of the Covenant, the Burdened Property was reparcelized into the following 3 parcels: (1) 3705 Haven Avenue, which is the subject of this Variance (APN 055-170-240), and is more particularly described in [Exhibit A](#) attached hereto ("**3705 Haven Property**"); (2) 3715 Haven Avenue, in the City of Menlo Park, County of San Mateo, State of California, with Assessor's Parcel Number 055-170-340, which is more particularly described in [Exhibit B](#) attached hereto ("**3715 Haven Property**"); and (3) 3723 Haven Avenue, in the City of Menlo Park, County of San Mateo, State of California, with Assessor's Parcel Number 055-170-350, which is

---

JIM McGRATH, CHAIR | MICHAEL MONTGOMERY, EXECUTIVE OFFICER



more particularly described in Exhibit C attached hereto and (“**3723 Haven Property**”).

- B. Between January 31, 2020 and August 12, 2020, the Groundwater and Indoor Air Investigation Report and Soil Vapor Investigation Report were submitted demonstrating there is limited residual contamination on 3705 Haven Property compared to the rest of the site. The highest concentration of trichloroethene (TCE) in groundwater at the 3705 Haven Property is 23 micrograms per liter (µg/L). This is more than two orders of magnitude less than groundwater concentrations remaining on 3715 and 3723 Haven Ave. Soil vapor concentrations of TCE at the 3705 Haven Property are less than residential vapor intrusion-based screening levels.
- C. Integris submitted a request to the Water Board for a variance of the Covenant to allow residential land use on 3705 Haven Property. The Water Board concurs that residential land use is acceptable on 3705 Haven Property due to site conditions, including low soil and soil gas contaminant concentrations and risk management measures for groundwater contamination. Risk to residential receptors (including children and seniors) from residual groundwater contamination at 3705 Haven Property can be effectively managed with the Risk Management Plan (including any subsequent approved addenda) that is required by the Covenant. Specifically, the Risk Management Plan will be updated with an addendum to restrict the construction of subsurface structures that could create a vapor intrusion concern.

The Water Board grants to 3705 Haven Avenue a Variance from the following restrictions in Article III, Section 3.1 of the Covenant, provided that no subsurface structures are constructed on the property and the Risk Management Plan is updated as described in Finding C:

- a. Development of the Burdened Property shall be restricted to industrial commercial or office space;
- b. No residence for human habitation shall be permitted on the Burdened Property;
- e. No day care centers for children or day care centers for Senior Citizens shall be permitted on the Burdened Property.

Exhibit A of the Covenant is replaced with Exhibit A, Exhibit B, and Exhibit C attached to this Variance to distinguish the 3705 Haven Property parcel from the 3715 Haven Property and 3723 Haven Property parcels.

If you have any questions, please contact Nicole Fry of my staff at [Nicole.Fry@waterboards.ca.gov](mailto:Nicole.Fry@waterboards.ca.gov)

Sincerely,

Michael Montgomery

Executive Officer

Copy by email:

Richard A. Mielbye, FPG Development Group ([rmielbye@fpg-corp.com](mailto:rmielbye@fpg-corp.com))

Tyson Fulmer, AWR Corporation ([tfulmer@awrcorp.net](mailto:tfulmer@awrcorp.net))

Jacob Madden, San Mateo County, GPP ([JMadden@smcgov.org](mailto:JMadden@smcgov.org))

EXHIBIT A:

LEGAL DESCRIPTION OF 3705 Haven Property

APN: 055-170-240

THE LAND REFERRED TO HEREIN IS SITUATED IN THE CITY OF MENLO PARK, IN THE COUNTY OF SAN MATEO, STATE OF CALIFORNIA, AND IS DESCRIBED AS FOLLOWS:

PARCEL ONE:

Parcel 1, as shown on that certain map entitled "Parcel Map Being a Subdivision of Record of Survey Recorded in Volume 5, Page 89 of Licensed Land Surveyors Maps, Being a Portion of Lot 4 Sweeney Ranch, San Mateo County, California", filed in the Office of the Recorder of the County of San Mateo, State of California on December 15, 1972, in Book 18 of Parcel Maps, at Page 38.

JPN:055-017-170-24a

EXHIBIT B:  
LEGAL DESCRIPTION OF 3715 HAVEN PROPERTY.

APN: 055-170-340

THE LAND REFERRED TO HEREIN BELOW IS SITUATED IN THE CITY OF MENLO PARK, COUNTY OF SAN MATEO, STATE OF CALIFORNIA AND IS DESCRIBED AS FOLLOWS:

Parcel A, as shown on that certain Map entitled, "PARCEL MAP 3715-3723 HAVEN AVENUE BEING A RESUBDIVISION OF PARCEL 2 AS SHOWN ON THAT CERTAIN MAP ENTITLED "PARCEL MAP BEING A RESUBDIVISION OF RECORD OF SURVEY RECORDED IN VOLUME 5, PAGE 89 OF LICENSED LAND SURVEYORS MAPS, BEING A PORTION OF LOT 4 SWEENEY RANCH" WHICH MAP WAS RECORDED DECEMBER 15, 1972 IN BOOK 18 OF PARCEL MAPS AT PAGE 38, SAN MATEO COUNTY RECORDS, CITY OF MENLO PARK, SAN MATEO COUNTY, CALIFORNIA", filed in the office of the County Recorder of the County of San Mateo on February 17, 2000 in Book 72 of Parcel Maps at page 46.

JPN: 055-017-170-25.01a

EXHIBIT C:  
LEGAL DESCRIPTION OF 3723 HAVEN PROPERTY.

APN: 055-170-350

THE LAND REFERRED TO HEREIN IS SITUATED IN THE CITY OF MENLO PARK, IN THE COUNTY OF SAN MATEO, STATE OF CALIFORNIA, AND IS DESCRIBED AS FOLLOWS:

Parcel B, as shown on that certain map entitled "Parcel Map 3715-3723 Haven Avenue, Being a Resubdivision of Parcel 2 as Shown on that Certain Map Entitled "Parcel Map being a Resubdivision of Record of Survey Recorded in Volume 5, Page 89 of Licensed Land Surveyors Maps, Being a Portion of Lot 4 Sweeney Ranch", recorded December 15, 1972, in Book 18 of Parcel Maps, at Page 38, San Mateo County Records, City of Menlo Park, San Mateo County, California", filed in the Office of the Recorder of the County of San Mateo, State of California on February 17, 2000, in Book 72 of Parcel Maps, at Page 46.

JPN: 055-017-170-025A



**GROUNDWATER & INDOOR AIR INVESTIGATION REPORT (REVISION I)  
3705 HAVEN AVENUE  
MENLO PARK, CALIFORNIA 94025**

JANUARY 31, 2020

PREPARED ON BEHALF OF:

INTEGRIS MILLENIUM JOINT VENTURE, LLC  
3402 MILLBROOK COURT  
FAIRFIELD, CALIFORNIA 94534

PREPARED BY:

ACC ENVIRONMENTAL CONSULTANTS, INC



IAN SUTHERLAND, PG  
PROJECT MANAGER

ACC PROJECT NUMBER 1744-001.00

## TABLE OF CONTENTS

<b>1.0 INTRODUCTION</b>	<b>1</b>
<b>2.0 BACKGROUND</b>	<b>1</b>
<b>3.0 ENVIRONMENTAL BACKGROUND</b>	<b>1</b>
<b>4.0 SAMPLING METHODOLOGY</b>	<b>3</b>
4.1 Groundwater Sampling	
4.2 Indoor Air Sampling	
<b>5.0 GROUNDWATER ANALYTICAL RESULTS</b>	<b>4</b>
<b>6.0 INDOOR AIR ANALYTICAL RESULTS</b>	<b>4</b>
<b>7.0 QUALITY ASSURANCE/QUALITY CONTROL (QA/QC)</b>	<b>5</b>
<b>8.0 CONCLUSIONS</b>	<b>6</b>
8.1 Groundwater	
8.2 Indoor Air	
<b>9.0 RECOMMENDATIONS</b>	<b>7</b>
<b>10.0 LIMITATIONS</b>	<b>8</b>

## **ATTACHMENTS**

### **FIGURES**

Figure 1 – Site Location Map with Source Removal Area

Figure 2 – Site Map with Sampling Locations

Figure 3 – Site Map with Historical Sampling Locations

### **TABLES**

Table 1 – Groundwater Analytical Results Summary

Table 2 – Indoor Air Analytical Results Summary

### **APPENDICES**

Appendix A – Complete Laboratory Reports

## 1.0 INTRODUCTION

ACC Environmental Consultants, Inc. (ACC) has prepared this Groundwater and Indoor Air Investigation Report for the property identified as 3705 Haven Avenue in Menlo Park, California (Site) at the request of Integris Millenium Joint Venture, LLC (Client).

The purpose of the investigation was to assess current groundwater conditions at the Site with regard to chemicals-of-concern (COCs) historically detected in groundwater, primarily tetrachloroethene (TCE) and cis-1,2-dichloroethene (cis-1,2-DCE). Subsequent to groundwater sampling, ACC conducted an indoor air assessment based on TCE concentrations detected in groundwater.

## 2.0 BACKGROUND

The Site is located along the northwest side of Haven Avenue in the City of Menlo Park, California (Figure 1). The Site is comprised of an approximately 0.60 acre parcel of land developed with a one-story multi-tenant commercial building constructed circa 1969. The building was historically occupied by Siltec Corporation from 1970 to 1989. Siltec Corporation became Mitsubishi Silicon American (MSA) in July 1996, and in February 2002 Mitsubishi Materials including MSA merged with Sumitomo Metals to form Sumitomo Mitsubishi Silicon Corporation (SUMCO USA), which was renamed SUMCO Phoenix Corporation (SUMCO). The SUMCO property was used for various industrial activities including the manufacturing of polished silicon wafers. Chlorinated VOCs were reportedly used during that time.

The Site was purchased by Integris Millenium Joint Venture LLC during 1999 for use as office space. The Site is currently occupied by various professional offices.

The Site is located approximately 800 feet southwest of San Francisco Bay. The documented groundwater flow direction is approximately east to east/northeast.

Groundwater was observed by ACC to be confined at the Site to between approximately 8 and 19 ft bgs, and rose as shallow as approximately 3.6 ft bgs subsequent to advancing soil borings through the confining layer.

Soils encountered by ACC consisted of moist brown silt with gravel extending to approximately 4 ft bgs and underlain by dark brown clay extending to the total depth explored of approximately 15 ft bgs.

## 3.0 ENVIRONMENTAL BACKGROUND

ACC reviewed the following documents:



- *Feasibility Study and Remedial Action Plan, 3695-3723 Haven Avenue, Menlo Park, California*, Erler & Kalinowski, Inc. (EKI), March 12, 1999;
- *Risk Management Plan, 3695-3723 Haven Avenue, Menlo Park, California*, Erler & Kalinowski Inc. (EKI), March 12, 1999;
- *Summary of Environmental Conditions, and Request for Declaration of No Further Active Remediation Status, 3695-3723 Haven Avenue, Menlo Park, California*, Erler & Kalinowski, Inc. (EKI), December 31, 2013; and
- *RWQCB Correspondence: No Further Action Required at the former Siltic Site located at 3675-3723 Haven Avenue, Menlo Park, San Mateo County*, Regional Water Quality Control Board, June 16, 2014.

The Site is part of the former SUMCO property, which included the Site, the north-adjacent property (3715 Haven Avenue), and the property adjacent to the north of 3715 Avenue (3723 Haven Avenue). The SUMCO property was developed with three slab-on-grade commercial buildings, one of which was referred to as “Building 1” and is the structure that currently exists at the Site. Semiconductor manufacturing at the SUMCO property resulted in adverse impacts to soil and groundwater by volatile organic compounds (VOCs), primarily TCE and cis-1,2-DCE. Extensive investigations were conducted from 1994 to 2012 and a former sump at the north-adjacent down-gradient parcel (3715 Haven Avenue) was determined to be the source of documented subsurface VOC impacts associated with the SUMCO property.

1994: One monitoring well was installed at the Site as an up-gradient groundwater monitoring well (MW-1) and numerous groundwater monitoring wells were installed off-site and north (down-gradient) of the Site. MW-1 extended to approximately 15.5 ft bg, was screened between 5.5 and 15.5 ft bgs, and was monitored from 1994 to 1998. During the last documented monitoring event (April 1998), TCE and cis-1,2-DCE were detected up to respective concentrations of 98 and 130 µg/L in MW-1.

1995: Two grab groundwater samples were collected at the Site (soil borings GP-1 and GP-3) as part of a larger investigation at the former SUMCO property. TCE and cis-1,2-DCE were detected in first-encountered groundwater at respective concentrations of up to 1200 and 280 µg/L. The highest TCE concentration detected on-site (1200 µg/L) was detected at the northwest property boundary.

1996: Four grab groundwater samples were collected along the eastern portion of the Site (soil borings EC-1 through EC-4) as part of a larger investigation at the former SUMCO property. TCE and cis-1,2-DCE were detected in first-encountered groundwater in soil boring EC-4 at respective concentrations of 2100 and 3300 µg/L. Soil boring EC-4 was advanced at the northeast boundary of the Site. TCE and cis-1,2-DCE concentrations in first-encountered groundwater decreased moving away from the north boundary of the Site and were detected in first-encountered groundwater in soil boring EC-3 at respective concentrations of 39 and 33 µg/L (approximately 85 feet south of EC-4). TCE and cis-1,2-DCE were detected in first-encountered groundwater at the southeastern boundary of the Site at respective concentrations of 3 and 1 µg/L

(EC-1). TCE and cis-1,2-DCE were not detected in the deeper “B Zone” groundwater horizon investigated by EKI.

1999: Approximately 2860 cubic yards of VOC-impacted soils were excavated from the source identified at the north-adjacent, down-gradient parcel (3715 Haven Avenue) and the parcel adjacent to the west of 3715 Haven Avenue (3645-3665 Haven Avenue) (Figure 1). The former building at 3715 Haven Avenue (“Building 2”, identified as the source area) was demolished and a new two-story building was constructed south of the former Building 2 footprint, outside of the high groundwater risk area. A paved parking lot currently occupies the soil remediation area.

A Risk Management Plan (RMP) was prepared for the SUMCO property in 1999 and incorporated into the Deed Restriction for the Site. The RMP details (a) risk management protocols to be implemented during future construction on Site; and (b) post-construction risk management protocols. The deed restriction prohibits residential development at the Site and documents soil management procedures in the event that soil is disturbed.

2000 to present: The on-site monitoring well (MW-1) was removed and no additional sampling was conducted at the Site subsequent to that time. Additional groundwater monitoring was continued off-site at the down-gradient parcels for thirteen years subsequent to source excavation. EKI concluded that VOCs in groundwater have migrated to the east/northeast of the down-gradient off-site source area, and that the concentrations of COCs in groundwater have stabilized or declined over this time period through natural attenuation process.

A No Further Action letter was issued for the Property by the Regional Water Quality Control Board (RWQCB) on June 16, 2014. According to the Closure Report, “remedial actions implemented to date have effectively removed the source and resulted in stabilized and improving groundwater condition. Further remedial actions will have marginal effect and it is anticipated that groundwater quality will further improve over time due to natural attenuation processes.”

For historical sampling locations and analytical data see Figure 3.

## **4.0 SAMPLING METHODOLOGY**

### **4.1 Groundwater Sampling**

On July 25, 2019, ACC advanced seven exploratory soil borings for purposes of groundwater sampling. Borings were advanced using a hydraulic direct-push rig equipped with two-inch diameter hollow drill rods. The approximate soil boring locations are shown on the attached Figure 2.

Temporary one-inch slotted PVC piping was installed in the soil boring to facilitate groundwater sampling. Groundwater samples were collected into laboratory-supplied volatile organic analysis (VOA) containers using a peristaltic pump, labeled, logged on a chain-of-custody form and stored

immediately on ice in a cooler pending transport to the laboratory following standard chain-of-custody protocol.

Prior to drilling, ACC obtained a drilling permit from San Mateo County Environmental Health Services Groundwater Protection Program (SMCEHS-GPP). ACC marked the proposed soil boring locations and subsequently contacted Underground Services Alert (USA) to mark the locations of underground public utilities. Soil boring locations advanced by ACC were additionally cleared by a private utility locator prior to drilling.

## 4.2 Indoor Air Sampling

On September 10, 2019, ACC collected three indoor air samples and one outdoor ambient air sample. Samples were collected in laboratory-supplied evacuated SIM-certified 6-liter SUMMA canisters with dedicated regulators at each sample location. Intakes were situated between approximately 3 and 5 feet above the ground surface. Sample flow rates allowed for samples to be collected over an approximately 8-hour period. The approximate air sampling locations are shown on the attached Figure 2.

## 5.0 GROUNDWATER ANALYTICAL RESULTS

Groundwater samples were delivered to McCampbell Analytical, Inc. in Pittsburg, California following chain-of-custody protocol. The complete laboratory reports and chains-of-custody are attached as Appendix A. Groundwater samples were analyzed for volatile organic compounds (VOCs, full list) by analytical method 8260. Groundwater analytical results for this sampling event were compared to Human Health Risk Levels (HHRLs) published by the San Francisco Regional Water Quality Control Board (RWQCB) for vapor intrusion risk at residential and commercial properties. Groundwater analytical results and corresponding HHRLs are summarized in the attached Table 1.

TCE was detected in groundwater at concentrations of up to 23 micrograms per liter ( $\mu\text{g/L}$ ), which exceeds the corresponding RWQCB groundwater HHRLs for vapor intrusion at commercial and residential properties.

Cis-1,2- DCE was detected up to 15  $\mu\text{g/L}$ , which does not exceed the RWQCB HHRL for vapor intrusion risk at commercial or residential properties.

Freon 113 and MTBE were detected up to respective concentrations of 4.4 and 0.92  $\mu\text{g/L}$ , which do not exceed corresponding RWQCB HHRLs for vapor intrusion at commercial or residential properties. Additional VOCs, including tetrachloroethene (PCE), were not detected.

## 6.0 INDOOR AIR ANALYTICAL RESULTS

Indoor air samples were delivered to Eurofins Air Toxics, Inc. in Folsom, California following

chain-of-custody protocol. The complete laboratory reports and chain-of-custody are attached as Appendix A. Indoor air samples were analyzed for the chlorinated solvents PCE, TCE, cis-1,2-DC), trans-1,2-dichloroethene (trans-1,2-DCE), and vinyl chloride by analytical method TO-15 SIM. Analytical results for this sampling event were compared to RWQCB HHRLs for direct exposure to indoor air at residential and commercial properties (ESL Table IA-1). Indoor Air analytical results and corresponding HHRLs are summarized in the attached Table 2.

PCE was detected in indoor air up to concentrations of 0.96 micrograms per cubic meter ( $\mu\text{g}/\text{m}^3$ ) and at a concentration of 0.046  $\mu\text{g}/\text{m}^3$  in outdoor ambient air. Detected PCE concentrations exceed the RWQCB HHRL for direct exposure to indoor air at residential properties, but do not exceed the RWQCB HHRL for direct exposure to indoor air at commercial properties.

TCE was detected in indoor air up to a concentration of 0.079  $\mu\text{g}/\text{m}^3$ . Concentrations of TCE do not exceed corresponding RWQCB HHRLs for direct exposure to indoor air at commercial or residential properties.

Trans-1,2- DCE was detected in indoor air up to a concentration 0.096  $\mu\text{g}/\text{m}^3$ , which does not exceed the corresponding RWQCB HHRLs for direct exposure to indoor air at commercial or residential properties.

Cis-1,2-DCE and vinyl chloride were not detected in indoor air during this sampling event. Reporting limits for vinyl chloride exceed the RWQCB HHRLs for direct exposure to indoor air at residential properties, however the method detection limits (MDLs) for vinyl chloride are approximately equal to the HHRL. ACC regularly corresponded with the laboratory prior and during indoor air sampling in order to collect indoor air samples in a manner that would minimize sample dilution in order to minimize the potential for elevated laboratory reporting limits (RLs) and elevated method detection levels (MDLs).

## 7.0 QUALITY ASSURANCE/QUALITY CONTROL (QA/QC)

QA/QC procedures followed in the field were as follows:

- Air space was not present in the VOAs;
- ACC regularly corresponded with the laboratory prior and during indoor air sampling in order to collect indoor air samples in a manner that would minimize sample dilution in order to minimize the potential for elevated laboratory reporting limits (RLs) and elevated method detection levels (MDLs);
- Low flow groundwater sampling was conducted via a peristaltic pump in order to minimize sediment content in groundwater samples;
- Sampling equipment was decontaminated prior to advancement at each soil boring location using an Alconox solution and double rinsed with potable water;

- Nitrile gloves were worn and changed frequently (at a minimum of once between each sampling location) when handling samples in order to prevent cross-contamination of samples; and
- Samples were labeled in the field and chain-of-custody procedures were followed during the sample collection and analysis.

Laboratory QA/QC data area included in the attached Appendix A.

## 8.0 CONCLUSIONS

### 8.1 Groundwater

The primary chemicals-of-concern (COCs) in groundwater at the Site are TCE and cis-1,2-DCE. During this investigation TCE was detected in first-encountered groundwater at the Site at concentrations of up to 23 micrograms per liter ( $\mu\text{g/L}$ ), which exceeds the corresponding Regional Water Control Board (RWQCB) Human Health Risk Level (HHRL) for vapor intrusion at commercial and residential properties of 7.5 and 1.2  $\mu\text{g/L}$ , respectively. Cis-1,2-DCE was detected at concentrations of up to 15  $\mu\text{g/L}$ , which does not exceed the corresponding RWQCB HHRL for vapor intrusion at commercial and residential properties of 49 and 210  $\mu\text{g/L}$ , respectively.

The highest concentrations of TCE and cis-1,2,-DCE detected in groundwater during this investigation were detected at boring B7, which was advanced at the northeast portion of the Site. TCE and cis-1,2,-DCE concentrations detected in additional samples during this investigation were at least one order of magnitude less than at soil boring B7.

COC concentrations in groundwater at the Site have decreased significantly since the off-site source was remediated in 1999. Former on-site groundwater monitoring well MW-1 was last sampled in April 1998. At that time, TCE and cis-1,2,-DCE were detected at respective concentrations of 130 and 98  $\mu\text{g/L}$ . ACC collected one groundwater sample at the approximate location of former groundwater monitoring well MW-1 (ACC soil boring B1) and the analytical results indicated non-detectable concentrations of TCE and cis-1,2-DCE in groundwater at that location.

	MW-1 (1998)	B1 (2019)
TCE ( $\mu\text{g/L}$ )	130	ND<0.5
Cis-1,2-DCE ( $\mu\text{g/L}$ )	98	ND<0.5

One historical groundwater sample (GP-1) collected in 1995 along the southern portion of the Site indicated TCE and cis-1,2-DCE in groundwater at respective concentrations of 170 and 280  $\mu\text{g/L}$ . ACC collected one groundwater sample at the approximate location of GP-1 (ACC soil

boring B2) and analytical results indicate TCE and cis-1,2,-DCE in groundwater at respective concentrations of 1.3 and 0.66 µg/L at that location.

	GP-1 (1995)	B2 (2019)
TCE (µg/L)	170	1.3
Cis-1,2-DCE (µg/L)	280	0.66

In addition, TCE and cis-1,2-DCE were detected up to respective concentrations of 2100 and 3300 µg/L at the northern boundary of the Site in 1996 (EC-4). Detections of TCE and cis-1,2-DCE along the northern portion of the Site (in the general vicinity of EC-4) during this ACC groundwater investigation were up to 23 and 15 µg/L (B7).

	EC-4 (1996)	B7 (2019)
TCE (µg/L)	2100	23
Cis-1,2-DCE (µg/L)	3300	15

For historical sampling locations and analytical data see Figure 3.

## 8.2 Indoor Air

The highest concentration of TCE detected in groundwater during this sampling event exceeded the RWQCB Short-Term Action Level for TCE in groundwater at a commercial property of 20 µg/L. In response to the reported TCE concentrations in groundwater, ACC collected indoor air samples.

Analytical results from this sampling event indicate that indoor air at the Site is not impacted by TCE or cis-1,2-DCE at concentrations exceeding the corresponding RWQCB HHRLs for direct exposure to indoor air at commercial and residential properties.

PCE was detected in indoor air samples up to a concentration of 0.96 µg/m<sup>3</sup>, which exceeds the RWQCB HHRL for direct exposure to indoor air at residential properties, but not for commercial properties. PCE was non-detect in groundwater. Although PCE concentrations detected in outdoor ambient are one order of magnitude less than PCE concentrations detected in indoor air, ACC's opinion is that the PCE impacts to indoor air are likely the result of outdoor ambient air accumulating in the building, and may additionally be attributed to other potential sources not associated with soil, groundwater, and soil vapor at the Site.

## 9.0 RECOMMENDATIONS

Concentrations of dissolved chlorinated solvents in groundwater (particularly TCE and cis-1,2,-DCE) have decreased significantly since the off-site source was remediated in 1999. Current data does not indicate an on-site source and ACC agrees with the RWQCB closure letter for the

SUMCO property that that “further remedial actions will have marginal effect and it is anticipated that groundwater quality will further improve over time due to natural attenuation processes” (Section 3.0). No additional on-site groundwater characterization is recommended by ACC at this time.

ACC’s opinion is that impacts to indoor air as a result of residual subsurface contamination at the Site are minimal. ACC’s understanding is that the owner is proposing to sell the property, and that there is a high demand with regard to redeveloping the Site as residential units constructed on ground floor commercial units.

The deed restriction for the Site currently limits Site use to commercial. ACC requests that the RWQCB review the deed restriction with regard to the current groundwater data and ACC findings documented in this report. Based on current industry standards with regard to vapor intrusion and redevelopment, ACC’s opinion is that redevelopment of the Site as residential units constructed above commercial ground floor units in a manner that minimizes vapor intrusion concerns is highly feasible.

## **10.0 LIMITATIONS**

The service performed by ACC has been conducted in a manner consistent with the levels of care and skill ordinarily exercised by members of our profession currently practicing under similar conditions in the area. No other warranty, expressed or implied, is made.

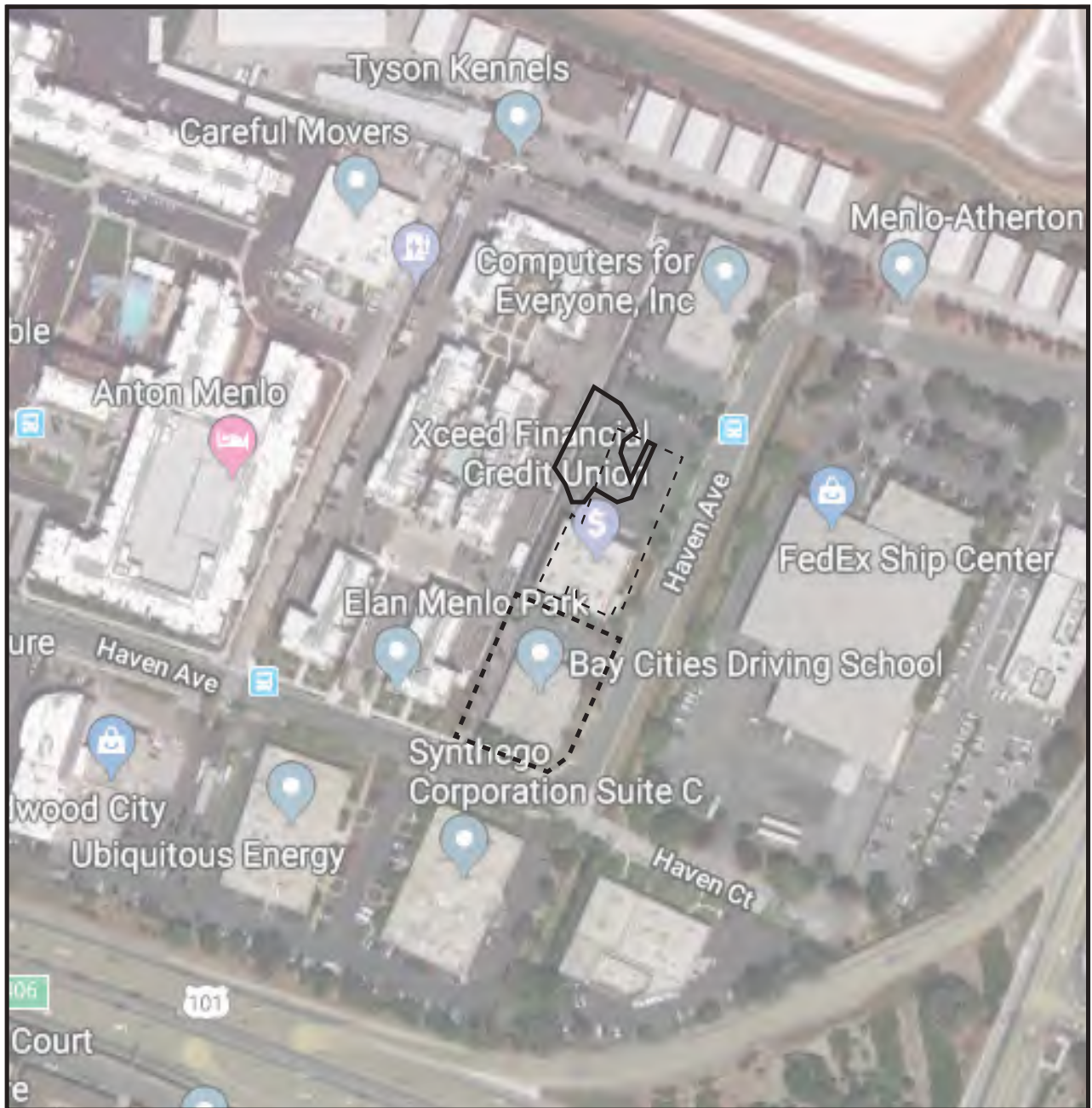
The conclusions presented in this report are professional opinions based on the indicated data described in this report and applicable regulations and guidelines currently in place. They are intended only for the purpose, site, and project indicated. Opinions and recommendations presented herein apply to site conditions existing at the time of our study. Site conditions could change over time due to unforeseen circumstances.

ACC has included analytical results from a state-certified laboratory, which performs analyses according to procedures suggested by the U.S. Environmental Protection Agency and/or the State of California. ACC shall not be responsible for laboratory errors.

We appreciate the opportunity to assist you with this project. If you have any questions regarding this report please contact (510) 638-8400 x110 or [isutherland@accenv.com](mailto:isutherland@accenv.com).

## **FIGURES 1 - 3**





BASEMAP SOURCE: GOOGLE EARTH (12.30.19)

ALL DIMENSIONS & LOCATIONS APPROXIMATE



= Source Removal Area

= Former Building 2



# FIGURE 1

## SITE LOCATION WITH SOURCE REMOVAL AREA

= Site

ACC NO: 1744-001.00

DATE: 1.13.20

DRAWN BY: KB

3705 HAVEN AVENUE  
MENLO PARK, CALIFORNIA



BASEMAP SOURCE: GOOGLE EARTH (07.01.19)

ALL DIMENSIONS & LOCATIONS APPROXIMATE



⊕ = ACC GROUNDWATER SAMPLING LOCATION with TCE/DCE Concentrations (µg/L) (July 2019)

● = ACC INDOOR AIR SAMPLING LOCATION with TCE/DCE Concentrations (µg/m<sup>3</sup>) (September 2019)



## FIGURE 2

### SITE MAP WITH GROUNDWATER & INDOOR AIR SAMPLE LOCATIONS (2019)

Subject Property

ACC NO: 1744-001.00

DATE: 1.13.20

DRAWN BY: KB

3705 HAVEN AVENUE  
MENLO PARK, CALIFORNIA





BASEMAP SOURCE: GOOGLE EARTH (07.01.19)

ALL DIMENSIONS & LOCATIONS APPROXIMATE



- ⊕ = ACC GROUNDWATER SAMPLE LOCATION (2019)
- = EKI SAMPLE LOCATION WITH TCE/DCE CONCENTRATIONS (µg/L) (1999)
- = EKI SAMPLE LOCATION WITH TCE/DCE CONCENTRATIONS (µg/L) (1995)
- ⊖ = EKI MONITORING WELL LOCATION WITH TCE/DCE CONCENTRATIONS (µg/L) (1998/DESTROYED 2000)
- 0.0/0.0 = TCE/DCE CONCENTRATIONS (µg/L) (2019)



## FIGURE 3

## SITE MAP WITH HISTORICAL SAMPLING LOCATIONS

Subject Property

ACC NO: 1744-001.00

DATE: 1.13.20

DRAWN BY: KB

3705 HAVEN AVENUE  
MENLO PARK, CALIFORNIA

## **TABLES 1-2**

**TABLE 1**  
**Groundwater Analytical Results Summary (VOCs)**  
**3705 Haven Avenue, Menlo Park, California**  
**ACC Project Number: 1744-001.0**

Sample ID	Chemical Compound & Concentrations (µg/L)								
	Sample Date	Trichloroethene (TCE)	Tetrachloroethene (PCE)	cis-1,2-Dichloroethene (DCE)	Vinyl Chloride	trans-1,2-Dichloroethene	Freon 113	Methyl-t-butyl ether (MTBE)	Other VOCs
B1-W	7.25.19	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND
B2-W		1.3	ND<0.5	0.66	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND
B3-W		5.7	ND<0.5	0.69	ND<0.5	ND<0.5	2.0	ND<0.5	ND
B4-W		8.0	ND<0.5	2.1	ND<0.5	ND<0.5	0.71	ND<0.5	ND
B5-W		1.1	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND
B6-W		4.3	ND<0.5	2.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND
B7-W		23	ND<0.5	15	ND<0.5	1.7	4.4	0.92	ND
RWQCB Tier 1 ESL (Groundwater)		1.2	0.64	6.0	0.0086	10	--	5.0	--
HHRSLs - Groundwater Vapor Intrusion (Table GW- 3; Residential)		1.2	0.64	49	0.0086	220	--	450	--
HHRSLs - Groundwater Vapor Intrusion (Table GW- 3; Commercial)		7.5	2.8	210	0.14	920	--	2000	--
<i>VOCs = Volatile Organic Compounds; µg/L = micrograms per liter; ESLs = Environmental Screening Levels and HHRSLs = Human Health Risk Screening Levels published by the San Francisco Bay Regional Water Quality Control Board (January 2019).</i>									

**TABLE 2**  
**Indoor Air Analytical Results Summary (Chlorinated Solvents)**  
**3705 Haven Avenue, Menlo Park, CA**  
**ACC Project Number: 1744-001.01**

Sample ID	Sample Date	Chemical Compounds and Concentrations ( $\mu\text{g}/\text{m}^3$ )				
		Tetrachloroethene (PCE)	Trichloroethene (TCE)	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Vinyl Chloride
IA1	9.10.19	0.96	0.033 J	ND<0.13	0.096 J	ND>0.010
IA2		0.85	0.070 J	ND<0.13	ND<0.67	ND>0.011
IA3		0.87	0.079 J	ND<0.13	ND<0.65	ND>0.011
IA4		0.046 J	ND<0.18	ND<0.13	ND<0.67	ND>0.011
HHRSLs - Indoor Air Direct Exposure (Table IA-1; Residential)		0.46	0.48	8.3	8.3	0.0095
HHRSLs - Indoor Air Direct Exposure (Table IA-1; Commercial)		2.0	3.0	35	350	0.16
$\mu\text{g}/\text{m}^3$ = micrograms per cubic meter; ND< = non-detect less than reporting limit; Method Detection Limits (MDLs) listed instead of Reporting Limit for Vinyl Chloride; HHRSLs = Human Health Risk Levels published by the San Francisco Bay Regional Water Quality Control Board (January 2019); See lab report for explanation of data qualifiers (J, m, etc.); Total xylenes = sum of m-/p-xylenes and o-xylene.						

**APPENDIX A**

**COMPLETE LABORATORY REPORTS**



# McC Campbell Analytical, Inc.

"When Quality Counts"

## Analytical Report

**WorkOrder:** 1907D02

**Report Created for:** ACC Environmental Consultants, Inc.

7977 Capwell Drive , Suite 100  
Oakland, CA 94621

**Project Contact:** Kim Bunting

**Project P.O.:**

**Project:** 1744-001.00

**Project Received:** 07/26/2019

Analytical Report reviewed & approved for release on 08/02/2019 by:

Christine Askari  
Project Manager

*The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.*







## Glossary of Terms & Qualifier Definitions

**Client:** ACC Environmental Consultants, Inc.  
**Project:** 1744-001.00  
**WorkOrder:** 1907D02

### Glossary Abbreviation

%D	Serial Dilution Percent Difference
95% Interval	95% Confident Interval
DF	Dilution Factor
DI WET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (direct analysis of 0.45 µm filtered and acidified water sample)
DLT	Dilution Test (Serial Dilution)
DUP	Duplicate
EDL	Estimated Detection Limit
ERS	External reference sample. Second source calibration verification.
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
N/A	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PDS	Post Digestion Spike
PDSD	Post Digestion Spike Duplicate
PF	Prep Factor
RD	Relative Difference
RL	Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
SPLP	Synthetic Precipitation Leachate Procedure
ST	Sorbent Tube
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
TZA	TimeZone Net Adjustment for sample collected outside of MAI's UTC.
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)



## **Glossary of Terms & Qualifier Definitions**

**Client:** ACC Environmental Consultants, Inc.

**Project:** 1744-001.00

**WorkOrder:** 1907D02

### **Analytical Qualifiers**

J Result is less than the RL/ML but greater than the MDL. The reported concentration is an estimated value.

### **Quality Control Qualifiers**

F2 LCS/LCSD recovery and/or RPD/RSD is out of acceptance criteria.



# Analytical Report

**Client:** ACC Environmental Consultants, Inc.  
**Date Received:** 7/26/19 15:25  
**Date Prepared:** 8/1/19-8/2/19  
**Project:** 1744-001.00

**WorkOrder:** 1907D02  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L

## Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B1-W	1907D02-001A	Water	07/25/2019 10:25	GC16 08011913.D	182773

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	10	1	08/01/2019 16:11
tert-Amyl methyl ether (TAME)	ND	0.50	1	08/01/2019 16:11
Benzene	ND	0.50	1	08/01/2019 16:11
Bromobenzene	ND	0.50	1	08/01/2019 16:11
Bromochloromethane	ND	0.50	1	08/01/2019 16:11
Bromodichloromethane	ND	0.50	1	08/01/2019 16:11
Bromoform	ND	0.50	1	08/01/2019 16:11
Bromomethane	ND	0.50	1	08/01/2019 16:11
2-Butanone (MEK)	ND	5.0	1	08/01/2019 16:11
t-Butyl alcohol (TBA)	ND	5.0	1	08/01/2019 16:11
n-Butyl benzene	ND	0.50	1	08/01/2019 16:11
sec-Butyl benzene	ND	0.50	1	08/01/2019 16:11
tert-Butyl benzene	ND	0.50	1	08/01/2019 16:11
Carbon Disulfide	ND	0.50	1	08/01/2019 16:11
Carbon Tetrachloride	ND	0.50	1	08/01/2019 16:11
Chlorobenzene	ND	0.50	1	08/01/2019 16:11
Chloroethane	ND	0.50	1	08/01/2019 16:11
Chloroform	ND	0.50	1	08/01/2019 16:11
Chloromethane	ND	0.50	1	08/01/2019 16:11
2-Chlorotoluene	ND	0.50	1	08/01/2019 16:11
4-Chlorotoluene	ND	0.50	1	08/01/2019 16:11
Dibromochloromethane	ND	0.50	1	08/01/2019 16:11
1,2-Dibromo-3-chloropropane	ND	0.20	1	08/01/2019 16:11
1,2-Dibromoethane (EDB)	ND	0.50	1	08/01/2019 16:11
Dibromomethane	ND	0.50	1	08/01/2019 16:11
1,2-Dichlorobenzene	ND	0.50	1	08/01/2019 16:11
1,3-Dichlorobenzene	ND	0.50	1	08/01/2019 16:11
1,4-Dichlorobenzene	ND	0.50	1	08/01/2019 16:11
Dichlorodifluoromethane	ND	0.50	1	08/01/2019 16:11
1,1-Dichloroethane	ND	0.50	1	08/01/2019 16:11
1,2-Dichloroethane (1,2-DCA)	ND	0.50	1	08/01/2019 16:11
1,1-Dichloroethene	ND	0.50	1	08/01/2019 16:11
cis-1,2-Dichloroethene	ND	0.50	1	08/01/2019 16:11
trans-1,2-Dichloroethene	ND	0.50	1	08/01/2019 16:11
1,2-Dichloropropane	ND	0.50	1	08/01/2019 16:11
1,3-Dichloropropane	ND	0.50	1	08/01/2019 16:11
2,2-Dichloropropane	ND	0.50	1	08/01/2019 16:11

(Cont.)



# Analytical Report

**Client:** ACC Environmental Consultants, Inc.  
**Date Received:** 7/26/19 15:25  
**Date Prepared:** 8/1/19-8/2/19  
**Project:** 1744-001.00

**WorkOrder:** 1907D02  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L

## Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B1-W	1907D02-001A	Water	07/25/2019 10:25	GC16 08011913.D	182773

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	0.50	1	08/01/2019 16:11
cis-1,3-Dichloropropene	ND	0.50	1	08/01/2019 16:11
trans-1,3-Dichloropropene	ND	0.50	1	08/01/2019 16:11
Diisopropyl ether (DIPE)	ND	0.50	1	08/01/2019 16:11
Ethylbenzene	ND	0.50	1	08/01/2019 16:11
Ethyl tert-butyl ether (ETBE)	ND	0.50	1	08/01/2019 16:11
Freon 113	ND	0.50	1	08/01/2019 16:11
Hexachlorobutadiene	ND	0.50	1	08/01/2019 16:11
Hexachloroethane	ND	0.50	1	08/01/2019 16:11
2-Hexanone	ND	1.0	1	08/01/2019 16:11
Isopropylbenzene	ND	0.50	1	08/01/2019 16:11
4-Isopropyl toluene	ND	0.50	1	08/01/2019 16:11
Methyl-t-butyl ether (MTBE)	ND	0.50	1	08/01/2019 16:11
Methylene chloride	ND	2.0	1	08/01/2019 16:11
4-Methyl-2-pentanone (MIBK)	ND	0.50	1	08/01/2019 16:11
Naphthalene	ND	1.0	1	08/01/2019 16:11
n-Propyl benzene	ND	0.50	1	08/01/2019 16:11
Styrene	ND	2.0	1	08/01/2019 16:11
1,1,1,2-Tetrachloroethane	ND	0.50	1	08/01/2019 16:11
1,1,2,2-Tetrachloroethane	ND	0.50	1	08/01/2019 16:11
Tetrachloroethene	ND	0.50	1	08/01/2019 16:11
Toluene	ND	0.50	1	08/01/2019 16:11
1,2,3-Trichlorobenzene	ND	0.50	1	08/01/2019 16:11
1,2,4-Trichlorobenzene	ND	0.50	1	08/01/2019 16:11
1,1,1-Trichloroethane	ND	0.50	1	08/01/2019 16:11
1,1,2-Trichloroethane	ND	0.50	1	08/01/2019 16:11
Trichloroethene	ND	0.50	1	08/01/2019 16:11
Trichlorofluoromethane	ND	0.50	1	08/01/2019 16:11
1,2,3-Trichloropropane	ND	0.50	1	08/01/2019 16:11
1,2,4-Trimethylbenzene	ND	0.50	1	08/01/2019 16:11
1,3,5-Trimethylbenzene	ND	0.50	1	08/01/2019 16:11
Vinyl Chloride	ND	0.50	1	08/01/2019 16:11
m,p-Xylene	ND	0.50	1	08/01/2019 16:11
o-Xylene	ND	0.50	1	08/01/2019 16:11
Xylenes, Total	ND	0.50	1	08/01/2019 16:11

(Cont.)



# Analytical Report

**Client:** ACC Environmental Consultants, Inc.  
**Date Received:** 7/26/19 15:25  
**Date Prepared:** 8/1/19-8/2/19  
**Project:** 1744-001.00

**WorkOrder:** 1907D02  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L

## Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B1-W	1907D02-001A	Water	07/25/2019 10:25	GC16 08011913.D	182773

Analytes	Result	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>	
Dibromofluoromethane	96		78-112	08/01/2019 16:11
Toluene-d8	87		82-109	08/01/2019 16:11
4-BFB	78		63-121	08/01/2019 16:11

Analyst(s): KF



# Analytical Report

**Client:** ACC Environmental Consultants, Inc.  
**Date Received:** 7/26/19 15:25  
**Date Prepared:** 8/1/19-8/2/19  
**Project:** 1744-001.00

**WorkOrder:** 1907D02  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L

## Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B2-W	1907D02-002A	Water	07/25/2019 10:50	GC16 08011914.D	182773

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	10	1	08/01/2019 16:53
tert-Amyl methyl ether (TAME)	ND	0.50	1	08/01/2019 16:53
Benzene	ND	0.50	1	08/01/2019 16:53
Bromobenzene	ND	0.50	1	08/01/2019 16:53
Bromochloromethane	ND	0.50	1	08/01/2019 16:53
Bromodichloromethane	ND	0.50	1	08/01/2019 16:53
Bromoform	ND	0.50	1	08/01/2019 16:53
Bromomethane	ND	0.50	1	08/01/2019 16:53
2-Butanone (MEK)	ND	5.0	1	08/01/2019 16:53
t-Butyl alcohol (TBA)	ND	5.0	1	08/01/2019 16:53
n-Butyl benzene	ND	0.50	1	08/01/2019 16:53
sec-Butyl benzene	ND	0.50	1	08/01/2019 16:53
tert-Butyl benzene	ND	0.50	1	08/01/2019 16:53
Carbon Disulfide	ND	0.50	1	08/01/2019 16:53
Carbon Tetrachloride	ND	0.50	1	08/01/2019 16:53
Chlorobenzene	ND	0.50	1	08/01/2019 16:53
Chloroethane	ND	0.50	1	08/01/2019 16:53
Chloroform	ND	0.50	1	08/01/2019 16:53
Chloromethane	ND	0.50	1	08/01/2019 16:53
2-Chlorotoluene	ND	0.50	1	08/01/2019 16:53
4-Chlorotoluene	ND	0.50	1	08/01/2019 16:53
Dibromochloromethane	ND	0.50	1	08/01/2019 16:53
1,2-Dibromo-3-chloropropane	ND	0.20	1	08/01/2019 16:53
1,2-Dibromoethane (EDB)	ND	0.50	1	08/01/2019 16:53
Dibromomethane	ND	0.50	1	08/01/2019 16:53
1,2-Dichlorobenzene	ND	0.50	1	08/01/2019 16:53
1,3-Dichlorobenzene	ND	0.50	1	08/01/2019 16:53
1,4-Dichlorobenzene	ND	0.50	1	08/01/2019 16:53
Dichlorodifluoromethane	ND	0.50	1	08/01/2019 16:53
1,1-Dichloroethane	ND	0.50	1	08/01/2019 16:53
1,2-Dichloroethane (1,2-DCA)	ND	0.50	1	08/01/2019 16:53
1,1-Dichloroethene	ND	0.50	1	08/01/2019 16:53
cis-1,2-Dichloroethene	<b>0.66</b>	0.50	1	08/01/2019 16:53
trans-1,2-Dichloroethene	ND	0.50	1	08/01/2019 16:53
1,2-Dichloropropane	ND	0.50	1	08/01/2019 16:53
1,3-Dichloropropane	ND	0.50	1	08/01/2019 16:53
2,2-Dichloropropane	ND	0.50	1	08/01/2019 16:53

(Cont.)



## Analytical Report

**Client:** ACC Environmental Consultants, Inc.  
**Date Received:** 7/26/19 15:25  
**Date Prepared:** 8/1/19-8/2/19  
**Project:** 1744-001.00

**WorkOrder:** 1907D02  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L

### Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B2-W	1907D02-002A	Water	07/25/2019 10:50	GC16 08011914.D	182773

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	0.50	1	08/01/2019 16:53
cis-1,3-Dichloropropene	ND	0.50	1	08/01/2019 16:53
trans-1,3-Dichloropropene	ND	0.50	1	08/01/2019 16:53
Diisopropyl ether (DIPE)	ND	0.50	1	08/01/2019 16:53
Ethylbenzene	ND	0.50	1	08/01/2019 16:53
Ethyl tert-butyl ether (ETBE)	ND	0.50	1	08/01/2019 16:53
Freon 113	ND	0.50	1	08/01/2019 16:53
Hexachlorobutadiene	ND	0.50	1	08/01/2019 16:53
Hexachloroethane	ND	0.50	1	08/01/2019 16:53
2-Hexanone	ND	1.0	1	08/01/2019 16:53
Isopropylbenzene	ND	0.50	1	08/01/2019 16:53
4-Isopropyl toluene	ND	0.50	1	08/01/2019 16:53
Methyl-t-butyl ether (MTBE)	ND	0.50	1	08/01/2019 16:53
Methylene chloride	ND	2.0	1	08/01/2019 16:53
4-Methyl-2-pentanone (MIBK)	ND	0.50	1	08/01/2019 16:53
Naphthalene	ND	1.0	1	08/01/2019 16:53
n-Propyl benzene	ND	0.50	1	08/01/2019 16:53
Styrene	ND	2.0	1	08/01/2019 16:53
1,1,1,2-Tetrachloroethane	ND	0.50	1	08/01/2019 16:53
1,1,2,2-Tetrachloroethane	ND	0.50	1	08/01/2019 16:53
Tetrachloroethene	ND	0.50	1	08/01/2019 16:53
Toluene	ND	0.50	1	08/01/2019 16:53
1,2,3-Trichlorobenzene	ND	0.50	1	08/01/2019 16:53
1,2,4-Trichlorobenzene	ND	0.50	1	08/01/2019 16:53
1,1,1-Trichloroethane	ND	0.50	1	08/01/2019 16:53
1,1,2-Trichloroethane	ND	0.50	1	08/01/2019 16:53
Trichloroethene	1.3	0.50	1	08/01/2019 16:53
Trichlorofluoromethane	ND	0.50	1	08/01/2019 16:53
1,2,3-Trichloropropane	ND	0.50	1	08/01/2019 16:53
1,2,4-Trimethylbenzene	ND	0.50	1	08/01/2019 16:53
1,3,5-Trimethylbenzene	ND	0.50	1	08/01/2019 16:53
Vinyl Chloride	ND	0.50	1	08/01/2019 16:53
m,p-Xylene	ND	0.50	1	08/01/2019 16:53
o-Xylene	ND	0.50	1	08/01/2019 16:53
Xylenes, Total	ND	0.50	1	08/01/2019 16:53

(Cont.)



# Analytical Report

**Client:** ACC Environmental Consultants, Inc.  
**Date Received:** 7/26/19 15:25  
**Date Prepared:** 8/1/19-8/2/19  
**Project:** 1744-001.00

**WorkOrder:** 1907D02  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L

## Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B2-W	1907D02-002A	Water	07/25/2019 10:50	GC16 08011914.D	182773

Analytes	Result	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
Dibromofluoromethane	96	78-112		08/01/2019 16:53
Toluene-d8	87	82-109		08/01/2019 16:53
4-BFB	74	63-121		08/01/2019 16:53

Analyst(s): KF





# Analytical Report

**Client:** ACC Environmental Consultants, Inc.  
**Date Received:** 7/26/19 15:25  
**Date Prepared:** 8/1/19-8/2/19  
**Project:** 1744-001.00

**WorkOrder:** 1907D02  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L

## Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B3-W	1907D02-003A	Water	07/25/2019 11:08	GC16 08011915.D	182773

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	10	1	08/01/2019 17:34
tert-Amyl methyl ether (TAME)	ND	0.50	1	08/01/2019 17:34
Benzene	ND	0.50	1	08/01/2019 17:34
Bromobenzene	ND	0.50	1	08/01/2019 17:34
Bromochloromethane	ND	0.50	1	08/01/2019 17:34
Bromodichloromethane	ND	0.50	1	08/01/2019 17:34
Bromoform	ND	0.50	1	08/01/2019 17:34
Bromomethane	ND	0.50	1	08/01/2019 17:34
2-Butanone (MEK)	ND	5.0	1	08/01/2019 17:34
t-Butyl alcohol (TBA)	ND	5.0	1	08/01/2019 17:34
n-Butyl benzene	ND	0.50	1	08/01/2019 17:34
sec-Butyl benzene	ND	0.50	1	08/01/2019 17:34
tert-Butyl benzene	ND	0.50	1	08/01/2019 17:34
Carbon Disulfide	ND	0.50	1	08/01/2019 17:34
Carbon Tetrachloride	ND	0.50	1	08/01/2019 17:34
Chlorobenzene	ND	0.50	1	08/01/2019 17:34
Chloroethane	ND	0.50	1	08/01/2019 17:34
Chloroform	ND	0.50	1	08/01/2019 17:34
Chloromethane	ND	0.50	1	08/01/2019 17:34
2-Chlorotoluene	ND	0.50	1	08/01/2019 17:34
4-Chlorotoluene	ND	0.50	1	08/01/2019 17:34
Dibromochloromethane	ND	0.50	1	08/01/2019 17:34
1,2-Dibromo-3-chloropropane	ND	0.20	1	08/01/2019 17:34
1,2-Dibromoethane (EDB)	ND	0.50	1	08/01/2019 17:34
Dibromomethane	ND	0.50	1	08/01/2019 17:34
1,2-Dichlorobenzene	ND	0.50	1	08/01/2019 17:34
1,3-Dichlorobenzene	ND	0.50	1	08/01/2019 17:34
1,4-Dichlorobenzene	ND	0.50	1	08/01/2019 17:34
Dichlorodifluoromethane	ND	0.50	1	08/01/2019 17:34
1,1-Dichloroethane	ND	0.50	1	08/01/2019 17:34
1,2-Dichloroethane (1,2-DCA)	ND	0.50	1	08/01/2019 17:34
1,1-Dichloroethene	ND	0.50	1	08/01/2019 17:34
cis-1,2-Dichloroethene	<b>0.69</b>	0.50	1	08/01/2019 17:34
trans-1,2-Dichloroethene	ND	0.50	1	08/01/2019 17:34
1,2-Dichloropropane	ND	0.50	1	08/01/2019 17:34
1,3-Dichloropropane	ND	0.50	1	08/01/2019 17:34
2,2-Dichloropropane	ND	0.50	1	08/01/2019 17:34

(Cont.)



## Analytical Report

**Client:** ACC Environmental Consultants, Inc.  
**Date Received:** 7/26/19 15:25  
**Date Prepared:** 8/1/19-8/2/19  
**Project:** 1744-001.00

**WorkOrder:** 1907D02  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L

### Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B3-W	1907D02-003A	Water	07/25/2019 11:08	GC16 08011915.D	182773

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	0.50	1	08/01/2019 17:34
cis-1,3-Dichloropropene	ND	0.50	1	08/01/2019 17:34
trans-1,3-Dichloropropene	ND	0.50	1	08/01/2019 17:34
Diisopropyl ether (DIPE)	ND	0.50	1	08/01/2019 17:34
Ethylbenzene	ND	0.50	1	08/01/2019 17:34
Ethyl tert-butyl ether (ETBE)	ND	0.50	1	08/01/2019 17:34
Freon 113	<b>2.0</b>	0.50	1	08/01/2019 17:34
Hexachlorobutadiene	ND	0.50	1	08/01/2019 17:34
Hexachloroethane	ND	0.50	1	08/01/2019 17:34
2-Hexanone	ND	1.0	1	08/01/2019 17:34
Isopropylbenzene	ND	0.50	1	08/01/2019 17:34
4-Isopropyl toluene	ND	0.50	1	08/01/2019 17:34
Methyl-t-butyl ether (MTBE)	ND	0.50	1	08/01/2019 17:34
Methylene chloride	ND	2.0	1	08/01/2019 17:34
4-Methyl-2-pentanone (MIBK)	ND	0.50	1	08/01/2019 17:34
Naphthalene	ND	1.0	1	08/01/2019 17:34
n-Propyl benzene	ND	0.50	1	08/01/2019 17:34
Styrene	ND	2.0	1	08/01/2019 17:34
1,1,1,2-Tetrachloroethane	ND	0.50	1	08/01/2019 17:34
1,1,2,2-Tetrachloroethane	ND	0.50	1	08/01/2019 17:34
Tetrachloroethene	ND	0.50	1	08/01/2019 17:34
Toluene	ND	0.50	1	08/01/2019 17:34
1,2,3-Trichlorobenzene	ND	0.50	1	08/01/2019 17:34
1,2,4-Trichlorobenzene	ND	0.50	1	08/01/2019 17:34
1,1,1-Trichloroethane	ND	0.50	1	08/01/2019 17:34
1,1,2-Trichloroethane	ND	0.50	1	08/01/2019 17:34
Trichloroethene	<b>5.7</b>	0.50	1	08/01/2019 17:34
Trichlorofluoromethane	ND	0.50	1	08/01/2019 17:34
1,2,3-Trichloropropane	ND	0.50	1	08/01/2019 17:34
1,2,4-Trimethylbenzene	ND	0.50	1	08/01/2019 17:34
1,3,5-Trimethylbenzene	ND	0.50	1	08/01/2019 17:34
Vinyl Chloride	ND	0.50	1	08/01/2019 17:34
m,p-Xylene	ND	0.50	1	08/01/2019 17:34
o-Xylene	ND	0.50	1	08/01/2019 17:34
Xylenes, Total	ND	0.50	1	08/01/2019 17:34

(Cont.)



# Analytical Report

**Client:** ACC Environmental Consultants, Inc.  
**Date Received:** 7/26/19 15:25  
**Date Prepared:** 8/1/19-8/2/19  
**Project:** 1744-001.00

**WorkOrder:** 1907D02  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L

## Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B3-W	1907D02-003A	Water	07/25/2019 11:08	GC16 08011915.D	182773

Analytes	Result	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
Dibromofluoromethane	95	78-112		08/01/2019 17:34
Toluene-d8	88	82-109		08/01/2019 17:34
4-BFB	76	63-121		08/01/2019 17:34

Analyst(s): KF



# Analytical Report

**Client:** ACC Environmental Consultants, Inc.  
**Date Received:** 7/26/19 15:25  
**Date Prepared:** 8/1/19-8/2/19  
**Project:** 1744-001.00

**WorkOrder:** 1907D02  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L

## Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B4-W	1907D02-004A	Water	07/25/2019 09:27	GC16 08011923.D	182773

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	10	1	08/01/2019 23:06
tert-Amyl methyl ether (TAME)	ND	0.50	1	08/01/2019 23:06
Benzene	ND	0.50	1	08/01/2019 23:06
Bromobenzene	ND	0.50	1	08/01/2019 23:06
Bromochloromethane	ND	0.50	1	08/01/2019 23:06
Bromodichloromethane	ND	0.50	1	08/01/2019 23:06
Bromoform	ND	0.50	1	08/01/2019 23:06
Bromomethane	ND	0.50	1	08/01/2019 23:06
2-Butanone (MEK)	ND	5.0	1	08/01/2019 23:06
t-Butyl alcohol (TBA)	ND	5.0	1	08/01/2019 23:06
n-Butyl benzene	ND	0.50	1	08/01/2019 23:06
sec-Butyl benzene	ND	0.50	1	08/01/2019 23:06
tert-Butyl benzene	ND	0.50	1	08/01/2019 23:06
Carbon Disulfide	ND	0.50	1	08/01/2019 23:06
Carbon Tetrachloride	ND	0.50	1	08/01/2019 23:06
Chlorobenzene	ND	0.50	1	08/01/2019 23:06
Chloroethane	ND	0.50	1	08/01/2019 23:06
Chloroform	ND	0.50	1	08/01/2019 23:06
Chloromethane	ND	0.50	1	08/01/2019 23:06
2-Chlorotoluene	ND	0.50	1	08/01/2019 23:06
4-Chlorotoluene	ND	0.50	1	08/01/2019 23:06
Dibromochloromethane	ND	0.50	1	08/01/2019 23:06
1,2-Dibromo-3-chloropropane	ND	0.20	1	08/01/2019 23:06
1,2-Dibromoethane (EDB)	ND	0.50	1	08/01/2019 23:06
Dibromomethane	ND	0.50	1	08/01/2019 23:06
1,2-Dichlorobenzene	ND	0.50	1	08/01/2019 23:06
1,3-Dichlorobenzene	ND	0.50	1	08/01/2019 23:06
1,4-Dichlorobenzene	ND	0.50	1	08/01/2019 23:06
Dichlorodifluoromethane	ND	0.50	1	08/01/2019 23:06
1,1-Dichloroethane	ND	0.50	1	08/01/2019 23:06
1,2-Dichloroethane (1,2-DCA)	ND	0.50	1	08/01/2019 23:06
1,1-Dichloroethene	ND	0.50	1	08/01/2019 23:06
cis-1,2-Dichloroethene	2.1	0.50	1	08/01/2019 23:06
trans-1,2-Dichloroethene	ND	0.50	1	08/01/2019 23:06
1,2-Dichloropropane	ND	0.50	1	08/01/2019 23:06
1,3-Dichloropropane	ND	0.50	1	08/01/2019 23:06
2,2-Dichloropropane	ND	0.50	1	08/01/2019 23:06

(Cont.)



# Analytical Report

**Client:** ACC Environmental Consultants, Inc.  
**Date Received:** 7/26/19 15:25  
**Date Prepared:** 8/1/19-8/2/19  
**Project:** 1744-001.00

**WorkOrder:** 1907D02  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L

## Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B4-W	1907D02-004A	Water	07/25/2019 09:27	GC16 08011923.D	182773

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	0.50	1	08/01/2019 23:06
cis-1,3-Dichloropropene	ND	0.50	1	08/01/2019 23:06
trans-1,3-Dichloropropene	ND	0.50	1	08/01/2019 23:06
Diisopropyl ether (DIPE)	ND	0.50	1	08/01/2019 23:06
Ethylbenzene	ND	0.50	1	08/01/2019 23:06
Ethyl tert-butyl ether (ETBE)	ND	0.50	1	08/01/2019 23:06
Freon 113	0.71	0.50	1	08/01/2019 23:06
Hexachlorobutadiene	ND	0.50	1	08/01/2019 23:06
Hexachloroethane	ND	0.50	1	08/01/2019 23:06
2-Hexanone	ND	1.0	1	08/01/2019 23:06
Isopropylbenzene	ND	0.50	1	08/01/2019 23:06
4-Isopropyl toluene	ND	0.50	1	08/01/2019 23:06
Methyl-t-butyl ether (MTBE)	ND	0.50	1	08/01/2019 23:06
Methylene chloride	ND	2.0	1	08/01/2019 23:06
4-Methyl-2-pentanone (MIBK)	ND	0.50	1	08/01/2019 23:06
Naphthalene	ND	1.0	1	08/01/2019 23:06
n-Propyl benzene	ND	0.50	1	08/01/2019 23:06
Styrene	ND	2.0	1	08/01/2019 23:06
1,1,1,2-Tetrachloroethane	ND	0.50	1	08/01/2019 23:06
1,1,2,2-Tetrachloroethane	ND	0.50	1	08/01/2019 23:06
Tetrachloroethene	ND	0.50	1	08/01/2019 23:06
Toluene	ND	0.50	1	08/01/2019 23:06
1,2,3-Trichlorobenzene	ND	0.50	1	08/01/2019 23:06
1,2,4-Trichlorobenzene	ND	0.50	1	08/01/2019 23:06
1,1,1-Trichloroethane	ND	0.50	1	08/01/2019 23:06
1,1,2-Trichloroethane	ND	0.50	1	08/01/2019 23:06
Trichloroethene	8.0	0.50	1	08/01/2019 23:06
Trichlorofluoromethane	ND	0.50	1	08/01/2019 23:06
1,2,3-Trichloropropane	ND	0.50	1	08/01/2019 23:06
1,2,4-Trimethylbenzene	ND	0.50	1	08/01/2019 23:06
1,3,5-Trimethylbenzene	ND	0.50	1	08/01/2019 23:06
Vinyl Chloride	ND	0.50	1	08/01/2019 23:06
m,p-Xylene	ND	0.50	1	08/01/2019 23:06
o-Xylene	ND	0.50	1	08/01/2019 23:06
Xylenes, Total	ND	0.50	1	08/01/2019 23:06

(Cont.)



# Analytical Report

**Client:** ACC Environmental Consultants, Inc.  
**Date Received:** 7/26/19 15:25  
**Date Prepared:** 8/1/19-8/2/19  
**Project:** 1744-001.00

**WorkOrder:** 1907D02  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L

## Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B4-W	1907D02-004A	Water	07/25/2019 09:27	GC16 08011923.D	182773

Analytes	Result	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
Dibromofluoromethane	95	78-112		08/01/2019 23:06
Toluene-d8	89	82-109		08/01/2019 23:06
4-BFB	76	63-121		08/01/2019 23:06

Analyst(s): KF



# Analytical Report

**Client:** ACC Environmental Consultants, Inc.  
**Date Received:** 7/26/19 15:25  
**Date Prepared:** 8/1/19-8/2/19  
**Project:** 1744-001.00

**WorkOrder:** 1907D02  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L

## Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B5-W	1907D02-005A	Water	07/25/2019 08:50	GC16 08011924.D	182773

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	10	1	08/01/2019 23:46
tert-Amyl methyl ether (TAME)	ND	0.50	1	08/01/2019 23:46
Benzene	ND	0.50	1	08/01/2019 23:46
Bromobenzene	ND	0.50	1	08/01/2019 23:46
Bromochloromethane	ND	0.50	1	08/01/2019 23:46
Bromodichloromethane	ND	0.50	1	08/01/2019 23:46
Bromoform	ND	0.50	1	08/01/2019 23:46
Bromomethane	ND	0.50	1	08/01/2019 23:46
2-Butanone (MEK)	ND	5.0	1	08/01/2019 23:46
t-Butyl alcohol (TBA)	ND	5.0	1	08/01/2019 23:46
n-Butyl benzene	ND	0.50	1	08/01/2019 23:46
sec-Butyl benzene	ND	0.50	1	08/01/2019 23:46
tert-Butyl benzene	ND	0.50	1	08/01/2019 23:46
Carbon Disulfide	ND	0.50	1	08/01/2019 23:46
Carbon Tetrachloride	ND	0.50	1	08/01/2019 23:46
Chlorobenzene	ND	0.50	1	08/01/2019 23:46
Chloroethane	ND	0.50	1	08/01/2019 23:46
Chloroform	ND	0.50	1	08/01/2019 23:46
Chloromethane	ND	0.50	1	08/01/2019 23:46
2-Chlorotoluene	ND	0.50	1	08/01/2019 23:46
4-Chlorotoluene	ND	0.50	1	08/01/2019 23:46
Dibromochloromethane	ND	0.50	1	08/01/2019 23:46
1,2-Dibromo-3-chloropropane	ND	0.20	1	08/01/2019 23:46
1,2-Dibromoethane (EDB)	ND	0.50	1	08/01/2019 23:46
Dibromomethane	ND	0.50	1	08/01/2019 23:46
1,2-Dichlorobenzene	ND	0.50	1	08/01/2019 23:46
1,3-Dichlorobenzene	ND	0.50	1	08/01/2019 23:46
1,4-Dichlorobenzene	ND	0.50	1	08/01/2019 23:46
Dichlorodifluoromethane	ND	0.50	1	08/01/2019 23:46
1,1-Dichloroethane	ND	0.50	1	08/01/2019 23:46
1,2-Dichloroethane (1,2-DCA)	ND	0.50	1	08/01/2019 23:46
1,1-Dichloroethene	ND	0.50	1	08/01/2019 23:46
cis-1,2-Dichloroethene	ND	0.50	1	08/01/2019 23:46
trans-1,2-Dichloroethene	ND	0.50	1	08/01/2019 23:46
1,2-Dichloropropane	ND	0.50	1	08/01/2019 23:46
1,3-Dichloropropane	ND	0.50	1	08/01/2019 23:46
2,2-Dichloropropane	ND	0.50	1	08/01/2019 23:46

(Cont.)



## Analytical Report

**Client:** ACC Environmental Consultants, Inc.  
**Date Received:** 7/26/19 15:25  
**Date Prepared:** 8/1/19-8/2/19  
**Project:** 1744-001.00

**WorkOrder:** 1907D02  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L

### Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B5-W	1907D02-005A	Water	07/25/2019 08:50	GC16 08011924.D	182773

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	0.50	1	08/01/2019 23:46
cis-1,3-Dichloropropene	ND	0.50	1	08/01/2019 23:46
trans-1,3-Dichloropropene	ND	0.50	1	08/01/2019 23:46
Diisopropyl ether (DIPE)	ND	0.50	1	08/01/2019 23:46
Ethylbenzene	ND	0.50	1	08/01/2019 23:46
Ethyl tert-butyl ether (ETBE)	ND	0.50	1	08/01/2019 23:46
Freon 113	ND	0.50	1	08/01/2019 23:46
Hexachlorobutadiene	ND	0.50	1	08/01/2019 23:46
Hexachloroethane	ND	0.50	1	08/01/2019 23:46
2-Hexanone	ND	1.0	1	08/01/2019 23:46
Isopropylbenzene	ND	0.50	1	08/01/2019 23:46
4-Isopropyl toluene	ND	0.50	1	08/01/2019 23:46
Methyl-t-butyl ether (MTBE)	ND	0.50	1	08/01/2019 23:46
Methylene chloride	ND	2.0	1	08/01/2019 23:46
4-Methyl-2-pentanone (MIBK)	ND	0.50	1	08/01/2019 23:46
Naphthalene	ND	1.0	1	08/01/2019 23:46
n-Propyl benzene	ND	0.50	1	08/01/2019 23:46
Styrene	ND	2.0	1	08/01/2019 23:46
1,1,1,2-Tetrachloroethane	ND	0.50	1	08/01/2019 23:46
1,1,2,2-Tetrachloroethane	ND	0.50	1	08/01/2019 23:46
Tetrachloroethene	ND	0.50	1	08/01/2019 23:46
Toluene	ND	0.50	1	08/01/2019 23:46
1,2,3-Trichlorobenzene	ND	0.50	1	08/01/2019 23:46
1,2,4-Trichlorobenzene	ND	0.50	1	08/01/2019 23:46
1,1,1-Trichloroethane	ND	0.50	1	08/01/2019 23:46
1,1,2-Trichloroethane	ND	0.50	1	08/01/2019 23:46
Trichloroethene	1.1	0.50	1	08/01/2019 23:46
Trichlorofluoromethane	ND	0.50	1	08/01/2019 23:46
1,2,3-Trichloropropane	ND	0.50	1	08/01/2019 23:46
1,2,4-Trimethylbenzene	ND	0.50	1	08/01/2019 23:46
1,3,5-Trimethylbenzene	ND	0.50	1	08/01/2019 23:46
Vinyl Chloride	ND	0.50	1	08/01/2019 23:46
m,p-Xylene	ND	0.50	1	08/01/2019 23:46
o-Xylene	ND	0.50	1	08/01/2019 23:46
Xylenes, Total	ND	0.50	1	08/01/2019 23:46

(Cont.)





# Analytical Report

**Client:** ACC Environmental Consultants, Inc.  
**Date Received:** 7/26/19 15:25  
**Date Prepared:** 8/1/19-8/2/19  
**Project:** 1744-001.00

**WorkOrder:** 1907D02  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L

## Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B5-W	1907D02-005A	Water	07/25/2019 08:50	GC16 08011924.D	182773

Analytes	Result	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
Dibromofluoromethane	94	78-112		08/01/2019 23:46
Toluene-d8	89	82-109		08/01/2019 23:46
4-BFB	76	63-121		08/01/2019 23:46

Analyst(s): KF



## Analytical Report

**Client:** ACC Environmental Consultants, Inc.  
**Date Received:** 7/26/19 15:25  
**Date Prepared:** 8/1/19-8/2/19  
**Project:** 1744-001.00

**WorkOrder:** 1907D02  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L

### Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B6-W	1907D02-006A	Water	07/25/2019 10:02	GC16 08011925.D	182773

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	10	1	08/02/2019 00:26
tert-Amyl methyl ether (TAME)	ND	0.50	1	08/02/2019 00:26
Benzene	ND	0.50	1	08/02/2019 00:26
Bromobenzene	ND	0.50	1	08/02/2019 00:26
Bromochloromethane	ND	0.50	1	08/02/2019 00:26
Bromodichloromethane	ND	0.50	1	08/02/2019 00:26
Bromoform	ND	0.50	1	08/02/2019 00:26
Bromomethane	ND	0.50	1	08/02/2019 00:26
2-Butanone (MEK)	ND	5.0	1	08/02/2019 00:26
t-Butyl alcohol (TBA)	ND	5.0	1	08/02/2019 00:26
n-Butyl benzene	ND	0.50	1	08/02/2019 00:26
sec-Butyl benzene	ND	0.50	1	08/02/2019 00:26
tert-Butyl benzene	ND	0.50	1	08/02/2019 00:26
Carbon Disulfide	ND	0.50	1	08/02/2019 00:26
Carbon Tetrachloride	ND	0.50	1	08/02/2019 00:26
Chlorobenzene	ND	0.50	1	08/02/2019 00:26
Chloroethane	ND	0.50	1	08/02/2019 00:26
Chloroform	ND	0.50	1	08/02/2019 00:26
Chloromethane	ND	0.50	1	08/02/2019 00:26
2-Chlorotoluene	ND	0.50	1	08/02/2019 00:26
4-Chlorotoluene	ND	0.50	1	08/02/2019 00:26
Dibromochloromethane	ND	0.50	1	08/02/2019 00:26
1,2-Dibromo-3-chloropropane	ND	0.20	1	08/02/2019 00:26
1,2-Dibromoethane (EDB)	ND	0.50	1	08/02/2019 00:26
Dibromomethane	ND	0.50	1	08/02/2019 00:26
1,2-Dichlorobenzene	ND	0.50	1	08/02/2019 00:26
1,3-Dichlorobenzene	ND	0.50	1	08/02/2019 00:26
1,4-Dichlorobenzene	ND	0.50	1	08/02/2019 00:26
Dichlorodifluoromethane	ND	0.50	1	08/02/2019 00:26
1,1-Dichloroethane	ND	0.50	1	08/02/2019 00:26
1,2-Dichloroethane (1,2-DCA)	ND	0.50	1	08/02/2019 00:26
1,1-Dichloroethene	ND	0.50	1	08/02/2019 00:26
cis-1,2-Dichloroethene	<b>2.5</b>	0.50	1	08/02/2019 00:26
trans-1,2-Dichloroethene	ND	0.50	1	08/02/2019 00:26
1,2-Dichloropropane	ND	0.50	1	08/02/2019 00:26
1,3-Dichloropropane	ND	0.50	1	08/02/2019 00:26
2,2-Dichloropropane	ND	0.50	1	08/02/2019 00:26

(Cont.)



## Analytical Report

**Client:** ACC Environmental Consultants, Inc.  
**Date Received:** 7/26/19 15:25  
**Date Prepared:** 8/1/19-8/2/19  
**Project:** 1744-001.00

**WorkOrder:** 1907D02  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L

### Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B6-W	1907D02-006A	Water	07/25/2019 10:02	GC16 08011925.D	182773

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	0.50	1	08/02/2019 00:26
cis-1,3-Dichloropropene	ND	0.50	1	08/02/2019 00:26
trans-1,3-Dichloropropene	ND	0.50	1	08/02/2019 00:26
Diisopropyl ether (DIPE)	ND	0.50	1	08/02/2019 00:26
Ethylbenzene	ND	0.50	1	08/02/2019 00:26
Ethyl tert-butyl ether (ETBE)	ND	0.50	1	08/02/2019 00:26
Freon 113	ND	0.50	1	08/02/2019 00:26
Hexachlorobutadiene	ND	0.50	1	08/02/2019 00:26
Hexachloroethane	ND	0.50	1	08/02/2019 00:26
2-Hexanone	ND	1.0	1	08/02/2019 00:26
Isopropylbenzene	ND	0.50	1	08/02/2019 00:26
4-Isopropyl toluene	ND	0.50	1	08/02/2019 00:26
Methyl-t-butyl ether (MTBE)	ND	0.50	1	08/02/2019 00:26
Methylene chloride	ND	2.0	1	08/02/2019 00:26
4-Methyl-2-pentanone (MIBK)	ND	0.50	1	08/02/2019 00:26
Naphthalene	ND	1.0	1	08/02/2019 00:26
n-Propyl benzene	ND	0.50	1	08/02/2019 00:26
Styrene	ND	2.0	1	08/02/2019 00:26
1,1,1,2-Tetrachloroethane	ND	0.50	1	08/02/2019 00:26
1,1,2,2-Tetrachloroethane	ND	0.50	1	08/02/2019 00:26
Tetrachloroethene	ND	0.50	1	08/02/2019 00:26
Toluene	ND	0.50	1	08/02/2019 00:26
1,2,3-Trichlorobenzene	ND	0.50	1	08/02/2019 00:26
1,2,4-Trichlorobenzene	ND	0.50	1	08/02/2019 00:26
1,1,1-Trichloroethane	ND	0.50	1	08/02/2019 00:26
1,1,2-Trichloroethane	ND	0.50	1	08/02/2019 00:26
Trichloroethene	<b>4.3</b>	0.50	1	08/02/2019 00:26
Trichlorofluoromethane	ND	0.50	1	08/02/2019 00:26
1,2,3-Trichloropropane	ND	0.50	1	08/02/2019 00:26
1,2,4-Trimethylbenzene	ND	0.50	1	08/02/2019 00:26
1,3,5-Trimethylbenzene	ND	0.50	1	08/02/2019 00:26
Vinyl Chloride	ND	0.50	1	08/02/2019 00:26
m,p-Xylene	ND	0.50	1	08/02/2019 00:26
o-Xylene	ND	0.50	1	08/02/2019 00:26
Xylenes, Total	ND	0.50	1	08/02/2019 00:26

(Cont.)



# Analytical Report

**Client:** ACC Environmental Consultants, Inc.  
**Date Received:** 7/26/19 15:25  
**Date Prepared:** 8/1/19-8/2/19  
**Project:** 1744-001.00

**WorkOrder:** 1907D02  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L

## Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B6-W	1907D02-006A	Water	07/25/2019 10:02	GC16 08011925.D	182773

Analytes	Result	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
Dibromofluoromethane	93	78-112		08/02/2019 00:26
Toluene-d8	88	82-109		08/02/2019 00:26
4-BFB	74	63-121		08/02/2019 00:26

Analyst(s): KF



# Analytical Report

**Client:** ACC Environmental Consultants, Inc.  
**Date Received:** 7/26/19 15:25  
**Date Prepared:** 8/1/19-8/2/19  
**Project:** 1744-001.00

**WorkOrder:** 1907D02  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L

## Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B7-W	1907D02-007A	Water	07/25/2019 09:05	GC16 08011926.D	182773

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	10	1	08/02/2019 01:07
tert-Amyl methyl ether (TAME)	ND	0.50	1	08/02/2019 01:07
Benzene	ND	0.50	1	08/02/2019 01:07
Bromobenzene	ND	0.50	1	08/02/2019 01:07
Bromochloromethane	ND	0.50	1	08/02/2019 01:07
Bromodichloromethane	ND	0.50	1	08/02/2019 01:07
Bromoform	ND	0.50	1	08/02/2019 01:07
Bromomethane	ND	0.50	1	08/02/2019 01:07
2-Butanone (MEK)	ND	5.0	1	08/02/2019 01:07
t-Butyl alcohol (TBA)	ND	5.0	1	08/02/2019 01:07
n-Butyl benzene	ND	0.50	1	08/02/2019 01:07
sec-Butyl benzene	ND	0.50	1	08/02/2019 01:07
tert-Butyl benzene	ND	0.50	1	08/02/2019 01:07
Carbon Disulfide	ND	0.50	1	08/02/2019 01:07
Carbon Tetrachloride	ND	0.50	1	08/02/2019 01:07
Chlorobenzene	ND	0.50	1	08/02/2019 01:07
Chloroethane	ND	0.50	1	08/02/2019 01:07
Chloroform	ND	0.50	1	08/02/2019 01:07
Chloromethane	ND	0.50	1	08/02/2019 01:07
2-Chlorotoluene	ND	0.50	1	08/02/2019 01:07
4-Chlorotoluene	ND	0.50	1	08/02/2019 01:07
Dibromochloromethane	ND	0.50	1	08/02/2019 01:07
1,2-Dibromo-3-chloropropane	ND	0.20	1	08/02/2019 01:07
1,2-Dibromoethane (EDB)	ND	0.50	1	08/02/2019 01:07
Dibromomethane	ND	0.50	1	08/02/2019 01:07
1,2-Dichlorobenzene	ND	0.50	1	08/02/2019 01:07
1,3-Dichlorobenzene	ND	0.50	1	08/02/2019 01:07
1,4-Dichlorobenzene	ND	0.50	1	08/02/2019 01:07
Dichlorodifluoromethane	ND	0.50	1	08/02/2019 01:07
1,1-Dichloroethane	ND	0.50	1	08/02/2019 01:07
1,2-Dichloroethane (1,2-DCA)	ND	0.50	1	08/02/2019 01:07
1,1-Dichloroethene	ND	0.50	1	08/02/2019 01:07
cis-1,2-Dichloroethene	15	0.50	1	08/02/2019 01:07
trans-1,2-Dichloroethene	1.7	0.50	1	08/02/2019 01:07
1,2-Dichloropropane	ND	0.50	1	08/02/2019 01:07
1,3-Dichloropropane	ND	0.50	1	08/02/2019 01:07
2,2-Dichloropropane	ND	0.50	1	08/02/2019 01:07

(Cont.)



## Analytical Report

**Client:** ACC Environmental Consultants, Inc.  
**Date Received:** 7/26/19 15:25  
**Date Prepared:** 8/1/19-8/2/19  
**Project:** 1744-001.00

**WorkOrder:** 1907D02  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L

### Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B7-W	1907D02-007A	Water	07/25/2019 09:05	GC16 08011926.D	182773

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	0.50	1	08/02/2019 01:07
cis-1,3-Dichloropropene	ND	0.50	1	08/02/2019 01:07
trans-1,3-Dichloropropene	ND	0.50	1	08/02/2019 01:07
Diisopropyl ether (DIPE)	ND	0.50	1	08/02/2019 01:07
Ethylbenzene	ND	0.50	1	08/02/2019 01:07
Ethyl tert-butyl ether (ETBE)	ND	0.50	1	08/02/2019 01:07
Freon 113	4.4	0.50	1	08/02/2019 01:07
Hexachlorobutadiene	ND	0.50	1	08/02/2019 01:07
Hexachloroethane	ND	0.50	1	08/02/2019 01:07
2-Hexanone	ND	1.0	1	08/02/2019 01:07
Isopropylbenzene	ND	0.50	1	08/02/2019 01:07
4-Isopropyl toluene	ND	0.50	1	08/02/2019 01:07
Methyl-t-butyl ether (MTBE)	0.92	0.50	1	08/02/2019 01:07
Methylene chloride	ND	2.0	1	08/02/2019 01:07
4-Methyl-2-pentanone (MIBK)	ND	0.50	1	08/02/2019 01:07
Naphthalene	ND	1.0	1	08/02/2019 01:07
n-Propyl benzene	ND	0.50	1	08/02/2019 01:07
Styrene	ND	2.0	1	08/02/2019 01:07
1,1,1,2-Tetrachloroethane	ND	0.50	1	08/02/2019 01:07
1,1,2,2-Tetrachloroethane	ND	0.50	1	08/02/2019 01:07
Tetrachloroethene	ND	0.50	1	08/02/2019 01:07
Toluene	ND	0.50	1	08/02/2019 01:07
1,2,3-Trichlorobenzene	ND	0.50	1	08/02/2019 01:07
1,2,4-Trichlorobenzene	ND	0.50	1	08/02/2019 01:07
1,1,1-Trichloroethane	ND	0.50	1	08/02/2019 01:07
1,1,2-Trichloroethane	ND	0.50	1	08/02/2019 01:07
Trichloroethene	23	0.50	1	08/02/2019 01:07
Trichlorofluoromethane	ND	0.50	1	08/02/2019 01:07
1,2,3-Trichloropropane	ND	0.50	1	08/02/2019 01:07
1,2,4-Trimethylbenzene	ND	0.50	1	08/02/2019 01:07
1,3,5-Trimethylbenzene	ND	0.50	1	08/02/2019 01:07
Vinyl Chloride	ND	0.50	1	08/02/2019 01:07
m,p-Xylene	ND	0.50	1	08/02/2019 01:07
o-Xylene	ND	0.50	1	08/02/2019 01:07
Xylenes, Total	ND	0.50	1	08/02/2019 01:07

(Cont.)



# Analytical Report

**Client:** ACC Environmental Consultants, Inc.  
**Date Received:** 7/26/19 15:25  
**Date Prepared:** 8/1/19-8/2/19  
**Project:** 1744-001.00

**WorkOrder:** 1907D02  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L

## Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B7-W	1907D02-007A	Water	07/25/2019 09:05	GC16 08011926.D	182773

Analytes	Result	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
Dibromofluoromethane	92	78-112		08/02/2019 01:07
Toluene-d8	88	82-109		08/02/2019 01:07
4-BFB	73	63-121		08/02/2019 01:07

Analyst(s): KF



## Quality Control Report

**Client:** ACC Environmental Consultants, Inc.  
**Date Prepared:** 8/1/19  
**Date Analyzed:** 8/1/19  
**Instrument:** GC16  
**Matrix:** Water  
**Project:** 1744-001.00

**WorkOrder:** 1907D02  
**BatchID:** 182773  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L  
**Sample ID:** MB/LCS/LCSD-182773  
 1907D02-001AMS/MSD

### QC Summary Report for SW8260B

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
Acetone	ND	5.9	10	-	-	-
tert-Amyl methyl ether (TAME)	ND	0.22	0.50	-	-	-
Benzene	ND	0.051	0.50	-	-	-
Bromobenzene	ND	0.060	0.50	-	-	-
Bromochloromethane	ND	0.090	0.50	-	-	-
Bromodichloromethane	ND	0.20	0.50	-	-	-
Bromoform	ND	0.066	0.50	-	-	-
Bromomethane	0.25,J	0.16	0.50	-	-	-
2-Butanone (MEK)	ND	2.0	5.0	-	-	-
t-Butyl alcohol (TBA)	ND	1.7	5.0	-	-	-
n-Butyl benzene	ND	0.084	0.50	-	-	-
sec-Butyl benzene	ND	0.060	0.50	-	-	-
tert-Butyl benzene	ND	0.050	0.50	-	-	-
Carbon Disulfide	ND	0.28	0.50	-	-	-
Carbon Tetrachloride	ND	0.069	0.50	-	-	-
Chlorobenzene	ND	0.050	0.50	-	-	-
Chloroethane	ND	0.31	0.50	-	-	-
Chloroform	ND	0.064	0.50	-	-	-
Chloromethane	ND	0.13	0.50	-	-	-
2-Chlorotoluene	ND	0.070	0.50	-	-	-
4-Chlorotoluene	ND	0.070	0.50	-	-	-
Dibromochloromethane	ND	0.080	0.50	-	-	-
1,2-Dibromo-3-chloropropane	ND	0.12	0.20	-	-	-
1,2-Dibromoethane (EDB)	ND	0.12	0.50	-	-	-
Dibromomethane	ND	0.080	0.50	-	-	-
1,2-Dichlorobenzene	ND	0.080	0.50	-	-	-
1,3-Dichlorobenzene	ND	0.071	0.50	-	-	-
1,4-Dichlorobenzene	ND	0.072	0.50	-	-	-
Dichlorodifluoromethane	ND	0.063	0.50	-	-	-
1,1-Dichloroethane	ND	0.060	0.50	-	-	-
1,2-Dichloroethane (1,2-DCA)	ND	0.090	0.50	-	-	-
1,1-Dichloroethene	ND	0.086	0.50	-	-	-
cis-1,2-Dichloroethene	ND	0.050	0.50	-	-	-
trans-1,2-Dichloroethene	ND	0.060	0.50	-	-	-
1,2-Dichloropropane	ND	0.055	0.50	-	-	-
1,3-Dichloropropane	ND	0.10	0.50	-	-	-
2,2-Dichloropropane	ND	0.10	0.50	-	-	-
1,1-Dichloropropene	ND	0.060	0.50	-	-	-

(Cont.)





## Quality Control Report

**Client:** ACC Environmental Consultants, Inc.  
**Date Prepared:** 8/1/19  
**Date Analyzed:** 8/1/19  
**Instrument:** GC16  
**Matrix:** Water  
**Project:** 1744-001.00

**WorkOrder:** 1907D02  
**BatchID:** 182773  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L  
**Sample ID:** MB/LCS/LCSD-182773  
 1907D02-001AMS/MSD

### QC Summary Report for SW8260B

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
cis-1,3-Dichloropropene	ND	0.090	0.50	-	-	-
trans-1,3-Dichloropropene	ND	0.070	0.50	-	-	-
Diisopropyl ether (DIPE)	ND	0.070	0.50	-	-	-
Ethylbenzene	ND	0.050	0.50	-	-	-
Ethyl tert-butyl ether (ETBE)	ND	0.070	0.50	-	-	-
Freon 113	ND	0.066	0.50	-	-	-
Hexachlorobutadiene	ND	0.085	0.50	-	-	-
Hexachloroethane	ND	0.060	0.50	-	-	-
2-Hexanone	ND	0.41	1.0	-	-	-
Isopropylbenzene	ND	0.070	0.50	-	-	-
4-Isopropyl toluene	ND	0.050	0.50	-	-	-
Methyl-t-butyl ether (MTBE)	ND	0.10	0.50	-	-	-
Methylene chloride	ND	1.2	2.0	-	-	-
4-Methyl-2-pentanone (MIBK)	ND	0.24	0.50	-	-	-
Naphthalene	ND	0.45	1.0	-	-	-
n-Propyl benzene	ND	0.060	0.50	-	-	-
Styrene	ND	0.59	2.0	-	-	-
1,1,1,2-Tetrachloroethane	ND	0.070	0.50	-	-	-
1,1,2,2-Tetrachloroethane	ND	0.11	0.50	-	-	-
Tetrachloroethene	ND	0.082	0.50	-	-	-
Toluene	ND	0.25	0.50	-	-	-
1,2,3-Trichlorobenzene	ND	0.25	0.50	-	-	-
1,2,4-Trichlorobenzene	ND	0.086	0.50	-	-	-
1,1,1-Trichloroethane	ND	0.050	0.50	-	-	-
1,1,2-Trichloroethane	ND	0.18	0.50	-	-	-
Trichloroethene	ND	0.060	0.50	-	-	-
Trichlorofluoromethane	ND	0.047	0.50	-	-	-
1,2,3-Trichloropropane	ND	0.14	0.50	-	-	-
1,2,4-Trimethylbenzene	ND	0.065	0.50	-	-	-
1,3,5-Trimethylbenzene	ND	0.070	0.50	-	-	-
Vinyl Chloride	ND	0.070	0.50	-	-	-
m,p-Xylene	ND	0.11	0.50	-	-	-
o-Xylene	ND	0.060	0.50	-	-	-

(Cont.)



## Quality Control Report

**Client:** ACC Environmental Consultants, Inc.  
**Date Prepared:** 8/1/19  
**Date Analyzed:** 8/1/19  
**Instrument:** GC16  
**Matrix:** Water  
**Project:** 1744-001.00

**WorkOrder:** 1907D02  
**BatchID:** 182773  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L  
**Sample ID:** MB/LCS/LCSD-182773  
 1907D02-001AMS/MSD

### QC Summary Report for SW8260B

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
<b>Surrogate Recovery</b>						
Dibromofluoromethane	24			25	95	76-110
Toluene-d8	22			25	89	84-111
4-BFB	1.9			2.5	77	64-121



## Quality Control Report

**Client:** ACC Environmental Consultants, Inc.  
**Date Prepared:** 8/1/19  
**Date Analyzed:** 8/1/19  
**Instrument:** GC16  
**Matrix:** Water  
**Project:** 1744-001.00

**WorkOrder:** 1907D02  
**BatchID:** 182773  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L  
**Sample ID:** MB/LCS/LCSD-182773  
 1907D02-001AMS/MSD

### QC Summary Report for SW8260B

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Acetone	30	34	40	74	84	32-138	12.6	20
tert-Amyl methyl ether (TAME)	3.0	3.4	4	75	85	62-119	13.4	20
Benzene	3.2	3.5	4	79	88	71-126	11.5	20
Bromobenzene	2.8	3.1	4	69	77	66-117	10.7	20
Bromochloromethane	3.1	3.6	4	78	90	67-124	14.8	20
Bromodichloromethane	3.1	3.4	4	77	86	63-119	11.3	20
Bromoform	2.5	3.0	4	63	74	46-117	15.3	20
Bromomethane	4.5	5.0	4	114	126	32-171	9.96	20
2-Butanone (MEK)	12	14	16	77	88	48-136	13.6	20
t-Butyl alcohol (TBA)	12	13	16	73	82	40-131	12.2	20
n-Butyl benzene	3.4	3.7	4	84	92	75-125	9.30	20
sec-Butyl benzene	3.3	3.8	4	84	94	72-120	11.4	20
tert-Butyl benzene	2.8	3.1	4	69	79	63-118	12.8	20
Carbon Disulfide	3.3	3.7	4	82	91	64-126	11.4	20
Carbon Tetrachloride	2.9	3.3	4	73	83	67-122	12.7	20
Chlorobenzene	3.1	3.4	4	76	85	71-117	10.5	20
Chloroethane	3.8	4.2	4	95	104	53-136	9.21	20
Chloroform	3.1	3.5	4	78	88	67-126	11.6	20
Chloromethane	4.1	4.4	4	102	109	42-148	6.52	20
2-Chlorotoluene	3.1	3.5	4	77	86	70-117	11.4	20
4-Chlorotoluene	2.9	3.2	4	72	79	67-117	9.01	20
Dibromochloromethane	2.7	3.0	4	68	76	52-120	12.0	20
1,2-Dibromo-3-chloropropane	1.2	1.4	2	62	68	38-128	8.54	20
1,2-Dibromoethane (EDB)	1.4	1.5	2	70	77	58-117	9.61	20
Dibromomethane	3.0	3.3	4	74	83	66-120	12.1	20
1,2-Dichlorobenzene	2.9	3.3	4	73	81	71-117	11.0	20
1,3-Dichlorobenzene	3.2	3.6	4	80	89	74-116	10.6	20
1,4-Dichlorobenzene	3.1	3.4	4	77	86	71-115	10.8	20
Dichlorodifluoromethane	4.3	4.5	4	106	111	29-145	4.66	20
1,1-Dichloroethane	3.1	3.5	4	78	89	68-128	12.7	20
1,2-Dichloroethane (1,2-DCA)	3.0	3.4	4	75	84	61-123	12.1	20
1,1-Dichloroethene	3.0	3.3	4	75	83	65-126	10.9	20
cis-1,2-Dichloroethene	3.1	3.5	4	78	86	71-122	10.5	20
trans-1,2-Dichloroethene	3.1	3.4	4	76	85	70-126	10.6	20
1,2-Dichloropropane	3.1	3.5	4	78	87	67-124	11.8	20
1,3-Dichloropropane	2.9	3.3	4	72	82	65-120	13.3	20
2,2-Dichloropropane	3.3	3.8	4	84	94	71-127	11.5	20
1,1-Dichloropropene	3.1	3.5	4	78	88	69-122	12.7	20

(Cont.)



## Quality Control Report

**Client:** ACC Environmental Consultants, Inc.  
**Date Prepared:** 8/1/19  
**Date Analyzed:** 8/1/19  
**Instrument:** GC16  
**Matrix:** Water  
**Project:** 1744-001.00

**WorkOrder:** 1907D02  
**BatchID:** 182773  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L  
**Sample ID:** MB/LCS/LCSD-182773  
 1907D02-001AMS/MSD

### QC Summary Report for SW8260B

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
cis-1,3-Dichloropropene	2.9	3.3	4	74	81	63-119	10.0	20
trans-1,3-Dichloropropene	3.0	3.4	4	75	85	63-116	11.7	20
Diisopropyl ether (DIPE)	3.2	3.7	4	81	94	64-128	14.6	20
Ethylbenzene	3.0	3.4	4	76	84	69-120	10.2	20
Ethyl tert-butyl ether (ETBE)	3.1	3.6	4	77	90	63-120	14.7	20
Freon 113	3.0	3.3	4	75	84	67-126	11.2	20
Hexachlorobutadiene	2.7	3.0	4	67	76	50-140	12.4	20
Hexachloroethane	2.7	3.1	4	68	77	52-122	12.4	20
2-Hexanone	2.6	3.2	4	65	80	39-121	20.4,F2	20
Isopropylbenzene	3.0	3.4	4	76	85	69-120	11.6	20
4-Isopropyl toluene	3.3	3.6	4	82	91	72-122	10.2	20
Methyl-t-butyl ether (MTBE)	3.0	3.5	4	75	87	60-121	14.7	20
Methylene chloride	2.9	3.3	4	73	81	40-148	10.3	20
4-Methyl-2-pentanone (MIBK)	2.7	3.1	4	68	77	48-115	12.5	20
Naphthalene	3.5	3.7	4	88	93	62-124	5.57	20
n-Propyl benzene	3.1	3.4	4	76	85	70-118	11.3	20
Styrene	2.9	3.2	4	73	80	57-118	8.95	20
1,1,1,2-Tetrachloroethane	2.7	3.1	4	68	78	63-117	12.9	20
1,1,2,2-Tetrachloroethane	2.7	3.0	4	67	76	60-116	12.9	20
Tetrachloroethene	2.8	3.1	4	70	78	60-131	10.9	20
Toluene	2.9	3.3	4	73	82	67-115	11.2	20
1,2,3-Trichlorobenzene	3.1	3.3	4	78	83	60-128	6.63	20
1,2,4-Trichlorobenzene	3.3	3.5	4	82	87	61-133	5.33	20
1,1,1-Trichloroethane	3.0	3.4	4	76	86	67-124	12.8	20
1,1,2-Trichloroethane	2.8	3.1	4	70	78	62-117	10.5	20
Trichloroethene	3.0	3.3	4	74	83	69-120	10.4	20
Trichlorofluoromethane	3.1	3.5	4	78	87	60-134	11.3	20
1,2,3-Trichloropropane	1.2	1.4	2	61	70	56-120	14.5	20
1,2,4-Trimethylbenzene	3.2	3.6	4	80	90	67-124	11.2	20
1,3,5-Trimethylbenzene	3.2	3.6	4	80	91	69-122	12.7	20
Vinyl Chloride	2.3	2.5	2	115	126	52-145	8.66	20
m,p-Xylene	5.9	6.6	8	74	82	67-119	11.1	20
o-Xylene	3.2	3.6	4	80	89	68-120	9.98	20

(Cont.)



## Quality Control Report

**Client:** ACC Environmental Consultants, Inc.  
**Date Prepared:** 8/1/19  
**Date Analyzed:** 8/1/19  
**Instrument:** GC16  
**Matrix:** Water  
**Project:** 1744-001.00

**WorkOrder:** 1907D02  
**BatchID:** 182773  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L  
**Sample ID:** MB/LCS/LCSD-182773  
 1907D02-001AMS/MSD

### QC Summary Report for SW8260B

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
<b>Surrogate Recovery</b>								
Dibromofluoromethane	24	24	25	94	96	76-110	1.34	20
Toluene-d8	22	22	25	90	89	84-111	1.05	20
4-BFB	1.9	2.0	2.5	78	79	64-121	1.83	20

Analyte	MS DF	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Acetone	1	39	44	40	ND	98	110	32-183	11.4	20
tert-Amyl methyl ether (TAME)	1	4.1	4.3	4	ND	102	108	52-152	5.81	20
Benzene	1	3.9	4.1	4	ND	98	103	62-143	4.64	20
Bromobenzene	1	3.4	3.5	4	ND	86	88	52-139	2.04	20
Bromochloromethane	1	4.0	4.3	4	ND	101	107	53-154	5.86	20
Bromodichloromethane	1	3.9	4.1	4	ND	98	102	49-147	3.47	20
Bromoform	1	3.4	3.8	4	ND	86	94	32-153	9.58	20
Bromomethane	1	4.6	5.0	4	ND	114	124	18-181	7.96	20
2-Butanone (MEK)	1	15	17	16	ND	95	107	46-173	12.3	20
t-Butyl alcohol (TBA)	1	15	17	16	ND	91	106	25-198	15.1	20
n-Butyl benzene	1	3.9	4.0	4	ND	97	101	53-147	4.00	20
sec-Butyl benzene	1	4.1	4.3	4	ND	103	108	54-138	4.68	20
tert-Butyl benzene	1	3.4	3.6	4	ND	85	91	48-134	6.37	20
Carbon Disulfide	1	3.6	3.8	4	ND	90	94	46-148	5.26	20
Carbon Tetrachloride	1	3.6	3.8	4	ND	89	94	50-143	5.36	20
Chlorobenzene	1	3.8	3.9	4	ND	95	98	56-139	3.19	20
Chloroethane	1	4.3	4.4	4	ND	106	111	31-158	3.88	20
Chloroform	1	4.0	4.1	4	ND	98	102	38-161	4.27	20
Chloromethane	1	3.8	4.0	4	ND	95	100	24-158	4.90	20
2-Chlorotoluene	1	3.9	4.0	4	ND	97	101	53-136	4.12	20
4-Chlorotoluene	1	3.5	3.6	4	ND	89	91	51-136	2.73	20
Dibromochloromethane	1	3.5	3.6	4	ND	86	91	55-135	4.88	20
1,2-Dibromo-3-chloropropane	1	1.6	1.7	2	ND	79	86	26-168	8.70	20
1,2-Dibromoethane (EDB)	1	1.7	1.8	2	ND	87	91	50-146	4.54	20
Dibromomethane	1	3.9	4.1	4	ND	98	102	54-152	3.77	20
1,2-Dichlorobenzene	1	3.6	3.7	4	ND	91	93	55-143	2.16	20
1,3-Dichlorobenzene	1	4.1	4.2	4	ND	101	106	56-139	4.11	20
1,4-Dichlorobenzene	1	3.8	3.9	4	ND	94	99	54-138	4.64	20
Dichlorodifluoromethane	1	2.6	2.7	4	ND	66	68	15-152	3.51	20

(Cont.)



## Quality Control Report

**Client:** ACC Environmental Consultants, Inc.  
**Date Prepared:** 8/1/19  
**Date Analyzed:** 8/1/19  
**Instrument:** GC16  
**Matrix:** Water  
**Project:** 1744-001.00

**WorkOrder:** 1907D02  
**BatchID:** 182773  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L  
**Sample ID:** MB/LCS/LCSD-182773  
 1907D02-001AMS/MSD

### QC Summary Report for SW8260B

Analyte	MS DF	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
1,1-Dichloroethane	1	3.9	4.1	4	ND	98	103	52-151	5.12	20
1,2-Dichloroethane (1,2-DCA)	1	3.9	4.1	4	ND	97	103	46-154	5.81	20
1,1-Dichloroethene	1	3.4	3.6	4	ND	86	91	47-149	6.11	20
cis-1,2-Dichloroethene	1	4.2	4.5	4	ND	97	103	41-158	6.17	20
trans-1,2-Dichloroethene	1	3.8	4.0	4	ND	92	98	51-151	6.05	20
1,2-Dichloropropane	1	4.0	4.2	4	ND	100	104	52-150	3.90	20
1,3-Dichloropropane	1	3.7	4.0	4	ND	94	99	53-149	5.84	20
2,2-Dichloropropane	1	4.2	4.2	4	ND	104	106	51-150	1.77	20
1,1-Dichloropropene	1	3.9	4.0	4	ND	97	101	53-142	4.73	20
cis-1,3-Dichloropropene	1	3.7	3.8	4	ND	91	95	49-143	4.27	20
trans-1,3-Dichloropropene	1	3.8	4.0	4	ND	96	100	49-145	4.21	20
Diisopropyl ether (DIPE)	1	4.3	4.5	4	ND	107	113	51-155	5.43	20
Ethylbenzene	1	3.8	3.9	4	ND	94	97	63-130	3.77	20
Ethyl tert-butyl ether (ETBE)	1	4.2	4.5	4	ND	105	112	50-153	5.93	20
Freon 113	1	3.4	3.6	4	ND	85	90	50-146	5.59	20
Hexachlorobutadiene	1	3.1	3.0	4	ND	78	76	30-163	3.31	20
Hexachloroethane	1	3.4	3.4	4	ND	85	85	26-157	0	20
2-Hexanone	1	3.6	4.2	4	ND	90	106	21-180	16.0	20
Isopropylbenzene	1	3.8	3.9	4	ND	94	96	50-140	2.46	20
4-Isopropyl toluene	1	3.9	4.1	4	ND	96	102	53-142	5.79	20
Methyl-t-butyl ether (MTBE)	1	4.2	4.5	4	ND	101	110	51-157	7.61	20
Methylene chloride	1	3.5	3.7	4	ND	88	93	23-177	5.20	20
4-Methyl-2-pentanone (MIBK)	1	3.8	4.0	4	ND	94	101	43-155	7.19	20
Naphthalene	1	3.9	4.3	4	ND	98	107	47-166	9.16	20
n-Propyl benzene	1	3.7	3.9	4	ND	93	97	45-146	4.17	20
Styrene	1	3.8	3.8	4	ND	94	96	26-150	2.02	20
1,1,1,2-Tetrachloroethane	1	3.5	3.8	4	ND	88	94	49-141	6.53	20
1,1,2,2-Tetrachloroethane	1	3.5	3.7	4	ND	87	92	44-159	5.02	20
Tetrachloroethene	1	3.7	3.6	4	ND	88	88	22-164	0	20
Toluene	1	3.6	3.7	4	ND	90	93	50-135	3.99	20
1,2,3-Trichlorobenzene	1	3.7	3.7	4	ND	93	92	40-165	0.339	20
1,2,4-Trichlorobenzene	1	3.9	3.9	4	ND	96	98	44-162	1.82	20
1,1,1-Trichloroethane	1	3.7	3.9	4	ND	93	99	51-144	6.18	20
1,1,2-Trichloroethane	1	3.6	3.8	4	ND	90	95	50-149	5.44	20
Trichloroethene	1	4.2	4.3	4	ND	92	95	33-159	2.82	20
Trichlorofluoromethane	1	3.3	3.6	4	ND	83	90	47-151	7.03	20
1,2,3-Trichloropropane	1	1.6	1.7	2	ND	80	85	45-158	5.90	20
1,2,4-Trimethylbenzene	1	3.9	4.1	4	ND	97	102	61-132	4.72	20

(Cont.)



## Quality Control Report

**Client:** ACC Environmental Consultants, Inc.  
**Date Prepared:** 8/1/19  
**Date Analyzed:** 8/1/19  
**Instrument:** GC16  
**Matrix:** Water  
**Project:** 1744-001.00

**WorkOrder:** 1907D02  
**BatchID:** 182773  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L  
**Sample ID:** MB/LCS/LCSD-182773  
 1907D02-001AMS/MSD

### QC Summary Report for SW8260B

Analyte	MS DF	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
1,3,5-Trimethylbenzene	1	3.9	4.0	4	ND	98	101	35-159	3.33	20
Vinyl Chloride	1	2.4	2.5	2	ND	121	126	34-161	4.26	20
m,p-Xylene	1	7.4	7.7	8	ND	93	96	63-126	4.12	20
o-Xylene	1	4.1	4.3	4	ND	102	107	43-153	4.88	20
<b>Surrogate Recovery</b>										
Dibromofluoromethane	1	24	24	25		96	97	78-112	1.54	20
Toluene-d8	1	22	22	25		87	87	82-109	0	20
4-BFB	1	1.9	1.9	2.5		77	76	63-121	2.31	20



1534 Willow Pass Rd  
Pittsburg, CA 94565-1701  
(925) 252-9262

# CHAIN-OF-CUSTODY RECORD

WorkOrder: 1907D02

ClientCode: ACCE

- WaterTrax   
  WriteOn   
  EDF   
  Excel   
  EQulS   
  Email   
  HardCopy   
  ThirdParty   
  J-flag  
 Detection Summary   
  Dry-Weight

**Report to:**

Kim Bunting  
ACC Environmental Consultants, Inc.  
7977 Capwell Drive , Suite 100  
Oakland, CA 94621  
(510) 638-8400    FAX: (510) 638-8404

Email: isutherland@accenv.com; kbunting@accenv.com  
cc/3rd Party:  
PO:  
Project: 1744-001.00

**Bill to:**

Accounts Payable  
ACC Environmental Consultants, Inc.  
7977 Capwell Drive , Suite 100  
Oakland, CA 94621  
cindy.lee@accenv.com

**Requested TAT: 5 days;**

**Date Received: 07/26/2019**

**Date Logged: 07/26/2019**

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)												
					1	2	3	4	5	6	7	8	9	10	11	12	
1907D02-001	B1-W	Water	7/25/2019 10:25	<input type="checkbox"/>	A												
1907D02-002	B2-W	Water	7/25/2019 10:50	<input type="checkbox"/>	A												
1907D02-003	B3-W	Water	7/25/2019 11:08	<input type="checkbox"/>	A												
1907D02-004	B4-W	Water	7/25/2019 09:27	<input type="checkbox"/>	A												
1907D02-005	B5-W	Water	7/25/2019 08:50	<input type="checkbox"/>	A												
1907D02-006	B6-W	Water	7/25/2019 10:02	<input type="checkbox"/>	A												
1907D02-007	B7-W	Water	7/25/2019 09:05	<input type="checkbox"/>	A												

**Test Legend:**

1	8260B_W	2		3		4	
5		6		7		8	
9		10		11		12	

**Project Manager: Rosa Venegas**

**Prepared by: Lilly Ortiz**

**Comments:**

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days). Hazardous samples will be returned to client or disposed of at client expense.





### WORK ORDER SUMMARY

**Client Name:** ACC ENVIRONMENTAL CONSULTANTS, INC.

**Project:** 1744-001.00

**Work Order:** 1907D02

**Client Contact:** Kim Bunting

**QC Level:** LEVEL 2

**Contact's Email:** isutherland@accenv.com; kbunting@accenv.com

**Comments**

**Date Logged:** 7/26/2019

WaterTrax     WriteOn     EDF     Excel     EQUIS     Email     HardCopy     ThirdParty     J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1907D02-001A	B1-W	Water	SW8260B (VOCs)	2	VOA w/ HCl	<input type="checkbox"/>	7/25/2019 10:25	5 days	Present	<input type="checkbox"/>	
1907D02-002A	B2-W	Water	SW8260B (VOCs)	2	VOA w/ HCl	<input type="checkbox"/>	7/25/2019 10:50	5 days	Present	<input type="checkbox"/>	
1907D02-003A	B3-W	Water	SW8260B (VOCs)	2	VOA w/ HCl	<input type="checkbox"/>	7/25/2019 11:08	5 days	Present	<input type="checkbox"/>	
1907D02-004A	B4-W	Water	SW8260B (VOCs)	2	VOA w/ HCl	<input type="checkbox"/>	7/25/2019 9:27	5 days	Present	<input type="checkbox"/>	
1907D02-005A	B5-W	Water	SW8260B (VOCs)	2	VOA w/ HCl	<input type="checkbox"/>	7/25/2019 8:50	5 days	Present	<input type="checkbox"/>	
1907D02-006A	B6-W	Water	SW8260B (VOCs)	2	VOA w/ HCl	<input type="checkbox"/>	7/25/2019 10:02	5 days	Present	<input type="checkbox"/>	
1907D02-007A	B7-W	Water	SW8260B (VOCs)	2	VOA w/ HCl	<input type="checkbox"/>	7/25/2019 9:05	5 days	Present	<input type="checkbox"/>	

**NOTES:** - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

1907202



**MCCAMPBELL ANALYTICAL, INC.**

1534 Willow Pass Rd. Pittsburg, Ca. 94565-1701  
 Telephone: (877) 252-9262 / Fax: (925) 252-9269  
 www.mccampbell.com      main@mccampbell.com

Report To: Kim Ranting      Bill To: ACC

Company: ACC ENVIRONMENTAL CONSULTANTS

Address: 1534 Willow Pass Rd. Pittsburg, Ca. 94565-1701

Email: kranting@accenv.com      Tele: 510-6038-8423x118

Project Name: \_\_\_\_\_      Project #: 1744-001-00

Project Location: 3705 Heaven Ave Maple Park PO #

Sampler Signature: [Signature]

SAMPLE ID Location / Field Point	Sampling		#Containers	Matrix	Preservative	Multi Range as Gas, Diesel, and Motor Oil (8021/8015)	BTX & TPH as Gas (8021/ 8015) MTBE	TPH as Diesel (8015) + Motor Oil Without Silica Gel	TPH as Diesel (8015) + Motor Oil With Silica Gel	Total Oil & Grease (1664 / 9071) Without Silica Gel	Total Petroleum Hydrocarbons - Oil & Grease (1664 / 9071) With Silica Gel	Total Petroleum Hydrocarbons (418.1) With Silica Gel	EPA 505/ 608 / 8081 (CI Pesticides)	EPA 608 / 8082 PCB's ; Aroclors only	EPA 524.2 / 624 / 8260 (VOCs)	EPA 525.2 / 625 / 8270 (SVOCs)	EPA 8270 SIM / 8310 (PAHs / PNAs)	CAM 17 Metals (200.8 / 6020)*	Metals (200.8 / 6020)*	Baylands Requirements	Lab to filter sample for dissolved metals analysis	
	Date	Time																				
B1-W	7/25	10:25	2	GLD	1,2																	
B2-W	7/25	10:50	2	GLD	1																	
B3-W	7/25	11:08	2	GLD	1																	
B4-W	7/25	9:27	2	GLD	1,2																	
B5-W	7/25	8:50	2	GLD	1,2																	
B6-W	7/25	10:02	2	GLD	1,2																	
B7-W	7/25	9:05	2	GLD	1,2																	

MAI clients MUST disclose any dangerous chemicals known to be present in their submitted samples in concentrations that may cause immediate harm or serious future health endangerment as a result of brief, gloved, open air, sample handling by MAI staff. Non-disclosure incurs an immediate \$250 surcharge and the client is subject to full legal liability for harm suffered. Thank you for your understanding and for allowing us to work safely.

\* If metals are requested for water samples and the water type (Matrix) is not specified on the chain of custody, MAI will default to metals by E200.8.

Please provide an adequate volume of sample. If the volume is not sufficient for a MS/MSD a LCS/LCSD will be prepared in its place and noted in the report.

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
<u>[Signature]</u>	7/24	12:00	<u>[Signature]</u>	7/26/19	0945
<u>[Signature]</u>	7/24	1525	<u>[Signature]</u>	7/26/19	1525

Matrix Code: DW=Drinking Water, GW=Ground Water, WW=Waste Water, SW=Seawater, S=Soil, SL=Sludge, A=Air, WP=Wipe, O=Other  
 Preservative Code: 1=4°C    2=HCl    3=H<sub>2</sub>SO<sub>4</sub>    4=HNO<sub>3</sub>    5=NaOH    6=ZnOAc/NaOH    7=None

Comments / Instructions

Temp 18°C Initials zo



## Sample Receipt Checklist

Client Name: **ACC Environmental Consultants, Inc.**  
 Project: **1744-001.00**  
 WorkOrder No: **1907D02** Matrix: Water  
 Carrier: Lorenzo Perez (MAI Courier)

Date and Time Received: **7/26/2019 15:25**  
 Date Logged: **7/26/2019**  
 Received by: Lilly Ortiz  
 Logged by: Lilly Ortiz

### Chain of Custody (COC) Information

Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample IDs noted by Client on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Date and Time of collection noted by Client on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sampler's name noted on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
COC agrees with Quote?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>

### Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper containers/bottles?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	

### Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	NA <input type="checkbox"/>
Samples Received on Ice?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	

(Ice Type: WET ICE )

Sample/Temp Blank temperature	Temp: 0.2°C		NA <input type="checkbox"/>
Water - VOA vials have zero headspace / no bubbles?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	NA <input type="checkbox"/>
Sample labels checked for correct preservation?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
pH acceptable upon receipt (Metal: <2; Nitrate 353.2/4500NO3: <2; 522: <4; 218.7: >8)?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>

UCMR Samples:

pH tested and acceptable upon receipt (200.8: ≤2; 525.3: ≤4; 530: ≤7; 541: <3; 544: <6.5 & 7.5)?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
Free Chlorine tested and acceptable upon receipt (<0.1mg/L)?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>

-----  
 Comments:

9/26/2019

Ms. Kim Bunting  
ACC Environmental Consultants  
7977 Capwell Drive  
Suite 100  
Oakland CA 94621

Project Name: 3705 Haven Ave  
Project #: 1744-001-01  
Workorder #: 1909272

Dear Ms. Kim Bunting

The following report includes the data for the above referenced project for sample(s) received on 9/13/2019 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-15 SIM are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics Inc. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Sarah Westerman at 916-985-1000 if you have any questions regarding the data in this report.

Regards,



Sarah Westerman  
Project Manager

**WORK ORDER #: 1909272**

Work Order Summary

<b>CLIENT:</b>	Ms. Kim Bunting ACC Environmental Consultants 7977 Capwell Drive Suite 100 Oakland, CA 94621	<b>BILL TO:</b>	Ms. Kim Bunting ACC Environmental Consultants 7977 Capwell Drive Suite 100 Oakland, CA 94621
<b>PHONE:</b>	510-638-8400	<b>P.O. #</b>	
<b>FAX:</b>	510-638-8404	<b>PROJECT #</b>	1744-001-01 3705 Haven Ave
<b>DATE RECEIVED:</b>	09/13/2019	<b>CONTACT:</b>	Sarah Westerman
<b>DATE COMPLETED:</b>	09/26/2019		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
01A	IA1	Modified TO-15 SIM	5.0 "Hg	5 psi
02A	IA2	Modified TO-15 SIM	6.0 "Hg	5 psi
03A	IA3	Modified TO-15 SIM	5.5 "Hg	5 psi
04A	IA4	Modified TO-15 SIM	6.0 "Hg	5 psi
05A	Lab Blank	Modified TO-15 SIM	NA	NA
06A	CCV	Modified TO-15 SIM	NA	NA
07A	LCS	Modified TO-15 SIM	NA	NA
07AA	LCSD	Modified TO-15 SIM	NA	NA

CERTIFIED BY:   
 \_\_\_\_\_  
 Technical Director

DATE: 09/26/19

Certification numbers: AZ Licensure AZ0775, FL NELAP – E87680, LA NELAP – 02089, NH NELAP - 209218, NJ NELAP - CA016, NY NELAP - 11291, TX NELAP - T104704434-18-13, UT NELAP – CA009332019-11, VA NELAP - 460197, WA NELAP - C935

Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)

Accreditation number: CA300005-011, Effective date: 10/18/2018, Expiration date: 10/17/2019.

Eurofins Air Toxics Inc.. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Eurofins Air Toxics, Inc.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630

(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020



**LABORATORY NARRATIVE  
Modified TO-15 SIM  
ACC Environmental Consultants  
Workorder# 1909272**

Four 6 Liter Summa Canister (100% SIM Ambient) samples were received on September 13, 2019. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the SIM acquisition mode.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

<i>Requirement</i>	<i>TO-15</i>	<i>ATL Modifications</i>
ICAL %RSD acceptance criteria	<math>\leq 30\%</math> RSD with 2 compounds allowed out to <math>< 40\%</math> RSD	Project specific; default criteria is <math>\leq 30\%</math> RSD with 10% of compounds allowed out to <math>< 40\%</math> RSD
Daily Calibration	+/- 30% Difference	Project specific; default criteria is <math>\leq 30\%</math> Difference with 10% of compounds allowed out up to <math>\leq 40\%</math>.; flag and narrate outliers
Blank and standards	Zero air	Nitrogen
Method Detection Limit	Follow 40CFR Pt.136 App. B	The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases

**Receiving Notes**

The Chain of Custody (COC) information for sample IA2 did not match the information on the canister with regard to canister barcode. The sample labeled 6L0886 on the COC is labeled as 6L0880 on the canister. The client was notified of the discrepancy and the information on the canister was used to process and report the sample.

**Analytical Notes**

As per client project requirements, the laboratory has reported estimated values for target compound hits that are below the Reporting Limit but greater than the Method Detection Limit. Concentrations that are below the level at which the canister was certified may be false positives.

**Definition of Data Qualifying Flags**

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

- B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).
- J - Estimated value.
- E - Exceeds instrument calibration range.
- S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit, LOD, or MDL value. See data page for project specific U-flag definition.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

MODIFIED EPA METHOD TO-15 GC/MS SIM  
3705 Haven Ave

<b>Client ID:</b>	IA1	<b>Date/Time Analyzed:</b>	9/17/19 07:48 PM
<b>Lab ID:</b>	1909272-01A	<b>Dilution Factor:</b>	1.61
<b>Date/Time Collected:</b>	9/10/19 04:32 PM	<b>Instrument/File name:</b>	msd20.i / 20091717sim
<b>Media:</b>	6 Liter Summa Canister (100% SIM Ambient)		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
cis-1,2-Dichloroethene	156-59-2	0.022	0.038	0.13	Not Detected
Tetrachloroethene	127-18-4	0.018	0.066	0.22	0.96
trans-1,2-Dichloroethene	156-60-5	0.028	0.038	0.64	0.033 J
Trichloroethene	79-01-6	0.017	0.052	0.17	0.096 J
Vinyl Chloride	75-01-4	0.010	0.025	0.041	Not Detected

J = Estimated value.

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	100
4-Bromofluorobenzene	460-00-4	70-130	91
Toluene-d8	2037-26-5	70-130	100





Air Toxics

MODIFIED EPA METHOD TO-15 GC/MS SIM  
3705 Haven Ave

<b>Client ID:</b>	IA2	<b>Date/Time Analyzed:</b>	9/17/19 09:04 PM
<b>Lab ID:</b>	1909272-02A	<b>Dilution Factor:</b>	1.68
<b>Date/Time Collected:</b>	9/10/19 04:35 PM	<b>Instrument/File name:</b>	msd20.i / 20091718sim
<b>Media:</b>	6 Liter Summa Canister (100% SIM Ambient)		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
cis-1,2-Dichloroethene	156-59-2	0.023	0.040	0.13	Not Detected
Tetrachloroethene	127-18-4	0.019	0.068	0.23	0.85
trans-1,2-Dichloroethene	156-60-5	0.029	0.040	0.67	Not Detected
Trichloroethene	79-01-6	0.018	0.054	0.18	0.070 J
Vinyl Chloride	75-01-4	0.011	0.026	0.043	Not Detected

J = Estimated value.  
D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	101
4-Bromofluorobenzene	460-00-4	70-130	94
Toluene-d8	2037-26-5	70-130	101



Air Toxics

MODIFIED EPA METHOD TO-15 GC/MS SIM  
3705 Haven Ave

<b>Client ID:</b>	IA3	<b>Date/Time Analyzed:</b>	9/17/19 11:01 PM
<b>Lab ID:</b>	1909272-03A	<b>Dilution Factor:</b>	1.64
<b>Date/Time Collected:</b>	9/10/19 04:37 PM	<b>Instrument/File name:</b>	msd20.i / 20091721sim
<b>Media:</b>	6 Liter Summa Canister (100% SIM Ambient)		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
cis-1,2-Dichloroethene	156-59-2	0.022	0.039	0.13	Not Detected
Tetrachloroethene	127-18-4	0.019	0.067	0.22	0.87
trans-1,2-Dichloroethene	156-60-5	0.028	0.039	0.65	Not Detected
Trichloroethene	79-01-6	0.017	0.053	0.18	0.079 J
Vinyl Chloride	75-01-4	0.011	0.025	0.042	Not Detected

J = Estimated value.

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	100
4-Bromofluorobenzene	460-00-4	70-130	95
Toluene-d8	2037-26-5	70-130	100

MODIFIED EPA METHOD TO-15 GC/MS SIM  
3705 Haven Ave

<b>Client ID:</b>	IA4	<b>Date/Time Analyzed:</b>	9/17/19 11:40 PM
<b>Lab ID:</b>	1909272-04A	<b>Dilution Factor:</b>	1.68
<b>Date/Time Collected:</b>	9/10/19 04:47 PM	<b>Instrument/File name:</b>	msd20.i / 20091722.sim
<b>Media:</b>	6 Liter Summa Canister (100% SIM Ambient)		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
cis-1,2-Dichloroethene	156-59-2	0.023	0.040	0.13	Not Detected
Tetrachloroethene	127-18-4	0.019	0.068	0.23	0.046 J
trans-1,2-Dichloroethene	156-60-5	0.029	0.040	0.67	Not Detected
Trichloroethene	79-01-6	0.018	0.054	0.18	Not Detected
Vinyl Chloride	75-01-4	0.011	0.026	0.043	Not Detected

J = Estimated value.

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	103
4-Bromofluorobenzene	460-00-4	70-130	87
Toluene-d8	2037-26-5	70-130	103

MODIFIED EPA METHOD TO-15 GC/MS SIM  
3705 Haven Ave

<b>Client ID:</b>	Lab Blank	<b>Date/Time Analyzed:</b>	9/17/19 11:50 AM
<b>Lab ID:</b>	1909272-05A	<b>Dilution Factor:</b>	1.00
<b>Date/Time Collected:</b>	NA - Not Applicable	<b>Instrument/File name:</b>	msd20.i / 20091706sima
<b>Media:</b>	NA - Not Applicable		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
cis-1,2-Dichloroethene	156-59-2	0.014	0.024	0.079	Not Detected
Tetrachloroethene	127-18-4	0.011	0.041	0.14	0.037 J
trans-1,2-Dichloroethene	156-60-5	0.017	0.024	0.40	Not Detected
Trichloroethene	79-01-6	0.010	0.032	0.11	Not Detected
Vinyl Chloride	75-01-4	0.0065	0.015	0.026	Not Detected

J = Estimated value.

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	104
4-Bromofluorobenzene	460-00-4	70-130	86
Toluene-d8	2037-26-5	70-130	104



Air Toxics

MODIFIED EPA METHOD TO-15 GC/MS SIM  
3705 Haven Ave

<b>Client ID:</b> CCV	<b>Date/Time Analyzed:</b> 9/17/19 08:35 AM
<b>Lab ID:</b> 1909272-06A	<b>Dilution Factor:</b> 1.00
<b>Date/Time Collected:</b> NA - Not Applicable	<b>Instrument/File name:</b> msd20.i / 20091702.sim
<b>Media:</b> NA - Not Applicable	

Compound	CAS#	%Recovery
cis-1,2-Dichloroethene	156-59-2	96
Tetrachloroethene	127-18-4	105
trans-1,2-Dichloroethene	156-60-5	100
Trichloroethene	79-01-6	104
Vinyl Chloride	75-01-4	93

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	91
4-Bromofluorobenzene	460-00-4	70-130	95
Toluene-d8	2037-26-5	70-130	109

MODIFIED EPA METHOD TO-15 GC/MS SIM  
3705 Haven Ave

<b>Client ID:</b>	LCS	<b>Date/Time Analyzed:</b>	9/17/19 09:29 AM
<b>Lab ID:</b>	1909272-07A	<b>Dilution Factor:</b>	1.00
<b>Date/Time Collected:</b>	NA - Not Applicable	<b>Instrument/File name:</b>	msd20.i / 20091703sim
<b>Media:</b>	NA - Not Applicable		

Compound	CAS#	%Recovery
cis-1,2-Dichloroethene	156-59-2	86
Tetrachloroethene	127-18-4	110
trans-1,2-Dichloroethene	156-60-5	106
Trichloroethene	79-01-6	105
Vinyl Chloride	75-01-4	97

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	89
4-Bromofluorobenzene	460-00-4	70-130	94
Toluene-d8	2037-26-5	70-130	107

\* % Recovery is calculated using unrounded analytical results.



Air Toxics

MODIFIED EPA METHOD TO-15 GC/MS SIM  
3705 Haven Ave

<b>Client ID:</b> LCSD	<b>Date/Time Analyzed:</b> 9/17/19 10:08 AM
<b>Lab ID:</b> 1909272-07AA	<b>Dilution Factor:</b> 1.00
<b>Date/Time Collected:</b> NA - Not Applicable	<b>Instrument/File name:</b> msd20.i / 20091704sim
<b>Media:</b> NA - Not Applicable	

Compound	CAS#	%Recovery
cis-1,2-Dichloroethene	156-59-2	86
Tetrachloroethene	127-18-4	107
trans-1,2-Dichloroethene	156-60-5	105
Trichloroethene	79-01-6	103
Vinyl Chloride	75-01-4	96

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	88
4-Bromofluorobenzene	460-00-4	70-130	93
Toluene-d8	2037-26-5	70-130	106

\* % Recovery is calculated using unrounded analytical results.

## Appendix G INTERVIEW FORMS







### PHASE I ESA USER'S QUESTIONNAIRE

In order to qualify for protection from land owner liability under CERCLA as an *innocent landowner*, *bona fide prospective purchaser*, or *contiguous property owner*, ASTM standard practice E1527-13 and E1527-21 and the federal AAI rule (40 CFR 312) require that the User of the Phase I ESA report provide certain information (if available) to the Environmental Professional completing the assessment. Failure to provide this information could result in a determination that "all appropriate inquiry" is not complete. Information that is not or cannot be provided to the Environmental Professional may be identified as a "data gap" in the Phase I ESA report.

Please answer the following questions as completely as possible. Attach additional pages as needed. Return the completed questionnaire to Stantec along with the executed Authorization For services form.

1. Property Information

Property Name: 3705 HAVEN AVE  
Property Address(es): 3705 HAVEN AVE  
City: Menlo Park State CA Zip 94025  
Property Owner Name: \_\_\_\_\_  
Property Owner Phone #: \_\_\_\_\_

2. Contact For Site Access

Name: HOWARD GRUBER  
Company/Organization/Title: PROBERT & ASSOCIATES  
Phone # 6504659970 E-Mail Address: H4GRUBER@GMAIL

3. Environmental Cleanup Liens. Are you aware of any environmental cleanup liens against the property that are filed or recorded under federal, tribal, state or local law?

\_\_\_\_\_ Yes  No

If yes, describe or attach details of the lien \_\_\_\_\_

4. Activity and Land Use Limitations. Are you aware of any activity and use limitations, such as engineering controls, land use restrictions, or institutional controls that are in place at the property and/or have been filed or recorded as applicable to the property as a result of environmental contamination, investigation, cleanup, or related matters?

\_\_\_\_\_ Yes  No

If yes, describe or attach details of the limitations \_\_\_\_\_

5. Specialized Knowledge or Experience. As the User of this ESA, do you have any specialized knowledge or experience related to the property or nearby properties? For example, are you involved in the same line of business as the current or former occupants of the property or an adjoining property, such that you would have specialized knowledge about chemicals and processes used by this type of business?

Yes

No

If yes, describe or attach details of your specialized knowledge or experience \_\_\_\_\_

6. Relationship of Purchase Price to Fair Market Value of Property. Does the purchase price being paid for the property reasonably reflect the fair market value?

Yes

No

Not applicable. User is not involved in a purchase of the property.

If you conclude that there is a difference, do you have any reason to believe that the reduced purchase price may be related to contamination known or believed to be present at the property?

Yes, I have reason to believe that the purchase price for the property has been reduced in comparison with the fair market value due to contamination known or believed to be present at the property.

No, I have no reason to believe that the purchase price for the property has been reduced in comparison with the fair market value due to contamination known or believed to be present at the property.

7. Commonly Known or Reasonably Ascertainable Information. Are you aware of commonly known or reasonably ascertainable information about the property that would help the Environmental Professional to identify conditions indicative of releases or threatened releases of hazardous substances or petroleum products? For example:

Do you know the past uses of the property?

Yes (describe) \_\_\_\_\_

\_\_\_\_\_

No

Do you know of chemicals, hazardous substances or petroleum products that are present or once were present at the property?

Yes (describe) \_\_\_\_\_

\_\_\_\_\_

No

Do you know of spills or other releases of chemicals, hazardous substances or petroleum products that have taken place at the property?

Yes (describe) \_\_\_\_\_  
\_\_\_\_\_

No

Do you know of any environmental cleanups that have taken place at the property?

Yes (describe) \_\_\_\_\_  
\_\_\_\_\_

No

- B. The Degree of Obviousness of Contamination. E1527-13 and the federal AAI rule (40 CFR 312.31) require that the Phase I ESA consider the degree of obviousness of the presence or likely presence of contamination at the property, and the ability to detect the contamination by appropriate investigation. Based on your knowledge and experience related to the property, are there any *obvious* indicators that point to the presence or likely presence of contamination at the property?

Yes (describe) \_\_\_\_\_  
\_\_\_\_\_

No

9. Availability of Previous Environmental Reports. Are you aware of previous environmental site assessment reports, other environmental reports, documents, correspondence, etc. concerning the property and its environmental condition?

Yes (describe) \_\_\_\_\_  
\_\_\_\_\_

No

Signature: Howard Gruber

Name (printed): HOWARD GRUBER

Title: Property Manager

Date: 11/17/23

Date: October 25, 2023

Project No.: 118-160-1

Prepared For: Ms. Fiona Phung  
**DAVID J. POWERS & ASSOCIATES**  
1871 The Alameda, Suite 200  
San Jose, California 95126

Re: Environmental Document Review  
3705 Haven Avenue  
Menlo Park, California

Dear Ms. Phung:

Per your request, Cornerstone Earth Group, Inc. (Cornerstone) is pleased to present this letter summarizing our review of the provided environmental reports for 3705 Haven Avenue in Menlo Park, California (Site). This letter was prepared for David J. Powers & Associates in accordance with our October 6, 2023 agreement.

### Project Background

We understand that David J. Powers is providing California Environmental Quality Act (CEQA) support to redevelop the approximately 0.66-acre Site, identified by Assessor's Parcel Number (APN): 055-170-240. The proposed project would demolish an existing commercial building and construct an eight-story apartment building with 99 units and interior parking on the ground floor and second floor podium levels. The project is proposing to use the City's bonus level development allowance and the density bonuses allowed through state and/or local density bonus laws. It would provide 15 percent of the total units (not including units allowed through state density bonus) as on-Site affordable housing, all of which would be affordable to very low-income households.

### Documents Reviewed

This letter briefly summarizes selected information obtained from the following provided report:

- Stantec Consulting Services, Inc. (Stantec). February 9, 2023. *Phase I Environmental Site Assessment, 3705 Haven Avenue, Menlo Park, California*

For complete details, please refer directly to the original report.

### Site History and Prior Studies

Based on the information reviewed, the Site was undeveloped until the 1960s, when it was developed with the existing single-story commercial building. The Site is listed as a closed case on the Water Board's leaking underground storage tank (LUST) database and as an open case on the cleanup program site (CPS) database. The Site, as well as 3715 and 3723 Haven Avenue, were occupied by Siltec Corporation from 1970 to 1989. Siltec Corporation reportedly manufactured polished silicon wafers. Volatile organic compounds (VOCs) were used in the process and were found to have impacted soil and groundwater beneath the Site. Between

1999 and 2001, approximately 3,530 tons of VOC impacted soil was excavated from the larger property and disposed of off-Site. A risk management plan (RMP) was prepared in 1999, which contained construction and post-construction protocols for future contractors and owners/lessees of the Site. Groundwater monitoring occurred semi-annually between 2002 and 2008.

A deed restriction (Covenant and Environmental Restriction on Property) was recorded for two adjoining parcels that included the Site on August 9, 1999 (Document No. 1999-135815). The Covenant prohibited residential development of the parcels and other sensitive uses because VOC concentrations in groundwater exceeded residential screening levels. After recording of the Covenant, the larger property was divided into three 3 parcels (3705, 3715 and 3723 Haven Avenue).

In 2019, VOCs were identified in groundwater at the Site at concentrations that were lower than those historically detected; however, some of the detected trichloroethene (TCE) concentrations in groundwater still exceeded the current residential screening levels based on potential vapor intrusion concerns. TCE was detected in groundwater at the Site at up to 23 micrograms per liter ( $\mu\text{g/L}$ ). For comparison, the Water Board's residential Environmental Screening Level (ESL)<sup>1</sup> for TCE in groundwater is 1.2  $\mu\text{g/L}$ . Based on these detections, indoor air samples were subsequently collected; analytical testing indicated that indoor air was not impacted by TCE or other VOCs including cis-1,2-dichloroethylene (cDCE) above commercial or residential risk-based screening levels. However, tetrachloroethene (PCE) was detected in indoor air at a concentration that exceeded residential risk-based screening levels, despite not being detected in groundwater.

In 2020, soil vapor samples were collected; VOCs including tetrachloroethene (PCE), TCE, benzene and chloroform were detected at concentrations exceeding residential ESLs. The 2020 report concluded that the Site is suitable for residential redevelopment with the condition that a vapor mitigation system is developed for any proposed new Site buildings.

In 2021, the Water Board issued a "Variance from Covenant and Environmental Restriction" for the Site. The Water Board stated that *"residential land use is acceptable on 3705 Haven Property due to site conditions, including low soil and soil gas contaminant concentrations and risk management measures for groundwater contamination. Risk to residential receptors (including children and seniors) from residual groundwater contamination at 3705 Haven Property can be effectively managed with the Risk Management Plan (including any subsequent approved addenda)."* The adjacent properties, 3715 and 3723 Haven Avenue, also formerly operated by Siltec, remain under the covenant restrictions due to higher contaminant levels still present on these properties.

Stantec (2023) concluded that any residual impacts from historical contamination can be properly managed in accordance with the Water Board-approved RMP, which includes soil management procedures and a health and safety plan. Stantec recommended that redevelopment work at the Site proceed in accordance with the RMP and that future residential construction include vapor mitigation systems.

---

<sup>1</sup> Environmental Screening Levels (ESLs) established by the Water Board (January 2019) are used to screen sites for potential human health concerns where releases of chemicals have occurred. These screening levels are risk-based concentrations derived from standardized equations combining exposure information assumptions with toxicity data. Under most circumstances, the presence of a chemical at concentrations below the corresponding screening level can be assumed not to pose a significant health risk.



## Conclusions and Recommendations

Based on the information obtained during this study, Cornerstone concludes and recommends the following:

- Based on sampling conducted in 2019 and 2020, VOCs remain in soil vapor and ground water at the Site at concentrations that exceed current residential ESLs. In general, Cornerstone concurs with the conclusions and recommendations provided by Stantec (2023). Specifically, we recommend that redevelopment of the Site be coordinated with the Water Board and conducted in accordance with the RMP. A Vapor Mitigation Plan (VMP) should be prepared that describes the measures to be implemented to help prevent exposure of Site occupants to VOCs in indoor air as a result of vapor intrusion. The VMP should present the appropriate structural and engineering design features for the proposed occupied spaces to reduce risk of vapor intrusion into buildings. The VMP should be reviewed and approved by the Water Board.

Mitigation measures for vapor intrusion for new buildings typically include: 1) passive sub-slab ventilation with a vapor barrier (and with the ability to convert the system from passive to active ventilation; and 2) monitoring to ensure the long-term effectiveness of the remedy. An Operations, Maintenance, and Monitoring Plan (OMMP) also should be prepared that describes actions to be taken following construction to maintain and monitor the vapor intrusion mitigation system, reporting requirements, as well as a contingency plan should the vapor mitigation system fail.

## Limitations

Cornerstone performed this investigation to support David J. Powers & Associates in the evaluation of the referenced Site. Conclusions presented in this letter are based on limited, readily available information. This letter, an instrument of professional service, was prepared for the sole use of David J. Powers & Associates and may not be reproduced or distributed without written authorization from Cornerstone. It is valid for 180 days. Cornerstone makes no warranty, expressed or implied, except that our services have been performed in accordance with the environmental principles generally accepted at this time and location.

We thank you for this opportunity to work with you on this important project. Should you have any questions, please contact us at your convenience.

Sincerely,

**Cornerstone Earth Group, Inc.**



Ron L. Helm, C.E.G.  
Senior Principal Geologist

**Job: 2220759**  
**Dated: July 28, 2022**

**Sacramento Region:**  
3017 Douglas Blvd., Ste. 300  
Roseville, CA 95661  
Ph: 916.966.1338  
Fx: 916.797.7363

## **HYDROLOGY STUDY**

### **3705 Haven LLC Multi-Family Residential Building**

**3075 Haven Avenue  
Menlo Park, California**



This package includes:

- Information Sheet
- Hydrology Calculations
- Stormwater Control Plan Exhibits
- Provision C.3 Stormwater treatment calculations



**References:**

- Topographic Survey by Lea & Braze Engineering Inc.
- Grading and Drainage Plans by Lea & Braze Engineering, Inc.
- City of Menlo Park Drainage Criteria
- San Mateo County Water Pollution Prevention Program Stormwater Control Requirements

**Site Information:**

3075 Haven Avenue,  
Menlo Park, California  
APN: 055-170-240

**Project Information:**

Gross Lot Size: 28,808 sqft. (0.661 acre)  
Impervious Surface Created / Replaced: 24,455 sqft. (0.561 acre)

Existing Site Impervious Area: 22,873 sqft. (0.525 acre)  
Proposed Site Impervious Area: 24,455 sqft. (0.561 acre)  
Net Change of Impervious Area: +1,582 sqft. (+0.036 acre) *Net Increase*

Proposed Pervious Paving: 1,624 sqft. (0.037 acre)

**Hydrology Information:**

Storm Interval: 10-year event, 10-minute time of concentration  
Rainfall Intensity Required ( $I_{req}$ ): 1.70 In/hour (City of Menlo Park IDF Curve)  
Runoff Coefficient (C): 0.95 for Impervious areas, 0.35 for Pervious areas  
Watershed: Atherton Channel

Project Pre-Construction Runoff: 0.918 cfs.  
Project Post-Construction Runoff: 0.958 cfs.  
Net Change in Runoff: 0.040 cfs. (Net Increase)

**Project Introduction:**

The approximately 0.66 acre, rectangular-shaped lot is located on the north and west sides of Haven Avenue in the City Menlo Park, California. The lot measures approximately 150' X 180', and is bounded by Haven Avenue to the south and east, a multi-family residential building to the west, and a commercial building to the north.

The area in the local vicinity is very flat, sloping generally to the northeast at less than 0.5%. The parcel is currently occupied by a single-story commercial building in the southeast portion of the property. An asphaltic concrete driveway and parking lot are located on the north and west sides of the building with access points at the southwest and northeast corners of the lot.

A slightly raised building pad was created during the original development. Drainage from the site



can generally be described as uncontrolled sheet flow from the south and east sides of the building to the adjacent roadway, and from the north and west sided of the building to the driveway and parking area and then to the roadway at the driveway entryways.

A catch basin is located in the parking lot at the northeast corner of the site. It is assumed that this catch basin drains to an existing curb inlet on Haven Avenue approximately 35' northeast at the corner of the lot. A second existing curb inlet is located on Haven Avenue at the southeast corner of the lot.

The project will demolish the existing improvements and construct a new eight-story, 99 unit, multi-family residential building with parking on the ground and second floors, and a pool and common use terrace on the third floor.

Runoff from the building will be captured and directed to a series of flow-through planters for stormwater treatment and then discharged to the existing city storm drain as is the current condition.

**Hydrology Calculation Method:**

The rational method was used for calculations based on the City of Menlo Park Requirements for the Preparation of Hydrology Reports for both 10 year and 100 year storm events.

The intensity was taken from the City's IDF Curve. The time of Concentration was taken to be 10 minutes. The intensity for a 10 year event is 1.70 inches per hour and the intensity for a 100 year event is 2.50 inches per hour.

The C-values used in the calculations are weighted values based on using a C-value for impervious areas of 0.95, and a C-value for pervious paving and landscape areas of 0.30. These values are calculated to be 0.8.16 for the existing condition and 0.8352for the proposed condition.

Both pre-construction and post-construction runoff were calculated based on the existing sheet flow runoff of the site as a whole, using the total runoff area (net area of the property) of 28,808 sf. (0.661 acre), the weighted C values, and the storm intensity for each event. A summary of the runoff calculations is provided below:

	<u>Pre-Construction Runoff</u>	<u>Post-Construction Runoff</u>	<u>Net Change</u>
<u>10 year event:</u>	Q = 0.918 cfs.	Q = 0.958 cfs.	+0.040 cfs.
<u>100 year event:</u>	Q = 1.349 cfs.	Q = 1.408 cfs.	+0.059 cfs.

The calculations indicate that site runoff will be increased by approximately 4.4% by the increase of impervious surface for the project.

**Provision C.3 Considerations:**

Regulated Project Status: Based on the results of the Provision C.3 and C.6 Development Review Checklist, this project is a multi-family residential project that proposes to create or replace greater than 10,000 square feet of impervious surface. Therefore, the project is a regulated project. The project must implement source control and low impact site design measures to the fullest extent possible.

**Stormwater Treatment Method:**

Due to site constraints, globalized treatment of runoff in a single location is not feasible. The general stormwater treatment design concept is to provide several, flow-through bio-retention planters to treat runoff from the building. Treatment planters #1 through #3 are located on the third floor terrace deck. Treatment planters #4 & #5 are located on ground floor on the west side of the building. Treatment planters #6 & #7 are located on ground floor on the east side of the building.

To determine the post-construction stormwater treatment requirements, the site was divided into 27 Drainage Management Areas draining to the 7 treatment planters. Refer to the included Stormwater Control Plan Exhibit SCP-2 for drainage management area and treatment control measure information.

**Stormwater Treatment Considerations:**

The bio-retention planters are designed using the flow based, uniform intensity method, to provide a minimum surface area of 4% of the impervious surface directed to the bio-retention planter. A summary of the bio-retention planters is provided below:

**Treatment Control Measure Summary Table**

TCM	LOCATION	TREATS DMA #	IMPERVIOUS AREA (SQ.FT)	TREATMENT AREA REQUIRED (SQ.FT)	TREATMENT AREA PROVIDED (SQ.FT)	SURPLUS (SHORTFALL)
TCM 1	3RD FLOOR TERRACE	1	2,013	81	81	0
TCM 2	3RD FLOOR TERRACE	2	1,964	79	85	6
TCM 3	3RD FLOOR TERRACE	3	5,235	209	212	3
TCM 4	GROUND FLOOR	8	5,450	218	218	0
TCM 5	GROUND FLOOR	4, 5, 6, 7, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 21, 22, 23, 24, 25, 26, 27	5,576	223	229	6
TCM 6	GROUND FLOOR	20	2,350	94	94	0
TCM 7	GROUND FLOOR	19	1,310	52	54	2
TOTAL			23,898	956	973	17

The perimeter walkway along the north and east sides of the lot is constructed using pervious concrete and designed to be self-treating.

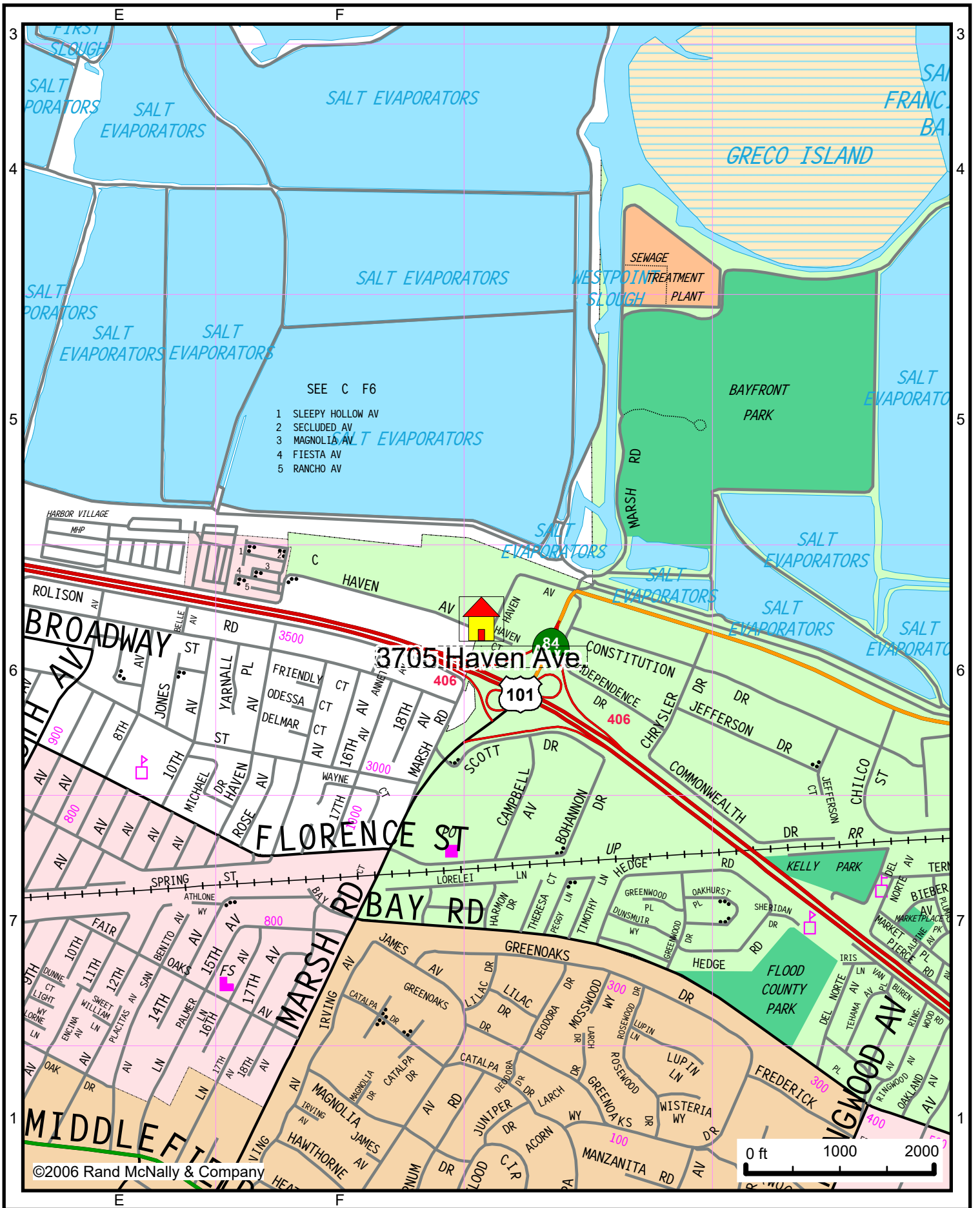
**Stormwater Control Measures:**

To comply with San Mateo County Plan C.3 requirements, the project proposes to disconnect downspouts, cluster structures and pavement and to label all inlets with “Drains to Bay” per site design and source control measures, respectively.

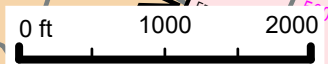
**Conclusion:**

Lea & Braze Engineering, Inc. believes that the proposed drainage design is both adequate to perform its intended function and is in conformance with the City of Menlo Park and the County of San Mateo stormwater drainage design requirements.

Please refer to the attached calculation sheets for specific information regarding the hydrology calculations and to the grading and drainage plans by Lea & Braze Engineering, Inc. for specific details of the drainage design



©2006 Rand McNally & Company



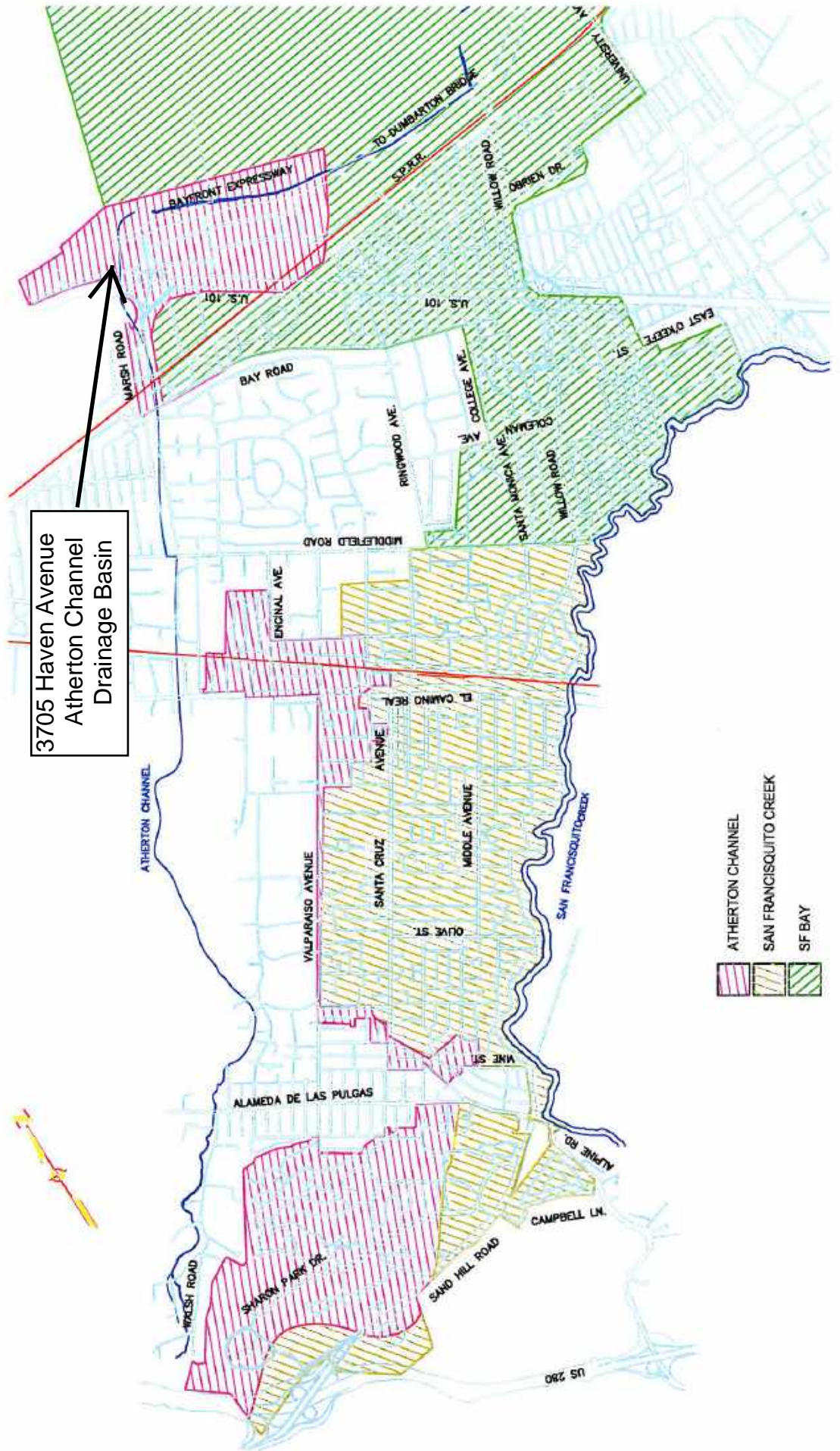
3705 Haven Ave.: Menlo Park, CA, 770 - G6



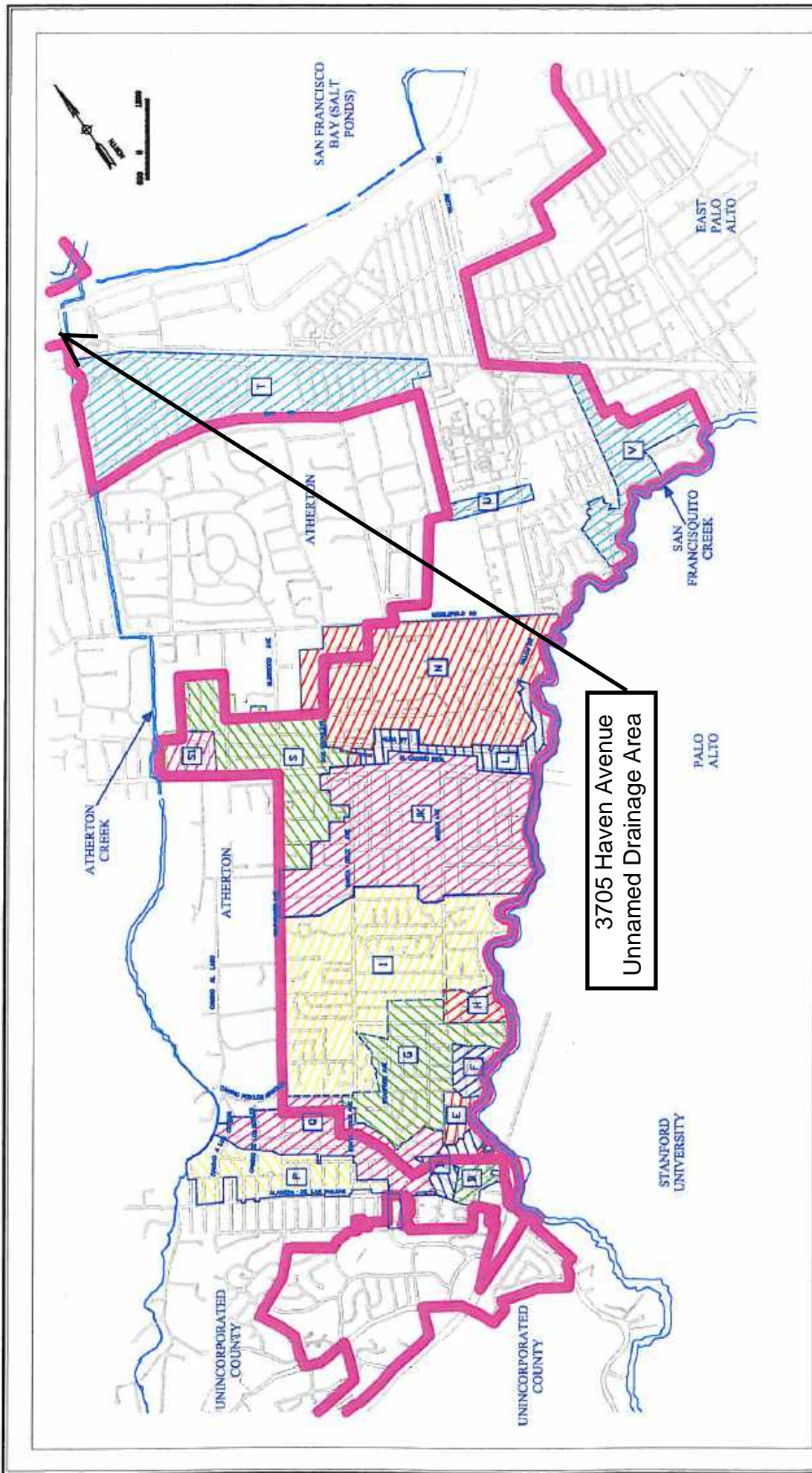
Attachment A

# DRAINAGE BASIN MAP

CITY OF MENLO PARK  
CALIFORNIA







3705 Haven Avenue  
Unnamed Drainage Area

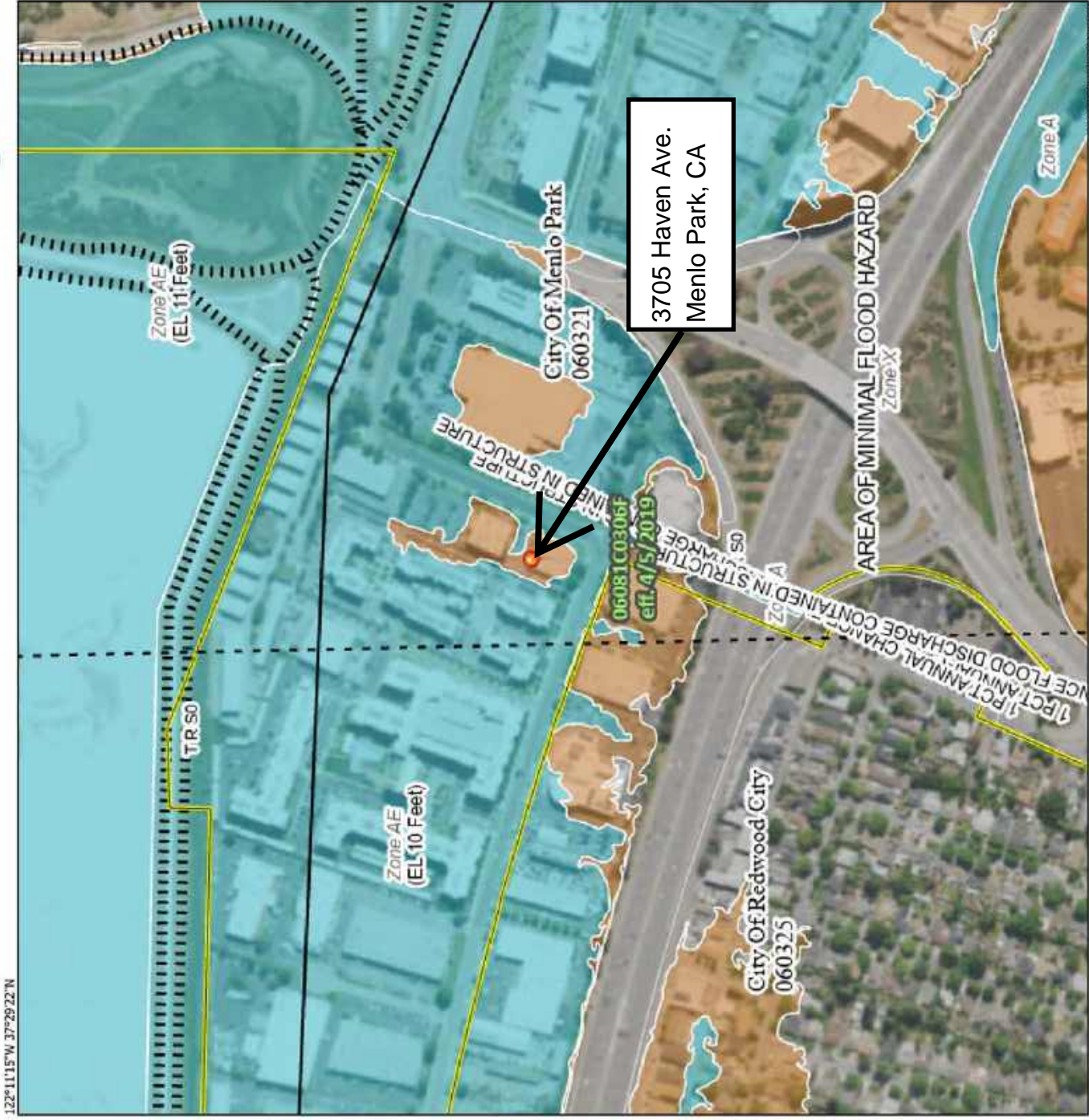
ATTACHMENT B  
STORM SYSTEM DRAINAGE AREAS MAP



# National Flood Hazard Layer FIRMette



122°11'15"W 37°29'22"N



3705 Haven Ave.  
Menlo Park, CA

## Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

- SPECIAL FLOOD HAZARD AREAS**
- Without Base Flood Elevation (BFE) Zone A, V, A99
  - With BFE or Depth Zone AE, AD, AH, VE, AR
  - Regulatory Floodway
- OTHER AREAS OF FLOOD HAZARD**
- 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
  - Future Conditions 1% Annual Chance Flood Hazard Zone X
  - Area with Reduced Flood Risk due to Levee, See Notes, Zone X
  - Area with Flood Risk due to Levee Zone D

- OTHER AREAS**
- Area of Minimal Flood Hazard Zone X
  - Effective LONIRs
  - Area of Undetermined Flood Hazard Zone D
- GENERAL STRUCTURES**
- Channel, Culvert, or Storm Sewer
  - Levee, Dike, or Floodwall

- OTHER FEATURES**
- 20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
  - Coastal Transect
  - Base Flood Elevation Line (BFE)
  - Limit of Study
  - Jurisdiction Boundary
  - Coastal Transect Baseline
  - Profile Baseline
  - Hydrographic Feature

- MAP PANELS**
- Digital Data Available
  - No Digital Data Available
  - Unmapped

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

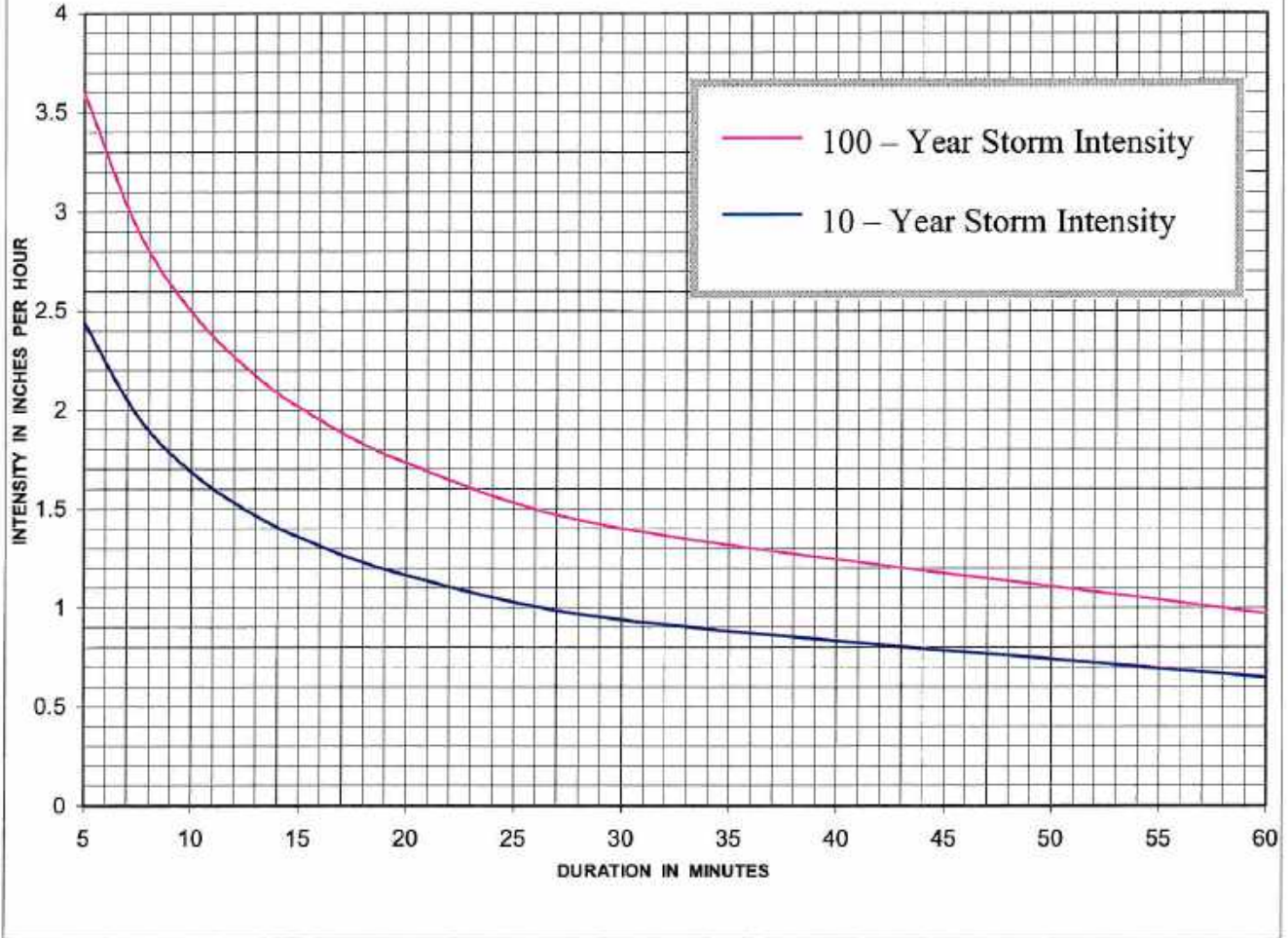
This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards.

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 7/28/2022 at 8:37 AM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.



**Precipitation  
Intensity Duration Frequency  
City of Menlo Park**



Station	Statio No	County	Lat	Long.	Elev.	Source	Yrs Rec	Slope	Intercept
Menlo Park	E70 553 20	San Mateo	37.451	-122.186		USGS	5	0.462	0.439

**CITY OF MENLO PARK STANDARD DETAILS**



NO.	REVISIONS	DATE

DRAWN DL	CHECKED PS	DATE 07/30/08	SCALE NTS	SHEET
-------------	---------------	------------------	--------------	-------

ATTACHMENT C  
MENLO PARK IDF CURVE

APPROVED:

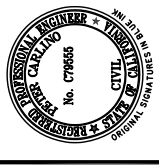
Director of Engineering Services R.C.E. Inc 40205

STD. DETAIL No.: IDF







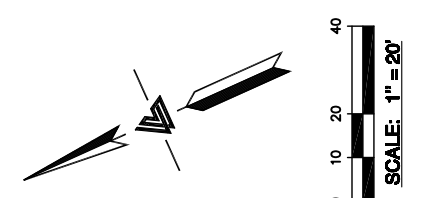
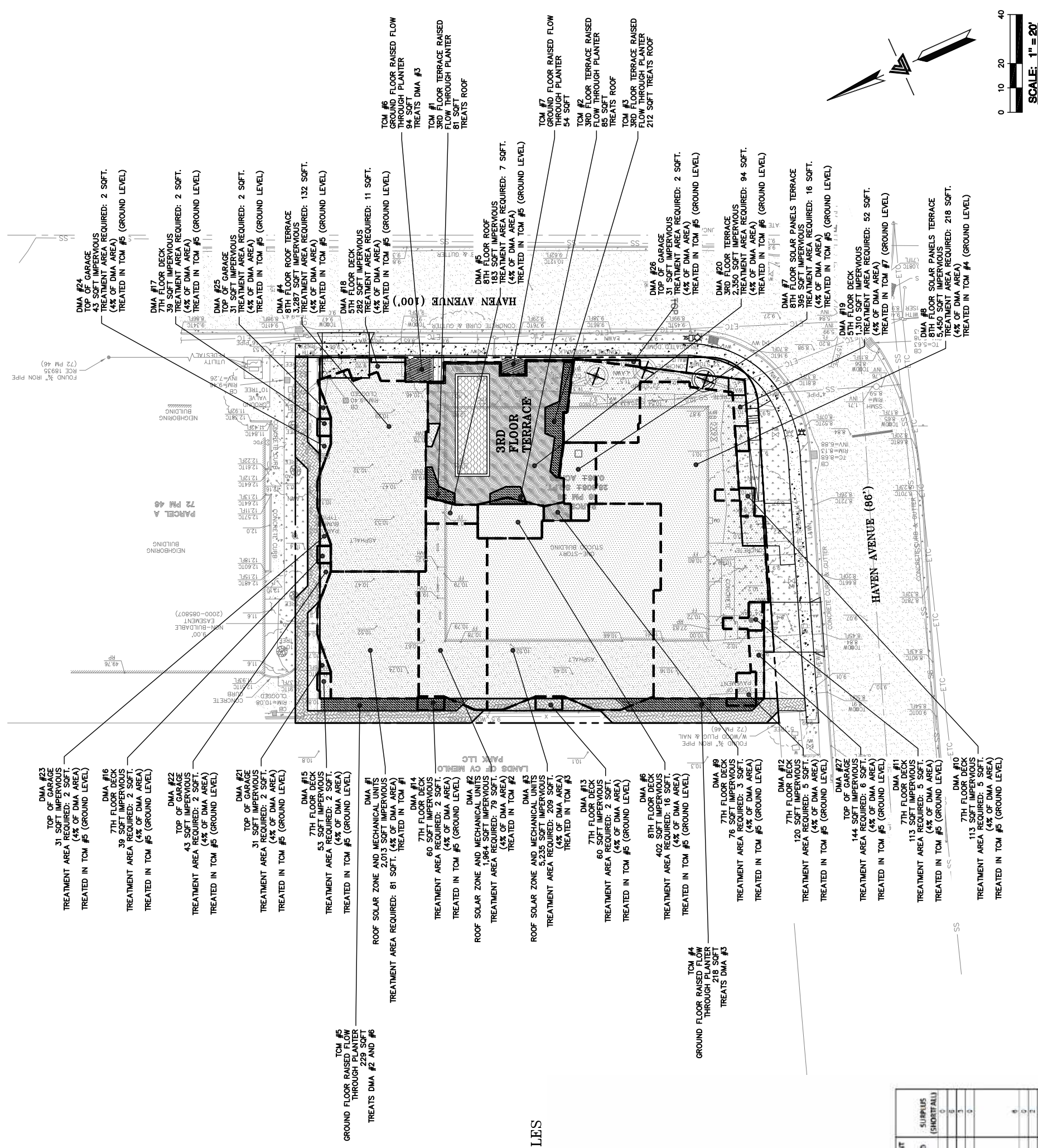


**LEA & BRAZE ENGINEERING, INC.**  
 CIVIL ENGINEERS LAND SURVEYORS  
 REGIONAL OFFICES:  
 2495 INDUSTRIAL PKWY. WEST  
 DUBLIN, CALIFORNIA 94545  
 SAN JOSE  
 (510) 887-4086  
 WWW.LEABRAZE.COM

3705 HAVEN AVENUE  
 MENLO PARK, CALIFORNIA  
 SAN MATEO COUNTY  
 APN: 055-170-240

**STORMWATER CONTROL PLAN**

REVISIONS BY: \_\_\_\_\_  
 JOB NO: 2220759  
 DATE: 05-05-22  
 SCALE: AS NOTED  
 DESIGN BY: VA  
 CHECKED BY: JH/PC  
 SHEET NO: **SCP-2**



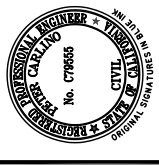
**STORMWATER TREATMENT SUMMARY TABLES**

**DRAINAGE MANAGEMENT AREA SUMMARY TABLE**

DMA	LOCATION	IMPERVIOUS AREA (SQ. FT.)	TREATED BY
DMA 1	ROOF	2,013	DMA 1
DMA 2	ROOF	1,964	DMA 2
DMA 3	ROOF	5,235	DMA 3
DMA 4	8TH FLOOR ROOF TERRACE	3,287	DMA 4
DMA 5	8TH FLOOR ROOF	183	DMA 5
DMA 6	8TH FLOOR SOLAR PANELS TERRACE	402	DMA 6
DMA 7	8TH FLOOR SOLAR PANELS TERRACE	402	DMA 7
DMA 8	7TH FLOOR DECK	76	DMA 8
DMA 9	7TH FLOOR DECK	113	DMA 9
DMA 10	7TH FLOOR DECK	113	DMA 10
DMA 11	7TH FLOOR DECK	113	DMA 11
DMA 12	7TH FLOOR DECK	120	DMA 12
DMA 13	7TH FLOOR DECK	60	DMA 13
DMA 14	7TH FLOOR DECK	60	DMA 14
DMA 15	7TH FLOOR DECK	60	DMA 15
DMA 16	7TH FLOOR DECK	39	DMA 16
DMA 17	7TH FLOOR DECK	31	DMA 17
DMA 18	7TH FLOOR DECK	31	DMA 18
DMA 19	5TH FLOOR DECK	1,310	DMA 19
DMA 20	3RD FLOOR TERRACE	7,350	DMA 20
DMA 21	3RD FLOOR TERRACE	7,350	DMA 21
DMA 22	3RD FLOOR TERRACE	7,350	DMA 22
DMA 23	3RD FLOOR TERRACE	7,350	DMA 23
DMA 24	TOP OF GARAGE	43	DMA 24
DMA 25	TOP OF GARAGE	31	DMA 25
DMA 26	TOP OF GARAGE	43	DMA 26
DMA 27	TOP OF GARAGE	31	DMA 27
TOTAL IMPERVIOUS		23,898	

**TREATMENT CONTROL MEASURE SUMMARY TABLE**

TCM	LOCATION	TREATS DMA #	IMPERVIOUS AREA (SQ. FT.)	TREATMENT AREA PROVIDED (SQ. FT.)	SURPLUS (SHORTFALL)
TCM 1	3RD FLOOR TERRACE	1	2,013	81	0
TCM 2	3RD FLOOR TERRACE	1	1,964	79	0
TCM 3	3RD FLOOR TERRACE	3	5,235	209	3
TCM 4	GROUND FLOOR	4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27	2,450	218	0
TCM 5	GROUND FLOOR	1	8,876	229	8
TCM 6	GROUND FLOOR	2	3,300	64	0
TCM 7	GROUND FLOOR	3	1,510	54	0
TOTAL		15	23,898	673	17



**LEA & BRAZE ENGINEERING, INC.**  
 CIVIL ENGINEERS AND SURVEYORS  
 REGIONAL OFFICES:  
 DUBLIN, CALIFORNIA 94545  
 SAN JOSE  
 WWW.LEABRAZE.COM  
 (510) 887-4086  
 SAN MATEO COUNTY  
 APN: 055-170-240

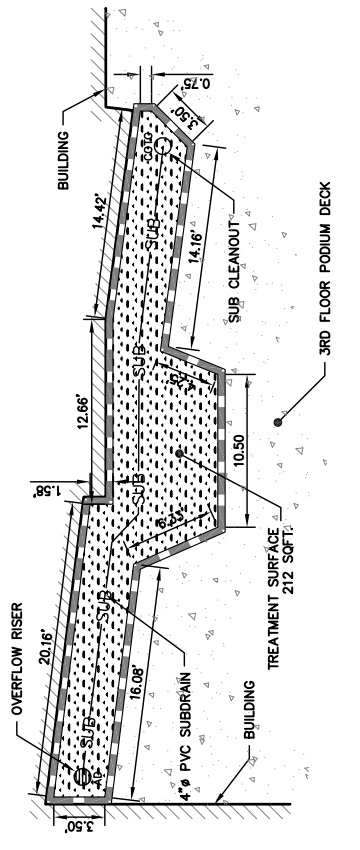
3705 HAVEN AVENUE  
 MENLO PARK, CALIFORNIA

STORMWATER  
 CONTROL DETAILS

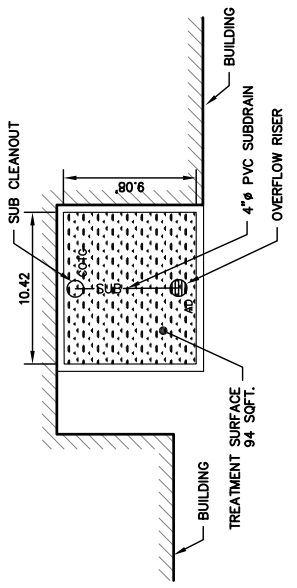
REVISIONS	BY
JOB NO: 2220759	
DATE: 07-29-22	
SCALE: AS NOTED	
DESIGN BY: VA	
CHECKED BY: JH/PC	
SHEET NO:	

**SCP-3**  
 08 OF 15 SHEETS

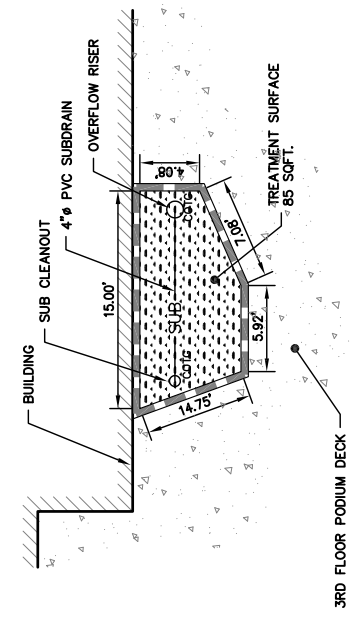
**BIO-RETENTION SOIL CONSIDERATIONS**  
 THE BIO-RETENTION SOIL SHALL MEET THE REQUIREMENTS SET FORTH IN CHAPTER 10 OF THE SAN MATEO COUNTY CLEAN WATER PROGRAM CS STORMWATER TECHNICAL GUIDANCE HANDBOOK.  
 BIO-RETENTION SOIL SHALL HAVE A MINIMUM PERCOLATION RATE OF 4" PER HOUR WITH A MINIMUM PERCOLATION RATE OF 10" PER HOUR IF THE SOIL DOES NOT MEET THIS PERCOLATION REQUIREMENT. AN ADJUSTURE SHALL BE MADE INTO PLANTING SOIL TO ALLOW FOR A 5" PER HOUR PERCOLATION RATE. IN-SITU TESTING SHALL BE CONDUCTED TO VERIFY THAT THE MATERIAL MEETS THE PERCOLATION REQUIREMENTS.  
 NO BARK MULCH SHALL BE PLACED IN THE VEGETATED AREA.  
 IF IMPORT SOIL IS USED, IT SHALL HAVE THE FOLLOWING PROPERTIES FOR SANDY LOAM. A TYPICAL SOIL MIX COMPRISES 60-70% SAND AND 30%-40% COMPOST.



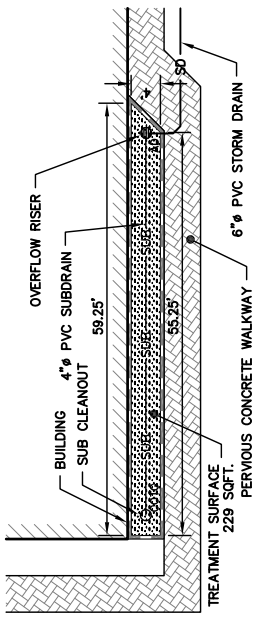
3 FLOW THROUGH PLANTER #3  
 SCP-3 NTS



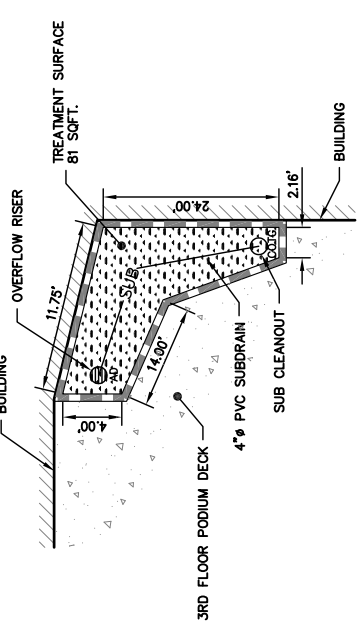
6 FLOW THROUGH PLANTER #6  
 SCP-3 NTS



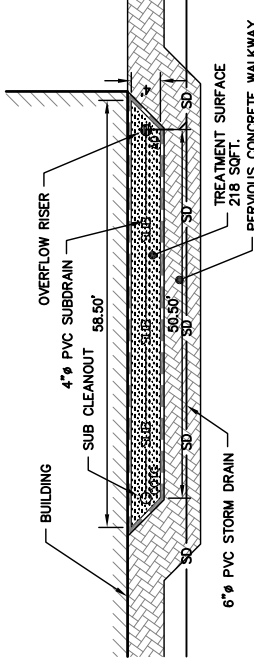
2 FLOW THROUGH PLANTER #2  
 SCP-3 NTS



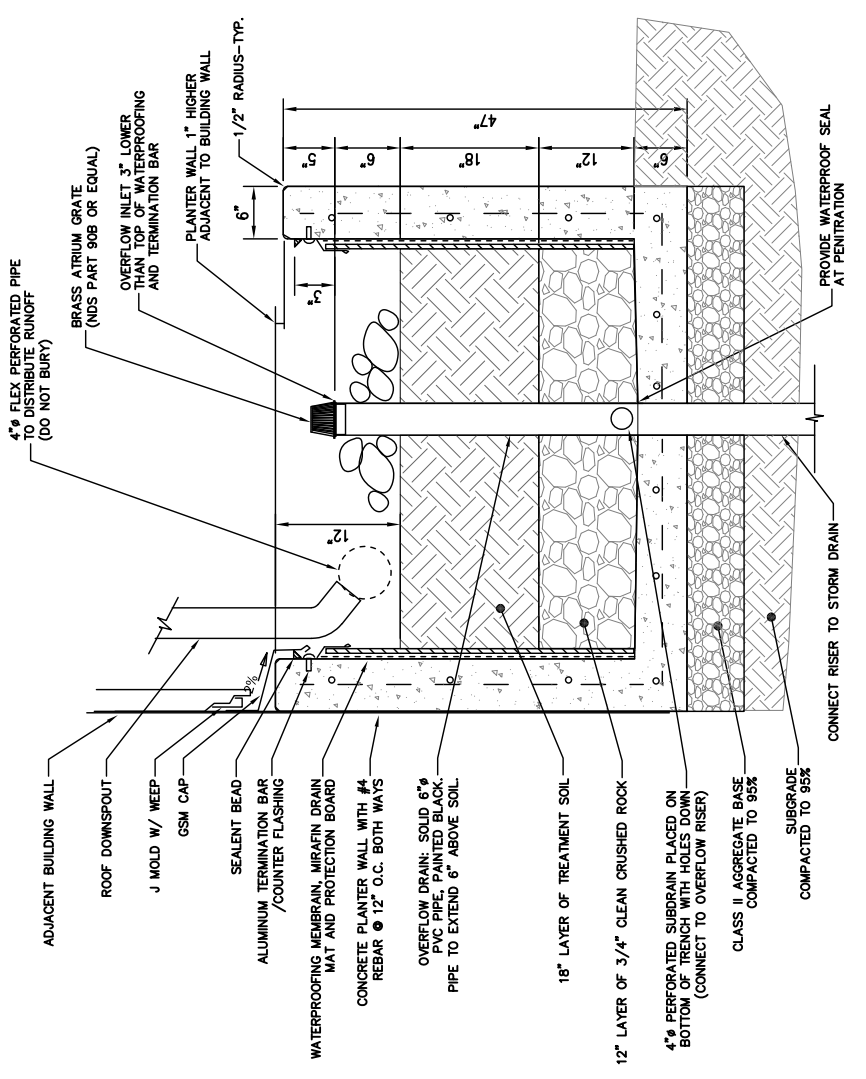
5 FLOW THROUGH PLANTER #5  
 SCP-3 NTS



1 FLOW THROUGH PLANTER #1  
 SCP-3 NTS



4 FLOW THROUGH PLANTER #4  
 SCP-3 NTS



8 FLOW THROUGH TREATMENT PLANTERS 1, 2, & 3  
 SCP-3 NTS

9 FLOW THROUGH TREATMENT PLANTERS 4, 5, 6, & 7  
 SCP-3 NTS

7 FLOW THROUGH PLANTER #7  
 SCP-3 NTS





PROJECT 3075 Haven LLC	DATE July 28, 2022
JOB NO. 2220759	BY R. West

## IMPERVIOUS SURFACE

for

**3075 Haven LLC  
3705 Haven Avenue  
Menlo Park, CA.**

**GROSS SITE AREA:** 28,808 sqft. = 0.661 acre

**EXISTING AREA:**

Impervious:	22,873 sqft.	=	0.525 acre
Pervious Paving:	0 sqft.	=	0.000 acre
Landscape:	5,935 sqft.	=	0.136 acre

**PROPOSED AREA:**

Impervious:	24,455 sqft.	=	0.561 acre
Pervious Paving:	1,624 sqft.	=	0.037 acre
Landscape:	2,729 sqft.	=	0.063 acre

**NET CHANGE OF IMPERVIOUS AREA:** 1,582 sqft. = 0.036 acre

**NET CHANGE OF PERVIOUS PAVING:** 1,624 sqft. = 0.037 acre

**NET CHANGE OF DEVELOPED AREA:** 3,206 sqft. = 0.073 acre

***NET INCREASE***

***NET INCREASE***

***NET INCREASE***

**BREAKDOWN OF DEVELOPED AREA**

	Existing	Proposed
Building	10,368 sqft.	23,898 sqft.
Driveway & Parking	11,854 sqft.	70 sqft.
Impervious Patios, Walkways & Pads	651 sqft.	0 sqft.
Sidewalk	0 sqft.	487 sqft.
<b>TOTAL IMPERVIOUS</b>	<b>22,873 sqft.</b>	<b>24,455 sqft.</b>
Pervious Paving	0 sqft.	1,624 sqft.
<b>TOTAL</b>	<b>22,873 sqft.</b>	<b>26,079 sqft.</b>



PROJECT 3075 Haven LLC	DATE July 28, 2022
JOB NO. 2220759	BY R. West

### IMPERVIOUS SURFACE

for

**3075 Haven LLC  
3705 Haven Avenue  
Menlo Park, CA.**

Total Area of Parcel		<b>A</b>	28,808	SF
Existing Pervious Area		<b>B</b>	5,935	SF
Existing Impervious Area		<b>C</b>	22,873	SF
Existing % Impervious	$C / A * 100 =$	<b>D</b>	79.4	%
Existing Impervious Area to be replaced w/new impervious area		<b>E</b>	22,873	SF
Existing pervious area to be replaced w/new impervious area		<b>F</b>	1,582	SF
New Impervious Area (Creating and/or Replacing)	$E + F =$	<b>G</b>	24,455	SF
If <b>G</b> is greater than 10,000 SF, a hydrology report shall be submitted to Engineering.				
Existing Impervious Area to be replaced w/new pervious area		<b>H</b>	0	SF
Net change in Impervious Area	$F - H =$	<b>I</b>	1,582	SF
Input negative (-) number if the <b>F</b> (net change) is negative				
Proposed Pervious Area		$B - I =$	<b>J</b>	4,353 SF
Proposed Impervious Area		$C + I =$	<b>K</b>	24,455 SF
Verify that $J + K = A$				28,808 SF
Proposed % Impervious	$K / A * 100 =$	<b>L</b>	84.9	%

\*Pervious Concrete Sidewalk Counted as Pervious



PROJECT 3075 Haven LLC	DATE July 28, 2022
JOB NO. 2220759	BY R. West

**SITE RUNOFF COEFFICIENT CALCULATIONS**

for  
**3075 Haven LLC**  
**3705 Haven Avenue**  
**Menlo Park, CA.**

**GROSS SITE AREA:** 28,808 sqft. = 0.661 acre

**Runoff Coefficient Tables**

Existing:

Type of Surface	Area (ft <sup>2</sup> )	C <sub>runoff</sub>	Weight
Building	10,368	0.95	9,850
Driveway & Parking	11,854	0.95	11,261
Impervious Patios, Walkways & Pads	651	0.95	618
Sidewalk	0	0.95	0
Pervious Paving	0	0.30	0
Landscape	5,935	0.30	1,781
<b>TOTAL</b>	<b>28,808</b>		<b>23,510</b>
<b>Total Site Run-Off Coefficient = 0.816</b>			

Proposed:

Type of Surface	Area (ft <sup>2</sup> )	C <sub>runoff</sub>	Weight
Building	23,898	0.95	22,703
Driveway & Parking	70	0.95	67
Impervious Patios, Walkways & Pads	0	0.95	0
Sidewalk	487	0.95	463
Pervious Paving	1,624	0.30	487
Landscape	2,729	0.30	819
<b>TOTAL</b>	<b>28,808</b>		<b>24,538</b>
<b>Total Site Run-Off Coefficient = 0.852</b>			



PROJECT 3075 Haven LLC	DATE July 28, 2022
JOB NO. 2220759	BY R. West

## SITE RUNOFF CALCULATIONS

for

**3075 Haven LLC  
3705 Haven Avenue  
Menlo Park, CA.**

Calculations are based on the use of the Rational Method  $Q=CIA$

### CALCULATION BASE VALUES

SITE AREA = 28,808 sqft. = 0.661 acre

**Intensity** (From City of Menlo Park IDF Curve)

Time of Concentration = 10 Minutes

$I_{10 \text{ year}}$  = 1.70 in/hr

$I_{100 \text{ year}}$  = 2.50 in/hr

### Run-off

Calculations Summary Table									
	Area (ft <sup>2</sup> )	Area (Acre)	Composite $C_{\text{runoff}}$	$T_c$ (minutes)	$I_{10 \text{ year}}$ (in/hr)	$I_{100 \text{ year}}$ (in/hr)	$Q_{10 \text{ year}}$ ft <sup>3</sup> /sec	$Q_{100 \text{ year}}$ ft <sup>3</sup> /sec	
<b>Existing</b>	28,808	0.661	0.816	10	1.70	2.50	0.918	1.349	
<b>Proposed</b>	28,808	0.661	0.852	10	1.70	2.50	0.958	1.408	

### Net Change In Runoff

<b>10 Year</b>	<b>0.040 cfs.</b>	<b>Net Increase</b>
<b>100 Year</b>	<b>0.059 cfs.</b>	<b>Net Increase</b>



PROJECT 3075 Haven LLC	DATE July 28, 2022
JOB NO. 2220759	BY R. West

**DRAINAGE MANAGEMENT AREA SUMMARY**

for  
**3075 Haven LLC**  
**3705 Haven Avenue**  
**Menlo Park, CA.**

**DRAINAGE MANAGEMENT AREA SUMMARY TABLE**

DMA	LOCATION	IMPERVIOUS AREA (SQ.FT)	TREATED BY DMA
DMA 1	ROOF	2,013	1
DMA 2	ROOF	1,964	2
DMA 3	ROOF	5,235	3
DMA 4	8TH FLOOR ROOF TERRACE	3,287	5
DMA 5	8TH FLOOR ROOF	183	5
DMA 6	8TH FLOOR DECK	402	5
DMA 7	8TH FLOOR SOLAR PANELS TERRACE	395	5
DMA 8	8TH FLOOR SOLAR PANELS TERRACE	5,450	4
DMA 9	7TH FLOOR DECK	76	5
DMA 10	7TH FLOOR DECK	113	5
DMA 11	7TH FLOOR DECK	113	5
DMA 12	7TH FLOOR DECK	120	5
DMA 13	7TH FLOOR DECK	60	5
DMA 14	7TH FLOOR DECK	60	5
DMA 15	7TH FLOOR DECK	53	5
DMA 16	7TH FLOOR DECK	39	5
DMA 17	7TH FLOOR DECK	39	5
DMA 18	5TH FLOOR DECK	282	5
DMA 19	5TH FLOOR DECK	1,310	7
DMA 20	3RD FLOOR TERRACE (AREA DOES NOT INCLUDE TREATMENT PLANTERS)	2,350	6
DMA 21	TOP OF GARAGE	31	5
DMA 22	TOP OF GARAGE	43	5
DMA 23	TOP OF GARAGE	31	5
DMA 24	TOP OF GARAGE	43	5
DMA 25	TOP OF GARAGE	31	5
DMA 26	TOP OF GARAGE	31	5
DMA 27	TOP OF GARAGE	144	5
TOTAL IMPERVIOUS		23,898	

**TREATMENT CONTROL MEASURE SUMMARY TABLE**

TCM	LOCATION	TREATS DMA #	IMPERVIOUS AREA (SQ.FT)	TREATMENT AREA REQUIRED (SQ.FT)	TREATMENT AREA PROVIDED (SQ.FT)	SURPLUS (SHORTFALL)
TCM 1	3RD FLOOR TERRACE	1	2,013	81	81	0
TCM 2	3RD FLOOR TERRACE	2	1,964	79	85	6
TCM 3	3RD FLOOR TERRACE	3	5,235	209	212	3
TCM 4	GROUND FLOOR	8	5,450	218	218	0
TCM 5	GROUND FLOOR	4, 5, 6, 7, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 21, 22, 23, 24, 25, 26, 27	5,576	223	229	6
TCM 6	GROUND FLOOR	20	2,350	94	94	0
TCM 7	GROUND FLOOR	19	1,310	52	54	2
TOTAL			23,898	956	973	17

**Job: 2220759**  
**Dated: May, 05, 2023**

**Sacramento Region:**  
3017 Douglas Blvd., Ste. 300  
Roseville, CA 95661  
Ph: 916.966.1338  
Fx: 916.797.7363

## **STORMWATER MANAGEMENT PLAN REPORT**

### **3705 Haven LLC Multi-Family Residential Building**

**3075 Haven Avenue  
Menlo Park, California**





This package includes:

- Information Sheet
- Engineer's Certification
- Owner's Certification
- Appendix
  - o Exhibit A-Project Site Legal Description
  - o Exhibit B-Project Vicinity Map
  - o Exhibit C-Completed C3 Stormwater Checklist and Infiltration/Harvesting and Use Feasibility Screening Worksheet
  - o Exhibit D-Geotechnical Investigation
  - o Exhibit E-Site Drainage Management Areas
  - o Exhibit F-Numeric BMP Sizing Criteria Computations
  - o Exhibit G-Construction Details of the Proposed Drainage System
  - o Exhibit H-Maintenance Plans

References:

- Topographic Survey by Lea & Braze Engineering Inc.
- Grading and Drainage Plans by Lea & Braze Engineering, Inc.
- City of Menlo Park Drainage Criteria
- San Mateo County Water Pollution Prevention Program Stormwater Control Requirements

**Site Information:**

3075 Haven Avenue,

Menlo Park, California

APN: 055-170-240

*See Exhibit A for legal description of site*

**Owner's Information**

3705 Haven LLC

2040 Webster Street

San Francisco, CA 94115

c/o Emerald Xu, [emerald@marchcapitalfund.com](mailto:emerald@marchcapitalfund.com), (917) 874-9893

Pedro Botero-Toro, [pedro@marchcapitalfund.com](mailto:pedro@marchcapitalfund.com), (510) 506-9888

**Engineer's Certification**

This stormwater management plan complies with the City's guidelines and the NPDES permit issued by the Regional Water Quality Control Board

---

Engineer

---

Date

**Owner's Certification**

All stormwater management construction will be done according to this stormwater management plan.

---

Owner

---

Date

**EXHIBIT A  
LEGAL DESCRIPTION**

**3705 HAVEN AVENUE  
MENLO PARK, CALIFORNIA**

## EXHIBIT A

The land referred to is situated in the County of San Mateo, City of Menlo Park, State of California, and is described as follows:

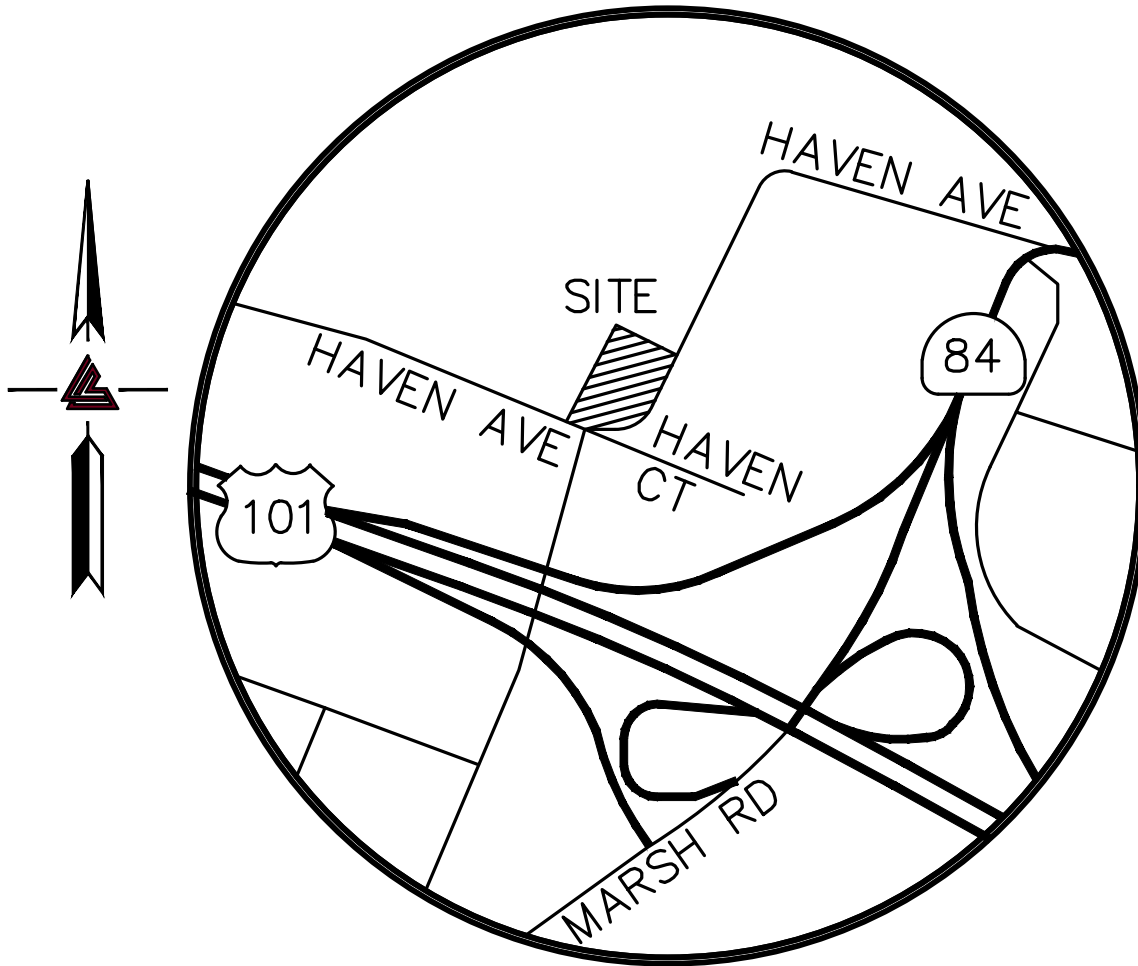
Parcel 1, as shown on that certain Map entitled, "Parcel Map being a re-subdivision of record of survey recorded in Volume 5, Page 89 of Licensed Land Surveyors Maps, being a portion of Lot 4 Sweeney Ranch, San Mateo County, California", filed in the office of the recorder of the County of San Mateo, State of California, on [December 15, 1972 in Book 18 of Parcel maps at page\(s\) 38](#).

APN: 055-170-240

JPN: 055-017-170-24a

**EXHIBIT B  
VICINITY MAP**

**3705 HAVEN AVENUE  
MENLO PARK, CALIFORNIA**



# VICINITY MAP

NO SCALE



**LEA & BRAZE ENGINEERING, INC.**

CIVIL ENGINEERS • LAND SURVEYORS

BAY AREA REGION  
2495 INDUSTRIAL PKWY WEST  
HAYWARD, CALIFORNIA 94545  
(P) (510) 887-4086  
(F) (510) 887-3019

SACRAMENTO REGION  
3017 DOUGLAS BLVD, # 300  
ROSEVILLE, CA 95661  
(P) (916)966-1338  
(F) (916)797-7363

[WWW.LEABRAZE.COM](http://WWW.LEABRAZE.COM)

**3705 HAVEN AVENUE  
MENLO PARK, CALIFORNIA  
EXHIBIT B**

APN: 426-0010-039 PRINT DATE: 05/08/2023

**EXHIBT C**  
**C.3 DATA FORM AND INFILTRATION/HARVESTING AND**  
**USE FEASIBILITY SCREENING WORKSHEET**

**3705 HAVEN AVENUE**  
**MENLO PARK, CALIFORNIA**



## C.3 and C.6 Development Review Checklist

### Municipal Regional Stormwater Permit (MRP) Stormwater Controls for Development Projects

### Project Information

**I.A Enter Project Data** (For "C.3 Regulated Projects," data will be reported in the municipality's stormwater Annual Report.)

Project Name:	3705 Haven LLC - Multi-Family Residential Building	Case Number:
Project Address & Cross St.:	3705 Haven Avenue / Marsh Road.	
Project APN:	055-170-240	Project Watershed: Atherton Channel
Applicant Name:	3705 Haven LLC - Attn: Oliver Davis, Project Manager	<b>I.A.4</b> Slope on Site: 1 %
Applicant Phone:	(310) 498-7575	Applicant Email Address: oliver@marchcapitalfund.com

- Development type: (check all that apply)
- Single Family Residential: A stand-alone home that is not part of a larger project.
  - Single Family Residential: Two or more lot residential development.<sup>1</sup> # of units: \_\_\_\_\_
  - Multi-Family Residential # of units: 99
  - Commercial
  - Industrial, Manufacturing
  - Mixed-Use # of units: \_\_\_\_\_
  - Streets, Roads<sup>2</sup>, etc.
  - 'Redevelopment' as defined by MRP: creating, adding and/or replacing exterior existing impervious surface on a site where past development has occurred.
  - 'Special land use categories' as defined by MRP: (1) auto service facilities<sup>3</sup>, (2) retail gasoline outlets, (3) restaurants, (4) uncovered parking area (stand-alone or part of a larger project)
  - Institutions: schools, libraries, jails, etc.
  - Parks and trails, camp grounds, other recreational
  - Agricultural, wineries
  - Kennels, Ranches
  - Other, Please specify \_\_\_\_\_

**I.A.1**

Project Description<sup>4</sup>:  
(Also note any past or future phases of the project.)

Construction of a new eight-story, multi-family residential building on a previously developed Parcel.

**I.A.2** Total Area of Site: \_\_\_\_\_ 0.661 acres

**I.A.3** Total Area of land disturbed during construction (include clearing, grading, excavating and stockpile area): \_\_\_\_\_ 0.661 acres.

**I.A.5 Certification:**

I certify that the information provided on this form is correct and acknowledge that, should the project exceed the amount of new and/or replaced impervious surface provided in this form, the as-built project may be subject to additional improvements.

- Attach Preliminary Calculations     Attach Final Calculations     Attach copy of site plan showing areas

Name of person completing the form: \_\_\_\_\_ Title: \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Phone number: \_\_\_\_\_ Email address: \_\_\_\_\_

<sup>1</sup> Common Plans of Development (subdivisions or contiguous, commonly owned lots, for the construction of two or more homes developed within 1 year of each other) are not considered single family projects by the MRP.  
<sup>2</sup> Roadway projects creating 10,000 sq.ft. or more of contiguous impervious surface are subject to C.3 requirements if the roadway is new or being widened with additional traffic lanes.  
<sup>3</sup> See Standard Industrial Classification (SIC) codes [here](#)  
<sup>4</sup> Project description examples: 5-story office building, industrial warehouse, residential with five 4-story buildings for 200 condominiums, etc.

**I.B Is the project a “C.3 Regulated Project” per MRP Provision C.3.b?**

**I.B.1 Enter the amount of impervious surface<sup>5</sup> Retained, Replaced and/or Created by the project:**

**Table I.B.1 Impervious<sup>5</sup> and Pervious Surfaces**

Type of Impervious <sup>5</sup> Surface	I.B.1.a	I.B.1.b	I.B.1.c	I.B.1.d	I.B.1.e
	Pre-Project Impervious <sup>5</sup> Surface (sq.ft.)	Existing Impervious <sup>5</sup> Surface to be Retained <sup>6</sup> (sq.ft.)	Existing Impervious <sup>5</sup> Surface to be Replaced <sup>6</sup> (sq.ft.)	New Impervious <sup>5</sup> Surface to be Created <sup>6</sup> (sq.ft.)	Post-Project Impervious <sup>5</sup> Surface (sq.ft.) (=b+c+d)
Roof area(s)	10,368	0	10,368	1,582	11,950
Impervious <sup>5</sup> sidewalks, patios, paths, driveways, streets	651	0	12,505	0	12,505
Impervious <sup>5</sup> uncovered parking <sup>7</sup>	11,854	0	0	0	0
Totals of Impervious Surfaces:	22,873	0	22,873	1,582	24,455
<b>I.B.1.f - Total Impervious<sup>5</sup> Surface Replaced and Created (sum of totals for columns I.B.1.c and I.B.1.d):</b>				24,455	sq. ft.
Type of Pervious Surface	Pre-Project Pervious Surface (sq.ft.)				Post-project Pervious Surface (sq.ft.)
Landscaping	5,935				2,729
Pervious Paving	0				I.B.1.e.1: 1,624
Green Roof	0				0
Totals of Pervious Surfaces:	5,935				4,353
Total Site Area (Total Impervious <sup>5</sup> +Total Pervious=I.A.2)	28,808				28,808

**I.B.2 Please review and attach additional worksheets as required below using the Total Impervious Surface (IS) Replaced and Created in cell I.B.1.f from Table I.B.1 above and other factors:**

	Check all that apply:	Check One		Attach Worksheet
		Yes	No	
I.B.2.a	Does this project involve any earthwork? If YES, then Check Yes, and Complete Worksheet A. If NO, then go to I.B.2.b	<input checked="" type="checkbox"/>	<input type="checkbox"/>	A
I.B.2.b	Is I.B.1.f greater than or equal to 2,500 sq.ft? If YES, then the Project is subject to Provision C.3.i. - complete Worksheets B, C & go to I.B.2.c. If NO, then Stop here - go to I.A.5 and complete Certification or ask municipal staff for Small Project Checklist.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	B, C
I.B.2.c	Is the total Existing IS to be Replaced (column I.B.1.c) 50 percent or more of the total Pre-Project IS (column I.B.1.a)? If YES, site design, source control and treatment requirements apply to the whole site. Continue to I.B.2.d If NO, these requirements apply only to the impervious surface created and/or replaced. Continue to I.B.2.d	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
I.B.2.d	Is this project a Special Land Use Category (I.A.1) and is I.B.1.f greater than or equal to 5,000 sq.ft? If YES, project is a Regulated Project. Fill out Worksheet D. Go to I.B.2.f. If NO, go to I.B.2.e	<input type="checkbox"/>	<input checked="" type="checkbox"/>	D
I.B.2.e	Is I.B.1.f greater than or equal to 10,000 sq.ft? If YES, project is a C.3 Regulated Project - complete Worksheet D. Then continue to I.B.2.f. If NO, then skip to I.B.2.g. N/A for Single Family Residential (Technical Guidance Table 2-1)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	D
I.B.2.f	Is I.B.1.f greater than or equal to 43,560 sq.ft? If YES, project may be subject to Hydromodification Management requirements - complete Worksheet E then continue to I.B.2.g. If NO, then go to I.B.2.g.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	E
I.B.2.g	Is I.A.3 greater than or equal to 1 acre? If YES, check box, obtain coverage under the CA Const. General Permit & submit Notice of Intent to municipality - go to I.B.2.h. If NO, then go to I.B.2.h. For more information see: <a href="http://www.swrcb.ca.gov/water_issues/programs/stormwater/construction.shtml">www.swrcb.ca.gov/water_issues/programs/stormwater/construction.shtml</a>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
I.B.2.h	Is this a Special Project or does it have the potential to be a Special Project? If YES, complete Worksheet F - then continue to I.B.2.i. If NO, go to I.B.2.i.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	F
I.B.2.i	Is project a High Priority Site? (Determined by the Municipality. High Priority Sites can include those located in or within 100 feet of a sensitive habitat, an Area of Special Biological Significance, a body of water, or starting 7/1/16 on sites disturbing >=5,000 ft <sup>2</sup> with slopes >=15% (see I.A.4) (or per municipal criteria/map) and are subject to monthly inspections from Oct 1 to April 30.) If YES, complete section G-2 on Worksheet G - then continue to I.B.2.j. If NO, then go to I.B.2.j	<input type="checkbox"/>	<input checked="" type="checkbox"/>	G
I.B.2.j	For Municipal Staff Use Only: Are you using Alternative Certification for the project review? If YES, then fill out section G-1 on Worksheet G. Fill out other sections of Worksheet G as appropriate. See cell I.B.1.e.1 above - Is the project installing 3,000 square feet or more of pervious paving? If YES, then fill out section G-3 on Worksheet G. Add to Municipal Inspection Lists (C.3.h)	<input type="checkbox"/>	<input type="checkbox"/>	G

<sup>5</sup> Per the MRP, pavement that meets the following definition of pervious pavement is NOT an impervious surface. Pervious pavement is defined as pavement that stores and infiltrates rainfall at a rate equal to immediately surrounding unpaved, landscaped areas, or that stores and infiltrates the rainfall runoff volume described in Provision C.3.

<sup>6</sup> “Retained” means to leave existing impervious surfaces in place, unchanged; “Replaced” means to install new impervious surface where existing impervious surface is removed anywhere on the same property; and “Created” means the amount of new impervious surface being proposed which exceeds the total existing amount of impervious surface at the property.

<sup>7</sup> Uncovered parking includes the top level of a parking structure.

## Worksheet A

<b>C6 – Construction Stormwater BMPs</b>
--

Identify Plan sheet showing the appropriate construction Best Management Practices (BMPs) used on this project:  
(Applies to all projects with earthwork)

Yes	Plan Sheet	Best Management Practice (BMP)
<input checked="" type="checkbox"/>	ER-1	Control and prevent the discharge of all potential pollutants, including pavement cutting wastes, paints, concrete, petroleum products, chemicals, wash water or sediments, rinse water from architectural copper, and non-stormwater discharges to storm drains and watercourses.
<input checked="" type="checkbox"/>	ER-1	Store, handle, and dispose of construction materials/wastes properly to prevent contact with stormwater.
<input checked="" type="checkbox"/>	ER-1	Do not clean, fuel, or maintain vehicles on-site, except in a designated area where wash water is contained and treated.
<input checked="" type="checkbox"/>	ER-1	Train and provide instruction to all employees/subcontractors re: construction BMPs.
<input checked="" type="checkbox"/>	ER-1	Protect all storm drain inlets in vicinity of site using sediment controls such as berms, fiber rolls, or filters.
<input checked="" type="checkbox"/>	ER-1	Limit construction access routes and stabilize designated access points.
<input checked="" type="checkbox"/>	BMP-1	Attach the San Mateo Countywide Water Pollution Prevention Program's construction BMP plan sheet to project plans and require contractor to implement the applicable BMPs on the plan sheet.
<input checked="" type="checkbox"/>	ER-1	Use temporary erosion controls to stabilize all denuded areas until permanent erosion controls are established.
<input checked="" type="checkbox"/>	ER-1	Delineate with field markers clearing limits, easements, setbacks, sensitive or critical areas, buffer zones, trees, and drainage courses.
<input checked="" type="checkbox"/>	ER-1 & BMP-1	Provide notes, specifications, or attachments describing the following: <ul style="list-style-type: none"> <li>▪ Construction, operation and maintenance of erosion and sediment controls, include inspection frequency;</li> <li>▪ Methods and schedule for grading, excavation, filling, clearing of vegetation, and storage and disposal of excavated or cleared material;</li> <li>▪ Specifications for vegetative cover &amp; mulch, include methods and schedules for planting and fertilization;</li> <li>▪ Provisions for temporary and/or permanent irrigation.</li> </ul>
<input checked="" type="checkbox"/>	ER-1	Perform clearing and earth moving activities only during dry weather.
<input checked="" type="checkbox"/>	ER-1	Use sediment controls or filtration to remove sediment when dewatering and obtain all necessary permits.
<input checked="" type="checkbox"/>	ER-1	Trap sediment on-site, using BMPs such as sediment basins or traps, earthen dikes or berms, silt fences, check dams, soil blankets or mats, covers for soil stock piles, etc.
<input checked="" type="checkbox"/>	ER-1	Divert on-site runoff around exposed areas; divert off-site runoff around the site (e.g., swales and dikes).
<input checked="" type="checkbox"/>	ER-1	Protect adjacent properties and undisturbed areas from construction impacts using vegetative buffer strips, sediment barriers or filters, dikes, mulching, or other measures as appropriate.

## Worksheet B

## C3 - Source Controls

Select appropriate source controls and identify the detail/plan sheet where these elements are shown.

Yes	Detail/Plan Sheet No.	Features that require source control measures	Source Control Measures (Refer to Local Source Control List for detailed requirements)
<input checked="" type="checkbox"/>	C-4	Storm Drain	Mark on-site inlets with the words "No Dumping! Flows to Bay" or equivalent.
<input type="checkbox"/>		Floor Drains	Plumb interior floor drains to sanitary sewer <sup>8</sup> [or prohibit].
<input type="checkbox"/>		Parking garage	Plumb interior parking garage floor drains to sanitary sewer. <sup>8</sup>
<input type="checkbox"/>		Landscaping	<ul style="list-style-type: none"> <li>▪ Retain existing vegetation as practicable.</li> <li>▪ Select diverse species appropriate to the site. Include plants that are pest- and/or disease-resistant, drought-tolerant, and/or attract beneficial insects.</li> <li>▪ Minimize use of pesticides and quick-release fertilizers.</li> <li>▪ Use efficient irrigation system; design to minimize runoff.</li> </ul>
<input checked="" type="checkbox"/>	C-4	Pool/Spa/Fountain	Provide connection to the sanitary sewer to facilitate draining. <sup>8</sup>
<input type="checkbox"/>		Food Service Equipment (non-residential)	<p>Provide sink or other area for equipment cleaning, which is:</p> <ul style="list-style-type: none"> <li>▪ Connected to a grease interceptor prior to sanitary sewer discharge.<sup>8</sup></li> <li>▪ Large enough for the largest mat or piece of equipment to be cleaned.</li> <li>▪ Indoors or in an outdoor roofed area designed to prevent stormwater run-on and run-off, and signed to require equipment washing in this area.</li> </ul>
<input type="checkbox"/>		Refuse Areas	<ul style="list-style-type: none"> <li>▪ Provide a roofed and enclosed area for dumpsters, recycling containers, etc., designed to prevent stormwater run-on and runoff.</li> <li>▪ Connect any drains in or beneath dumpsters, compactors, and tallow bin areas serving food service facilities to the sanitary sewer.<sup>8</sup></li> </ul>
<input type="checkbox"/>		Outdoor Process Activities <sup>9</sup>	Perform process activities either indoors or in roofed outdoor area, designed to prevent stormwater run-on and runoff, and to drain to the sanitary sewer. <sup>8</sup>
<input type="checkbox"/>		Outdoor Equipment/ Materials Storage	<ul style="list-style-type: none"> <li>▪ Cover the area or design to avoid pollutant contact with stormwater runoff.</li> <li>▪ Locate area only on paved and contained areas.</li> <li>▪ Roof storage areas that will contain non-hazardous liquids, drain to sanitary sewer<sup>8</sup>, and contain by berms or similar.</li> </ul>
<input type="checkbox"/>		Vehicle/ Equipment Cleaning	<ul style="list-style-type: none"> <li>▪ Roofed, pave and berm wash area to prevent stormwater run-on and runoff, plumb to the sanitary sewer<sup>8</sup>, and sign as a designated wash area.</li> <li>▪ Commercial car wash facilities shall discharge to the sanitary sewer.<sup>8</sup></li> </ul>
<input type="checkbox"/>		Vehicle/ Equipment Repair and Maintenance	<ul style="list-style-type: none"> <li>▪ Designate repair/maintenance area indoors, or an outdoors area designed to prevent stormwater run-on and runoff and provide secondary containment. Do not install drains in the secondary containment areas.</li> <li>▪ No floor drains unless pretreated prior to discharge to the sanitary sewer.<sup>8</sup></li> <li>▪ Connect containers or sinks used for parts cleaning to the sanitary sewer.<sup>8</sup></li> </ul>
<input type="checkbox"/>		Fuel Dispensing Areas	<ul style="list-style-type: none"> <li>▪ Fueling areas shall have impermeable surface that is a) minimally graded to prevent ponding and b) separated from the rest of the site by a grade break.</li> <li>▪ Canopy shall extend at least 10 ft. in each direction from each pump and drain away from fueling area.</li> </ul>
<input type="checkbox"/>		Loading Docks	<ul style="list-style-type: none"> <li>▪ Cover and/or grade to minimize run-on to and runoff from the loading area.</li> <li>▪ Position downspouts to direct stormwater away from the loading area.</li> <li>▪ Drain water from loading dock areas to the sanitary sewer.<sup>8</sup></li> <li>▪ Install door skirts between the trailers and the building.</li> </ul>
<input type="checkbox"/>		Fire Sprinklers	Design for discharge of fire sprinkler test water to landscape or sanitary sewer. <sup>8</sup>
<input type="checkbox"/>		Miscellaneous Drain or Wash Water	<ul style="list-style-type: none"> <li>▪ Drain condensate of air conditioning units to landscaping. Large air conditioning units may connect to the sanitary sewer.<sup>8</sup></li> <li>▪ Roof drains from equipment drain to landscaped area where practicable.</li> <li>▪ Drain boiler drain lines, roof top equipment, all wash water to sanitary sewer.<sup>8</sup></li> </ul>
<input type="checkbox"/>		Architectural Copper Rinse Water	<ul style="list-style-type: none"> <li>▪ Drain rinse water to landscaping, discharge to sanitary sewer<sup>8</sup>, or collect and dispose properly offsite. See flyer "Requirements for Architectural Copper."</li> </ul>

<sup>8</sup> Any connection to the sanitary sewer system is subject to sanitary district approval.

<sup>9</sup> Businesses that may have outdoor process activities/equipment include machine shops, auto repair, industries with pretreatment facilities.

## Worksheet C

<b>Low Impact Development – Site Design Measures</b>
--

**Select Appropriate Site Design Measures** (Required for C.3 Regulated Projects; all other projects are encouraged to implement site design measures, which may be required at municipality discretion.) Projects that create and/or replace 2,500 – 10,000 sq.ft. of impervious surface, and stand-alone single family homes that create/replace 2,500 sq.ft. or more of impervious surface, must include **one of Site Design Measures a through f** (Provision C.3.i requirements).<sup>10</sup> Larger projects must also include applicable Site Design Measures g through i. Consult with municipal staff about requirements for your project.

Select appropriate site design measures and identify the Plan Sheet where these elements are shown.

Yes	Plan Sheet Number	
<input type="checkbox"/>		a. Direct roof runoff into cisterns or rain barrels and use rainwater for irrigation or other non-potable use.
<input checked="" type="checkbox"/>	SCP-2	b. Direct roof runoff onto vegetated areas.
<input type="checkbox"/>		c. Direct runoff from sidewalks, walkways, and/or patios onto vegetated areas.
<input type="checkbox"/>		d. Direct runoff from driveways and/or uncovered parking lots onto vegetated areas.
<input checked="" type="checkbox"/>	SCP-1	e. Construct sidewalks, walkways, and/or patios with pervious or permeable surfaces. Use the specifications in the C3 Technical Guidance (Version 4.1) downloadable at <a href="http://www.flowstobay.org/newdevelopment">www.flowstobay.org/newdevelopment</a> .
<input type="checkbox"/>		f. Construct bike lanes, driveways, and/or uncovered parking lots with pervious surfaces. Use the specifications in the C3 Technical Guidance (Version 4.1) downloadable at <a href="http://www.flowstobay.org/newdevelopment">www.flowstobay.org/newdevelopment</a> .
<input type="checkbox"/>		g. Limit disturbance of natural water bodies and drainage systems; minimize compaction of highly permeable soils; protect slopes and channels; and minimize impacts from stormwater and urban runoff on the biological integrity of natural drainage systems and water bodies.
<input type="checkbox"/>		h. Conserve natural areas, including existing trees, other vegetation and soils.
<input type="checkbox"/>		i. Minimize impervious surfaces.

Regulated Projects can also consider the following site design measures to reduce treatment system sizing:

Yes	Plan Sheet Number	
<input checked="" type="checkbox"/>	SCP-1	j. Self-treating area (see Section 4.2 of the C.3 Technical Guidance)
<input type="checkbox"/>		k. Self-retaining area (see Section 4.3 of the C.3 Technical Guidance)
<input type="checkbox"/>		l. Plant or preserve interceptor trees (Section 4.1, C.3 Technical Guidance)

<sup>10</sup> See MRP Provision C.3.a.i.(6) for non-C.3 Regulated Projects, C.3.c.i.(2)(a) for Regulated Projects, C.3.i for projects that create/replace 2,500 to 10,000 sq.ft. of impervious surface and stand-alone single family homes that create/replace 2,500 sq.ft. or more of impervious surface.

## Worksheet D

<b>C3 Regulated Project - Stormwater Treatment Measures</b>
---

Check all applicable boxes and indicate the treatment measure(s) included in the project.

Yes											
<input type="checkbox"/>	<p>Is the project a <b>Special Project</b>?<sup>11</sup></p> <p>If yes, consult with municipal staff about the need to evaluate the feasibility and infeasibility of 100% LID treatment. Indicate the type of non-LID treatment to be used, the hydraulic sizing method<sup>12</sup>, and percentage of the amount of runoff specified in Provision C.3.d that is treated:</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; border-bottom: 1px solid black;">Non-LID Treatment Measures:</th> <th style="text-align: left; border-bottom: 1px solid black;">Hydraulic sizing method<sup>12</sup></th> <th style="text-align: right; border-bottom: 1px solid black;">% of C.3.d amount of runoff treated</th> </tr> </thead> <tbody> <tr> <td><input type="checkbox"/> Media filter</td> <td><input type="checkbox"/>2.a <input type="checkbox"/>2.b <input type="checkbox"/>2.c</td> <td style="text-align: right;">____%</td> </tr> <tr> <td><input type="checkbox"/> Tree well filter</td> <td><input type="checkbox"/>2.a <input type="checkbox"/>2.b <input type="checkbox"/>2.c</td> <td style="text-align: right;">____%</td> </tr> </tbody> </table>	Non-LID Treatment Measures:	Hydraulic sizing method <sup>12</sup>	% of C.3.d amount of runoff treated	<input type="checkbox"/> Media filter	<input type="checkbox"/> 2.a <input type="checkbox"/> 2.b <input type="checkbox"/> 2.c	____%	<input type="checkbox"/> Tree well filter	<input type="checkbox"/> 2.a <input type="checkbox"/> 2.b <input type="checkbox"/> 2.c	____%	
Non-LID Treatment Measures:	Hydraulic sizing method <sup>12</sup>	% of C.3.d amount of runoff treated									
<input type="checkbox"/> Media filter	<input type="checkbox"/> 2.a <input type="checkbox"/> 2.b <input type="checkbox"/> 2.c	____%									
<input type="checkbox"/> Tree well filter	<input type="checkbox"/> 2.a <input type="checkbox"/> 2.b <input type="checkbox"/> 2.c	____%									
<input type="checkbox"/>	<p>Is the project using infiltration systems?</p> <p>The MRP no longer requires the use or analysis of the feasibility of infiltration, but infiltration systems are encouraged and may be beneficial depending on the project.</p> <p>Indicate the infiltration measures to be used, and hydraulic sizing method:</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; border-bottom: 1px solid black;">Infiltration Measures:</th> <th style="text-align: left; border-bottom: 1px solid black;">Hydraulic sizing method<sup>12</sup></th> </tr> </thead> <tbody> <tr> <td><input type="checkbox"/> Bioinfiltration<sup>13</sup></td> <td><input type="checkbox"/>1.a <input type="checkbox"/>1.b <input type="checkbox"/>2.c <input type="checkbox"/>3</td> </tr> <tr> <td><input type="checkbox"/> Pervious Pavement</td> <td><input type="checkbox"/>1.a <input type="checkbox"/>1.b</td> </tr> <tr> <td><input type="checkbox"/> Infiltration trench</td> <td><input type="checkbox"/>1.a <input type="checkbox"/>1.b</td> </tr> <tr> <td><input type="checkbox"/> Other (specify): _____</td> <td></td> </tr> </tbody> </table>	Infiltration Measures:	Hydraulic sizing method <sup>12</sup>	<input type="checkbox"/> Bioinfiltration <sup>13</sup>	<input type="checkbox"/> 1.a <input type="checkbox"/> 1.b <input type="checkbox"/> 2.c <input type="checkbox"/> 3	<input type="checkbox"/> Pervious Pavement	<input type="checkbox"/> 1.a <input type="checkbox"/> 1.b	<input type="checkbox"/> Infiltration trench	<input type="checkbox"/> 1.a <input type="checkbox"/> 1.b	<input type="checkbox"/> Other (specify): _____	
Infiltration Measures:	Hydraulic sizing method <sup>12</sup>										
<input type="checkbox"/> Bioinfiltration <sup>13</sup>	<input type="checkbox"/> 1.a <input type="checkbox"/> 1.b <input type="checkbox"/> 2.c <input type="checkbox"/> 3										
<input type="checkbox"/> Pervious Pavement	<input type="checkbox"/> 1.a <input type="checkbox"/> 1.b										
<input type="checkbox"/> Infiltration trench	<input type="checkbox"/> 1.a <input type="checkbox"/> 1.b										
<input type="checkbox"/> Other (specify): _____											
<input type="checkbox"/>	<p>Is the project harvesting and using rainwater?</p> <p>The MRP no longer requires the use or analysis of the feasibility of rainwater harvesting, but it rainwater harvesting and use is encouraged and may be beneficial depending on the project.</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; border-bottom: 1px solid black;">Rainwater Harvesting/Use Measures:</th> <th style="text-align: left; border-bottom: 1px solid black;">Hydraulic sizing method<sup>12</sup></th> </tr> </thead> <tbody> <tr> <td><input type="checkbox"/> Rainwater Harvesting for indoor non-potable water use</td> <td><input type="checkbox"/>1.a <input type="checkbox"/>1.b</td> </tr> <tr> <td><input type="checkbox"/> Rainwater Harvesting for landscape irrigation use</td> <td><input type="checkbox"/>1.a <input type="checkbox"/>1.b</td> </tr> </tbody> </table>	Rainwater Harvesting/Use Measures:	Hydraulic sizing method <sup>12</sup>	<input type="checkbox"/> Rainwater Harvesting for indoor non-potable water use	<input type="checkbox"/> 1.a <input type="checkbox"/> 1.b	<input type="checkbox"/> Rainwater Harvesting for landscape irrigation use	<input type="checkbox"/> 1.a <input type="checkbox"/> 1.b				
Rainwater Harvesting/Use Measures:	Hydraulic sizing method <sup>12</sup>										
<input type="checkbox"/> Rainwater Harvesting for indoor non-potable water use	<input type="checkbox"/> 1.a <input type="checkbox"/> 1.b										
<input type="checkbox"/> Rainwater Harvesting for landscape irrigation use	<input type="checkbox"/> 1.a <input type="checkbox"/> 1.b										
<input checked="" type="checkbox"/>	<p>Is the project installing biotreatment measures?</p> <p>Indicate the biotreatment measures to be used, and the hydraulic sizing method:</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; border-bottom: 1px solid black;">Biotreatment Measures:</th> <th style="text-align: left; border-bottom: 1px solid black;">Hydraulic sizing method<sup>12</sup></th> </tr> </thead> <tbody> <tr> <td><input type="checkbox"/> Bioretention area</td> <td><input type="checkbox"/>2.c <input type="checkbox"/>3</td> </tr> <tr> <td><input checked="" type="checkbox"/> Flow-through planter</td> <td><input checked="" type="checkbox"/>2.c <input type="checkbox"/>3</td> </tr> <tr> <td><input type="checkbox"/> Other (specify): _____</td> <td></td> </tr> </tbody> </table>	Biotreatment Measures:	Hydraulic sizing method <sup>12</sup>	<input type="checkbox"/> Bioretention area	<input type="checkbox"/> 2.c <input type="checkbox"/> 3	<input checked="" type="checkbox"/> Flow-through planter	<input checked="" type="checkbox"/> 2.c <input type="checkbox"/> 3	<input type="checkbox"/> Other (specify): _____			
Biotreatment Measures:	Hydraulic sizing method <sup>12</sup>										
<input type="checkbox"/> Bioretention area	<input type="checkbox"/> 2.c <input type="checkbox"/> 3										
<input checked="" type="checkbox"/> Flow-through planter	<input checked="" type="checkbox"/> 2.c <input type="checkbox"/> 3										
<input type="checkbox"/> Other (specify): _____											

A copy of the long term Operations and Maintenance (O&M) Agreement and Plan for this project will be required. Please contact the NPDES Representative of the applicable municipality for an agreement template and consult the C.3 Technical Guidance at [www.flowstobay.org](http://www.flowstobay.org) for maintenance plan templates for specific facility types.

<sup>11</sup> Special Projects are smart growth, high density, or transit-oriented developments with the criteria defined in Provision C.3.e.ii.(2), (3) or (4) (see Worksheet F).

<sup>12</sup> Indicate which of the following Provision C.3.d.i hydraulic sizing methods were used. Volume based approaches: 1(a) Urban Runoff Quality Management approach, or 1(b) 80% capture approach (recommended volume-based approach). Flow-based approaches: 2(a) 10% of 50-year peak flow approach, 2(b) 2 times the 85<sup>th</sup> percentile rainfall intensity approach, or 2(c) 0.2-Inch-per-hour intensity approach (recommended flow-based approach – also known as the 4% rule). Combination flow and volume-based approach: 3.

<sup>13</sup> See Section 6.1 of the C.3 Technical Guidance for conditions in which bioretention areas provide bioinfiltration.

## Worksheet G (For municipal staff use only)

**G-1 Alternative Certification:** Were the treatment and/or HM control sizing and design reviewed by a qualified third-party professional that is not a member of the project team or agency staff?

Yes     No    Name of Reviewer \_\_\_\_\_

**G-2 High Priority Site:** High Priority Sites can include those located in or within 100 feet of a sensitive habitat, an Area of Special Biological Significance (ASBS), a body of water, or **starting 7/1/16** on "hillside projects" disturbing  $\geq 5,000$  sq.ft. of land and with steep slopes (of  $\geq 15\%$  - see cell **I.A.4** - or as identified by municipal criteria or map). These sites are subject to monthly inspections from Oct 1 to April 30. See MRP Provision C.6.e.ii.(2).

Yes     No    If yes, then add site to Staff's Monthly Rainy Season Construction Site Inspection List

**G-3 Inspections of Sites with Pervious Paving: Starting 7/1/16,** Regulated projects that are installing 3,000 sq.ft. or more of pervious paving (see cell **I.B.1.e.1**) (excluding private-use patios in single family homes, townhomes, or condominiums) must have the paving system inspected by the jurisdiction upon completion of the installation and the site must be added to the jurisdiction's list of sites needing inspections at least once every five years – see provision C.3.h. Pervious pavement systems include pervious concrete, pervious asphalt, pervious pavers and grid pavers etc. and are described in the C3 Technical Guidance (Version 4.1) downloadable at: [www.flowstobay.org/newdevelopment](http://www.flowstobay.org/newdevelopment).

Yes     No    If yes, then add site to Staff's Lists for Inspections at the end of Construction and O&M.

### Operations and Maintenance (O&M) Submittals

**G-4** Stormwater Treatment Measure and/HM Control Owner or Operator's Information:

Name: \_\_\_\_\_

Address: \_\_\_\_\_

Phone: \_\_\_\_\_ Email: \_\_\_\_\_

➤ *Applicant must call for inspection and receive inspection within 45 days of installation of treatment measures and/or hydromodification management controls.*

*The following questions apply to C.3 Regulated Projects and Hydromodification Management Projects.*

	Yes	No	N/A
G-4.1 Was maintenance plan submitted?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
G-4.2 Was maintenance plan approved?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
G-4.3 Was maintenance agreement submitted? (Date executed: _____)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

➤ *Attach the executed maintenance agreement as an appendix to this checklist.*

**G-5 Annual Operations and Maintenance (O&M) Submittals (for municipal staff use only):**

*For C.3 Regulated Projects and Hydromodification Management Projects, indicate the dates on which the Applicant submitted annual reports for project O&M:*

\_\_\_\_\_

**G-6 Comments (for municipal staff use only):**



**G-7 NOTES (for municipal staff use only):**

Section I Notes: \_\_\_\_\_  
 Worksheet A Notes: \_\_\_\_\_  
 Worksheet B Notes: \_\_\_\_\_  
 Worksheet C Notes: \_\_\_\_\_  
 Worksheet D Notes: \_\_\_\_\_  
 Worksheet E Notes: \_\_\_\_\_  
 Worksheet F Notes: \_\_\_\_\_

**G-8 Project Close-Out (for municipal staff use only):**

	<b>Yes</b>	<b>No</b>	<b>NA</b>
8.1 Were final Conditions of Approval met?	<input type="checkbox"/>	<input type="checkbox"/>	
8.2 Was initial inspection of the completed treatment/HM measure(s) conducted? (Date of inspection: _____)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8.3 Was maintenance plan submitted? (Date executed: _____)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8.4 Was project information provided to staff responsible for O&M verification inspections? (Date provided to inspection staff: _____)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**G-9 Project Close-Out (Continued -- for municipal staff use only):**

Name of staff confirming project is closed out: \_\_\_\_\_  
 Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
 Name of O&M staff receiving information: \_\_\_\_\_  
 Signature: \_\_\_\_\_ Date: \_\_\_\_\_



## Infiltration/Harvesting and Use Feasibility Screening Worksheet

Apply these screening criteria for **C.3 Regulated Projects**\* required to implement Provision C.3 stormwater treatment requirements. See the Glossary (Attachment 1) for definitions of terms marked with an asterisk (\*). Contact municipal staff to determine whether the project meets **Special Project**\* criteria. If the project meets Special Project criteria, it will receive LID treatment reduction credits.

### 1. Applicant Info

Site Address: 3705 Haven Avenue, Menlo Park, CA APN: 055-170-240  
 Applicant Name: 3705 Haven LLC Phone No.: \_\_\_\_\_  
 Mailing Address: 2040 Webster Street, San Francisco, CA 94111

### 2. Feasibility Screening for Infiltration

Do site soils either (a) have a **saturated hydraulic conductivity**\* (Ksat) that will NOT allow infiltration of 80% of the annual runoff (that is, the Ksat is LESS than 1.6 inches/hour), or, if the Ksat rate is not available, (b) consist of Type C or D soils?<sup>1</sup>

- Yes (continue)       No – complete the Infiltration Feasibility Worksheet. If infiltration of the C.3.d amount of runoff is found to be feasible, there is no need to complete the rest of this screening worksheet.

### 3. Recycled Water Use

Check the box if the project is installing and using a recycled water plumbing system for non-potable water use.

- The project is installing a recycled water plumbing system, and the installation of a second non-potable water system for harvested rainwater is impractical, and considered infeasible due to cost considerations. Skip to Section 6.

### 4. Calculate the Potential Rainwater Capture Area\* for Screening of Harvesting and Use

Complete this section for the entire project area. If completing this form shows that rainwater harvesting and use is infeasible for the entire project, and the project includes one or more buildings that each have an individual roof area of 10,000 sq. ft. or more, then complete Sections 4 and 5 of this form for each of these buildings. For special projects that receive < 100% LID treatment reduction, skip Sections 4 through 6 of this form and use the Rainwater Harvesting and Use Feasibility Worksheet to determine feasibility of harvest and use.

- 4.1 Table 1 for (check one):  The whole project       Area of 1 building roof (10,000 sq.ft. min.)

<b>Table 1: Calculation of the Potential Rainwater Capture Area*</b>				
<i>The Potential Rainwater Capture Area may consist of either the entire project area or one building with a roof area of 10,000 sq. ft. or more.</i>				
	1	2	3	4
	Pre-Project Impervious surface <sup>2</sup> (sq.ft.), if applicable	Proposed Impervious Surface <sup>2</sup> (IS), in sq. ft.		Post-project landscaping (sq.ft.), if applicable
		Replaced <sup>3</sup> IS	Created <sup>4</sup> IS	
a. Enter the totals for the area to be evaluated:	22,873	22,873	1,582	4,358
b. Sum of replaced and created impervious surface:	N/A	24,455		N/A
c. Area of existing impervious surface that will NOT be replaced by the project.	0	N/A		N/A

<sup>1</sup> Base this response on the site-specific soil report, if available. If this is not available, consult soil hydraulic conductivity maps in Attachment 3.

<sup>2</sup> Enter the total of all impervious surfaces, including the building footprint, driveway(s), patio(s), impervious deck(s), unroofed porch(es), uncovered parking lot (including top deck of parking structure), impervious trails, miscellaneous paving or structures, and off-lot impervious surface (new, contiguous impervious surface created from road projects, including sidewalks and/or bike lanes built as part of new street). Impervious surfaces do NOT include vegetated roofs or pervious pavement that stores and infiltrates rainfall at a rate equal to immediately surrounding, unpaved landscaped areas, or that stores and infiltrates the **C.3.d amount of runoff**\*.

<sup>3</sup> "Replaced" means that the project will install impervious surface where existing impervious surface is removed.

<sup>4</sup> "Created" means the project will install new impervious surface where there is currently no impervious surface.

\* For definitions, see Glossary (Attachment 1).

4.2 Answer this question ONLY if you are completing this section for the entire project area. If existing impervious surface will be replaced by the project, does the area to be replaced equal at least 50%, but less than 100%, of the existing area of impervious surface? (Refer to Table 1, Row "a". Is the area in Column 2  $\geq$  50%, but < 100%, of Column 1?)

- Yes, C.3. stormwater treatment requirements apply to areas of impervious surface that will remain in place as well as the area created and/or replaced. This is known as the 50% rule.
- No, C.3. requirements apply only to the impervious area created and/or replaced.

4.3 Enter the square footage of the **Potential Rainwater Capture Area\***. If you are evaluating only the roof area of a building, or you answered "no" to Question 4.2, this amount is from Row "b" in Table 1. If you answered "yes" to Question 4.2, this amount is the sum of Rows "b" and "c" in Table 1.:

24,455 square feet.

4.4 Convert the measurement of the **Potential Rainwater Capture Area\*** from square feet to acres (divide the amount in Item 4.3 by 43,560):

0.56 acres.

## 5. Feasibility Screening for Rainwater Harvesting and Use

5.1 Use of harvested rainwater for landscape irrigation:

Is the onsite landscaping LESS than 3.2 times the size of the **Potential Rainwater Capture Area\*** (Item 4.3)? (Note that the landscape area(s) would have to be contiguous and within the same Drainage Management Area to use harvested rainwater for irrigation via gravity flow.)

- Yes (continue)       No – direct runoff from impervious areas to **self-retaining areas\*** OR refer to Table 11 and the curves in Appendix F of the LID Feasibility Report to evaluate feasibility of harvesting and using the C.3.d amount of runoff for irrigation.

5.2 Use of harvested rainwater for toilet flushing or non-potable industrial use:

- a. Residential Projects: Proposed number of dwelling units: 99  
Calculate the dwelling units per impervious acre by dividing the number of dwelling units by the acres of the **Potential Rainwater Capture Area\*** in Item 4.4. Enter the result here:

176

Is the number of dwelling units per impervious acre LESS than 124 (assuming 2.7 occupants/unit)?

- Yes (continue)       No – complete the Harvest/Use Feasibility Worksheet.

- b. Commercial/Industrial Projects: Proposed interior floor area: \_\_\_\_\_ (sq. ft.)

Calculate the proposed interior floor area (sq.ft.) per acre of impervious surface by *dividing the interior floor area (sq.ft.) by the acres of the **Potential Rainwater Capture Area\*** in Item 4.4. Enter the result here:*

\_\_\_\_\_

Does square footage of the interior floor space per impervious acre equal LESS than 84,000?)

- Yes (continue)       No – complete the Harvest/Use Feasibility Worksheet

- c. School Projects: Proposed interior floor area: \_\_\_\_\_ (sq. ft.)

Calculate the proposed interior floor area per acre of impervious surface by *dividing the interior floor area (sq.ft.) by the acres of the **Potential Rainwater Capture Area\*** in Item 4.4. Enter the result here:*

\_\_\_\_\_

Does square footage of the interior floor space per impervious acre equal LESS than 27,000?)

\* For definitions, see Glossary (Attachment 1).

- Yes (continue)       No – complete the Harvest/Use Feasibility Worksheet

d. Mixed Commercial and Residential Use Projects

- Evaluate the residential toilet flushing demand based on the dwelling units per impervious acre for the residential portion of the project, following the instructions in Item 5.2.a, except you will use a prorated acreage of impervious surface, based on the percentage of the project dedicated to residential use.
- Evaluate the commercial toilet flushing demand per impervious acre for the commercial portion of the project, following the instructions in Item 5.2.b, except you will use a prorated acreage of impervious surface, based on the percentage of the project dedicated to commercial use.

e. Industrial Projects: Estimated non-potable water demand (gal/day): \_\_\_\_\_

Is the non-potable demand LESS than 2,900 gal/day per acre of the Potential Rainwater Capture Area?

- Yes (continue)       No – refer to the curves in Appendix F of the LID Feasibility Report to evaluate feasibility of harvesting and using the C.3.d amount of runoff for industrial use.

**6. Use of Biotreatment**

If only the “Yes” boxes were checked for all questions in Sections 2 and 5, or the project will have a recycled water system for non-potable use (Section 3), then the applicant may use appropriately designed bioretention facilities for compliance with C.3 treatment requirements. The applicant is encouraged to maximize infiltration of stormwater if site conditions allow.

**7. Results of Screening Analysis**

Based on this screening analysis, the following steps will be taken for the project (If biotreatment is allowed, check the biotreatment option only. If further analysis is needed, check all that apply):

- Implement biotreatment measures (such as an appropriately designed bioretention area).
- Conduct further analysis of infiltration feasibility by completing the Infiltration Feasibility Worksheet.
- Conduct further analysis of rainwater harvesting and use by (check one):
  - Completing the Rainwater Harvesting and Use Feasibility Worksheet for:
    - The entire project
    - Individual building(s), if applicable, describe: \_\_\_\_\_
  - Evaluating the feasibility of harvesting and using the C.3.d amount of runoff for irrigation, based on Table 11 and the curves in Appendix F of the LID Feasibility Report
  - Evaluating the feasibility of harvesting and using the C.3.d amount of runoff for non-potable industrial use, based on the curves in Appendix F of the LID Feasibility Report.

\* For definitions, see Glossary (Attachment 1).

**EXHIBIT D**  
**GEO TECHNICAL INVESTIGATION**

**3705 HAVEN AVENUE**  
**MENLO PARK, CALIFORNIA**

Prepared for **March Capital Fund**

**GEOTECHNICAL INVESTIGATION  
PROPOSED RESIDENTIAL BUILDING  
3705 HAVEN AVENUE  
MOUNTAIN VIEW, CALIFORNIA**

DRAFT

***UNAUTHORIZED USE OR COPYING OF THIS DOCUMENT IS STRICTLY  
PROHIBITED BY ANYONE OTHER THAN THE CLIENT FOR THE SPECIFIC  
PROJECT***

February 10, 2022  
Project No. 22-2153

## TABLE OF CONTENTS

1.0	INTRODUCTION .....	1
2.0	SCOPE OF SERVICES .....	1
3.0	FIELD INVESTIGATION AND LABORATORY TESTING.....	2
3.1	Cone Penetration Tests .....	2
3.2	Test Boring.....	3
3.3	Laboratory Testing.....	4
4.0	SUBSURFACE CONDITIONS .....	5
4.1	Groundwater Conditions.....	5
5.0	SEISMIC CONSIDERATIONS .....	6
5.1	Regional Seismicity and Faulting .....	6
5.2	Geologic Hazards.....	8
5.2.1	Ground Shaking .....	8
5.2.2	Liquefaction and Associated Hazards.....	9
5.2.3	Cyclic Densification.....	11
5.2.4	Ground Surface Fault Rupture.....	11
6.0	DISCUSSION AND CONCLUSIONS .....	11
6.1	Expansive Soil .....	12
6.2	Foundation Support and Settlement.....	12
6.3	Construction Considerations.....	13
6.4	Soil Corrosivity.....	14
7.0	RECOMMENDATIONS.....	14
7.1	Site Preparation and Grading.....	14
7.1.1	Soil Subgrade Stabilization.....	16
7.1.2	Select Fill .....	19
7.1.3	Exterior Flatwork Subgrade Preparation .....	19
7.1.4	Utility Trench Backfill.....	20
7.2	Surface Drainage and Landscaping .....	21
7.2.1	Surface Drainage.....	21
7.2.2	Landscaping.....	21
7.3	Mat Foundation.....	22
7.4	Retaining Walls.....	24
7.5	Pavement Design .....	26
7.5.1	Flexible (Asphalt Concrete) Pavement Design.....	26
7.5.2	Rigid (Portland-Cement Concrete) Pavement .....	27
7.6	Pavers.....	27
7.6.1	Non-Permeable Concrete Pavers .....	28
7.7	Seismic Design.....	28

8.0	GEOTECHNICAL SERVICES DURING CONSTRUCTION .....	29
9.0	LIMITATIONS.....	29

REFERENCES

FIGURES

APPENDIX A – Cone Penetration Test Results and Boring Log

APPENDIX B – Laboratory Test Results

**LIST OF FIGURES**

Figure 1	Site Location Map
Figure 2	Site Plan
Figure 3	Regional Geologic Map
Figure 4	Regional Fault Map
Figure 5	Earthquake Zone of Required Investigation
Figure 6	Utility Trench Plug Detail

**APPENDIX A**

Figures A-1 through A-7	Cone Penetration Test Results
Figure A-8	Log of Test Boring
Figure A-9	Soil Classification Chart

**APPENDIX B**

Figure B-1	Plasticity Chart
Figure B-2	Particle Size Distribution Report
Figures B-3 through B-6	Consolidation Test Results
Figure B-7	Corrosivity Test Results

**GEOTECHNICAL INVESTIGATION  
PROPOSED RESIDENTIAL BUILDING  
3705 HAVEN AVENUE  
Menlo Park, California**

## **1.0 INTRODUCTION**

This report presents the results of the geotechnical investigation performed by Rockridge Geotechnical for the proposed residential building to be constructed at 3705 Haven Avenue in Menlo Park, California. The project site is on the northwestern side of the intersection of Haven Avenue and Haven Court, as shown on the Site Location Map, Figure 1.

The site is a relatively level, rectangular-shaped lot with plan dimensions of approximately 150 by 198 feet. It is bordered by commercial properties to the north and west, and by Haven Avenue to the east and south. The site is currently occupied by a one-story commercial building with adjacent landscaping and asphalt-paved parking

We understand plans include demolition of the existing improvements and construction of an at-grade, seven-story, podium-style residential building. The proposed building will be constructed with five stories of Type V materials over a two-story concrete podium.

## **2.0 SCOPE OF SERVICES**

Our investigation was performed in accordance with our proposal dated December 13, 2021. Our scope of work consisted of exploring subsurface conditions at the site by performing seven cone penetration tests (CPTs), drilling one test boring, performing laboratory testing on selected soil samples, and performing engineering analyses to develop conclusions and recommendations regarding:

- site seismicity and seismic hazards, including the potential for liquefaction and liquefaction-induced ground failure
- design groundwater table
- the most appropriate foundation type(s) for the proposed building
- design criteria for the recommended foundation type(s)



- estimates of foundation settlement
- slab-on-grade floors
- lateral earth pressures for permanent below-grade walls
- site grading and fill placement, including fill quality and compaction requirements
- 2019 California Building Code (CBC) site class and design spectral response acceleration parameters
- corrosivity of the near-surface soil and the potential effects on buried concrete and metal structures and foundations, and recommendations for corrosion protection
- rigid and flexible pavement design
- permeable and non-permeable pavers
- construction considerations.

### **3.0 FIELD INVESTIGATION AND LABORATORY TESTING**

We explored the subsurface conditions at the site by performing seven CPTs and drilling one test boring. Prior to performing the CPTs and drilling the boring, we filed drilling notification forms with San Mateo County Environmental Health (SMCEH) and contacted Underground Service Alert (USA) to notify them of our work, as required by law. We also retained C. Cruz Subsurface Locators, a private utility locator, to check that the boring and CPT locations were clear of underground utilities. Details of our field exploration are described in this section.

#### **3.1 Cone Penetration Tests**

Seven CPTs, designated as CPT-1 through CPT-7, were performed by Middle Earth Geo Testing, Inc. of Orange, California on January 21, 2022. The CPTs were performed at the approximate locations shown on the Site Plan, Figure 2. The CPTs were advanced to depths of 50 to 100 feet below ground surface (bgs) by hydraulically pushing a 1.7-inch-diameter, cone-tipped probe into the ground. The cone-tipped probe measured tip resistance, and the friction sleeve behind the cone tip measured frictional resistance. Electrical strain gauges within the cone continuously measured soil parameters for the entire depth advanced. A special cone was also used to measure the in-situ soil shear wave velocity in approximately five-foot intervals at CPT-3. Soil data, including tip resistance, frictional resistance, and shear wave velocity, were recorded

by a computer while the test was conducted. Accumulated data were processed by computer to provide engineering information, such as the soil behavior types and approximate strength characteristics of the soil encountered. The CPT logs showing tip resistance and friction ratio, as well as interpreted soil behavior type and shear wave velocity profiles, are presented on Figures A-1 through A-7 in Appendix A.

Upon completion, the CPT holes were backfilled with neat cement grout in accordance with SMCEH requirements, and the pavement surface was patched with quick-set concrete.

### **3.2 Test Boring**

One boring, designated as B-1, was drilled on January 12, 2022, by Pitcher Services, LLC of East Palo Alto, California at the approximate location shown on the Site Plan, Figure 2. Boring B-1 was drilled to a depth of 91 feet bgs using a truck-mounted drill rig equipped with rotary-wash equipment. During drilling, our field engineer logged the soil encountered and obtained samples for visual classification and laboratory testing. The log of Boring B-1 is presented in Appendix A on Figures A-8a through A-8c. The soil encountered in the boring was classified in accordance with the classification chart shown on Figure A-9.

Soil samples were obtained using the following samplers:

- Modified California (MC) split-barrel sampler with a 3.0-inch outside diameter and 2.5-inch inside diameter, lined with 2.43-inch inside diameter brass/stainless steel tubes.
- Standard Penetration Test (SPT) split-barrel sampler with a 2.0-inch outside and 1.5-inch inside diameter, without liners.
- Dames and Moore (DM) thin-walled tubes with a 2.5-inch outside and 2.43-inch inside diameter.

The MC and SPT samplers were driven with a 140-pound, automatic safety hammer falling 30 inches per drop. The samplers were driven up to 18 inches, and the hammer blows required to drive the samplers were recorded every six inches and are presented on the boring log. A “blow count” is defined as the number of hammer blows per six inches of penetration or 50 blows for six inches or less of penetration. The blow counts required to drive the MC and SPT samplers

were converted to approximate SPT N-values using factors of 0.84 and 1.44, respectively, to account for sampler type, approximate hammer energy (previously measured by the drilling subcontractor), and the fact that the SPT sampler was designed to accommodate liners, but liners were not used. The blow counts used for this conversion were the last two 6-inch blow counts, the last one blow count if the sampler was driven more than six inches but less than 12 inches, or the only blow count if the sampler was driven six inches or less. The converted SPT N-values are presented on the boring log.

The DM tubes were used in an attempt to obtain relatively undisturbed samples of medium stiff to stiff, fine-grained soils. The DM tubes were slowly advanced using the weight of the drill rods and hydraulic pressure, as needed. The hydraulic pressure required to obtain each DM sample is listed on the boring log.

Upon completion of drilling, the boreholes were backfilled with cement grout in accordance with SMCEH requirements and the pavement was patched with quick-set concrete. The soil cuttings from the borings were placed in 55-gallon drums and are scheduled to be removed from the site for disposal on February 24, 2022.

### **3.3 Laboratory Testing**

Laboratory tests were performed on selected soil samples from our boring to assess their engineering properties and physical characteristics. Soil samples were tested by B. Hillebrandt Soils Testing, Inc. of Alamo, California to measure moisture content, dry density, plasticity (Atterberg limits), and fines content. Three soil samples were also tested by Inspection Services Inc. of Berkeley, California to measure consolidation properties. Soil corrosivity testing was also performed on near-surface soil samples by Project X Corrosion Engineering of Murrieta, California. The results of the geotechnical laboratory tests are presented on the boring log and attached in Appendix B.

## 4.0 SUBSURFACE CONDITIONS

As presented on the Regional Geologic Map (Figure 3), the site is mapped as being underlain by Holocene-age alluvial deposits (Qha). The results of our boring and CPTs indicate the alluvium primarily consists of stiff to very stiff clay with occasional medium stiff layers up to about one foot thick. The clay is interbedded with layers of medium dense to very dense sand and gravel to the maximum depth explored of about 100 feet bgs. The granular layers encountered at this site vary in thickness from approximately 1 to 16 feet.

The results of an Atterberg limits test performed on a sample of the near-surface clay obtained from the boring indicate it is highly expansive<sup>1</sup>.

### 4.1 Groundwater Conditions

Groundwater was measured in each CPT with a weighted tape measure immediately following removal of the CPT rods. Depth to groundwater was recorded when first encountered while drilling the boring and again after waiting approximately 30 minutes. The measurements indicate the depth to groundwater ranged from about 6 to 11 feet bgs at the time of our field investigation. To further evaluate the depth to groundwater at the site, we reviewed information on the State of California Water Resources Control Board GeoTracker website (<http://geotracker.swrcb.ca.gov>). The nearest site with groundwater data is immediately to the north of the project site, at 3695-3723 and 3750 Haven Avenue. Groundwater was measured in eight monitoring wells from November 1999 to September 2001. The data indicates the groundwater level fluctuated from 3.91 to 7.09 feet bgs during that time. The closest monitoring well to the project site is MW-5B, where the depth to groundwater ranged from 5.71 to 7.09 feet bgs.

The groundwater level at the site is expected to fluctuate several feet seasonally, depending on the amount of rainfall. Based on our review of available historic groundwater information within the site vicinity, we conclude a high groundwater level of five feet bgs should be used for this project.

---

<sup>1</sup> Highly expansive soil undergoes large volume changes with changes in moisture content.

## 5.0 SEISMIC CONSIDERATIONS

Because the project site is in a seismically active region, we evaluated the potential for earthquake-induced geologic hazards, including ground shaking, ground surface rupture, liquefaction,<sup>2</sup> lateral spreading,<sup>3</sup> and cyclic densification<sup>4</sup>. The results of our evaluation regarding seismic considerations for the project site are presented in the following sections.

### 5.1 Regional Seismicity and Faulting

The site is located in the Coast Ranges Geomorphic Province of California that is characterized by northwest-trending valleys and ridges. These topographic features are controlled by folds and faults that resulted from the collision of the Farallon Plate and North American Plate and subsequent strike-slip faulting along the San Andreas Fault system. The San Andreas Fault is more than 600 miles long from Point Arena in the north to the Gulf of California in the south. The Coast Ranges Province is bounded on the east by the Great Valley and on the west by the Pacific Ocean.

The major active faults in the area are the San Andreas, Hayward, and Calaveras faults. These and other faults in the region are shown on Figure 4. Numerous damaging earthquakes have occurred along these faults in recorded time. For these and other active faults within a 50-kilometer radius of the site, the distance from the site and estimated characteristic moment magnitude<sup>5</sup> [Petersen et al. (2014) & Thompson et al. (2016)] are summarized in Table 1. These

---

<sup>2</sup> Liquefaction is a phenomenon where loose, saturated, cohesionless soil experiences temporary reduction in strength during cyclic loading such as that produced by earthquakes.

<sup>3</sup> Lateral spreading is a phenomenon in which surficial soil displaces along a shear zone that has formed within an underlying liquefied layer. Upon reaching mobilization, the surficial blocks are transported downslope or in the direction of a free face by earthquake and gravitational forces.

<sup>4</sup> Cyclic densification is a phenomenon in which non-saturated, cohesionless soil is compacted by earthquake vibrations, causing ground-surface settlement.

<sup>5</sup> Moment magnitude ( $M_w$ ) is an energy-based scale and provides a physically meaningful measure of the size of a faulting event. Moment magnitude is directly related to average slip and fault rupture area.

references are based on the Third Uniform California Earthquake Rupture Forecast (UCERF3), prepared by Field et al. (2013).

**TABLE 1**  
**Regional Faults and Seismicity**

<b>Fault Segment</b>	<b>Approximate Distance from Site (km)</b>	<b>Direction</b>	<b>Characteristic Moment Magnitude</b>
Monte Vista - Shannon	7.7	Southwest	7.14
Total North San Andreas (SAO+SAN+SAP+SAS)	10	Southwest	8.04
North San Andreas (Peninsula, SAP)	10	Southwest	7.38
Total Hayward + Rodgers Creek (RC+HN+HS+HE)	20	East	7.58
Hayward (South, HS)	20	East	7.00
San Gregorio	24	West	7.44
Butano	25	Southwest	6.93
Total Calaveras (CN+CC+CS+CE)	30	East	7.43
Calaveras (North, CN)	30	East	6.86
Calaveras (Central, CC)	32	East	6.85
Hayward (North, HN)	33	North	6.90
Hayward (Extension, HE)	35	East	6.18
Las Positas	35	East	6.50
Zayante-Vergeles (2011 CFM)	36	Southwest	7.48
North San Andres (Santa Cruz Mts. SAS)	38	Southeast	7.15
Mount Diablo Thrust South	40	Northeast	6.5
Mount Diablo Thrust North CFM	40	Northeast	6.72
Mount Diablo Thrust	41	Northeast	6.67
Sargent	44	Southeast	6.71
Zayante-Vergeles	48	Southeast	7.00
Greenville (North)	49	Northeast	6.86
Concord	49	Northeast	6.45

Since 1800, four major earthquakes have been recorded on the North San Andreas Fault. In 1836, an earthquake with an estimated maximum intensity of VII on the Modified Mercalli (MM) scale occurred east of Monterey Bay on the San Andreas Fault (Topozada and Borchardt 1998). The estimated moment magnitude ( $M_w$ ) for this earthquake is about 6.25. In 1838, an

earthquake occurred with an estimated intensity of about VIII-IX (MM), corresponding to an  $M_w$  of about 7.5. The San Francisco Earthquake of 1906 caused the most significant damage in the history of the Bay Area in terms of loss of lives and property damage. This earthquake created a surface rupture along the San Andreas Fault from Shelter Cove to San Juan Bautista approximately 470 kilometers in length. It had a maximum intensity of XI (MM), an  $M_w$  of about 7.9, and was felt 560 kilometers away in Oregon, Nevada, and Los Angeles. The Loma Prieta Earthquake of October 17, 1989 had an  $M_w$  of 6.9 and occurred about 57 kilometers south of the site.

In 1868, an earthquake with an estimated maximum intensity of X on the MM scale occurred on the southern segment (between San Leandro and Fremont) of the Hayward Fault. The estimated  $M_w$  for the earthquake is 7.0. In 1861, an earthquake of unknown magnitude (estimated  $M_w$  of about 6.5) was reported on the Calaveras Fault. The most recent significant earthquake on this fault was the 1984 Morgan Hill Earthquake ( $M_w = 6.2$ ).

As a part of the UCERF3 project, researchers estimated that the probability of at least one  $M_w \geq 6.7$  earthquake occurring in the greater San Francisco Bay Area during a 30-year period (starting in 2014) is 72 percent. The highest probabilities are assigned to sections of the Hayward (South), Calaveras (Central), and the North San Andreas (Santa Cruz Mountains) faults. The respective probabilities are approximately 25, 21, and 17 percent.

## **5.2 Geologic Hazards**

During a major earthquake on a segment of one of the nearby faults, strong to very strong ground shaking is expected to occur at the project site. Strong shaking during an earthquake can result in ground failure such as that associated with soil liquefaction, lateral spreading, and cyclic densification.

### **5.2.1 Ground Shaking**

The seismicity of the site is governed by the activity of the San Andreas and Hayward faults, although ground shaking from future earthquakes on other faults, including the Monte Vista-

Shannon and Calaveras faults, will also be felt at the site. These and other faults in the region are shown in relation to the site on Figure 4. The ground shaking intensity felt at the project site will depend on: 1) the size of the earthquake (magnitude), 2) the distance from the site to the fault source, 3) the focusing of earthquake energy along the fault in the direction of the rupture (directivity), and 4) site-specific soil conditions. We judge that strong to very strong ground shaking could occur at the site during a large earthquake on one of the nearby faults.

### **5.2.2 Liquefaction and Associated Hazards**

When a saturated, cohesionless soil liquefies, it experiences a temporary loss of shear strength created by a transient rise in excess pore pressure generated by strong ground motion. Soil susceptible to liquefaction includes loose to medium dense sand and gravel, low-plasticity silt, and some low-plasticity clay deposits. Flow failure, lateral spreading, differential settlement, loss of bearing strength, ground fissures and sand boils are evidence of excess pore pressure generation and liquefaction.

The subject property is located in an area of Menlo Park designated as a potential liquefaction hazard zone on the map prepared by California Geological Survey (CGS) titled *State of California, Earthquake Zones of Required Investigation, Palo Alto Quadrangle*, dated October 18, 2006 (Figure 6). Special Publication 117 prepared by the CGS (2008) recommends subsurface investigations in mapped liquefaction potential areas be performed using rotary-wash borings and/or CPTs.

We evaluated the liquefaction potential of soil encountered below groundwater at the site using data collected in the CPTs with consideration of subsurface information from the rotary-wash boring and laboratory test results. We assessed the liquefaction susceptibility using the software CLiq 3.7.1.10 (GeoLogismiki, 2022). CLiq uses measured CPT data and assesses liquefaction susceptibility and post-earthquake vertical settlement, given a user-defined earthquake magnitude and peak ground acceleration (PGA). Our liquefaction analyses were performed using the methodology proposed by Boulanger and Idriss (2014). We calculated “free-field”



liquefaction-induced settlements of these layers and then modified the settlements using the methodology proposed by Çetin et al. (2009) to account for the depth of the liquefiable layers.

Our analyses were performed using an assumed high groundwater depth of five feet below existing grades for the “during earthquake” groundwater level. In accordance with the 2019 CBC, we used a peak ground acceleration of 0.70 times gravity (g) in our liquefaction evaluation; this peak ground acceleration is consistent with the Maximum Considered Earthquake Geometric Mean ( $MCE_G$ ) peak ground acceleration adjusted for site effects ( $PG_{AM}$ ). We also used a moment magnitude 8.04 earthquake, which is consistent with the characteristic moment magnitude for the San Andreas Fault, as presented in Table 1.

Most of the soils at the site are sufficiently cohesive and/or dense to resist liquefaction; however, several layers of potentially liquefiable material were encountered in the CPTs below a depth of 13 feet bgs. The layers consist of loose to medium dense sand to silty sand/sandy silt that are discontinuous and vary in thickness from about 6 inches to 5 feet. We estimate total ground surface settlement associated with liquefaction (referred to as post-liquefaction reconsolidation) following a major earthquake on a nearby fault will be up to 1-1/2 inches, with differential settlement of up to 3/4 inch over a horizontal distance of 30 feet.

Ishihara (1985) presented an empirical relationship that provides criteria used to evaluate whether liquefaction-induced ground failure, such as sand boils, would be expected to occur under a given level of shaking for a liquefiable layer of given thickness overlain by a resistant, or protective, surficial layer. We conclude the non-liquefiable soil overlying the potentially liquefiable soil layers is sufficiently thick such that the potential for liquefaction-induced ground failure at the ground surface is low.

Considering the potentially liquefiable layers are not continuous, we conclude the risk of lateral spreading is nil.

### **5.2.3 Cyclic Densification**

Cyclic densification (also referred to as differential compaction) of non-saturated sand (sand above groundwater table) can occur during an earthquake, resulting in settlement of the ground surface and overlying improvements. The soil above the groundwater at the site primarily consists of fine-grained deposits that are sufficiently cohesive or coarse-grained deposits that are sufficiently dense, such that they are not susceptible to cyclic densification. Therefore, we conclude the potential for cyclic densification to impact the proposed development is very low.

### **5.2.4 Ground Surface Fault Rupture**

Historically, ground surface displacements closely follow the trace of geologically young faults. The site is not within an Earthquake Fault Zone, as defined by the Alquist-Priolo Earthquake Fault Zoning Act, and no known active or potentially active faults exist on the site. We therefore conclude the risk of fault offset at the site from a known active fault is very low. In a seismically active area, the remote possibility exists for future faulting in areas where no faults previously existed; however, we conclude the risk of surface faulting and consequent secondary ground failure from previously unknown faults is also very low.

## **6.0 DISCUSSION AND CONCLUSIONS**

Based on the results of our engineering analyses using the subsurface data collected from our field investigation and laboratory testing, we conclude the site may be developed as proposed provided the geotechnical issues discussed below are properly addressed. The primary geotechnical issues to be addressed are: (1) foundation settlement due to compression of the underlying clay soils, (2) potentially liquifiable soil layers underlying the site that can result in liquefaction-induced settlement following a major earthquake, and (3) the presence of highly expansive near-surface soil. These and other geotechnical issues as they pertain to the proposed development are discussed in this section.

## **6.1 Expansive Soil**

An Atterberg limits test performed on a sample of the near-surface clay indicates it is highly expansive. Highly expansive near-surface soil is subject to volume changes during seasonal fluctuations in moisture content. These volume changes can cause movement and cracking of foundations, slabs, and pavements. Therefore, foundations and slabs should be designed and constructed to mitigate the adverse effects of the expansive clay. These effects can be mitigated by moisture-conditioning the expansive soil below slabs, providing non-expansive soil below slabs, and either supporting foundations below the zone of severe moisture change or providing a stiff, shallow foundation that can limit deformation of the superstructure as the underlying soil shrinks and swells.

## **6.2 Foundation Support and Settlement**

The highly expansive near-surface clay is subject to large volume changes during seasonal fluctuations in moisture content. Shrinking and swelling associated with these volume changes can cause cracking of foundations and slabs if not properly addressed during design and construction. The potential adverse effects of the highly expansive soil can be mitigated by moisture conditioning the expansive soil, providing select, non-expansive fill or lime-treated soil below interior and exterior slabs, and either supporting foundations below the zone of severe moisture change or providing a stiff, shallow foundation that can limit deformation of the superstructure as the underlying soil shrinks and swells.

Foundation alternatives for sites underlain by highly expansive clay include deepened spread footings, stiffened shallow foundations such as conventionally reinforced concrete mats or post-tensioned slabs-on-grade (P-T slabs), and deep foundations. We judge that the anticipated total and differential settlements due to a combination of static foundation loads and post-liquefaction reconsolidation will exceed the typical tolerance of a conventional spread footing foundation system. Therefore, we judge conventional spread footings are not appropriate for support of the proposed building. Based on our experience with similar structures and soil conditions, we conclude the most appropriate foundation type for the proposed building would consist of a

conventionally reinforced concrete mat foundation, provided the estimated static and liquefaction-induced settlements are acceptable to the project team. Recommendations for design of a mat foundation are presented in Section 7.3 below.

We estimate total settlement of the proposed building supported on a properly designed mat slab under static loading will be on the order of 1 to 1-1/2 inches and differential settlement will be on the order of 3/4 inch in 30 feet. As discussed in Section 5.2.3, we estimate additional total and differential settlement as a result of post-liquefaction reconsolidation during an MCE event could be up to 1-1/2 and 3/4 inches across a horizontal distance of 30 feet, respectively.

### **6.3 Construction Considerations**

The soil to be excavated generally consists of clay which can be excavated with conventional earth-moving equipment such as loaders and backhoes. If site grading is performed during the rainy season, the near-surface clay will likely be wet and will have to be dried before compaction can be achieved. Heavy rubber-tired equipment, such as scrapers and vibratory rollers, could cause excessive deflection (pumping) of the wet clay and, therefore, should be avoided. If the project schedule or weather conditions do not permit sufficient time for drying of the soil by aeration, the subgrade can be treated with lime prior to compaction or imported granular fill can be used. The appropriate amount of lime should be determined during construction based on a visual examination and, if necessary, laboratory testing of the soil to be treated. It is also important that the moisture content of the subgrade soil is sufficiently high to reduce the expansion potential. If the grading work is performed during the dry season, moisture-conditioning may be required.

Excavations that will be deeper than five feet and will be entered by workers should be sloped or shored in accordance with CAL-OSHA standards (29 CFR Part 1926). The contractor should be responsible for the construction and safety of temporary slopes.

## 6.4 Soil Corrosivity

Corrosivity tests were performed by Project X Corrosion Engineering of Murrieta, California on two soil samples obtained from soil borings at depths of 2-3/4 and 5-1/2 feet bgs. The corrosivity test results are presented in Appendix B of this report.

The resistivity test results (938 and 1,541 ohm-cm) indicate the near-surface soil is “highly to extremely corrosive<sup>6</sup>” to buried metallic structures, which is typical of clayey soils. Accordingly, buried iron, steel, cast iron, ductile iron, galvanized steel and dielectric-coated steel or iron may need to be protected against corrosion depending upon the critical nature of the structure. If it is necessary to have metal in contact with soil, a corrosion engineer should be consulted to provide recommendations for corrosion protection.

The chloride ion concentrations (5.6 and 11.8 mg/kg) indicate the chlorides in the soil do not pose a threat to buried metallic structures and reinforcing steel in concrete structures below ground. The results of the pH tests indicate the near-surface soil has a pH of 8.2 and 8.6, which should not have an adverse effect on buried concrete or steel; however, it may be corrosive to buried copper and aluminum. The results also indicate the sulfate ion concentrations (11.0 and 37.0 mg/kg) are sufficiently low such that sulfates do not to pose a threat to buried concrete.

## 7.0 RECOMMENDATIONS

Our recommendations for site preparation and grading, design of foundations, seismic design, and other geotechnical aspects of the project are presented in this section.

### 7.1 Site Preparation and Grading

Site clearing should include the removal of all existing underground utilities and buried foundations. In general, abandoned underground utilities should be removed to the property line or service connections and properly capped or plugged with concrete. Where existing utility lines

---

<sup>6</sup> Roberge, Pierre R. (2018). Corrosion Basics, an Introduction, Third Edition. NACE International, P. 189.

are outside of the proposed building footprint and will not interfere with the proposed construction, they may be abandoned in-place provided the lines are filled with lean concrete or cement grout to the property line. It may be feasible to abandon small-diameter utility lines below the mat foundation; however, these should be evaluated on a case-by-case basis. Voids resulting from demolition activities should be properly backfilled with compacted fill following the recommendations provided later in this section.

The near-surface clay at the site is highly expansive. To mitigate the detrimental effects of expansive near-surface clay, exterior concrete flatwork should be underlain by at least eight inches of select fill compacted per requirements in Table 2. At a minimum, the upper four inches of the select fill should consist of Class 2 aggregate base (AB). The soil subgrade beneath proposed improvements or areas for new fill should be scarified to a depth of at least 12 inches, moisture-conditioned to at least four percent above optimum moisture content and compacted to between 88 and 92 percent relative compaction<sup>7</sup>.

On-site soil may be used as general fill, provided the material is free of organic matter, contain no rocks or lumps larger than three inches in greatest dimension, and be approved by the Geotechnical Engineer. If material to be used as fill is imported to the site, it should meet the requirements for select fill provided below in Section 7.1.2. A summary of the compaction recommendations for the various types of fill that may be used at the site is presented in Table 2.

---

<sup>7</sup> Relative compaction refers to the in-place dry density of soil expressed as a percentage of the maximum dry density of the same material, as determined by the ASTM D1557-09 laboratory compaction procedure.

**TABLE 2**  
**Summary of Compaction Recommendations**

<b>Location</b>	<b>Recommended Relative Compaction (percent)</b>	<b>Moisture Recommendation</b>
Building pad subgrade – native high-plasticity clay	88 – 92	4+% above optimum
General fill – lime-treated clay and low-plasticity on-site and imported	90+	Above optimum
General fill – native high-plasticity clay	88 – 92	4+% above optimum
Utility trench backfill – native high-plasticity clay	88 – 92	4+% above optimum
Utility trench backfill – low-plasticity	90+	Above optimum
Utility trench - clean sand or gravel	95+	Near optimum
Pavement subgrade – native high-plasticity clay	90+	2+% above optimum
Pavement subgrade – low-plasticity soil or lime-treated clay	95+	Above optimum
Pavement – Class 2 AB	95+	Near optimum
Exterior slabs – native high-plasticity clay	88 – 93	4+% above optimum
Exterior slabs – low-plasticity	90+	Above optimum
Exterior slabs – select fill/Class 2 AB	90+	Above optimum

Where the above recommended compaction requirements conflict with the City of Menlo Park standard details for pavements and sidewalks within the public right-of-way, the City Engineer or inspector should determine which compaction requirements should take precedence.

**7.1.1 Soil Subgrade Stabilization**

In some areas, soft, wet soil may be exposed during grading, causing the subgrade to deflect and rut under the weight of grading equipment. Although, the majority of the soil beneath the site consists of stiff to very stiff clay, if heavy wheeled equipment is used during the rainy season,

these materials may become disturbed and soften. In these areas, some form of subgrade stabilization may be required if disturbance occurs. Several options for stabilizing subgrade are presented below.

### Aeration

Aeration consists of mixing and turning the soil to naturally lower the moisture content to an acceptable level. Aeration typically requires several days to a week of warm, dry weather to effectively dry the material. Material to be dried by aeration should be scarified to a depth of at least 12 inches; the scarified material should be turned at least twice a day to promote uniform drying. Once the moisture content of the aerated soil has been reduced to acceptable levels, the soil should be compacted in accordance with our previous recommendations. Aeration is typically the least costly subgrade stabilization alternative; however, it generally requires the most time to complete and may not be effective if the soft material extends to great depths. Aeration will likely not be effective if the building subgrade extends below or near the groundwater table; however, it depends on the time of year construction is performed.

### Overexcavation

Another method of achieving suitable subgrade in areas where soft, wet soil is exposed is to overexcavate the soft subgrade soil and replace it with drier, granular material. If the soft material extends to great depths, the upper 18 to 24 inches of soft material may be overexcavated and a geotextile tensile fabric (Mirafi 500X or equivalent) placed beneath the granular backfill to help span over the weaker material. The fabric should be pulled tight and placed at the base of the overexcavation, extending at least two feet laterally beyond the limits of the overexcavation in all directions. The fabric should be overlapped by at least two feet at all seams. Granular material such as Class 2 AB should then be placed and compacted over the geotextile tensile fabric.

Where very soft subgrade conditions are encountered, a bi-directional geogrid, such as Tensar TriAx TX-140 or equivalent, may be required in lieu of tensile fabric. Where geogrids are used, the depth of overexcavation will likely be on the order of 12 to 18 inches. The geogrids should



be overlapped by at least two feet and tied with hog rings or nylon ties at a spacing not to exceed 10 feet. The geogrids should be covered with a well-graded granular fill such as Class 2 AB; open-graded rock should not be used. All backfill placed over the geogrid should be compacted in accordance with our previous recommendations.

### Chemical Treatment

Lime and/or cement have been successfully used to dry and stabilize fine-grained soils with varying degrees of success. Lime- and/or cement-treatment will generally decrease soil density, change its plasticity properties, and increase its strength. The degree to which lime will react with soil depends on variables such as type of soil, mineralogy, quantity of lime, and length of time the lime-soil mixture is cured. Cement is generally used when a significant amount of granular material or low-plasticity silt is present in the soil. The quantity of lime and/or cement added generally ranges from 3 to 7 percent by weight and should be determined by laboratory testing. The specialty contractor performing the chemical treatment should select the most appropriate additive and quantity for the soil conditions encountered.

Lime treatment of fine-grained soils generally includes site preparation, application of lime, mixing, compaction, and curing of the lime-treated soil. Field quality control measures should include checking the depth of lime treatment, degree of pulverization, lime spread rate measurement, lime content measurement, moisture content and density measurements, and mixing efficiency.

The lime treatment process should be designed by a contractor specializing in its use and who is experienced in the application of lime in similar soil conditions. Based on our experience with lime treatment, we judge that the specialty contractor should be able to treat the highly expansive on-site material to produce a non-expansive fill for building pad subgrades and, if desired, for exterior flatwork and pavement subgrades. For planning purposes, we recommend assuming the lime treatment will consist of five percent Dolomitic Quicklime by dry weight of soil. The dry weight of soil should be assumed to be 105 pounds per cubic foot (pcf) for calculating lime quantities. The specialty contractor should: 1) perform a lime demand test prior to treatment to

determine the percentage of Quicklime required to achieve a pH of 12.4 or higher in the treated soil, 2) perform an Atterberg limits test to confirm the proposed percentage of Quicklime will reduce the plasticity index of the treated soil to 15 or less, and 3) prepare a lime treatment procedure for our review prior to construction.

### **7.1.2 Select Fill**

Select fill should consist of imported soil that is free of organic matter, contain no rocks or lumps larger than three inches in greatest dimension, have a liquid limit less than 40 and plasticity index less than 15, and be approved by the Geotechnical Engineer. Select fill should be placed in lifts not exceeding eight inches in loose thickness, moisture-conditioned to above optimum moisture content, and compacted to at least 90 percent relative compaction beneath concrete flatwork and sidewalks. Beneath vehicular pavements, the select fill should be compacted to at least 95 percent relative compaction. Samples of proposed select fill material should be submitted to the Geotechnical Engineer at least three business days prior to use at the site.

The grading contractor should provide analytical test results or other suitable environmental documentation indicating the imported fill is free of hazardous materials at least three days before use at the site. If this data is not provided, a minimum of two weeks will be required to perform any necessary analytical testing.

### **7.1.3 Exterior Flatwork Subgrade Preparation**

Exterior flatwork and sidewalks should be at least four inches thick and reinforced with No. 3 bars at 18 inches on center. We recommend at least eight inches of select fill be placed beneath proposed exterior concrete flatwork, including patio slabs and sidewalks; the select fill should extend at least six inches beyond the slab edges where the flatwork is adjacent to landscaping. At a minimum, the upper four inches of the select fill should consist of Class 2 AB. Select fill and AB beneath exterior slabs-on-grade, such as patios and sidewalks, should be moisture-conditioned and compacted in accordance with the requirements provided above in Table 2.

Even with eight inches of select fill, exterior slabs may experience some cracking due to shrinking and swelling of the underlying expansive soil. Thickening the slab edges and adding additional reinforcement will control this cracking to some degree. In addition, where slabs provide access to buildings, it would be prudent to dowel the entrance to the building to permit rotation of the slab as the exterior ground shrinks and swells and to prevent a vertical offset at the entries.

#### **7.1.4 Utility Trench Backfill**

Excavations for utility trenches can be readily made with a backhoe. All trenches should conform to the current CAL-OSHA requirements. To provide uniform support, pipes or conduits should be bedded on a minimum of four inches of sand or fine gravel. After the pipes and conduits are tested, inspected (if required) and approved, they should be covered to a depth of six inches with sand or fine gravel, which should be mechanically tamped. Backfill for utility trenches and other excavations is also considered fill, and should be placed and compacted in accordance with the recommendations previously presented. If imported clean sand or gravel (defined as soil with less than 10 percent fines) is used as backfill, it should be compacted to at least 95 percent relative compaction. Jetting of trench backfill should not be permitted. Special care should be taken when backfilling utility trenches in pavement areas. Poor compaction may cause excessive settlements, resulting in damage to the pavement section.

Foundations for the proposed building should be bottomed below an imaginary line extending up at a 1.5:1 (horizontal to vertical) inclination from the base of utility trenches that run parallel to the edge of the foundation. Alternatively, the portion of the utility trench (excluding bedding) that is below the 1.5:1 line can be backfilled with controlled low-strength material (CLSM) with a 28-day unconfined compressive strength of at least 100 pounds per square inch (psi) or Class 2 AB compacted to at least 95 percent relative compaction.

Where utility trenches enter the building pad, an impermeable plug consisting of CLSM, at least three feet in length, should be installed where the trenches enter the building footprint (see Figure 6). Furthermore, where sand- or gravel-backfilled trenches cross planter areas and pass

below asphalt or concrete pavements, a similar plug should be placed at the edge of the pavement. The purpose of these recommendations is to reduce the potential for water to become trapped in trenches beneath the building or pavements. This trapped water can cause heaving of soils beneath slabs and softening of subgrade soil beneath pavements.

## **7.2 Surface Drainage and Landscaping**

### **7.2.1 Surface Drainage**

Positive surface drainage should be provided around the building to direct surface water away from the foundations. To reduce the potential for water ponding adjacent to the building, we recommend the ground surface within a horizontal distance of five feet from the building slope down away from the building with a surface gradient of at least two percent in unpaved areas and one percent in paved areas. In addition, roof downspouts should be discharged into controlled drainage facilities to keep the water away from the foundations. The use of water-intensive landscaping around the perimeter of the building should be avoided to reduce the amount of water introduced to the expansive clay subgrade.

Care should be taken to minimize the potential for subsurface water to collect beneath flatwork and pavements. Where landscape beds and tree wells are immediately adjacent to pavements and flatwork that are not designed as permeable systems, we recommend vertical cutoff barriers be incorporated into the design to prevent irrigation water from saturating the subgrade and AB. These barriers may consist of either flexible impermeable membranes or deepened concrete curbs.

### **7.2.2 Landscaping**

Storm water treatment systems (infiltration basins, rain gardens, bio-retention systems, vegetated swales, flow-through planters, etc.), if constructed at the site, should be provided with underdrains, as well as impermeable liners. Due to the low permeability and expansion potential of the near-surface soil, these systems should be designed for no exfiltration into the subgrade soil. The drainage layer beneath the “treatment” soil should consist of a minimum 12-inch-thick layer

of Caltrans Class 2 Permeable drainage material and include a minimum 6-inch-diameter perforated drain pipe with perforations facing downward. An impermeable liner consisting of a high-density polyethylene membrane (or equivalent) that is at least 10 mils thick should line the entire bottom and sides of the system.

Prior experience and industry literature indicate that some species of high water-demand<sup>8</sup> trees can induce ground-surface settlement by drawing water from the expansive clay, causing it to shrink. Where these types of trees are planted near buildings, the ground-surface settlement may result in damage to structure. This problem usually occurs 10 or more years after planting, as the trees reach mature height. To reduce the risk of tree-induced, building settlement, we recommend trees of the following genera not be planted within 25 feet of the proposed buildings unless adequate deep irrigation is provided at the tree locations: Eucalyptus, Populus, Quercus, Crataegus, Salix, Sorbus (simple-leafed), Ulmus, Cupressus, Chamaecyparis, and Cupressocyparis. Because this is a limited list and does not include all genera that may induce ground-surface settlement, a tree specialist should be consulted prior to selection of trees to be planted at the site.

### **7.3 Mat Foundation**

Provided the estimated settlements presented in Section 6.2 are acceptable from a structural and architectural standpoint, the proposed building may be supported on a mat foundation. If portions of the mat foundation will be constructed below the design groundwater level, such as the elevator pit foundation, the mat should be underlain by waterproofing and designed to resist hydrostatic uplift pressures.

For mat design, we recommend using a modulus of subgrade reaction of 15 pounds per cubic inch (pci) for dead-plus-live load conditions; this value has been reduced to account for the size of the mat/equivalent footings (therefore, this is not  $k_{v1}$  for 1-foot-square plate) and may be

---

<sup>8</sup> “Water-demand” refers to the ability of the tree to withdraw large amounts of water from the soil subgrade, rather than soil suction exerted by the root system.

increased by 50 percent for total load conditions. Once the structural engineer estimates the distribution of bearing stress on the bottom of the mat, we should review the distribution and revise the modulus of subgrade reaction, if appropriate.

The edges of the mat should be thickened such that the foundation edge is bottomed at least one foot below the adjacent exterior finished grade. Where the mat is constructed near a bioswale or other stormwater treatment area, the edge of the mat should be founded below an imaginary line extending up at an inclination of 1.5:1 (horizontal:vertical) from the base of the bioswale/treatment area. We expect the average bearing stress under the mat to be relatively low; however, concentrated stresses will occur at column locations and at the edges of the mat. The mat should be designed to impose a maximum dead-plus-live bearing pressure of 3,000 pounds per square foot (psf) on the foundation subgrade soil for dead-plus-live load conditions; this pressure may be increased by one-third for total load conditions. The allowable bearing pressures recommended for dead-plus-live and total load conditions include factors of safety of at least 2.0 and 1.5, respectively.

Lateral loads may be resisted by a combination of passive pressure on the vertical faces of the mat and friction between the bottoms of the mat and the supporting soil. To compute passive resistance, we recommend using an allowable uniform pressure of 1,500 psf for transient load conditions and an equivalent fluid weight of 240 pounds per cubic foot (pcf) for sustained load conditions. The upper foot of soil should be ignored unless confined by a slab or pavement. Frictional resistance should be computed using a base friction coefficient of 0.30 where the mat is in contact with the soil. Where a vapor retarder is placed beneath the mat, a base friction coefficient of 0.20 should be used. The passive pressure and frictional resistance values include a factor of safety of at least 1.5 and may be used in combination without further reduction.

To reduce water vapor transmission through the mat foundation, we recommend a vapor retarder be placed between the bottom of the mat and the underlying subgrade soil in areas where water vapor transmission through the mat would be detrimental. The vapor retarder should be at least 15 mils thick and meet the requirements for Class A vapor retarders stated in ASTM E1745. The vapor retarder should be placed in accordance with the requirements of ASTM E1643. These

requirements include overlapping seams by six inches, taping seams, and sealing penetrations in the vapor retarder. Concrete can be placed directly on the vapor retarder provided the water/cement (w/c) ratio of the concrete does not exceed 0.45 and water is not added in the field. If necessary, workability may be increased by adding plasticizers. In addition, the concrete for the mat should be properly cured. Before floor coverings are placed over the mat, the contractor should check that the concrete surface and the moisture emission levels (if emission testing is required) meet the manufacturer's requirements.

Recommendations for preparation of the mat subgrade are presented in Section 7.1. The mat subgrade should consist of properly moisture-conditioned and compacted native clay and/or engineered fill and should be free of standing water, debris, and disturbed materials prior to placing the vapor retarder or waterproofing. If loose soil is encountered at mat subgrade elevation, the soil should be removed and the overexcavation should be backfilled with engineered fill or CLSM with minimum 28-day unconfined compressive strength of 50 pounds per square inch (psi). It is critical the mat subgrade be kept moist and free of shrinkage cracks until the vapor retarder is placed. If the mat subgrade dries during installation of utilities, it should be re-scarified and moisture-conditioned to meet the recommendations in Table 2 prior to placement of the vapor retarder. If the mat will be constructed during the rainy season, we recommend a three-inch-thick unreinforced concrete "rat" slab be placed on the prepared subgrade to prevent it from softening if exposed to rain. We should check the foundation subgrade prior to placement of the vapor retarder.

#### **7.4 Retaining Walls**

Retaining walls should be designed to resist static lateral earth pressures, lateral pressures caused by earthquakes, vehicular surcharge pressures, and surcharges from adjacent foundations, where appropriate. We recommend retaining walls that are restrained from movement at the top and/or sides, such as elevator pit walls, be designed for the more critical of the following criteria:

- At-rest equivalent fluid weight of 73 pcf above the design groundwater table and 97 pcf below.

- Active pressure of 27 pcf plus a seismic increment of 19 pcf (triangular distribution) above the design groundwater level, and 87 pcf plus a seismic increment of 9 pcf (triangular distribution) below the groundwater level.

The recommended lateral earth pressures above are based on a level backfill condition with no additional surcharge loads. Where the below-grade wall is subject to traffic loading within 10 feet of the wall, an additional uniform lateral pressure of 50 psf, applied to the upper 10 feet of the wall, should be used.

To protect against moisture migration, below-grade walls should be waterproofed and water stops should be placed at all construction joints. The design pressures above assume site retaining walls and the portion of below-grade walls above the design groundwater table are fully drained to prevent accumulation of water behind the walls from rainfall, irrigation, broken water lines, etc. One acceptable method for backdraining a retaining wall is to place a prefabricated drainage panel against the back of the wall. The drainage panel should extend down to a perforated PVC collector pipe at the design high groundwater level (or higher if confirmed acceptable by the Structural Engineer). The pipe should be surrounded on all sides by at least four inches of Caltrans Class 2 permeable material or 3/4-inch drain rock wrapped in filter fabric (Mirafi NC or equivalent). The pipe should be connected to a suitable discharge point; a sump and pump system may be required to drain the collector pipes. In lieu of installing a backdrain behind below-grade walls, the walls may be designed using the undrained lateral earth pressure acting over the entire height of the wall.

If backfill is required behind below-grade walls prior to pouring the building slabs, the walls should be braced, or hand compaction equipment used, to prevent unacceptable surcharges on walls (as determined by the Structural Engineer).



## 7.5 Pavement Design

Design recommendations for asphalt and Portland cement concrete pavements are presented in the following sections. Because of the near-surface soil in highly expansive, permeable pavements are not recommended at this site because of the potential for distress of pavements and surrounding improvements due to wetting-induced heave of the soil.

### 7.5.1 Flexible (Asphalt Concrete) Pavement Design

The State of California flexible pavement design method was used to develop the recommended asphalt concrete (AC) pavement sections. On the basis of our experience, we selected an R-value of 5, which is appropriate for highly expansive clay soils. Recommended pavement sections for traffic indices (TIs) ranging from 4.5 to 6.5 are presented in Table 3. The project Civil Engineer for the project should check that the TIs presented in this report are appropriate for the intended use. We can provide additional pavement sections for different TIs upon request.

**TABLE 3**  
**Asphalt Concrete Pavement Sections**

TI	Asphaltic Concrete (inches)	Class 2 AB R = 78 (inches)
4.5	2.5	9.5
5.0	3.0	10.0
5.5	3.0	12.0
6.0	3.5	13.0
6.5	4.0	13.5

The upper 12 inches of the subgrade should be moisture-conditioned and compacted in accordance with requirements presented in Section 7.1 and be non-yielding. The AB should be moisture-conditioned to near optimum and compacted to at least 95 percent relative compaction and be non-yielding.

If pavements are adjacent to irrigated landscaped areas (including infiltration basins), curbs adjacent to those areas should extend through the AB and at least three inches into the underlying soil to reduce the potential for irrigation water to infiltrate into the pavement section. If drip irrigation is used in the landscaping adjacent to the pavement, however, deepening of the curbs is not required.

### **7.5.2 Rigid (Portland-Cement Concrete) Pavement**

Concrete pavement design is based on a maximum single-axle load of 20,000 pounds, a maximum tandem axle load of 32,000 pounds, and light truck traffic (i.e., a few trucks per week). The recommended rigid pavement section for these axle loads is six inches of Portland cement concrete over six inches of Class 2 AB. Where fire truck traffic is expected, the pavement section should consist of 6.5 inches of Portland cement concrete over six inches of Class 2 AB. Where only passenger cars or light trucks will use the pavement, the recommended minimum pavement section is five inches of Portland cement concrete over six inches of Class 2 AB.

The modulus of rupture of the concrete should be at least 500 psi at 28 days. Contraction joints should be constructed at maximum spacing of 12.5 and 15 feet for 5 inch, 6-inch, and 6.5-inch-thick pavement sections, respectively. Where the outer edge of a concrete pavement meets asphalt concrete pavement, the concrete slab should be thickened by 50 percent at a taper not to exceed a slope of 1 in 10. For areas that will receive moderate truck traffic, such as weekly garbage truck traffic, we recommend the slab be reinforced with a minimum of No. 4 bars at 16-inch spacing in both directions. Recommendations for subgrade preparation and AB compaction for concrete pavement are the same as those we have described above for asphalt concrete pavement.

## **7.6 Pavers**

Recommendations for non-permeable and permeable pavers, as well as grass pavers are presented in the following sections. The recommendations below may also be used for cast-in-place permeable concrete pavements.

### 7.6.1 Non-Permeable Concrete Pavers

Non-permeable concrete pavers for pedestrian traffic should be underlain by at least four inches of Class 2 AB compacted to at least 90 percent relative compaction. The soil subgrade beneath the AB should be scarified to a depth of at least eight inches, moisture-conditioned, and compacted in accordance with the recommendations presented in Section 7.1.

Where non-permeable concrete pavers will be subject to vehicular traffic, we recommend they consist of fully dentated, interlocking shapes and be at least 80 millimeters (3.15 inches) thick. The pavers should be placed on a 1- to 2-inch-thick sand leveling course underlain by Class 2 AB. The thickness of the Class 2 AB beneath non-permeable pavers subject to vehicular traffic should be consistent with the sections presented for asphalt pavement in Section 7.5.1 for the applicable TI. The subgrade and AB should be compacted in accordance with the recommendations for AC pavement in Section 7.5.1.

### 7.7 Seismic Design

The results of CPT-3 indicate the shear wave velocity for the upper 100 feet of soil ( $V_{s30}$ ) at the site is about 760 feet per second. As discussed in Section 5.2.2, thin layers of potentially liquefiable soil were encountered beneath the site. The 2019 CBC calls for a Site Class F designation for sites underlain by potentially liquefiable soil; however, we judge that these layers are relatively thin and discontinuous and conclude that the soil at the site will not incur significant non-linear behavior. Therefore, we conclude a Site Class D designation is appropriate for seismic design.

The latitude and longitude of the site are  $37.4837^\circ$  and  $-122.1771^\circ$ , respectively. Hence, in accordance with the 2019 CBC, we recommend the following:

- Site Class D (stiff soil)
- $S_s = 1.5g$ ,  $S_1 = 0.6g$

The 2019 CBC is based on the guidelines contained within ASCE 7-16 which stipulates that where  $S_1$  is greater than 0.2 times gravity (g) for Site Class D, a ground motion hazard analysis is

needed unless the seismic response coefficient ( $C_s$ ) value will be calculated as outlined in Section 11.4.8, Exception 2. Assuming the  $C_s$  value will be calculated as outlined in Section 11.4.8, Exception 2, we recommend the following seismic design parameters:

- $F_a = 1.0$ ,  $F_v = 1.7$
- $S_{MS} = 1.5g$ ,  $S_{M1} = 1.02g$
- $S_{DS} = 1.0g$ ,  $S_{D1} = 0.68g$
- Seismic Design Category D for Risk Factors I, II, and III.

## **8.0 GEOTECHNICAL SERVICES DURING CONSTRUCTION**

Prior to construction, Rockridge Geotechnical should review the project plans and specifications to verify that they conform to the intent of our recommendations. During construction, our field engineer should provide on-site observation and testing during placement and compaction of fill, grading, and installation of foundations. These observations will allow us to compare actual with anticipated soil conditions and to verify that the contractor's work conforms to the geotechnical aspects of the plans and specifications.

## **9.0 LIMITATIONS**

This geotechnical investigation has been conducted in accordance with the standard of care commonly used as state-of-practice in the profession. No other warranties are either expressed or implied. The recommendations made in this report are based on the assumption that the subsurface conditions do not deviate appreciably from those disclosed in the exploratory boring and CPTs. If any variations or undesirable conditions are encountered during construction, we should be notified so that additional recommendations can be made. The foundation recommendations presented in this report are developed exclusively for the proposed development described in this report and are not valid for other locations and construction in the project vicinity.

## REFERENCES

2019 California Building Code (CBC).

Boulanger, R.W and Idriss, I.M. (2014), “CPT and SPT Based Liquefaction Triggering Procedures”, Center for Geotechnical Modeling, Department of Civil and Environmental Engineering, University of California, Davis, Report No. UCD/CGM-14/01, April.

Bray, J. D., Macedo, J. (2017), “Simplified Procedure for Estimating Liquefaction-Induced Building Settlement”, Soil Dynamics and Earthquake Engineering, Volume 102, pp 215-231, November 2017.

Campbell, K.W., Bozorgnia, Y. (2011), “Predictive Equations for the Horizontal Component of Standardized Cumulative Absolute Velocity as Adapted for Use in the Shutdown of U.S. Nuclear Power Plants”, Nuclear Engineering and Design 2011;241:2558-69.

California Division of Mines and Geology (1996). Probabilistic Seismic Hazard Assessment for the State of California, DMG Open-File Report 96-08.

California Geological Survey (2008). Guidelines for Evaluating and Mitigating Seismic Hazards in California, Special Publication 117.

California Geological Survey (2007). Fault-Rupture Hazard Zones in California, Special Publication 42, Interim Revision 2007.

California Geological Survey (2000), State of California, Earthquake Zones of Required Investigation, Mountain View Quadrangle, Official Map, October 18, 2006.

Cao, T., Bryant, W. A., Rowshandel, B., Branum D. and Wills, C. J. (2003). “The Revised 2002 California Probabilistic Seismic Hazard Maps”.

GeoLogismiki, 2016, CLiq, Version 2.0.

Field, E.H., and 2014 Working Group on California Earthquake Probabilities, 2015, UCERF3: A new earthquake forecast for California’s complex fault system: U.S. Geological Survey 2015-3009, 6 p., <http://dx.doi.org/10.3133/fs20153009>.

Jennings, C.W. (1994). Fault Activity Map of California and Adjacent Areas with Locations and Ages of Recent Volcanic Eruptions: California Division of Mines and Geology Geologic Data Map No. 6, scale 1: 750,000.

Zhang G., Robertson. P.K., Brachman R., 2002, Estimating Liquefaction Induced Ground Settlements from the CPT, Canadian Geotechnical Journal, 39: pp 1169-1180

**FIGURES**

DRAFT



Base map: Google Maps, 2017

**SITE LOCATION MAP**

**3705 HAVEN AVENUE**  
Menlo Park, California

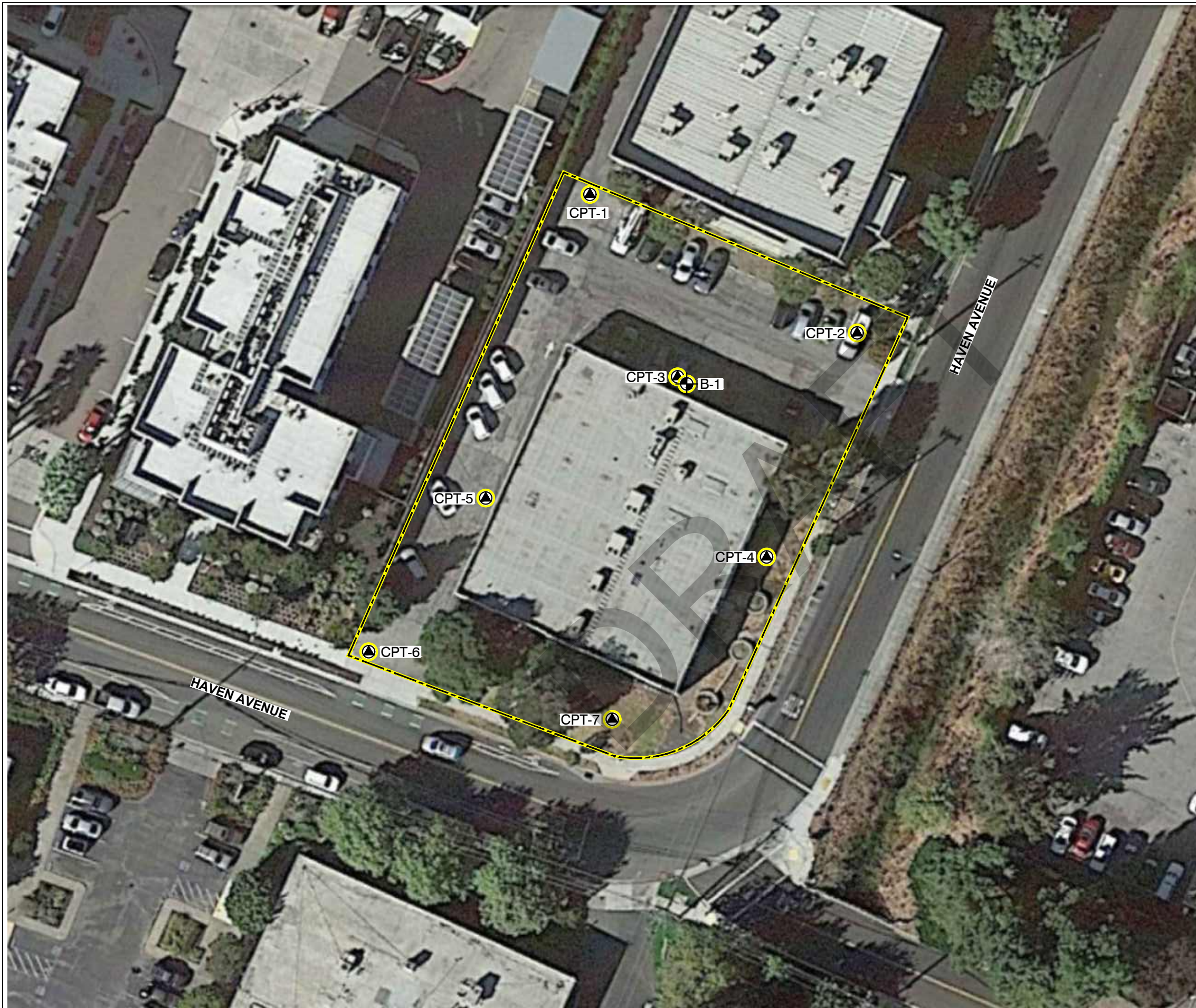
**ROCKRIDGE**  
GEOTECHNICAL

0 1,000 2,000 Feet




Approximate scale

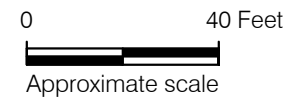
Date 02/08/22 Project No. 22-2153 Figure 1





**EXPLANATION**

- CPT-1  Approximate location of cone penetration test by Rockridge Geotechnical, Inc., January 21, 2022
- B-1  Approximate location of boring by Rockridge Geotechnical, Inc., January 12, 2022
-  Project limits



Base map: Google Earth, 2021

<b>3705 HAVEN AVENUE</b> Menlo Park, California		
<b>SITE PLAN</b>		
Date 02/08/22	Project No. 22-2153	Figure 2
 <b>ROCKRIDGE GEOTECHNICAL</b>		



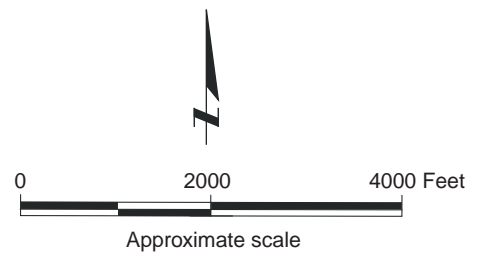


Base map: Google Earth with U.S. Geological Survey (USGS), San Mateo County, 2018.

**EXPLANATION**

- af** Artificial Fill
- Qhym** Mud deposits (late Holocene)
- Qha** Alluvium (Holocene)
- Qpa** Alluvium (Pleistocene)

Geologic contact:  
dashed where approximate and dotted where concealed, queried where uncertain

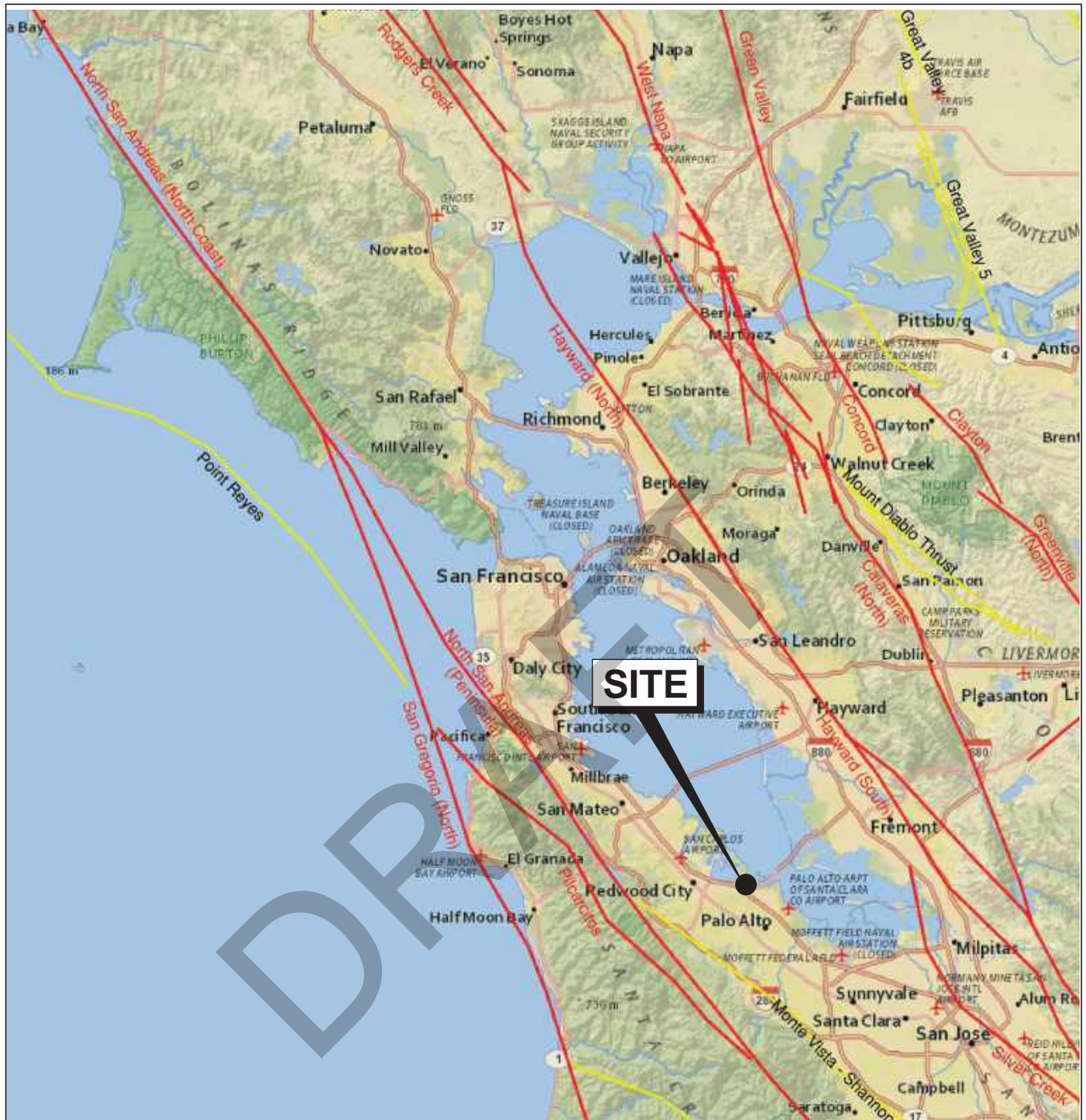


**3705 HAVEN AVENUE**  
Menlo Park, California

**REGIONAL GEOLOGIC MAP**








Base Map: U.S. Geological Survey (USGS), National Seismic Hazards Maps - Fault Sources, 2014.

**EXPLANATION**

-  Strike slip
-  Thrust (Reverse)
-  Normal



0 5 10 Miles



Approximate scale

**3705 HAVEN AVENUE**  
Menlo Park, California

**REGIONAL FAULT MAP**



Date 02/08/22

Project No. 22-2153

Figure 4



**Liquefaction Zones**

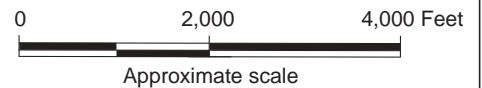
Areas where historical occurrence of liquefaction, or local geological, geotechnical and ground water conditions indicate a potential for permanent ground displacements such that mitigation as defined in Public Resources Code Section 2693(c) would be required.



**Earthquake-Induced Landslide Zones**

Areas where previous occurrence of landslide movement, or local topographic, geological, geotechnical and subsurface water conditions indicate a potential for permanent ground displacements such that mitigation as defined in Public Resources Code Section 2693(c) would be required.

Reference:  
 Earthquake Zones of Required Investigation  
 Palo Alto Quadrangle  
 California Geological Survey  
 Released October 18, 2006



**3705 HAVEN AVENUE**  
 Menlo Park, California

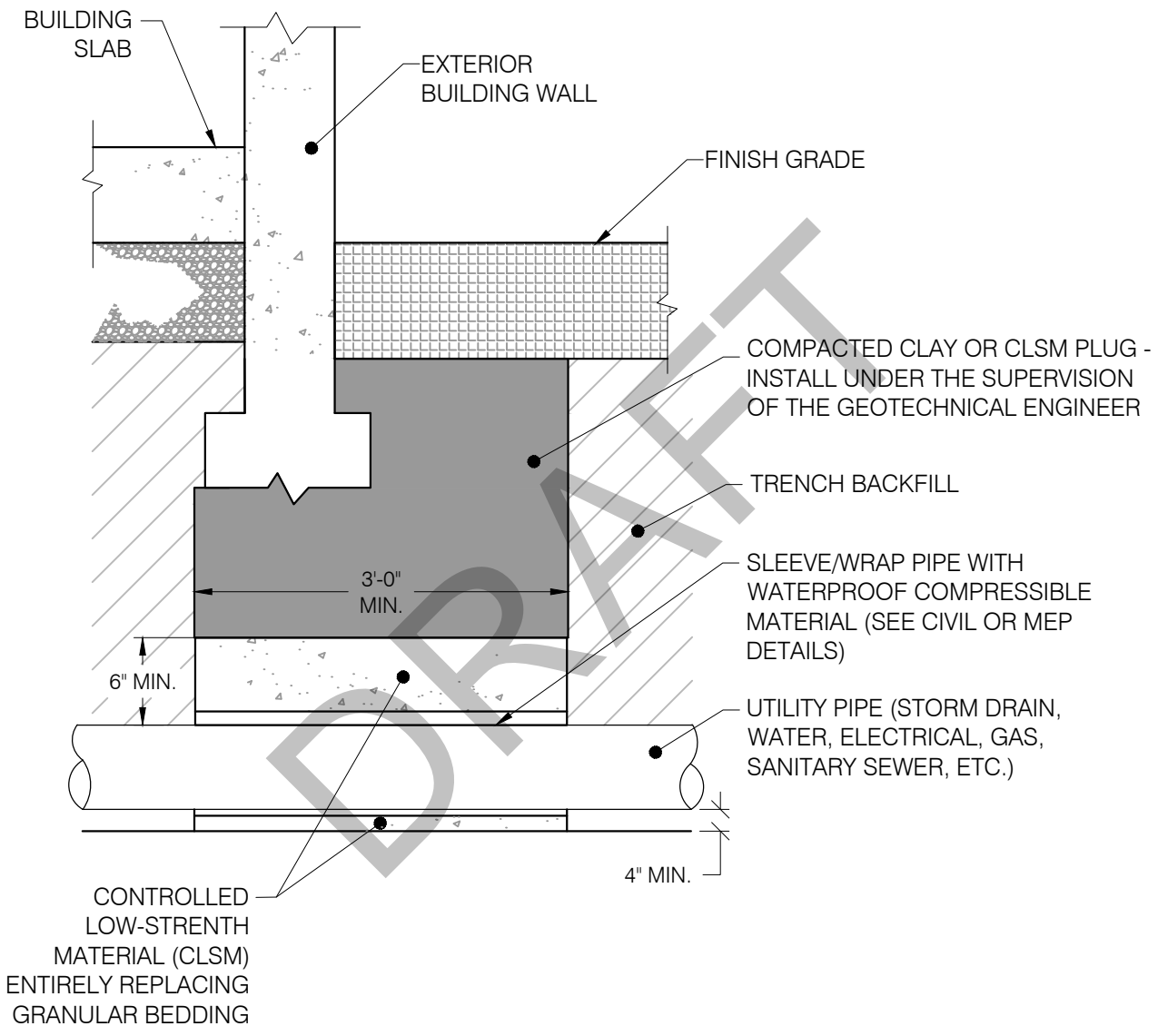
**EARTHQUAKE ZONES OF REQUIRED INVESTIGATION MAP**



Date 02/09/22

Project No. 22-2153

Figure 5



Not to Scale

**3705 HAVEN AVENUE**  
Menlo Park, California

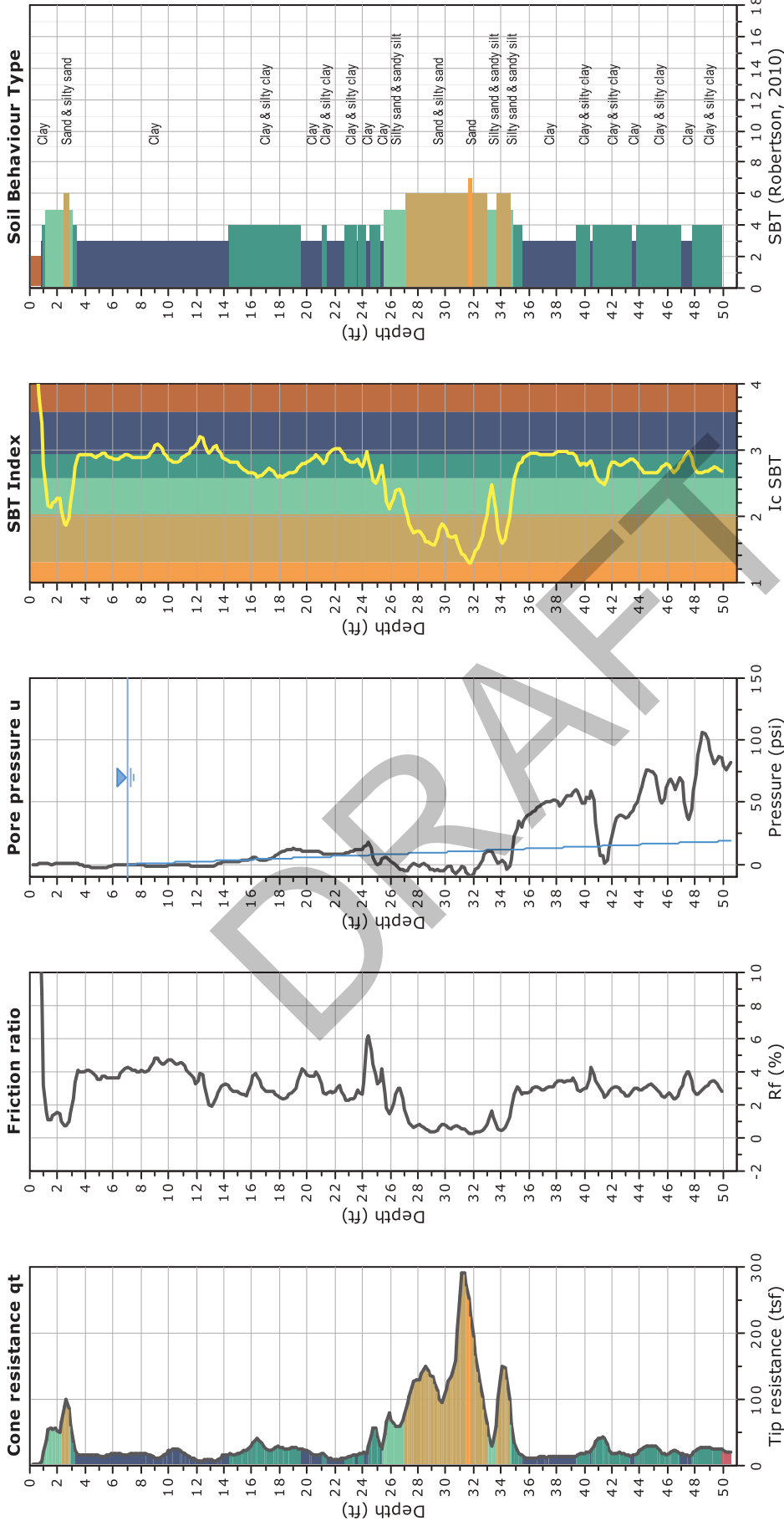
**UTILITY TRENCH LOW-PERMEABILITY PLUG AT BUILDING PERIMETER**





**APPENDIX A**  
**Cone Penetration Test Results and Boring Log**

DRAFT



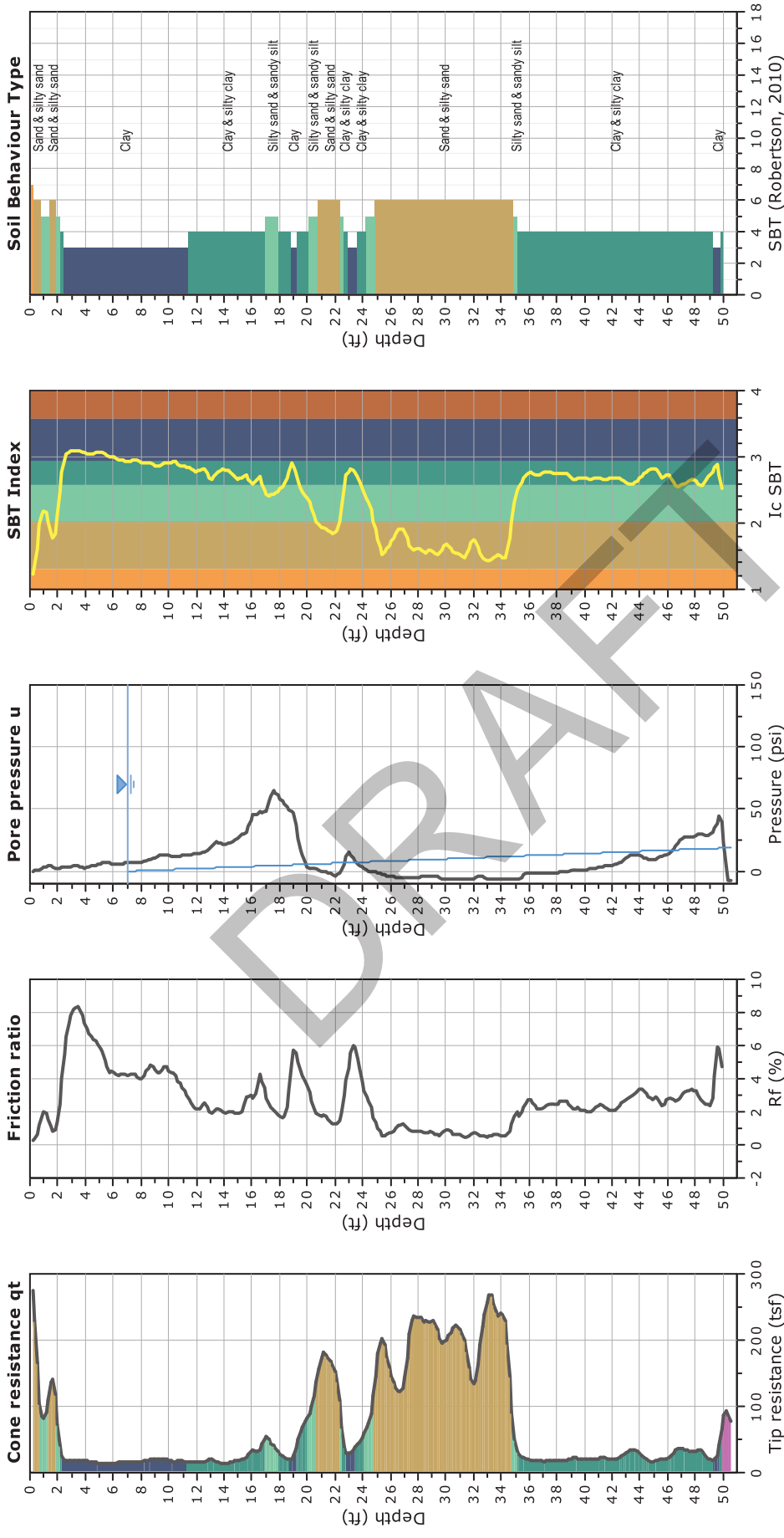
- SBT legend**
- 1. Sensitive fine grained
  - 2. Organic material
  - 3. Clay to silty clay
  - 4. Clayey silt to silty clay
  - 5. Silty sand to sandy silt
  - 6. Clean sand to silty sand
  - 7. Gravelly sand to sand
  - 8. Very stiff sand to clayey sand
  - 9. Very stiff fine grained

Total depth: 50.5 ft, Date: January 21, 2022  
 Depth to Groundwater: 7 feet (measured with weighted tape)  
 Cone Operator: Middle Earth Geo Testing, Inc.

3705 HAVEN AVENUE  
 Menlo Park, California



## CONE PENETRATION TEST RESULTS CPT-1



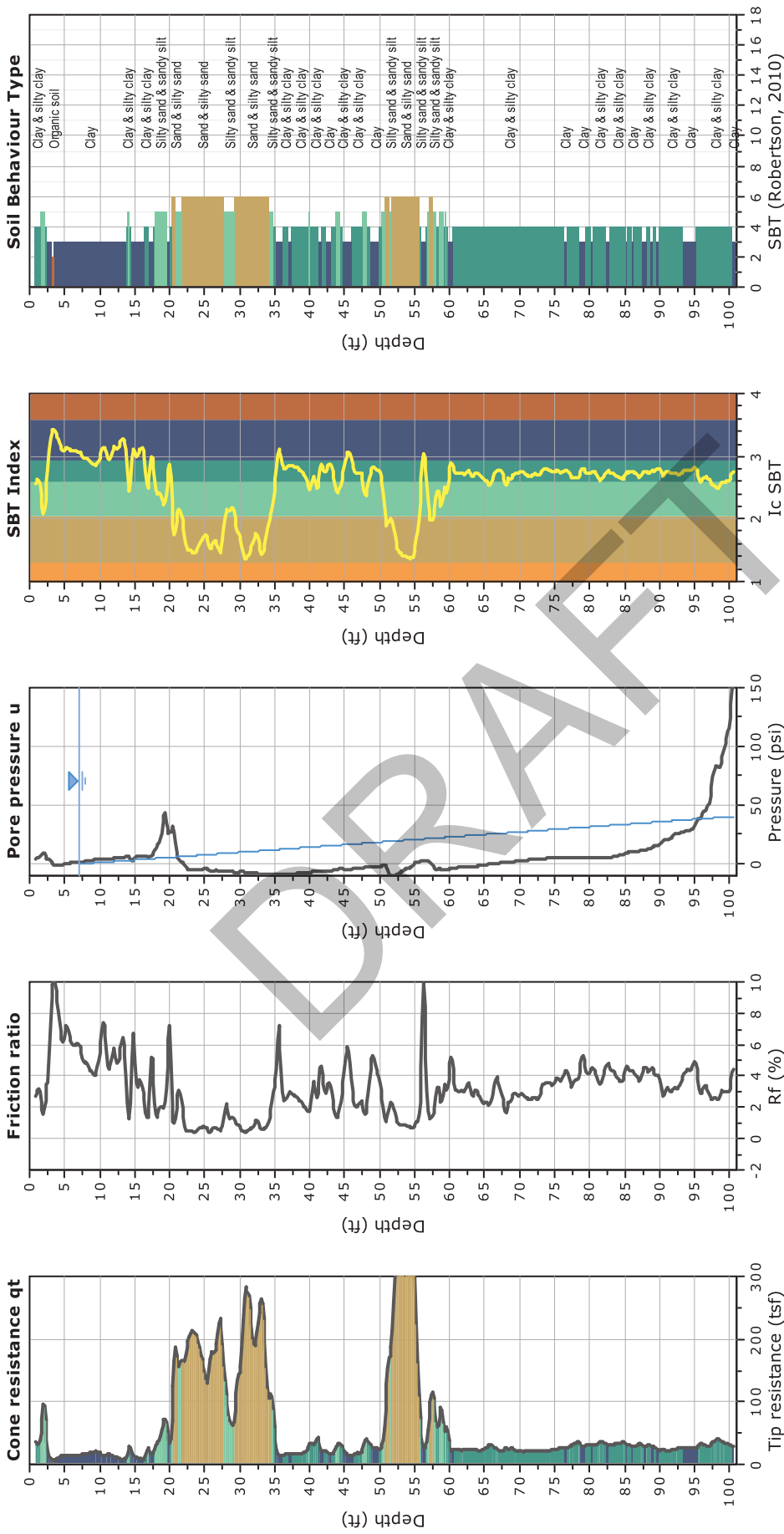
- SBT legend**
- 1. Sensitive fine grained
  - 2. Organic material
  - 3. Clay to silty clay
  - 4. Clayey silt to silty clay
  - 5. Silty sand to sandy silt
  - 6. Clean sand to silty sand
  - 7. Gravelly sand to sand
  - 8. Very stiff sand to clayey sand
  - 9. Very stiff fine grained

Total depth: 50.5 ft, Date: January 21, 2022  
 Depth to Groundwater: 7 feet (measured with weighted tape)  
 Cone Operator: Middle Earth Geo Testing, Inc.

3705 HAVEN AVENUE  
 Menlo Park, California



## CONE PENETRATION TEST RESULTS CPT-2



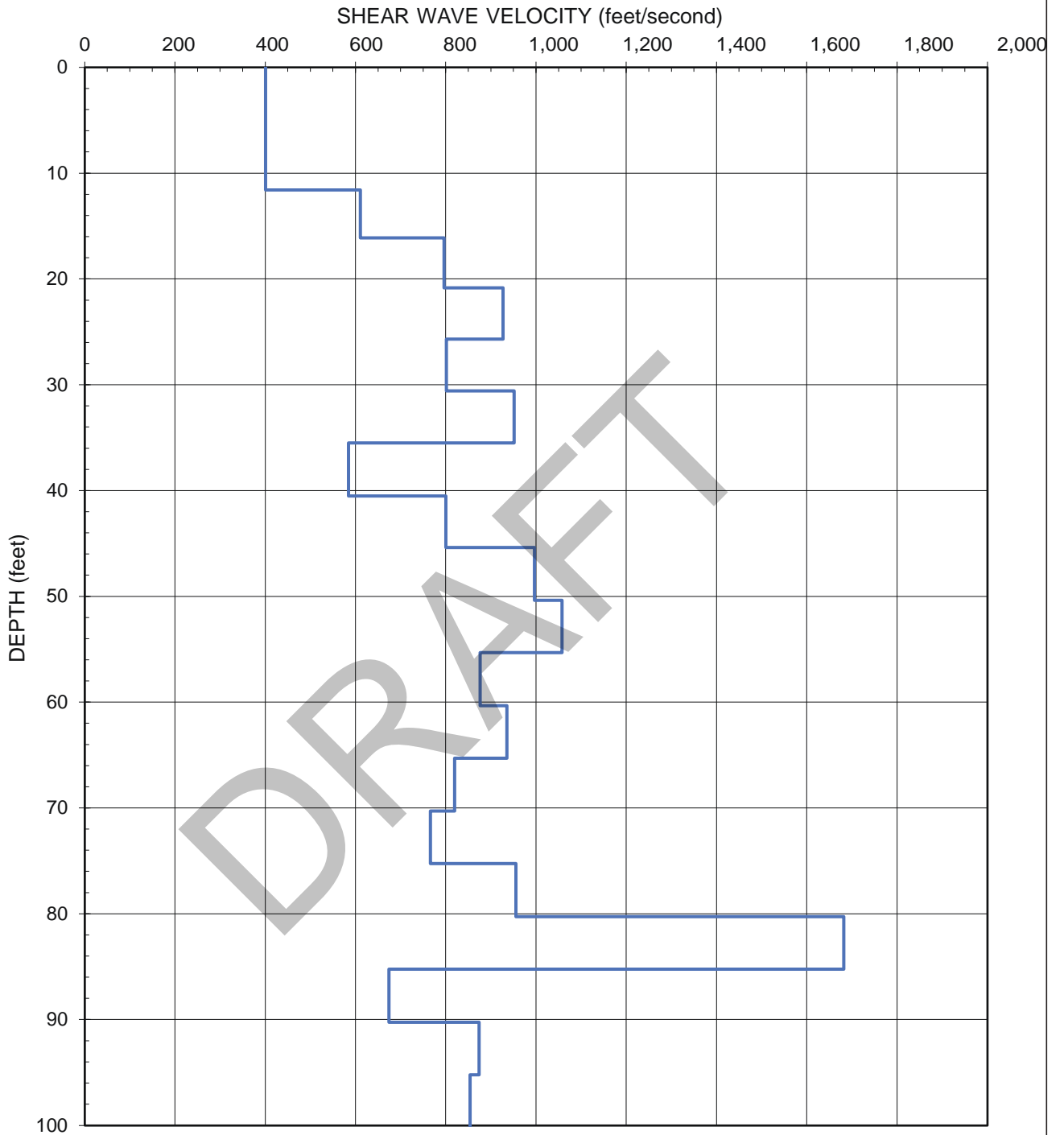
Total depth: 100.6 ft; Date: January 21, 2022  
 Depth to Groundwater: 7 feet (measured with weighted tape)  
 Cone Operator: Middle Earth Geo Testing, Inc.

3705 HAVEN AVENUE  
 Menlo Park, California



# CONE PENETRATION TEST RESULTS CPT-3





**3705 HAVEN AVENUE**  
Menlo Park, California

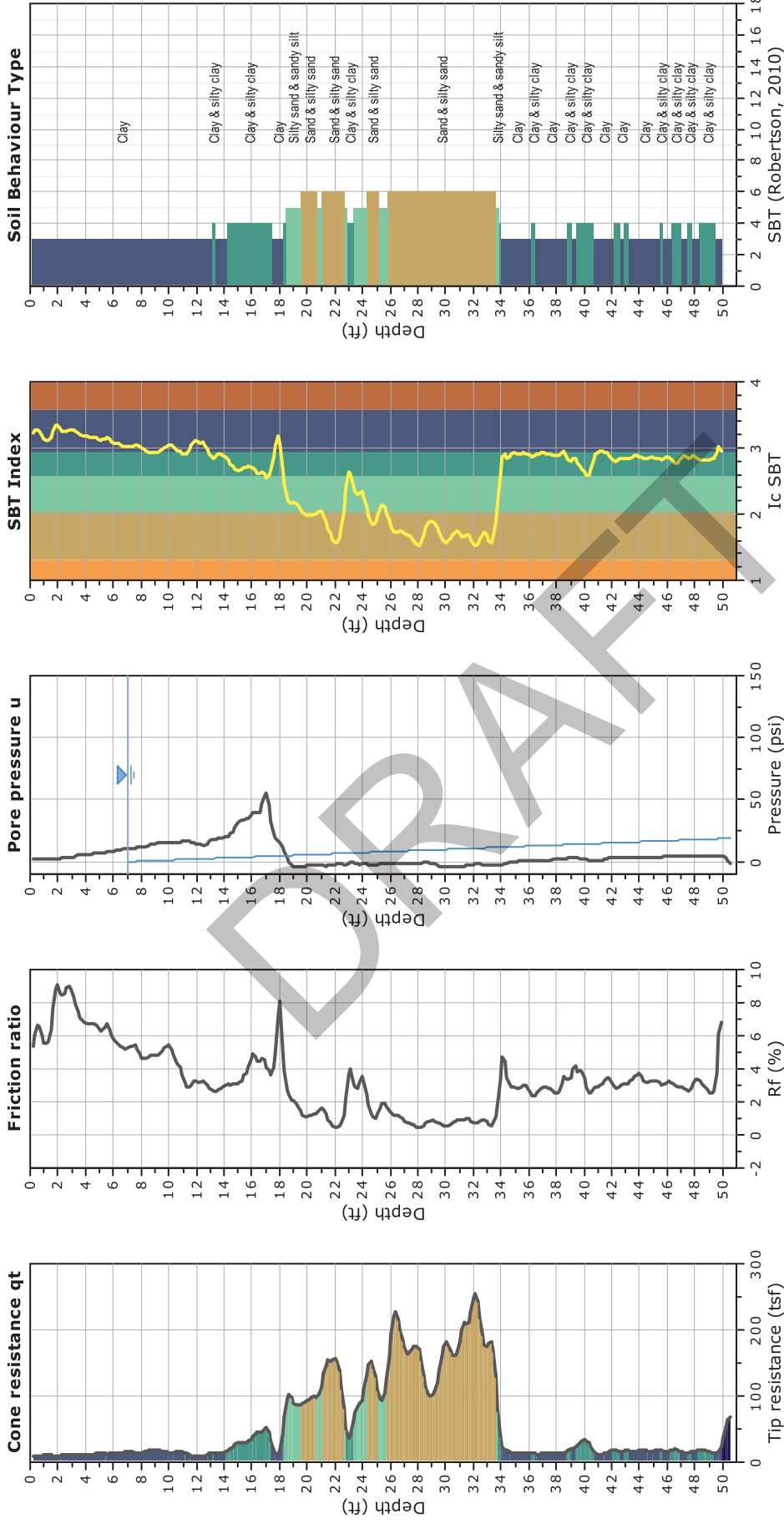
**SHEAR WAVE VELOCITY PROFILE**



Date 02/08/22

Project No. 22-2153

Figure A-3b



Total depth: 50.5 ft, Date: January 21, 2022  
 Depth to Groundwater: 7 feet (measured with weighted tape)  
 Cone Operator: Middle Earth Geo Testing, Inc.

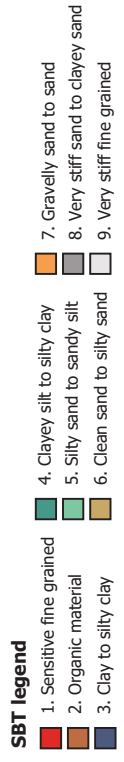
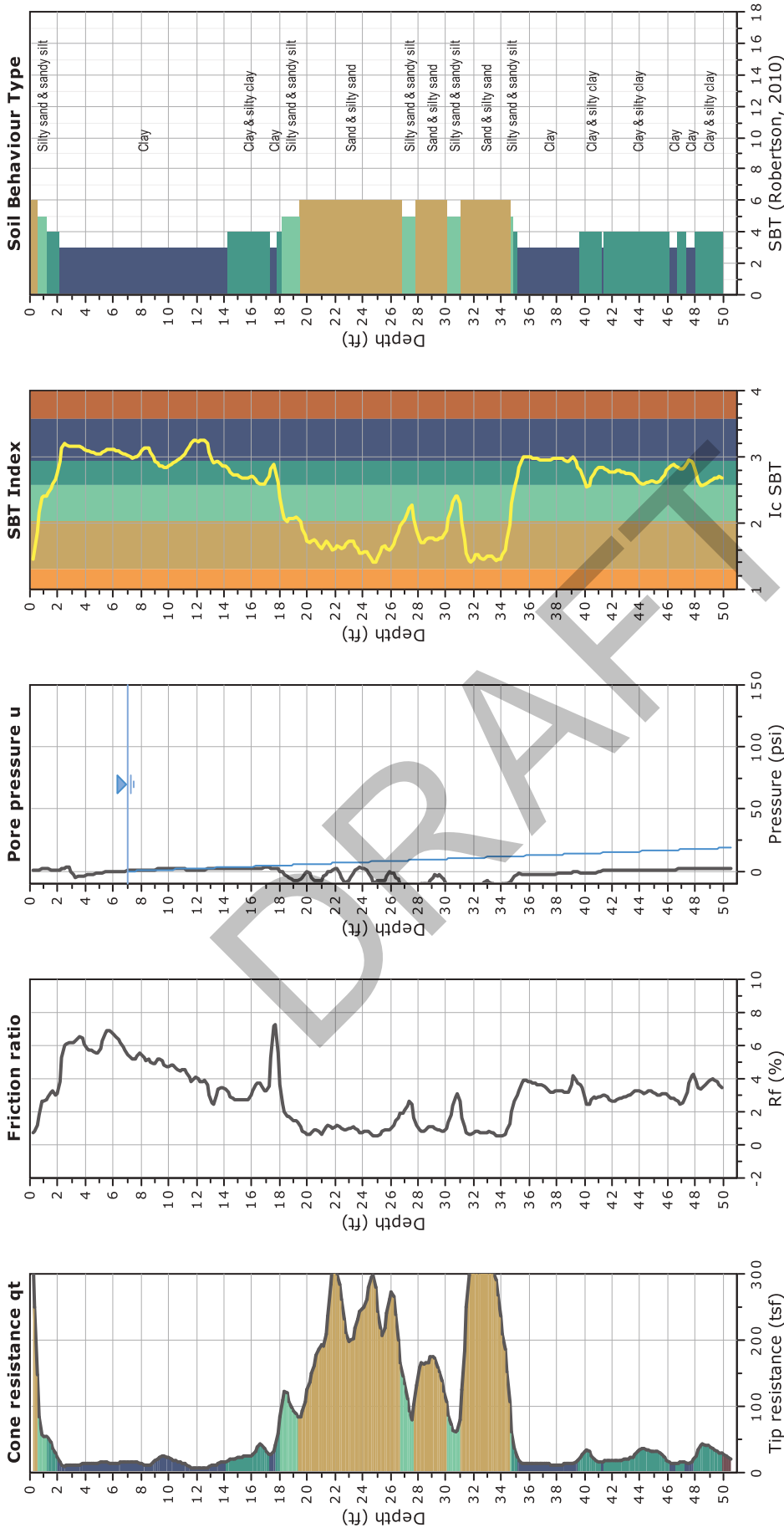
3705 HAVEN AVENUE  
 Menlo Park, California



### CONE PENETRATION TEST RESULTS CPT-4

Date 02/08/22 Project No. 22-2153

Figure A-4

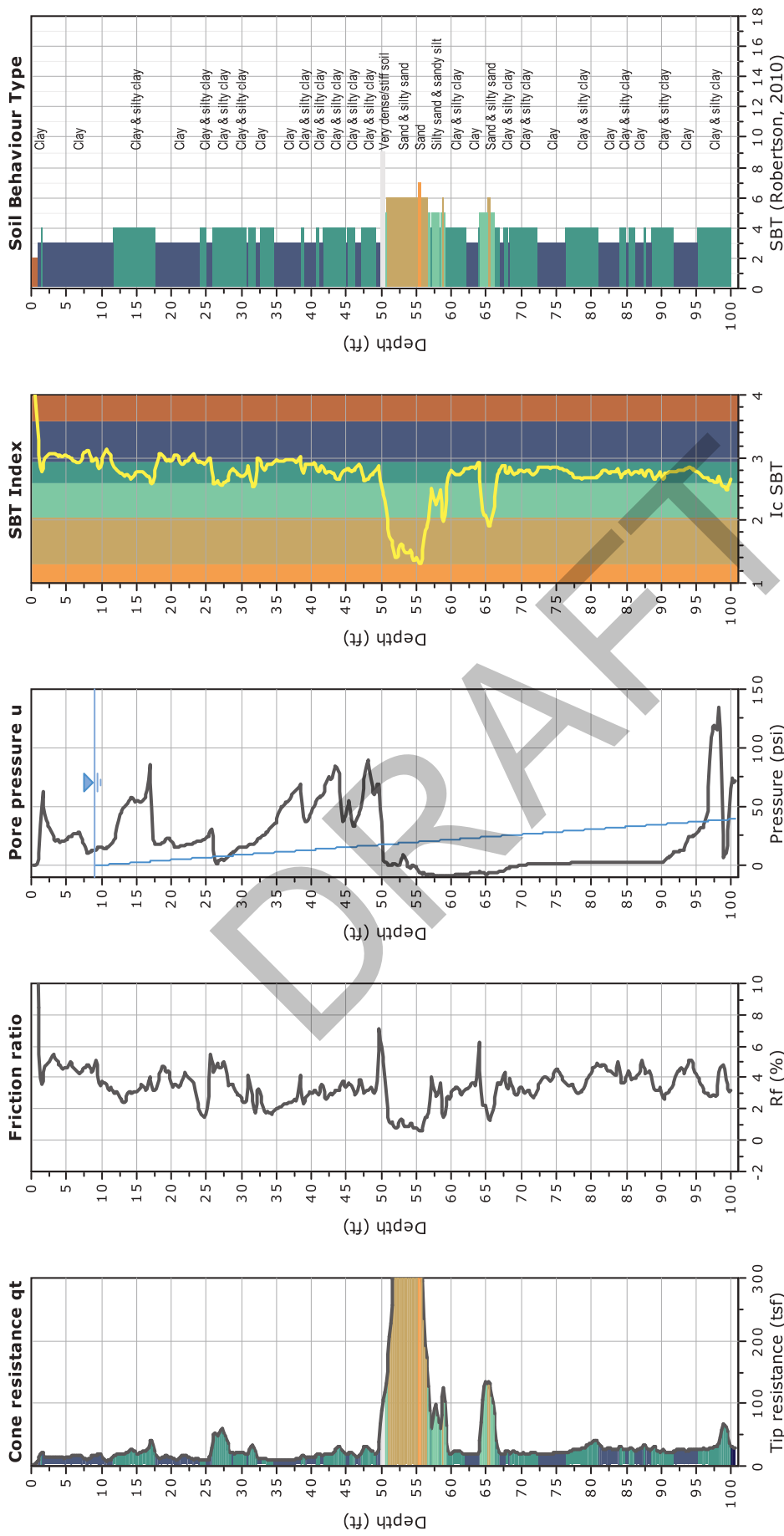


Total depth: 50.5 ft, Date: January 21, 2022  
 Depth to Groundwater: 7 feet (measured with weighted tape)  
 Cone Operator: Middle Earth Geo Testing, Inc.

3705 HAVEN AVENUE  
 Menlo Park, California



# CONE PENETRATION TEST RESULTS CPT-5

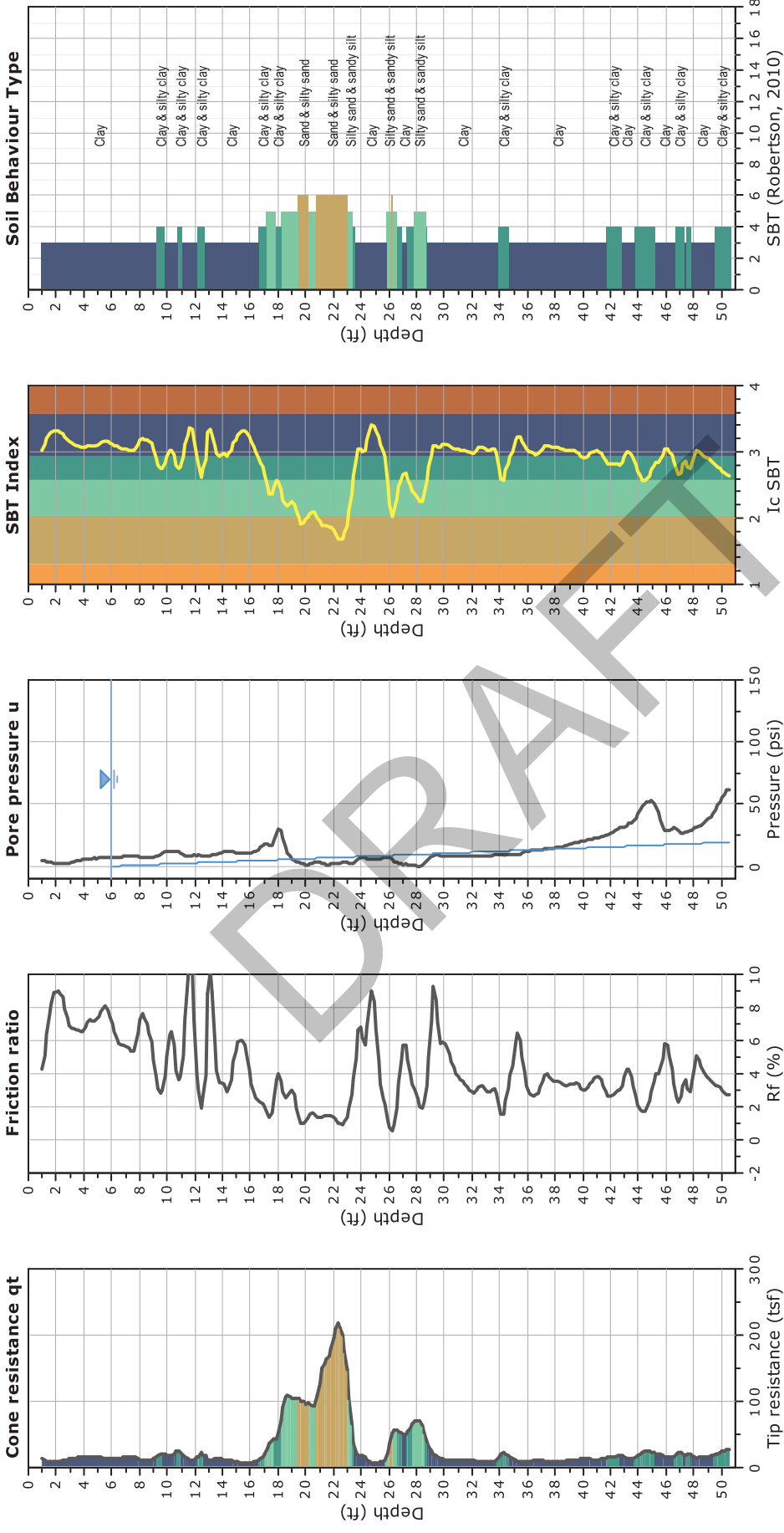


Total depth: 100.6 ft; Date: January 21, 2022  
 Depth to Groundwater: 9 feet (measured with weighted tape)  
 Cone Operator: Middle Earth Geo Testing, Inc.

3705 HAVEN AVENUE  
 Menlo Park, California



# CONE PENETRATION TEST RESULTS CPT-6



- SBT legend**
- 1. Sensitive fine grained
  - 2. Organic material
  - 3. Clay to silty clay
  - 4. Clayey silt to silty clay
  - 5. Silty sand to sandy silt
  - 6. Clean sand to silty sand
  - 7. Gravelly sand to sand
  - 8. Very stiff sand to clayey sand
  - 9. Very stiff fine grained

Total depth: 50.5 ft, Date: January 21, 2022  
 Depth to Groundwater: 6 feet (measured with weighted tape)  
 Cone Operator: Middle Earth Geo Testing, Inc.

### CONE PENETRATION TEST RESULTS CPT-7

**3705 HAVEN AVENUE**  
Menlo Park, California



PROJECT:

**3705 HAVEN AVENUE**  
Menlo Park, California

# Log of Boring B-1

PAGE 1 OF 3

Boring location: See Site Plan, Figure 2

Logged by: J. Graham  
Drilled by: Pitcher Services, LLC  
Rig: PD-47

Date started: 01/12/2022

Date finished: 01/12/2022

Drilling method: Rotary Wash

Hammer weight/drop: 140 lbs./30 inches

Hammer type: Automatic Safety Hammer

## LABORATORY TEST DATA

Sampler: Modified California (MC), Standard Penetration Test (SPT), Dames & Moore (D&M)

DEPTH (feet)	SAMPLES				LITHOLOGY	MATERIAL DESCRIPTION	Type of Strength Test	Confining Pressure Lbs/Sq Ft	Shear Strength Lbs/Sq Ft	Fines %	Natural Moisture Content, %	Dry Density Lbs/Cu Ft
	Sampler Type	Sample	Blows/ 6"	SPT N-Value <sup>1</sup>								
1					GC	1.5 inches of asphalt concrete CLAYEY GRAVEL with SAND (GC) red brown, medium dense, moist						
2	MC		8	18	CH	Soil Corrosivity Test; see Appendix B CLAY with GRAVEL (CH) dark gray, very stiff, moist, trace organics, trace fine to medium sand						
3			8									
4			14									
5	MC		6	28	CL	Soil Corrosivity Test; see Appendix B LL = 56, PI = 37; see Appendix B					22.2	96
6			13									
7			20									
8	MC		4	24	CL	CLAY (CL) gray, very stiff, moist, trace fine to medium sand						
9			12									
10			17									
11	MC		5	19	CL	SANDY CLAY (CL) yellow-brown, very stiff, moist to wet, fine to medium sand LL = 41, PI = 23; see Appendix B (01/12/2022; 10:45 AM)					22.4	105
12			10									
13			13									
14			7	13	SC	stiff, wet, trace gravel LL = 30, PI = 16; see Appendix B					39	18.5
15	MC		4									
16			8									
17	MC		1	20	SC	CLAYEY SAND (SC) yellow-brown, medium dense, wet, fine to coarse sand LL = 27, PI = 14; see Appendix B Particle Size Distribution; see Appendix B						
18			5									
19	SPT		4	32	CL	SANDY CLAY (CL) yellow-brown, hard, wet, fine to medium sand						
20			8									
21	DM		350 psi			Consolidation Test; see Appendix B					18.3	108
22			14	46	SC	CLAYEY SAND with GRAVEL (SC) yellow-brown, dense, wet, fine to medium sand						
23			16									
24	SPT		16									
25			14	46	SC							
26			16									
27			16									
28				54	SP	SAND with GRAVEL (SP) gray, very dense, wet, coarse sand, subangular gravel, trace fines						
29												
30	MC		12									
31			24									
32			40									



Project No.: 22-2153

Figure: A-8a

PROJECT:

**3705 HAVEN AVENUE**  
Menlo Park, California

# Log of Boring B-1

PAGE 2 OF 3

DEPTH (feet)	SAMPLES				LITHOLOGY	MATERIAL DESCRIPTION	LABORATORY TEST DATA							
	Sampler Type	Sample	Blows/6"	SPT N-Value <sup>1</sup>			Type of Strength Test	Confining Pressure Lbs/Sq Ft	Shear Strength Lbs/Sq Ft	Fines %	Natural Moisture Content, %	Dry Density Lbs/Cu Ft		
33						SAND with GRAVEL (SP) (continued)								
34					SP									
35						medium dense								
36	SPT	●	6	19										
37	MC	■	9			SANDY CLAY (CL) yellow-brown, stiff, wet, fine to medium sand								
38			4											
39	DM	■	7			Consolidation Test; see Appendix B					32.0	90		
40			8	13										
41	MC	■	8			very stiff, increased sand content								
42			8											
43			13											
44														
45														
46														
47														
48														
49														
50														
51	DM	■	3		CL	increased gravel content Consolidation Test; see Appendix B					22.5	102		
52			8											
53			13											
54														
55														
56														
57														
58														
59														
60														
61	MC	■	6	26		gray								
62			15											
63			16											
64														



Project No.: 22-2153

Figure: A-8b

PROJECT:

**3705 HAVEN AVENUE**  
Menlo Park, California

# Log of Boring B-1

PAGE 3 OF 3

DEPTH (feet)	SAMPLES				LITHOLOGY	MATERIAL DESCRIPTION	LABORATORY TEST DATA								
	Sampler Type	Sample	Blows/6"	SPT N-Value <sup>1</sup>			Type of Strength Test	Confining Pressure Lbs/Sq Ft	Shear Strength Lbs/Sq Ft	Fines %	Natural Moisture Content, %	Dry Density Lbs/Cu Ft			
65						SANDY CLAY (CL) (continued)									
66					CL										
67					CL										
68															
69						CLAY with SAND (CL) yellow-brown, very stiff, wet, fine sand									
70	MC	█	6	19											
71			10												
72			13												
73					CL										
74					CL										
75															
76															
77															
78															
79						SANDY CLAY (CL) yellow-brown, wet, fine to medium sand									
80															
81	D&M	█	300												
82			psi												
83															
84					CL										
85					CL										
86															
87															
88															
89						CLAY with SAND (CL) gray, hard, wet, trace gravel, fine to medium sand									
90					CL										
91	MC	█	10	34											
92			18												
93			23												
94															
95															
96															

Boring terminated at a depth of 91 feet below ground surface.  
Boring backfilled with cement grout.  
Groundwater encountered at a depth of 11 feet during drilling.

<sup>1</sup> MC and SPT blow counts for the last two increments were converted to SPT N-Values using factors of 0.84 and 1.44, respectively, to account for sampler type and hammer energy.



Project No.: 22-2153

Figure: A-8c












## UNIFIED SOIL CLASSIFICATION SYSTEM

Major Divisions	Symbols	Typical Names
<b>Coarse-Grained Soils</b> <small>(more than half of soil &gt; no. 200 sieve size)</small>	Gravels <small>(More than half of coarse fraction &gt; no. 4 sieve size)</small>	<b>GW</b> Well-graded gravels or gravel-sand mixtures, little or no fines
		<b>GP</b> Poorly-graded gravels or gravel-sand mixtures, little or no fines
		<b>GM</b> Silty gravels, gravel-sand-silt mixtures
		<b>GC</b> Clayey gravels, gravel-sand-clay mixtures
	Sands <small>(More than half of coarse fraction &lt; no. 4 sieve size)</small>	<b>SW</b> Well-graded sands or gravelly sands, little or no fines
		<b>SP</b> Poorly-graded sands or gravelly sands, little or no fines
		<b>SM</b> Silty sands, sand-silt mixtures
		<b>SC</b> Clayey sands, sand-clay mixtures
<b>Fine -Grained Soils</b> <small>(more than half of soil &lt; no. 200 sieve size)</small>	Silts and Clays LL = < 50	<b>ML</b> Inorganic silts and clayey silts of low plasticity, sandy silts, gravelly silts
		<b>CL</b> Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, lean clays
		<b>OL</b> Organic silts and organic silt-clays of low plasticity
	Silts and Clays LL = > 50	<b>MH</b> Inorganic silts of high plasticity
		<b>CH</b> Inorganic clays of high plasticity, fat clays
		<b>OH</b> Organic silts and clays of high plasticity
<b>Highly Organic Soils</b>		<b>PT</b> Peat and other highly organic soils


### GRAIN SIZE CHART

Classification	Range of Grain Sizes	
	U.S. Standard Sieve Size	Grain Size in Millimeters
Boulders	Above 12"	Above 305
Cobbles	12" to 3"	305 to 76.2
Gravel coarse fine	3" to No. 4	76.2 to 4.76
	3" to 3/4"	76.2 to 19.1
	3/4" to No. 4	19.1 to 4.76
Sand coarse medium fine	No. 4 to No. 200	4.76 to 0.075
	No. 4 to No. 10	4.76 to 2.00
	No. 10 to No. 40	2.00 to 0.420
	No. 40 to No. 200	0.420 to 0.075
Silt and Clay	Below No. 200	Below 0.075

### SAMPLE DESIGNATIONS/SYMBOLS

	Sample taken with California or Modified California split-barrel sampler. Darkened area indicates soil recovered
	Classification sample taken with Standard Penetration Test sampler
	Undisturbed sample taken with thin-walled tube
	Disturbed sample
	Sampling attempted with no recovery
	Core sample
	Analytical laboratory sample
	Sample taken with Direct Push sampler
	Sonic

 Unstabilized groundwater level

 Stabilized groundwater level

### SAMPLER TYPE

<p><b>C</b> Core barrel</p> <p><b>CA</b> California split-barrel sampler with 2.5-inch outside diameter and a 1.93-inch inside diameter</p> <p><b>D&amp;M</b> Dames &amp; Moore piston sampler using 2.5-inch outside diameter, thin-walled tube</p> <p><b>O</b> Osterberg piston sampler using 3.0-inch outside diameter, thin-walled Shelby tube</p>	<p><b>PT</b> Pitcher tube sampler using 3.0-inch outside diameter, thin-walled Shelby tube</p> <p><b>MC</b> Modified California sampler with a 3.0-inch outside diameter and a 2.43-inch inside diameter</p> <p><b>SPT</b> Standard Penetration Test (SPT) split-barrel sampler with a 2.0-inch outside diameter and a 1.38- or 1.5-inch inside diameter (refer to text)</p> <p><b>ST</b> Shelby Tube (3.0-inch outside diameter, thin-walled tube) advanced with hydraulic pressure</p>
--	--

**3705 HAVEN AVENUE**  
Menlo Park, California

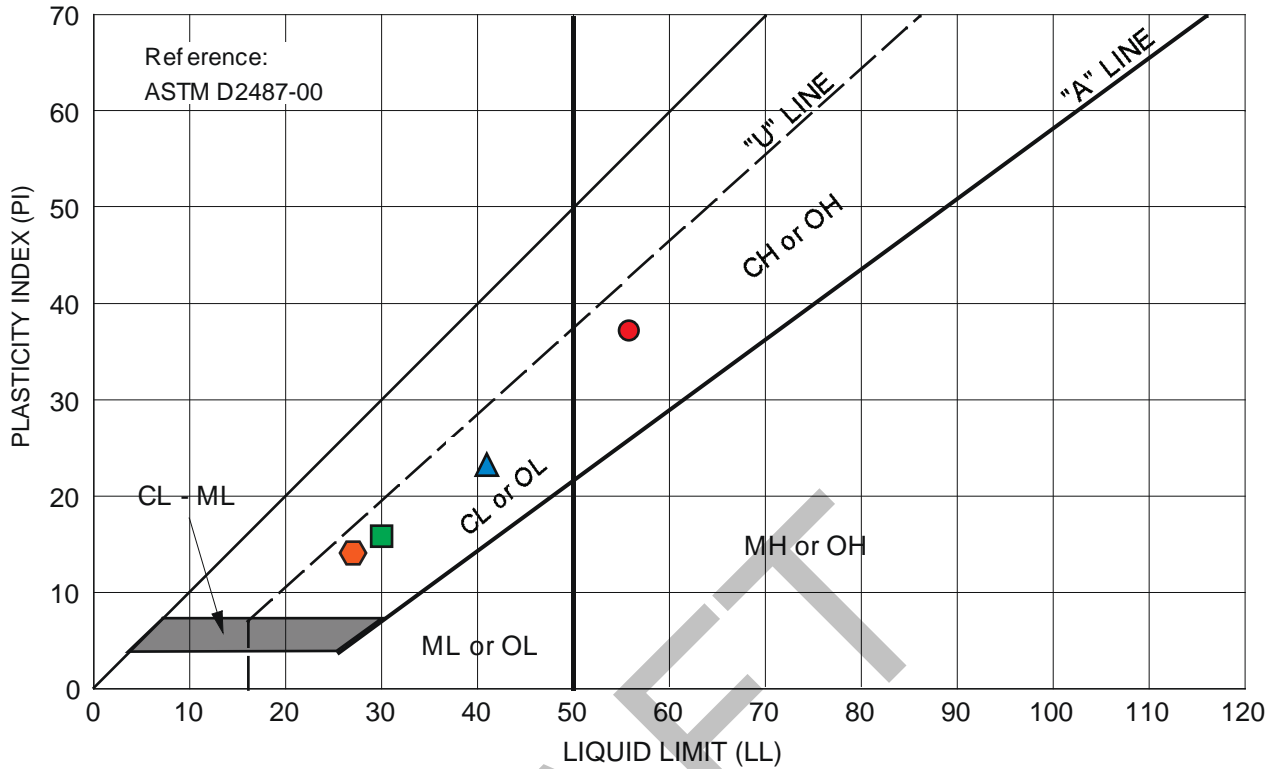


### CLASSIFICATION CHART

Date 02/08/22	Project No. 22-2153	Figure A-9
---------------	---------------------	------------

**APPENDIX B**  
**Laboratory Test Results**

DRAFT

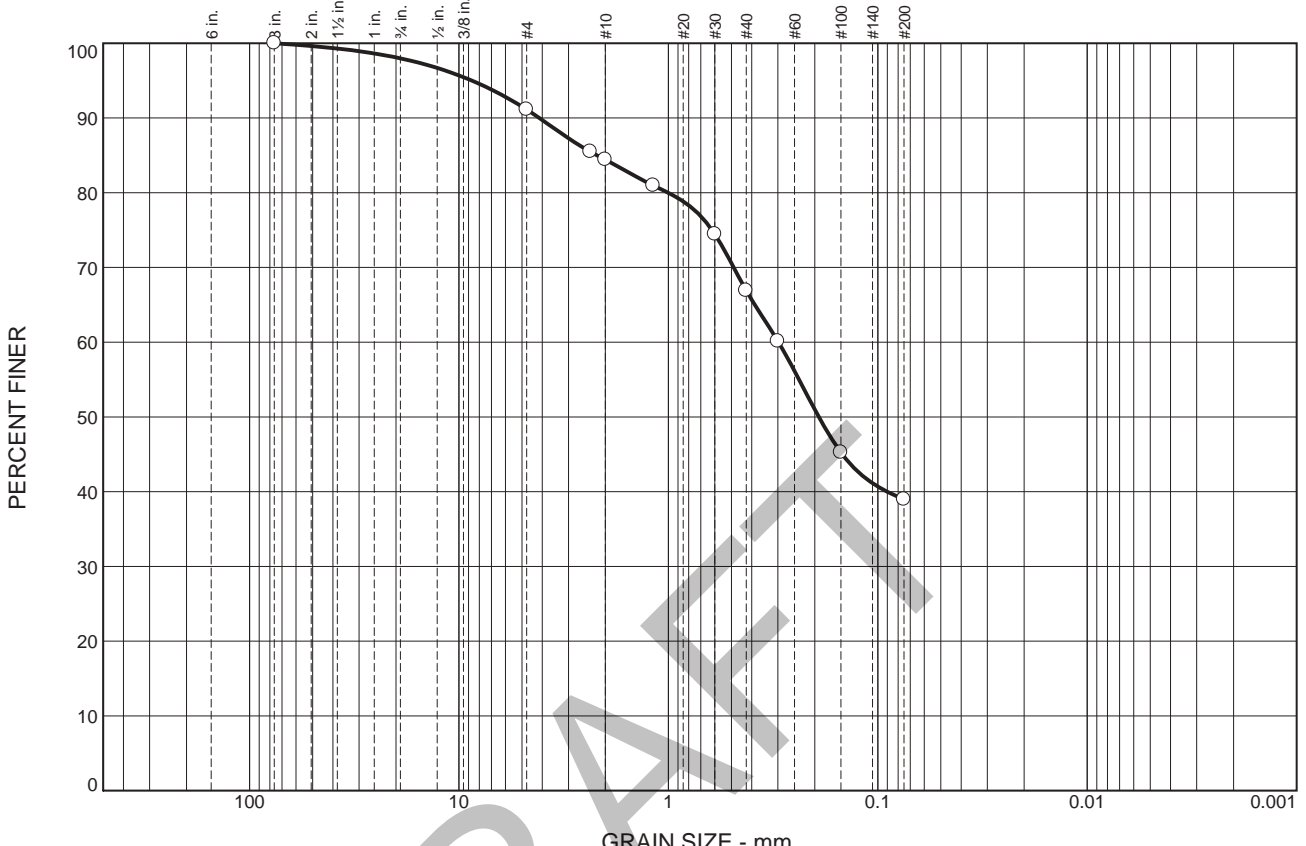


Symbol	Source	Description and Classification	Natural M.C. (%)	Liquid Limit (%)	Plasticity Index (%)	% Passing #200 Sieve
●	B-1 at 5.8 feet	CLAY with GRAVEL (CH), dark gray	22.2	56	37	--
▲	B-1 at 10.0 feet	SANDY CLAY (CL), yellow-brown	22.4	41	23	--
■	B-1 at 15.5 feet	SANDY CLAY (CL), yellow-brown	--	30	16	--
⬡	B-1 at 17.0 feet	CLAYEY SAND (SC), yellow-brown	18.5	27	14	39.0

3705 HAVEN AVENUE  
Menlo Park, California

**PLASTICITY CHART**





% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	2.0	6.9	6.7	17.5	27.9	39.0	

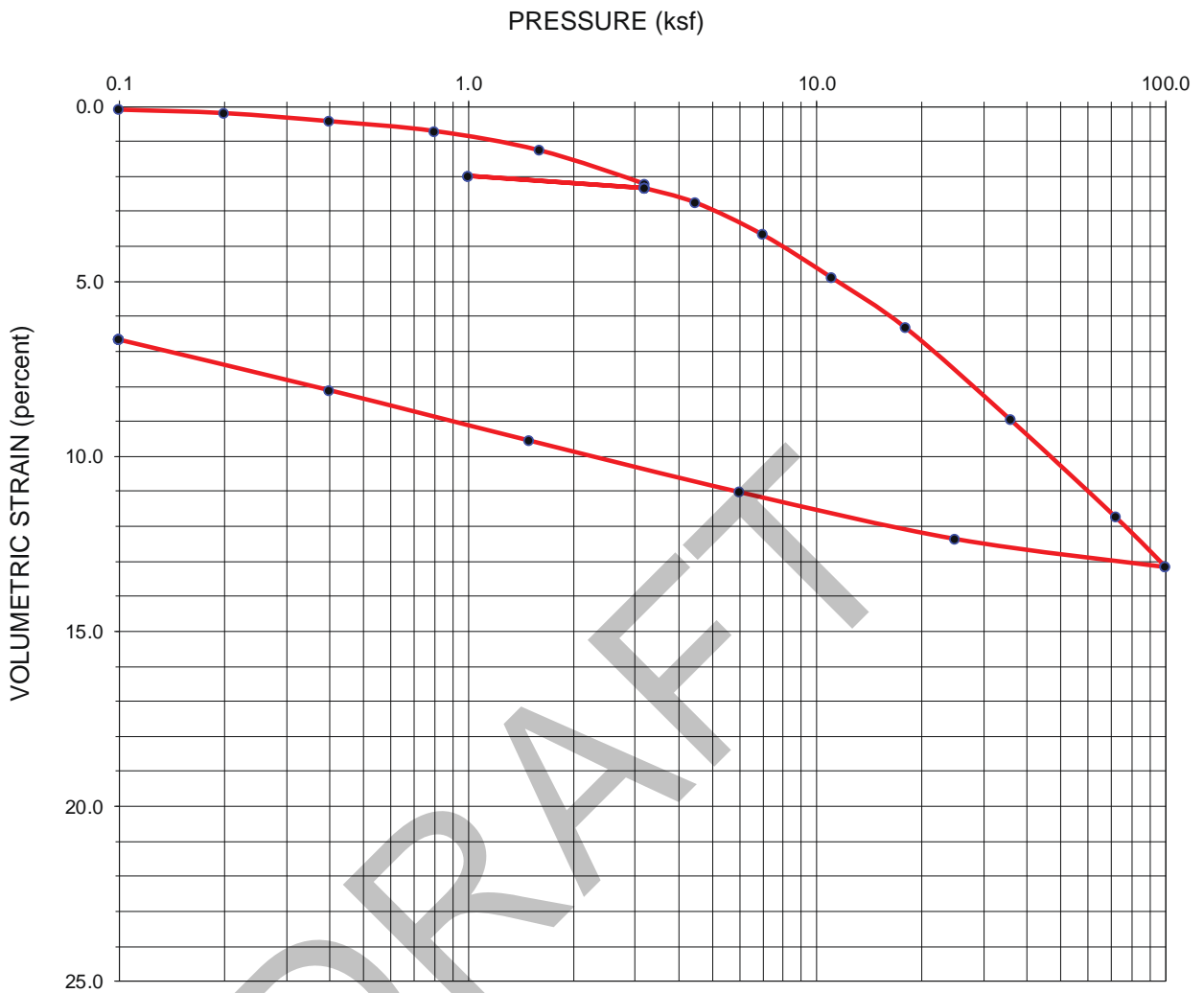
SOIL DATA				
SYMBOL	SOURCE	DEPTH (ft.)	Material Description	USCS
○	B-1	17.0'	CLAYEY SAND (SC), yellow-brown	SC

3705 HAVEN AVENUE  
Menlo Park, California

**ROCKRIDGE**  
GEOTECHNICAL

**PARTICLE SIZE DISTRIBUTION REPORT**

Date 01/09/22 | Project No. 22-2153 | Figure B-2



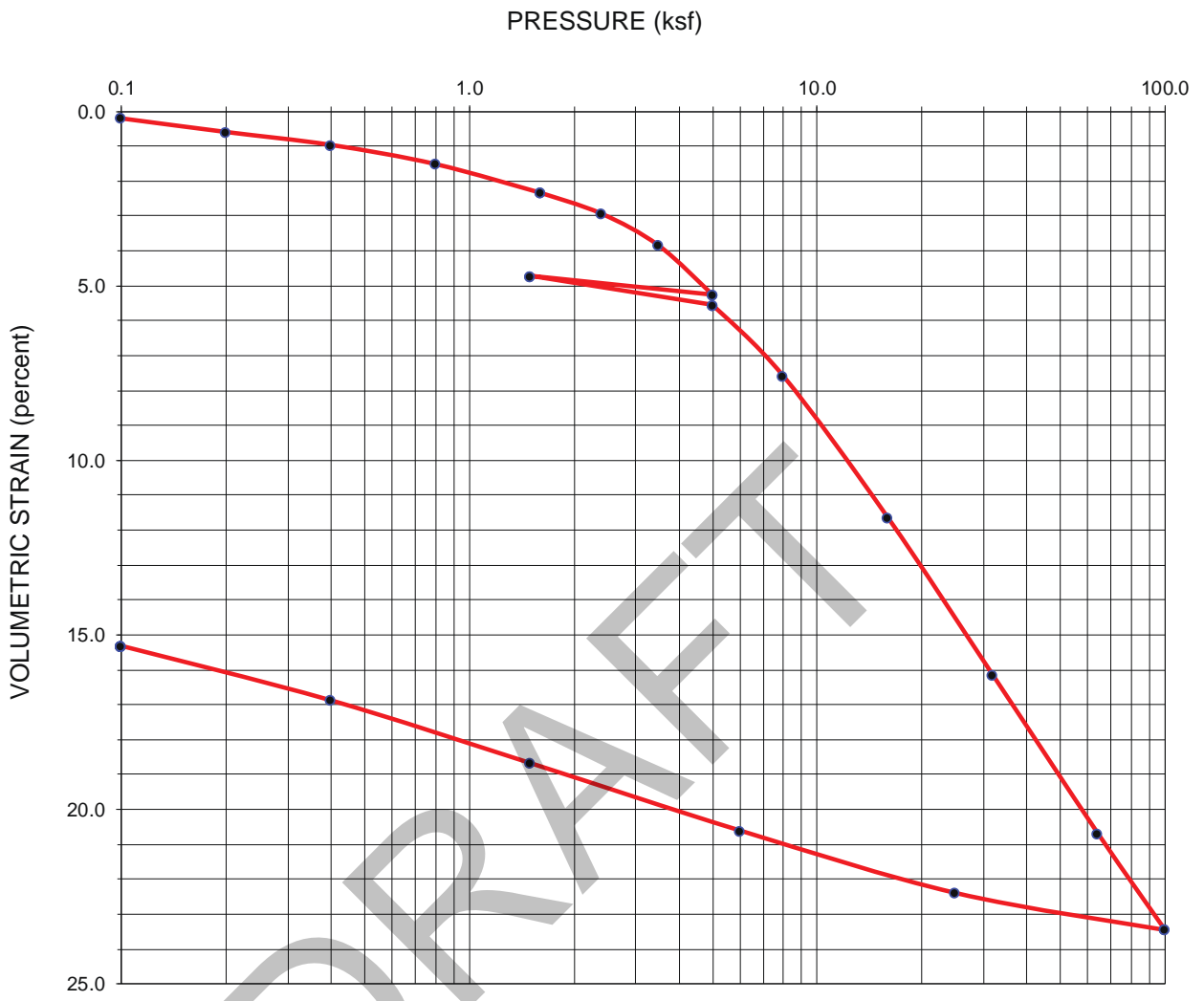
Sampler Type	Dames & Moore (D&M)	Condition	Before test	After test				
Diameter (in)	2.42	Height (in)	0.933	Water Content	$w_o$	18.3 %	$w_f$	16.9 %
Overburden Pressure, $P_o$	1,900 psf	Void Ratio	$e_o$	0.559	$e_f$	0.455		
Preconsol. Pressure, $P_c$	6,800 psf	Saturation	$S_o$	88.6 %	$S_f$	100.1 %		
Compression Ratio, $C_{\epsilon c}$	0.095	Dry Density	$\gamma_d$	108 pcf	$\gamma_d$	115 pcf		
Recompression Ratio, $C_{\epsilon r}$	0.009	LL	--	PL	--	PI	--	$G_s$ 2.70 (assumed)
Description:	SANDY CLAY (CL), yellow-brown			Source B-1 at 20 feet				

3705 HAVEN AVENUE  
Menlo Park, California



### CONSOLIDATION TEST REPORT

Date 01/09/22 | Project No. 22-2153 | Figure B-3



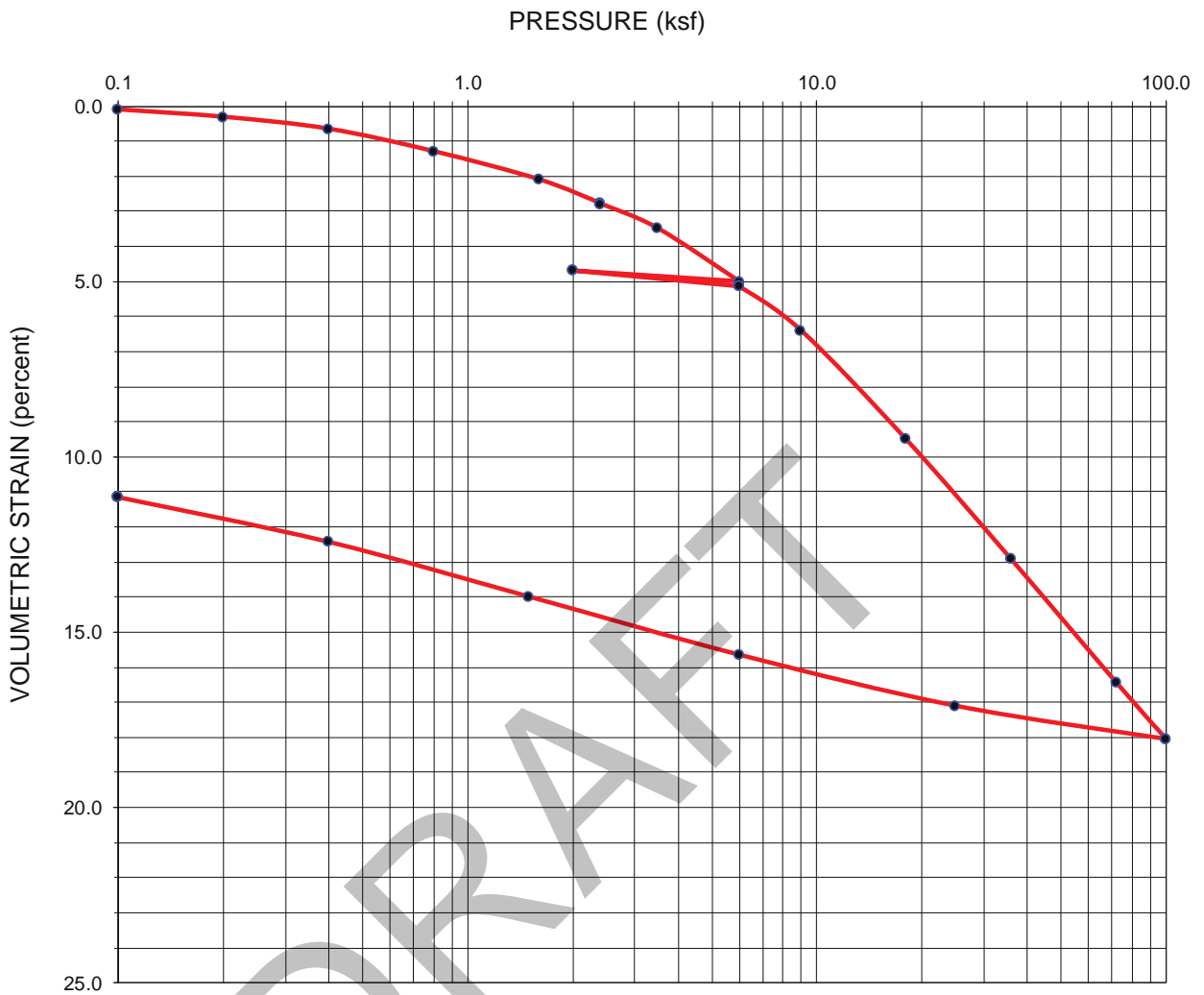
Sampler Type	Dames & Moore (D&M)	Condition	Before test	After test
Diameter (in)	2.42	Water Content	$w_o$ 32.0 %	$w_f$ 22.0 %
Height (in)	0.847	Void Ratio	$e_o$ 0.879	$e_f$ 0.591
Overburden Pressure, $P_o$	3,000 psf	Saturation	$S_o$ 98.4 %	$S_f$ 100.6 %
Preconsol. Pressure, $P_c$	5,000 psf	Dry Density	$\gamma_d$ 90 pcf	$\gamma_d$ 106 pcf
Compression Ratio, $C_{\epsilon c}$	0.157	LL	--	PL
Recompression Ratio, $C_{\epsilon r}$	0.015	PI	--	$G_s$ 2.70 (assumed)
Description:	SANDY CLAY (CL), yellow-brown		Source B-1 at 38 feet	

3705 HAVEN AVENUE  
Menlo Park, California



### CONSOLIDATION TEST REPORT

Date 02/10/22    Project No. 22-2153    Figure B-4



Sampler Type	Dames & Moore (D&M)	Condition	Before test	After test
Diameter (in)	2.42	Water Content	$w_o$ 22.5 %	$w_f$ 17.4 %
Height (in)	0.889	Void Ratio	$e_o$ 0.652	$e_f$ 0.468
Overburden Pressure, $P_o$	3,700 psf	Saturation	$S_o$ 93.3 %	$S_f$ 100.2 %
Preconsol. Pressure, $P_c$	6,000 psf	Dry Density	$\gamma_d$ 102 pcf	$\gamma_d$ 115 pcf
Compression Ratio, $C_{\epsilon c}$	0.114	LL	--	PL
Recompression Ratio, $C_{\epsilon r}$	0.013	PI	--	$G_s$ 2.70 (assumed)
Description:	SANDY CLAY (CL), yellow-brown		Source B-1 at 50 feet	

3705 HAVEN AVENUE  
Menlo Park, California



### CONSOLIDATION TEST REPORT

Date 02/10/22 | Project No. 22-2153 | Figure B-5



**Project X**  
**Corrosion Engineering**

Corrosion Control – Soil, Water, Metallurgy Testing Lab

REPORT S220119C

Bore# / Description	Method	ASTM D4327	Sulfates SO <sub>4</sub> <sup>2-</sup> (mg/kg)	ASTM D4327	Chlorides Cl <sup>-</sup> (mg/kg)	ASTM G187	Resistivity As Rec'd   Minimum (Ohm-cm)   (Ohm-cm)	ASTM D4972	pH	ASTM G200	Redox (mV)	ASTM D4658	Sulfide S <sup>2-</sup> (mg/kg)	ASTM D4327	Nitrate NO <sub>3</sub> <sup>-</sup> (mg/kg)	ASTM D6919	Ammonium NH <sub>4</sub> <sup>+</sup> (mg/kg)	ASTM D6919	Lithium Li <sup>+</sup> (mg/kg)	ASTM D6919	Sodium Na <sup>+</sup> (mg/kg)	ASTM D6919	Potassium K <sup>+</sup> (mg/kg)	ASTM D6919	Magnesium Mg <sup>2+</sup> (mg/kg)	ASTM D6919	Calcium Ca <sup>2+</sup> (mg/kg)	ASTM D4327	Fluoride F <sup>-</sup> (mg/kg)	ASTM D4327	Phosphate PO <sub>4</sub> <sup>3-</sup> (mg/kg)	
B-1: CLAY with GRAVEL (CH), dark gray	(ft)		11.0	0.0011	5.6	0.0006	1,675	1,541	8.6	240	3.75	0.9	12.8	0.06	91.3	26.1	5.9	20.3	4.5	1.9												
B-2: CLAY with GRAVEL (CH), dark gray	(ft)		37.0	0.0037	11.8	0.0012	1,005	938	8.2	226	0.51	3.6	0.9	ND	96.9	50.4	3.1	13.2	6.8	4.7												

Cations and Anions, except Sulfide and Bicarbonate, tested with Ion Chromatography  
 mg/kg = milligrams per kilogram (parts per million) of dry soil weight  
 ND = 0 = Not Detected | NT = Not Tested | Unk = Unknown  
 Chemical Analysis performed on 1:3 Soil-To-Water extract  
 PPM = mg/kg (soil) = mg/L (Liquid)

29990 Technology Dr., Suite 13, Murrieta, CA 92563 Tel: 213-928-7213 Fax: 951-226-1720  
 www.projectxcorrosion.com

**3705 HAVEN AVENUE**  
Menlo Park, California



**SOIL CORROSION TEST RESULTS**

Date 01/09/22 Project No. 22-2153 Figure B-6



**EXHIBIT E**  
**SITE DRAINAGE MANAGEMENT AREAS**

**3705 HAVEN AVENUE**  
**MENLO PARK, CALIFORNIA**



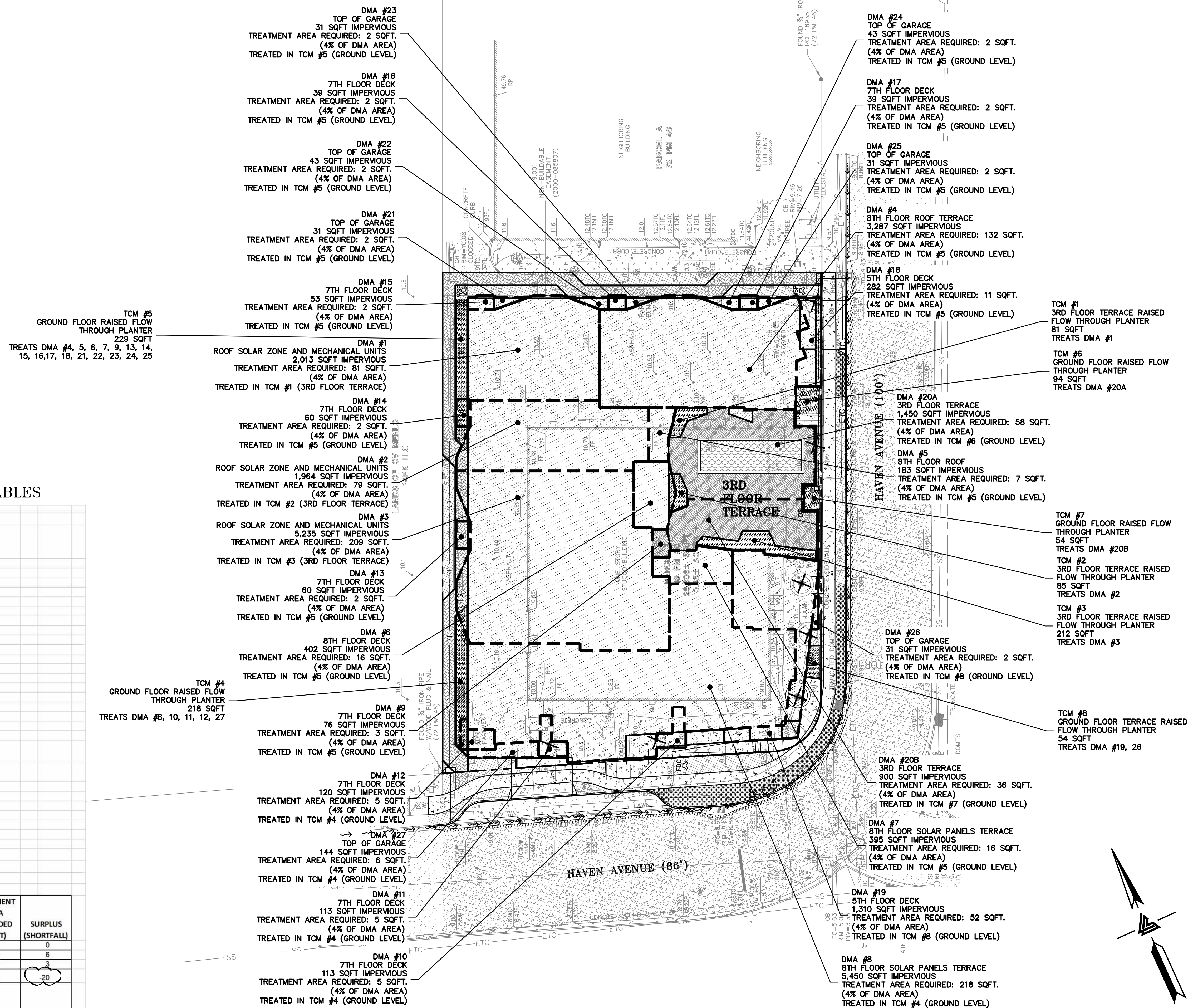


**LEA & BRAZE ENGINEERING, INC.**  
 CIVIL ENGINEERS & LAND SURVEYORS  
 REGIONAL OFFICES:  
 DUBLIN, CALIFORNIA 94568  
 SAN JOSE, CALIFORNIA 95128  
 (510) 887-4066  
 WWW.LEA-BRAZE.COM

**3705 HAVEN AVENUE  
 MENLO PARK, CALIFORNIA**  
 SAN MATEO COUNTY  
 APN: 055-170-240

**STORMWATER CONTROL  
 PLAN**

COMP REVIEW	VA
REVISIONS	BY
JOB NO:	2220759
DATE:	11-18-22
SCALE:	AS NOTED
DESIGN BY:	VA
CHECKED BY:	JH/PC
SHEET NO:	



**STORMWATER TREATMENT SUMMARY TABLES**

DMA	LOCATION	IMPERVIOUS AREA (SQ.FT)	TREATED BY TCM
DMA 1	ROOF	2,013	2
DMA 2	ROOF	1,964	2
DMA 3	ROOF	5,235	3
DMA 4	8TH FLOOR ROOF TERRACE	3,287	5
DMA 5	8TH FLOOR ROOF	183	5
DMA 6	8TH FLOOR DECK	402	5
DMA 7	8TH FLOOR SOLAR PANELS TERRACE	395	5
DMA 8	8TH FLOOR SOLAR PANELS TERRACE	5,450	4
DMA 9	7TH FLOOR DECK	76	5
DMA 10	7TH FLOOR DECK	113	4
DMA 11	7TH FLOOR DECK	113	4
DMA 12	7TH FLOOR DECK	120	4
DMA 13	7TH FLOOR DECK	60	5
DMA 14	7TH FLOOR DECK	60	5
DMA 15	7TH FLOOR DECK	53	5
DMA 16	7TH FLOOR DECK	39	5
DMA 17	7TH FLOOR DECK	39	5
DMA 18	5TH FLOOR DECK	282	5
DMA 19	5TH FLOOR DECK	1,310	8
DMA 20A	3RD FLOOR TERRACE (AREA DOES NOT INCLUDE TREATMENT PLANTERS)	1,450	6
DMA 20B	3RD FLOOR TERRACE (AREA DOES NOT INCLUDE TREATMENT PLANTERS)	900	7
DMA 21	TOP OF GARAGE	31	5
DMA 22	TOP OF GARAGE	43	5
DMA 23	TOP OF GARAGE	31	5
DMA 24	TOP OF GARAGE	43	5
DMA 25	TOP OF GARAGE	31	5
DMA 26	TOP OF GARAGE	31	8
DMA 27	TOP OF GARAGE	144	4
TOTAL IMPERVIOUS		23,898	

TCM	LOCATION	TREATS DMA #	IMPERVIOUS AREA (SQ.FT)	TREATMENT AREA REQUIRED (SQ.FT)	TREATMENT AREA PROVIDED (SQ.FT)	SURPLUS (SHORTFALL)
TCM 1	3RD FLOOR TERRACE	1	2,013	81	81	0
TCM 2	3RD FLOOR TERRACE	2	1,964	79	85	6
TCM 3	3RD FLOOR TERRACE	3	5,235	209	212	3
TCM 4	GROUND FLOOR	8, 10, 11, 12, 27	5,940	238	218	20
TCM 5	GROUND FLOOR	24, 25	5,055	202	229	27
TCM 6	GROUND FLOOR	20A	1,450	58	94	36
TCM 7	GROUND FLOOR	20B	900	36	54	18
TCM 8	GROUND FLOOR	19, 26	1,341	54	54	0
TOTAL			23,898	956	1,027	71



**EXHIBIT F**  
**NUMERIC BMP SIZING CRITERIA COMPUTATIONS PER**  
**THE C.3 STORMWATER HANDBOOK**

**3705 HAVEN AVENUE**  
**MENLO PARK, CALIFORNIA**



PROJECT 3075 Haven LLC	DATE July 28, 2022
JOB NO. 2220759	BY R. West

## IMPERVIOUS SURFACE

for

**3075 Haven LLC  
3705 Haven Avenue  
Menlo Park, CA.**

**GROSS SITE AREA:** 28,808 sqft. = 0.661 acre

**EXISTING AREA:**

Impervious:	22,873 sqft.	=	0.525 acre
Pervious Paving:	0 sqft.	=	0.000 acre
Landscape:	5,935 sqft.	=	0.136 acre

**PROPOSED AREA:**

Impervious:	24,455 sqft.	=	0.561 acre
Pervious Paving:	1,624 sqft.	=	0.037 acre
Landscape:	2,729 sqft.	=	0.063 acre

**NET CHANGE OF IMPERVIOUS AREA:** 1,582 sqft. = 0.036 acre

**NET CHANGE OF PERVIOUS PAVING:** 1,624 sqft. = 0.037 acre

**NET CHANGE OF DEVELOPED AREA:** 3,206 sqft. = 0.073 acre

***NET INCREASE***

***NET INCREASE***

***NET INCREASE***

**BREAKDOWN OF DEVELOPED AREA**

	Existing	Proposed
Building	10,368 sqft.	23,898 sqft.
Driveway & Parking	11,854 sqft.	70 sqft.
Impervious Patios, Walkways & Pads	651 sqft.	0 sqft.
Sidewalk	0 sqft.	487 sqft.
<b>TOTAL IMPERVIOUS</b>	<b>22,873 sqft.</b>	<b>24,455 sqft.</b>
Pervious Paving	0 sqft.	1,624 sqft.
<b>TOTAL</b>	<b>22,873 sqft.</b>	<b>26,079 sqft.</b>



PROJECT 3075 Haven LLC	DATE July 28, 2022
JOB NO. 2220759	BY R. West

### IMPERVIOUS SURFACE

for

**3075 Haven LLC  
3705 Haven Avenue  
Menlo Park, CA.**

Total Area of Parcel		<b>A</b>	28,808	SF
Existing Pervious Area		<b>B</b>	5,935	SF
Existing Impervious Area		<b>C</b>	22,873	SF
Existing % Impervious	$C / A * 100 =$	<b>D</b>	79.4	%
Existing Impervious Area to be replaced w/new impervious area		<b>E</b>	22,873	SF
Existing pervious area to be replaced w/new impervious area		<b>F</b>	1,582	SF
New Impervious Area (Creating and/or Replacing)	$E + F =$	<b>G</b>	24,455	SF
If <b>G</b> is greater than 10,000 SF, a hydrology report shall be submitted to Engineering.				
Existing Impervious Area to be replaced w/new pervious area		<b>H</b>	0	SF
Net change in Impervious Area	$F - H =$	<b>I</b>	1,582	SF
Input negative (-) number if the <b>F</b> (net change) is negative				
Proposed Pervious Area		$B - I =$	<b>J</b>	4,353 SF
Proposed Impervious Area		$C + I =$	<b>K</b>	24,455 SF
Verify that $J + K = A$				28,808 SF
Proposed % Impervious	$K / A * 100 =$	<b>L</b>	84.9	%

\*Pervious Concrete Sidewalk Counted as Pervious



PROJECT 3075 Haven LLC	DATE July 28, 2022
JOB NO. 2220759	BY R. West

## SITE RUNOFF COEFFICIENT CALCULATIONS

for  
**3075 Haven LLC**  
**3705 Haven Avenue**  
**Menlo Park, CA.**

**GROSS SITE AREA:** 28,808 sqft. = 0.661 acre

### Runoff Coefficient Tables

Existing:

Type of Surface	Area (ft <sup>2</sup> )	C <sub>runoff</sub>	Weight
Building	10,368	0.95	9,850
Driveway & Parking	11,854	0.95	11,261
Impervious Patios, Walkways & Pads	651	0.95	618
Sidewalk	0	0.95	0
Pervious Paving	0	0.30	0
Landscape	5,935	0.30	1,781
<b>TOTAL</b>	<b>28,808</b>		<b>23,510</b>
<b>Total Site Run-Off Coefficient = 0.816</b>			

Proposed:

Type of Surface	Area (ft <sup>2</sup> )	C <sub>runoff</sub>	Weight
Building	23,898	0.95	22,703
Driveway & Parking	70	0.95	67
Impervious Patios, Walkways & Pads	0	0.95	0
Sidewalk	487	0.95	463
Pervious Paving	1,624	0.30	487
Landscape	2,729	0.30	819
<b>TOTAL</b>	<b>28,808</b>		<b>24,538</b>
<b>Total Site Run-Off Coefficient = 0.852</b>			



PROJECT 3075 Haven LLC	DATE July 28, 2022
JOB NO. 2220759	BY R. West

## SITE RUNOFF CALCULATIONS

for

**3075 Haven LLC  
3705 Haven Avenue  
Menlo Park, CA.**

Calculations are based on the use of the Rational Method  $Q=CIA$

### CALCULATION BASE VALUES

SITE AREA = 28,808 sqft. = 0.661 acre

**Intensity** (From City of Menlo Park IDF Curve)

Time of Concentration = 10 Minutes

$I_{10 \text{ year}}$  = 1.70 in/hr

$I_{100 \text{ year}}$  = 2.50 in/hr

### Run-off

Calculations Summary Table									
	Area (ft <sup>2</sup> )	Area (Acre)	Composite $C_{\text{runoff}}$	$T_c$ (minutes)	$I_{10 \text{ year}}$ (in/hr)	$I_{100 \text{ year}}$ (in/hr)	$Q_{10 \text{ year}}$ ft <sup>3</sup> /sec	$Q_{100 \text{ year}}$ ft <sup>3</sup> /sec	
<b>Existing</b>	28,808	0.661	0.816	10	1.70	2.50	0.918	1.349	
<b>Proposed</b>	28,808	0.661	0.852	10	1.70	2.50	0.958	1.408	

### Net Change In Runoff

<b>10 Year</b>	<b>0.040 cfs.</b>	<b>Net Increase</b>
<b>100 Year</b>	<b>0.059 cfs.</b>	<b>Net Increase</b>



PROJECT 3075 Haven LLC	DATE July 28, 2022
JOB NO. 2220759	BY R. West

### DRAINAGE MANAGEMENT AREA SUMMARY

for  
**3075 Haven LLC**  
**3705 Haven Avenue**  
**Menlo Park, CA.**

#### DRAINAGE MANAGEMENT AREA SUMMARY TABLE

DMA	LOCATION	IMPERVIOUS AREA (SQ.FT)	TREATED BY DMA
DMA 1	ROOF	2,013	1
DMA 2	ROOF	1,964	2
DMA 3	ROOF	5,235	3
DMA 4	8TH FLOOR ROOF TERRACE	3,287	5
DMA 5	8TH FLOOR ROOF	183	5
DMA 6	8TH FLOOR DECK	402	5
DMA 7	8TH FLOOR SOLAR PANELS TERRACE	395	5
DMA 8	8TH FLOOR SOLAR PANELS TERRACE	5,450	4
DMA 9	7TH FLOOR DECK	76	5
DMA 10	7TH FLOOR DECK	113	5
DMA 11	7TH FLOOR DECK	113	5
DMA 12	7TH FLOOR DECK	120	5
DMA 13	7TH FLOOR DECK	60	5
DMA 14	7TH FLOOR DECK	60	5
DMA 15	7TH FLOOR DECK	53	5
DMA 16	7TH FLOOR DECK	39	5
DMA 17	7TH FLOOR DECK	39	5
DMA 18	5TH FLOOR DECK	282	5
DMA 19	5TH FLOOR DECK	1,310	7
DMA 20	3RD FLOOR TERRACE (AREA DOES NOT INCLUDE TREATMENT PLANTERS)	2,350	6
DMA 21	TOP OF GARAGE	31	5
DMA 22	TOP OF GARAGE	43	5
DMA 23	TOP OF GARAGE	31	5
DMA 24	TOP OF GARAGE	43	5
DMA 25	TOP OF GARAGE	31	5
DMA 26	TOP OF GARAGE	31	5
DMA 27	TOP OF GARAGE	144	5
TOTAL IMPERVIOUS		23,898	

#### TREATMENT CONTROL MEASURE SUMMARY TABLE

TCM	LOCATION	TREATS DMA #	IMPERVIOUS AREA (SQ.FT)	TREATMENT AREA REQUIRED (SQ.FT)	TREATMENT AREA PROVIDED (SQ.FT)	SURPLUS (SHORTFALL)
TCM 1	3RD FLOOR TERRACE	1	2,013	81	81	0
TCM 2	3RD FLOOR TERRACE	2	1,964	79	85	6
TCM 3	3RD FLOOR TERRACE	3	5,235	209	212	3
TCM 4	GROUND FLOOR	8	5,450	218	218	0
TCM 5	GROUND FLOOR	4, 5, 6, 7, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 21, 22, 23, 24, 25, 26, 27	5,576	223	229	6
TCM 6	GROUND FLOOR	20	2,350	94	94	0
TCM 7	GROUND FLOOR	19	1,310	52	54	2
TOTAL			23,898	956	973	17



**EXHIBIT G**  
**CONSTRUCTION DETAILS OF THE PROPOSED**  
**DRAINAGE SYSTEM**

**3705 HAVEN AVENUE**  
**MENLO PARK, CALIFORNIA**



**EXHIBIT H  
MAINTENANCE PLAN**

**3705 HAVEN AVENUE  
MENLO PARK, CALIFORNIA**

Flow-Through Planter Maintenance Plan  
 Property Address: 3705 Haven Avenue, Menlo Park

Flow-Through Planter Maintenance Plan for  
 3705 Haven Avenue, Menlo Park

[05/08/2023]

Project Address and Cross Streets

3705 Haven Avenue, Menlo Park

Assessor's Parcel No. 055-170-240

Property Owner: 3705 Haven Avenue LLC

Designated Contact: Emerald Xu, Pedro Botero-Toro

Phone No.: (917) 874-9893; (510) 506-9888

Mailing Address: 2040 Webster Street, San Francisco, CA 94115

The property contains 8 flow-through planter(s), located as described below and as shown in the attached site plan<sup>1</sup>:

TCM	LOCATION	TREATMENT AREA (SQ.FT)	TREATS	TOTAL AREA TREATED (SQ.FT.)	SURPLUS (SHORTFALL)
TCM 1	3RD FLOOR TERRACE	81	1	81	0
TCM 2	3RD FLOOR TERRACE	85	2	79	6
TCM 3	3RD FLOOR TERRACE	212	3	209	3
TCM 4	GROUND FLOOR (LEFT BOTTOM)	218	8	218	0
TCM 5	GROUND FLOOR (LEFT TOP)	229	4, 5, 6, 7, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 21, 22, 23	223	6
TCM 6	GROUND FLOOR (RIGHT TOP)	94	20	94	0
TCM 7	GROUND FLOOR (RIGHT BOTTOM)	54	19	52	2
TOTAL BUILDING FOOTPRINT (TOTAL IMPERVIOUS + TCM 1, 2 &3)		24,270			
REQUIRED TREATMENT			971		
PROVIDED TREATMENT				974	

<sup>1</sup> Attached site plan must match the site plan exhibit to Maintenance Agreement.

<sup>2</sup> Plant lists, Specifications for Biotreatment Soil Media and Mulch and Supplier lists, can be found here:

[www.flowstobay.org/preventing-stormwater-pollution/with-new-redevelopment/c-3-regulated-projects/](http://www.flowstobay.org/preventing-stormwater-pollution/with-new-redevelopment/c-3-regulated-projects/)

Flow-Through Planter Maintenance Plan  
 Property Address: 3705 Haven Avenue, Menlo Park

I. Routine Maintenance Activities

The principal maintenance objectives are to ensure that water flows unimpeded into the flowthrough planter and landscaping remains attractive in appearance. Table 1 shows the routine maintenance activities, and the frequency at which they will be conducted.

Table 1 Routine Maintenance Activities for Flow-Through Planters		
No.	Maintenance Task	Frequency of Task
1	Evaluate health of trees, shrubs and small plants. Remove and replace all dead and diseased vegetation. <sup>2</sup>	Twice a year
2	Maintain vegetation and the irrigation system. Prune and weed to keep flowthrough planter neat and orderly in appearance.	As needed
3	Check that mulch is 3" deep and replenish as necessary. It is recommended that composted arbor mulch be applied once per year to maintain the 3" depth in all bare soil areas except within six inches of tree trunks. <sup>2</sup>	Before wet season and as needed
4	Check that soil is at appropriate depth. If it has sunk more than 3" below the 9" design depth, till or replace soil with the approved biotreatment soil media as necessary to maintain a minimum of 6 inches and a maximum of 12" between the top of the biotreatment soil media and overflow outlet. <sup>2</sup>	Before wet season and as necessary
5	Remove obstructions, accumulated sediment, litter/trash and debris and dispose of properly. Confirm that no clogging will occur and that planter will drain within one day.	Before wet season and as necessary
6	Inspect flow-through planter to ensure that there are no clogs. Test with garden hose to confirm that the planter will drain within three to four hours.	Before wet season and after large storm events
7	Inspect downspouts from rooftops and sheet flow from paved areas to ensure flow to planter box is unimpeded. Remove debris and repair damaged pipes. Check splash blocks or rocks and repair, replace and replenish as necessary.	Monthly during the wet season, and as needed after storm events
8	Inspect overflow pipe to ensure that it will safely convey excess flows to storm drain. Repair or replace any damaged or disconnected piping.	Before the wet season, and as necessary
9	Inspect flow-through planter to ensure that box is structurally sound (no cracks or leaks). Repair as necessary.	Annually
10	Inspect flow-through planter using the attached inspection checklist.	Monthly, or after large storm events, and after removal of accumulated debris or material

II. Prohibitions

Do not use pesticides or other chemical applications to treat diseased plants, control weeds or removed unwanted growth. Employ non-chemical controls (biological, physical and cultural controls) to treat a pest problem. Prune plants properly and at the appropriate time of year. Provide adequate irrigation for landscape plants. Do not over water.

<sup>1</sup> Attached site plan must match the site plan exhibit to Maintenance Agreement.

<sup>2</sup> Plant lists, Specifications for Biotreatment Soil Media and Mulch and Supplier lists, can be found here: [www.flowstobay.org/preventing-stormwater-pollution/with-new-redevelopment/c-3-regulated-projects/](http://www.flowstobay.org/preventing-stormwater-pollution/with-new-redevelopment/c-3-regulated-projects/)

Flow-Through Planter Maintenance Plan  
Property Address: 3705 Haven Avenue, Menlo Park

### III. Mosquito Abatement

Standing water shall not remain in the treatment measures for more than five days, to prevent mosquito generation. Should any mosquito issues arise, contact the San Mateo County Mosquito and Vector Control District (SMCMVCD), as needed for assistance. Mosquito larvicides shall be applied only when absolutely necessary, as indicated by the SMCMAAD, and then only by a licensed professional or contractor. Contact information for SMCMAAD is provided below.

San Mateo County Mosquito and Vector Control District  
1351 Rollins Road  
Burlingame, CA 94010  
PH: (650) 344-8592  
FAX: (650) 344-3843  
[Email: info@smcmvcd.org](mailto:info@smcmvcd.org)

### IV. Inspections

The attached Flow-Through Planter Inspection and Maintenance Checklist shall be used to conduct inspections monthly (or as needed), identify needed maintenance, and record maintenance that is conducted.

<sup>1</sup> Attached site plan must match the site plan exhibit to Maintenance Agreement.

<sup>2</sup> Plant lists, Specifications for Biotreatment Soil Media and Mulch and Supplier lists, can be found here:  
[www.flowstobay.org/preventing-stormwater-pollution/with-new-redevelopment/c-3-regulated-projects/](http://www.flowstobay.org/preventing-stormwater-pollution/with-new-redevelopment/c-3-regulated-projects/)

Flow-Through Planter Maintenance Plan  
 Property Address: 3705 Haven Avenue, Menlo Park

### Flow-Through Planter Inspection and Maintenance Checklist

Property Address: 3705 Haven Avenue, Menlo Park

Property Owner: \_\_\_\_\_

Treatment Measure No.: \_\_\_\_\_ Date of Inspection: \_\_\_\_\_ Type of Inspection:  Monthly  Pre-Wet Season  
 After heavy runoff  End of Wet Season  
 Other: \_\_\_\_\_

Inspector(s): \_\_\_\_\_

Defect	Conditions When Maintenance Is Needed	Maintenance Needed? (Y/N)	Comments (Describe maintenance completed and if needed maintenance was not conducted, note when it will be done)	Results Expected When Maintenance Is Performed
1. Vegetation	Vegetation is dead, diseased and/or overgrown.			Vegetation is healthy and attractive in appearance.
2. Soil	Soil too deep or too shallow.			Soil is at proper depth (per soil specifications) for optimum filtration and flow.
3. Mulch	Mulch is missing or patchy in appearance. Areas of bare earth are exposed, or mulch layer is less than 3 inches in depth.			All bare earth is covered, except mulch is kept 6 inches away from trunks of trees and shrubs. Mulch is even in appearance, at a depth of 3 inches.
4. Sediment, Trash and Debris Accumulation	Sediment, trash and debris accumulated in the flow-through planter. Planter does not drain as specified.			Sediment, trash and debris removed from flow-through planter and disposed of properly. Planter drains within 3-4 hours.
5. Clogs	Soil too deep or too shallow. Sediment, trash and debris accumulated in the flowthrough planter. Planter does not drain within three days after rainfall.			Planter drains per design specifications.

<sup>1</sup> Attached site plan must match the site plan exhibit to Maintenance Agreement.

<sup>2</sup> Plant lists, Specifications for Biotreatment Soil Media and Mulch and Supplier lists, can be found here: [www.flowstobay.org/preventing-stormwater-pollution/with-new-redevelopment/c-3-regulated-projects/](http://www.flowstobay.org/preventing-stormwater-pollution/with-new-redevelopment/c-3-regulated-projects/)

Flow-Through Planter Maintenance Plan

Property Address: 3705 Haven Avenue, Menlo Park

6. Downspouts and Sheet Flow	Flow to planter is impeded. Downspouts are clogged or pipes are damaged. Splash blocks and rocks in need of repair, replacement or replenishment.			Downspouts and sheet flow is conveyed efficiently to the planter.
7. Overflow Pipe	Does not safely convey excess flows to storm drain. Piping damaged or disconnected.			Overflow pipe conveys excess flow to storm drain efficiently.
8. Structural Soundness	Planter is cracked, leaking or falling apart.			Cracks and leaks are repaired and planter is structurally sound.
9. Miscellaneous	Any condition not covered above that needs attention in order for the flowthrough planter to function as designed.			Meet the design specifications.

<sup>1</sup> Attached site plan must match the site plan exhibit to Maintenance Agreement.

<sup>2</sup> Plant lists, Specifications for Biotreatment Soil Media and Mulch and Supplier lists, can be found here: [www.flowstobay.org/preventing-stormwater-pollution/with-new-redevelopment/c-3-regulated-projects/](http://www.flowstobay.org/preventing-stormwater-pollution/with-new-redevelopment/c-3-regulated-projects/)



# ***3705 HAVEN AVENUE NOISE AND VIBRATION ASSESSMENT***

***Menlo Park, California***

**June 20, 2024**

**Prepared for:**

**Fiona Phung  
Project Manager  
David J. Powers & Associates, Inc.  
1871 The Alameda, Suite 200  
San José, CA 95126**

**Prepared by:**

**Adwait Ambaskar  
Michael S. Thill**

**ILLINGWORTH & RODKIN, INC.**  
/// Acoustics • Air Quality ///

429 E. Cotati Avenue  
Cotati, CA 94931  
(707) 794-0400

**I&R Job No.: 23-152**

## INTRODUCTION

The project proposes to demolish the existing 10,361 square foot commercial building and redevelop the project site with an eight-story, 112-unit residential apartment building at 3705 Haven Avenue, Menlo Park, California.

This report evaluates the project's potential to result in significant environmental noise impacts with respect to applicable California Environmental Quality Act (CEQA) guidelines. The report is divided into three sections: (1) the Setting section provides a brief description of the fundamentals of environmental noise and groundborne vibration, summarizes applicable regulatory criteria, and discusses the results of the ambient noise monitoring survey completed to document existing noise conditions; (2) the General Plan Consistency section discusses land use compatibility utilizing noise policies in the City's General Plan; and (3) the Impacts and Mitigation Measures section describes the significance criteria used to evaluate project impacts, provides a discussion of each project impact, and presents measures, where necessary, to mitigate the impacts to a less-than-significant level.

## SETTING

### Fundamentals of Environmental Noise

Noise may be defined as unwanted sound. Noise is usually objectionable because it is disturbing or annoying. The objectionable nature of sound could be caused by its *pitch* or its *loudness*. *Pitch* is the height or depth of a tone or sound, depending on the relative rapidity (*frequency*) of the vibrations by which it is produced. Higher pitched signals sound louder to humans than sounds with a lower pitch. *Loudness* is the intensity of sound waves combined with the reception characteristics of the ear. Intensity may be compared with the height of an ocean wave in that it is a measure of the amplitude of the sound wave.

In addition to the concepts of pitch and loudness, there are several noise measurement scales which are used to describe noise in a particular location. A *decibel (dB)* is a unit of measurement which indicates the relative amplitude of a sound. The zero on the decibel scale is based on the lowest sound level that the healthy, unimpaired human ear can detect. Sound levels in decibels are calculated on a logarithmic basis. An increase of 10 decibels represents a ten-fold increase in acoustic energy, while 20 decibels is 100 times more intense, 30 decibels is 1,000 times more intense, etc. There is a relationship between the subjective noisiness or loudness of a sound and its intensity. Each 10 decibel increase in sound level is perceived as approximately a doubling of loudness over a fairly wide range of intensities. Technical terms are defined in Table 1.

There are several methods of characterizing sound. The most common in California is the *A-weighted sound level (dBA)*. This scale gives greater weight to the frequencies of sound to which the human ear is most sensitive. Representative outdoor and indoor noise levels in units of dBA are shown in Table 2. Because sound levels can vary markedly over a short period of time, a method for describing either the average character of the sound or the statistical behavior of the variations must be utilized. Most commonly, environmental sounds are described in terms of an average level that has the same acoustical energy as the summation of all the time-varying events.

**TABLE 1 Definition of Acoustical Terms Used in this Report**

<b>Term</b>	<b>Definition</b>
Decibel, dB	A unit describing the amplitude of sound, equal to 20 times the logarithm to the base 10 of the ratio of the pressure of the sound measured to the reference pressure. The reference pressure for air is 20 micro Pascals.
Sound Pressure Level	Sound pressure is the sound force per unit area, usually expressed in micro Pascals (or 20 micro Newtons per square meter), where 1 Pascal is the pressure resulting from a force of 1 Newton exerted over an area of 1 square meter. The sound pressure level is expressed in decibels as 20 times the logarithm to the base 10 of the ratio between the pressures exerted by the sound to a reference sound pressure (e.g., 20 micro Pascals). Sound pressure level is the quantity that is directly measured by a sound level meter.
Frequency, Hz	The number of complete pressure fluctuations per second above and below atmospheric pressure. Normal human hearing is between 20 Hz and 20,000 Hz. Infrasonic sound are below 20 Hz and Ultrasonic sounds are above 20,000 Hz.
A-Weighted Sound Level, dBA	The sound pressure level in decibels as measured on a sound level meter using the A-weighting filter network. The A-weighting filter de-emphasizes the very low and very high frequency components of the sound in a manner similar to the frequency response of the human ear and correlates well with subjective reactions to noise.
Equivalent Noise Level, $L_{eq}$	The average A-weighted noise level during the measurement period.
$L_{max}$ , $L_{min}$	The maximum and minimum A-weighted noise level during the measurement period.
$L_{01}$ , $L_{10}$ , $L_{50}$ , $L_{90}$	The A-weighted noise levels that are exceeded 1%, 10%, 50%, and 90% of the time during the measurement period.
Day/Night Noise Level, $L_{dn}$ or DNL	The average A-weighted noise level during a 24-hour day, obtained after addition of 10 decibels to levels measured in the night between 10:00 pm and 7:00 am.
Community Noise Equivalent Level, CNEL	The average A-weighted noise level during a 24-hour day, obtained after addition of 5 decibels in the evening from 7:00 pm to 10:00 pm and after addition of 10 decibels to sound levels measured in the night between 10:00 pm and 7:00 am.
Ambient Noise Level	The composite of noise from all sources near and far. The normal or existing level of environmental noise at a given location.
Intrusive	That noise which intrudes over and above the existing ambient noise at a given location. The relative intrusiveness of a sound depends upon its amplitude, duration, frequency, and time of occurrence and tonal or informational content as well as the prevailing ambient noise level.

Source: Handbook of Acoustical Measurements and Noise Control, Harris, 1998.

**TABLE 2 Typical Noise Levels in the Environment**

Common Outdoor Activities	Noise Level (dBA)	Common Indoor Activities
	<b>110 dBA</b>	Rock band
Jet fly-over at 1,000 feet		
	<b>100 dBA</b>	
Gas lawn mower at 3 feet		
	<b>90 dBA</b>	
Diesel truck at 50 feet at 50 mph		Food blender at 3 feet
	<b>80 dBA</b>	Garbage disposal at 3 feet
Noisy urban area, daytime		
Gas lawn mower, 100 feet	<b>70 dBA</b>	Vacuum cleaner at 10 feet
Commercial area		Normal speech at 3 feet
Heavy traffic at 300 feet	<b>60 dBA</b>	
		Large business office
Quiet urban daytime	<b>50 dBA</b>	Dishwasher in next room
Quiet urban nighttime	<b>40 dBA</b>	Theater, large conference room
Quiet suburban nighttime		
	<b>30 dBA</b>	Library
Quiet rural nighttime		Bedroom at night, concert hall (background)
	<b>20 dBA</b>	
		Broadcast/recording studio
	<b>10 dBA</b>	
	<b>0 dBA</b>	

Source: Technical Noise Supplement (TeNS), California Department of Transportation, September 2013.

This *energy-equivalent sound/noise descriptor* is called  $L_{eq}$ . The most common averaging period is hourly, but  $L_{eq}$  can describe any series of noise events of arbitrary duration.

The scientific instrument used to measure noise is the sound level meter. Sound level meters can accurately measure environmental noise levels to within about plus or minus 1 dBA. Various computer models are used to predict environmental noise levels from sources, such as roadways and airports. The accuracy of the predicted models depends upon the distance the receptor is from the noise source. Close to the noise source, the models are accurate to within about plus or minus 1 to 2 dBA.

Since the sensitivity to noise increases during the evening and at night -- because excessive noise interferes with the ability to sleep -- 24-hour descriptors have been developed that incorporate artificial noise penalties added to quiet-time noise events. The *Community Noise Equivalent Level (CNEL)* is a measure of the cumulative noise exposure in a community, with a 5 dB penalty added to evening (7:00 p.m. to 10:00 p.m.) and a 10 dB addition to nocturnal (10:00 p.m. to 7:00 a.m.) noise levels. The *Day/Night Average Sound Level (DNL or  $L_{dn}$ )* is essentially the same as CNEL, with the exception that the evening time period is dropped and all occurrences during this three-hour period are grouped into the daytime period.

## **Effects of Noise**

### *Sleep and Speech Interference*

The thresholds for speech interference indoors are about 45 dBA if the noise is steady and above 55 dBA if the noise is fluctuating. Outdoors the thresholds are about 15 dBA higher. Steady noises of sufficient intensity (above 35 dBA) and fluctuating noise levels above about 45 dBA have been shown to affect sleep. Interior residential standards for multi-family dwellings are set by the State of California at 45 dBA DNL. Typically, the highest steady traffic noise level during the daytime is about equal to the DNL and nighttime levels are 10 dBA lower. The standard is designed for sleep and speech protection and most jurisdictions apply the same criterion for all residential uses. Typical structural attenuation is 12 to 17 dBA with open windows. With closed windows in good condition, the noise attenuation factor is around 20 dBA for an older structure and 25 dBA for a newer dwelling. Sleep and speech interference is therefore possible when exterior noise levels are about 57 to 62 dBA DNL with open windows and 65 to 70 dBA DNL if the windows are closed. Levels of 55 to 60 dBA are common along collector streets and secondary arterials, while 65 to 70 dBA is a typical value for a primary/major arterial. Levels of 75 to 80 dBA are normal noise levels at the first row of development outside a freeway right-of-way. In order to achieve an acceptable interior noise environment, bedrooms facing secondary roadways need to be able to have their windows closed, those facing major roadways and freeways typically need special glass windows.

### *Annoyance*

Attitude surveys are used for measuring the annoyance felt in a community for noises intruding into homes or affecting outdoor activity areas. In these surveys, it was determined that the causes for annoyance include interference with speech, radio and television, house vibrations, and interference with sleep and rest. The DNL as a measure of noise has been found to provide a valid

correlation of noise level and the percentage of people annoyed. People have been asked to judge the annoyance caused by aircraft noise and ground transportation noise. There continues to be disagreement about the relative annoyance of these different sources. When measuring the percentage of the population highly annoyed, the threshold for ground vehicle noise is about 50 dBA DNL. At a DNL of about 60 dBA, approximately 12 percent of the population is highly annoyed. When the DNL increases to 70 dBA, the percentage of the population highly annoyed increases to about 25 to 30 percent of the population. There is, therefore, an increase of about 2 percent per dBA between a DNL of 60 to 70 dBA. Between a DNL of 70 to 80 dBA, each decibel increase increases by about 3 percent the percentage of the population highly annoyed. People appear to respond more adversely to aircraft noise. When the DNL is 60 dBA, approximately 30 to 35 percent of the population is believed to be highly annoyed. Each decibel increase to 70 dBA adds about 3 percentage points to the number of people highly annoyed. Above 70 dBA, each decibel increase results in about a 4 percent increase in the percentage of the population highly annoyed.

### **Fundamentals of Groundborne Vibration**

Ground vibration consists of rapidly fluctuating motions or waves with an average motion of zero. Several different methods are typically used to quantify vibration amplitude. One method is the Peak Particle Velocity (PPV). The PPV is defined as the maximum instantaneous positive or negative peak of the vibration wave. In this report, a PPV descriptor with units of mm/sec or in/sec is used to evaluate construction generated vibration for building damage and human complaints. Table 3 displays the reactions of people and the effects on buildings that continuous or frequent intermittent vibration levels produce. The guidelines in Table 3 represent syntheses of vibration criteria for human response and potential damage to buildings resulting from construction vibration.

Construction activities can cause vibration that varies in intensity depending on several factors. The use of pile driving, and vibratory compaction equipment typically generates the highest construction related ground borne vibration levels. Because of the impulsive nature of such activities, the use of the PPV descriptor has been routinely used to measure and assess ground borne vibration and almost exclusively to assess the potential of vibration to cause damage and the degree of annoyance for humans.

The two primary concerns with construction-induced vibration, the potential to damage a structure and the potential to interfere with the enjoyment of life, are evaluated against different vibration limits. Human perception to vibration varies with the individual and is a function of physical setting and the type of vibration. Persons exposed to elevated ambient vibration levels, such as people in an urban environment, may tolerate a higher vibration level.

Structural damage can be classified as cosmetic only, such as paint flaking or minimal extension of cracks in building surfaces; minor, including limited surface cracking; or major, that may threaten the structural integrity of the building. Safe vibration limits that can be applied to assess the potential for damaging a structure vary by researcher. The damage criteria presented in Table 3 include several categories for ancient, fragile, and historic structures, the types of structures most at risk to damage. Most buildings are included within the categories ranging from “Historic and

some old buildings” to “Modern industrial/commercial buildings”. Construction-induced vibration that can be detrimental to the building is very rare and has only been observed in instances where the structure is at a high state of disrepair and the construction activity occurs immediately adjacent to the structure.

The annoyance levels shown in Table 3 should be interpreted with care since vibration may be found to be annoying at lower levels than those shown, depending on the level of activity or the sensitivity of the individual. To sensitive individuals, vibrations approaching the threshold of perception can be annoying. Low-level vibrations frequently cause irritating secondary vibration, such as a slight rattling of windows, doors, or stacked dishes. The rattling sound can give rise to exaggerated vibration complaints, even though there is very little risk of actual structural damage.

**TABLE 3 Reaction of People and Damage to Buildings from Continuous or Frequent Intermittent Vibration Levels**

<b>Velocity Level, PPV (in/sec)</b>	<b>Human Reaction</b>	<b>Effect on Buildings</b>
0.01	Barely perceptible	No effect
0.04	Distinctly perceptible	Vibration unlikely to cause damage of any type to any structure
0.08	Distinctly perceptible to strongly perceptible	Recommended upper level of the vibration to which ruins and ancient monuments should be subjected
0.1	Strongly perceptible	Threshold at which there is a risk of damage to fragile buildings with no risk of damage to most buildings
0.25	Strongly perceptible to severe	Threshold at which there is a risk of damage to historic and some old buildings.
0.3	Strongly perceptible to severe	Threshold at which there is a risk of damage to older residential structures
0.5	Severe - Vibrations considered unpleasant	Threshold at which there is a risk of damage to new residential and modern commercial/industrial structures

Source: Transportation and Construction Vibration Guidance Manual, California Department of Transportation, April 2020.

## Regulatory Background – Noise

### State of California

*State CEQA Guidelines.* The California Environmental Quality Act (CEQA) contains guidelines to evaluate the significance of effects of environmental noise attributable to a proposed project. Under CEQA, noise impacts would be considered significant if the project would result in:

- (a) Generation of a substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies;
- (b) Generation of excessive groundborne vibration or groundborne noise levels;
- (c) For a project located within the vicinity of a private airstrip or an airport land use plan, or where such a plan has not been adopted, within two miles of a public airport or public use airport, if the project would expose people residing or working in the project area to excessive noise levels.

*2022 California Building Code, Title 24, Part 2.* The current version of the California Building Code (CBC) requires interior noise levels in multi-family residential units attributable to exterior environmental noise sources to be limited to a level not exceeding 45 dBA DNL/CNEL in any habitable room.

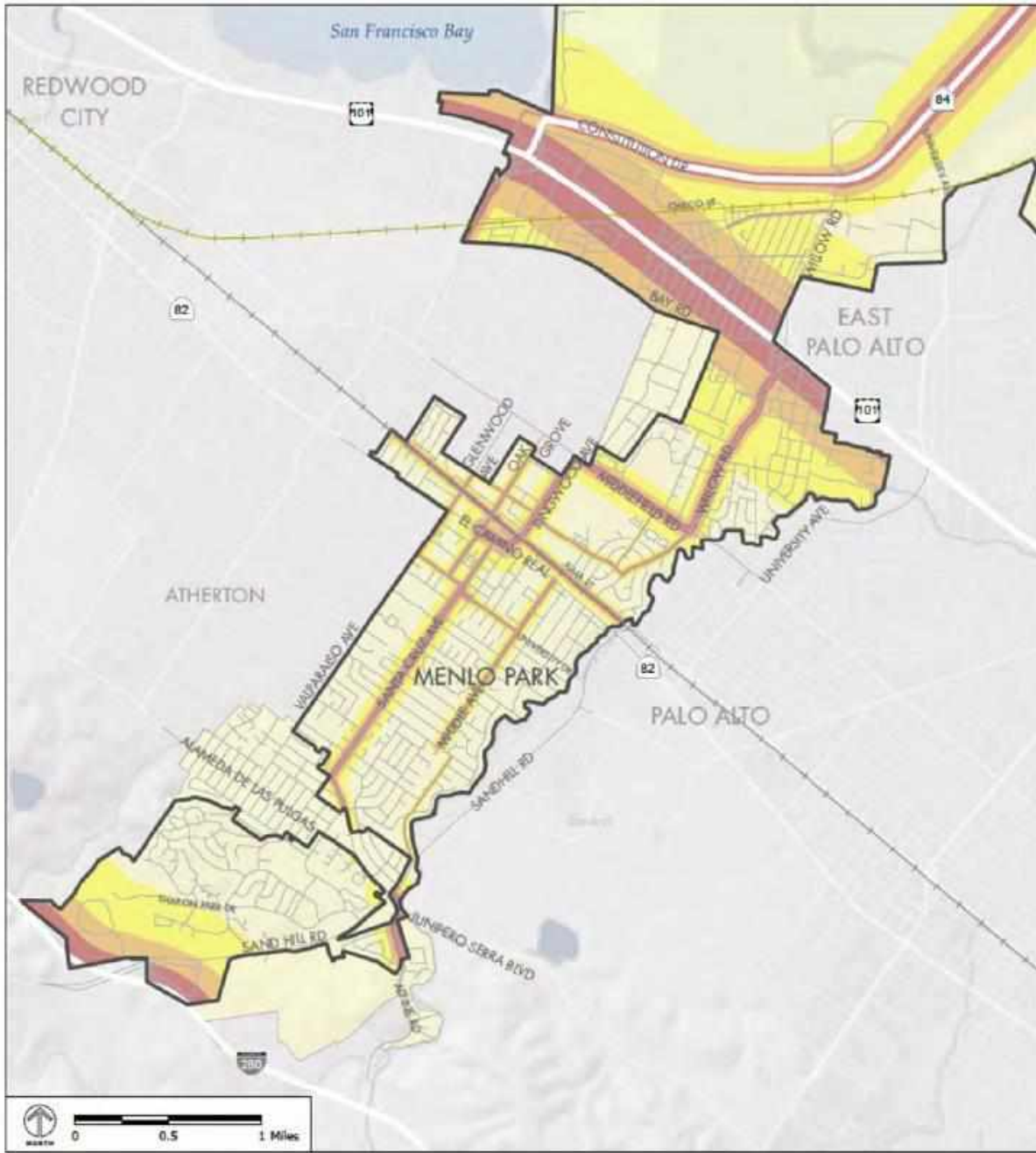
*City of Menlo Park General Plan.* The Noise Element of the City of Menlo Park General Plan provides the basis for code enforcement and other regulations, including implementation of the City's Noise Ordinance, to control nuisance noise. The 2035 Noise Contours for the City of Menlo Park was included in the General Plan and is shown below. The following goals, policies, and implementing programs established in the Noise Element would be applicable to the proposed project:

#### **Goal N1: Achieve Acceptable Noise Levels.**

Excessive noise is a concern for many residents of Menlo Park. These concerns can be managed with proper mitigation or through the implementation of the City's Noise Ordinance. The City of Menlo Park recognizes the issue of noise and has standards to protect the peace, health, and safety of residents and the community from unreasonable noise from any and all sources in the community and to strive to locate uses compatible to the area to minimize escalation of noise from mobile and stationary sources.

**POLICY N1.1: Compliance with Noise Standards:** Consider the compatibility of proposed land uses with the noise environment when preparing or revising community and/or specific plans. Require new projects to comply with noise standards of local, regional, and building code regulations, including but not limited to the City's Municipal Code, Title 24 of the California Code of Regulations, and subdivision and zoning codes.





Source: City of Menlo Park; The Planning Center | DC&E, 2012; ESRI 2010; FHA 2002.

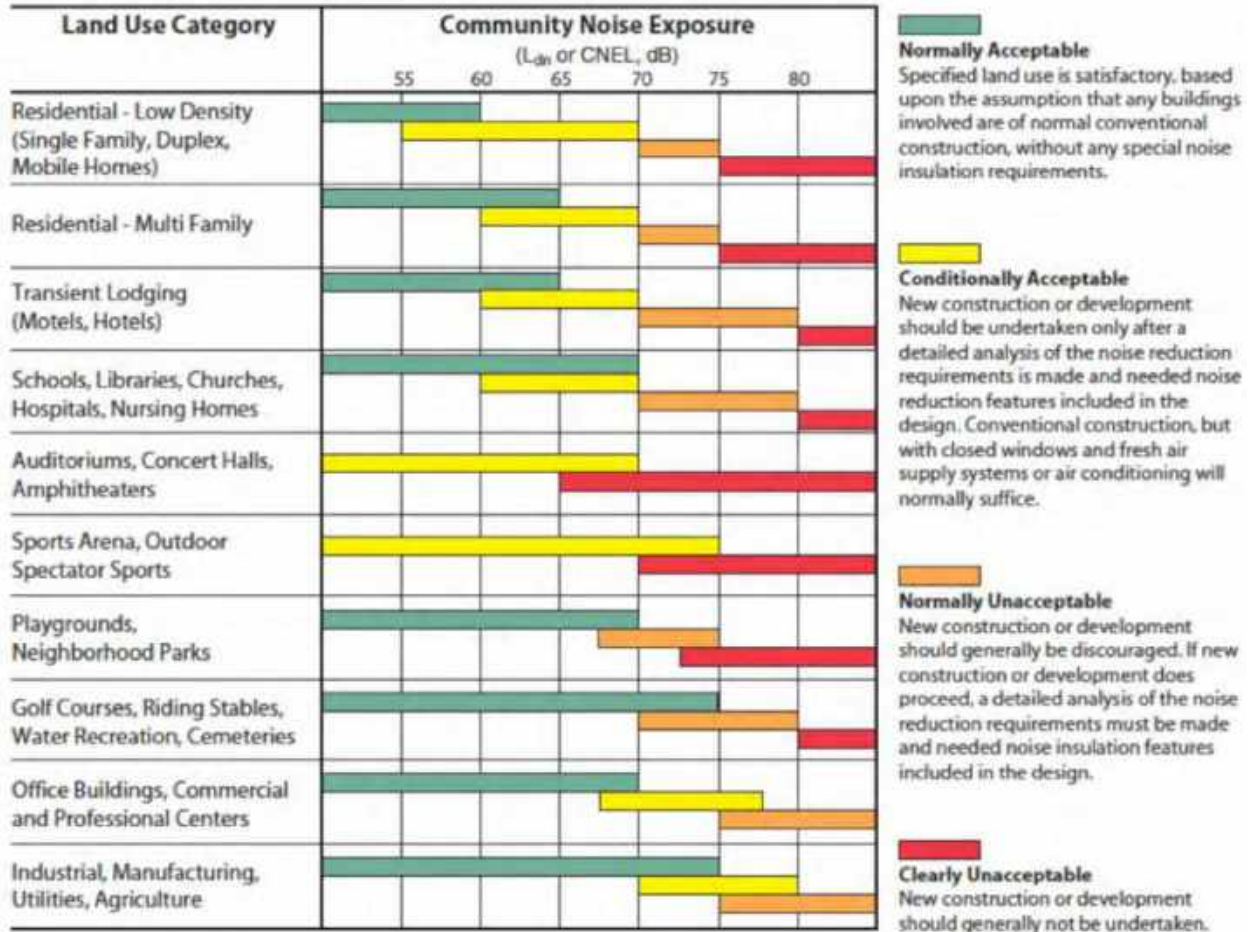


**2035 Noise Contours**

Source: City of Menlo Park Open Space, Conservation, Noise and Safety Elements, adopted May 21, 2013.

**POLICY N1.2: Land Use Compatibility Noise Standards:** Protect people in new development from excessive noise by applying the City’s Land Use Compatibility Noise Standards for New Development to the siting and required mitigation for new uses in existing noise environments.

**Land Use Compatibility Noise Standards for New Development**



**POLICY N1.3 Exterior and Interior Noise Standards for Residential Use Areas:** Strive to achieve acceptable interior noise levels and exterior noise levels for backyards and/or common usable outdoor areas in new residential development, and reduce outdoor noise levels in existing residential areas where economically and aesthetically feasible.

**POLICY N1.4: Noise-Sensitive Uses:** Protect existing residential neighborhoods and noise sensitive uses from unacceptable noise levels and vibration impacts. Noise-sensitive uses include, but are not limited to, hospitals, schools, religious facilities, convalescent homes and businesses with highly sensitive equipment. Discourage the siting of noise-sensitive uses in areas in excess of 65 dBA CNEL without appropriate mitigation and locate noise-sensitive uses away from noise sources unless mitigation measures are included in development plans.

**POLICY N1.5: Planning and Design of New Development to Reduce Noise Impacts:** Design residential developments to minimize the transportation-related noise impacts to adjacent residential areas and encourage new development to be site planned and architecturally designed to minimize noise impacts on noise-sensitive spaces. Proper site planning can be effective in reducing noise impacts.

**POLICY N1.6: Noise Reduction Measures:** Encourage the use of construction methods, state-of-the-art noise abating materials and technology and creative site design including, but not limited to, open space, earthen berms, parking, accessory buildings, and landscaping to buffer new and existing development from noise and to reduce potential conflicts between ambient noise levels and noise-sensitive land uses. Use sound walls only when other methods are not practical or when recommended by an acoustical expert.

**POLICY N1.8: Potential Annoying or Harmful Noise:** Preclude the generation of annoying or harmful noise on stationary noise sources, such as construction and property maintenance activity and mechanical equipment.

**POLICY N1.9: Transportation Related Noise Attenuation:** Strive to minimize traffic noise through land use policies, traffic-calming methods to reduce traffic speed, law enforcement and street improvements, and encourage other agencies to reduce noise levels generated by roadways, railways, rapid transit, and other facilities.

**POLICY N1.10: Nuisance Noise:** Minimize impacts from noise levels that exceed community sound levels through enforcement of the City's Noise Ordinance. Control unnecessary, excessive and annoying noises within the City where not preempted by Federal and State control through implementation and updating the Noise Ordinance.

**IMPLEMENTING PROGRAM N1.A: Require Acoustical Studies.** Require acoustical studies for all new multi-family residential projects within the projected  $L_{dn}$  60 dB noise contours so that noise mitigation measures can be incorporated into project design and site planning.

**IMPLEMENTING PROGRAM N1.D: Minimize Construction Activity Noise.** Minimize the exposure of nearby properties to excessive noise levels from construction-related activity through CEQA review, conditions of approval and enforcement of the City's Noise Ordinance.

**IMPLEMENTING PROGRAM N1.J: Evaluate Noise Related Impacts of City Actions as Appropriate.** Analyze in detail the potential noise impacts of any actions that the City may take or act upon which could significantly alter noise level in the community.

*City of Menlo Park Municipal Code.* Chapter 8.06 of the City's Municipal Code provides provisions to protect the peace, health and safety of the City's citizens from unreasonable noises from all sources including, but not limited to, those specified in the chapter. The following sections of the Municipal Code are relevant for this project:

### Section 8.06.030 Noise Limitations.

- a. Except as otherwise permitted in this chapter, any source of sound in excess of the sound level limits set forth in Section 8.06.030 shall constitute a noise disturbance. For purposes of determining sound levels from any source of sound, sound level measurements shall be made at a point on the receiving property nearest where the sound source at issue generates the highest sound level. Sound level measurements shall be made with a precision sound level meter (Type 1 or 2) set to A-weighting, and "fast" response for fluctuating sound. Slow or fast response may be used for continual sources. For repetitive, impulsive sound, the one (1) second rms maximum level ( $L_{max}$ ) shall be used. For continuous sound, use the average level or  $L_{eq}$ . In multi-family residential structures, the microphone shall be placed no closer than three and one-half (3 1/2) feet from the wall through which the source of sound at issue is transmitting. The microphone shall also be placed five (5) feet above the floor regardless of whether the source of sound at issue transmits through the floor, ceiling or wall.
  - 1) For all sources of sound measured from any residential property:
    - A. "Nighttime" hours – fifty (50) dBA,
    - B. "Daytime" hours – sixty (60) dBA;
  - 2) For all sources of sound within a multifamily residential structure transmitting through a common interior partition (wall, floor or ceiling) from one (1) dwelling unit to another:
    - A. "Nighttime" hours – thirty-five (35) dBA,
    - B. "Daytime" hours – forty-five (45) dBA;
  - 3) Corrections for character of sound: In the event the alleged offensive noise contains a steady, audible tone, such as a whine, screech, beating, pulsating, throbbing or hum the standards set forth in Section 8.06.030(a)(1) and (2) shall be reduced by five (5) dB.
- b. Any and all excessively annoying, loud or unusual noises or vibrations such as offend the peace and quiet of persons of ordinary sensibilities and which interfere with the comfortable enjoyment of life or property and affect at the same time an entire neighborhood or any considerable number of persons shall be considered a noise disturbance.
- c. It shall be unlawful to create, permit, allow or maintain a noise disturbance in Menlo Park. (Ord. 892 § 2 (part), 1999).

**Section 8.06.040 Exceptions.** The following are exceptions to the noise limitations set forth in Section 8.06.030. These activities may occur at other times provided they meet the noise levels set forth in Section 8.06.030.

- a. Construction Activities.

- 1) Construction activities between the hours of eight (8) a.m. and six (6) p.m. Monday through Friday,
- 2) Residents/property owners personally undertaking construction activities to maintain or improve their property on Saturdays, Sundays or holidays between the hours of nine (9) a.m. and five (5) p.m.,
- 3) A sign, containing the permitted hours of construction activities exceeding the noise limits set forth in Section 8.06.030, shall be posted at all entrances to a construction site upon the commencement of construction, for the purpose of informing contractors and subcontractors and all other persons at the construction site of the basic requirements of this chapter. The sign shall be at least five (5) feet above ground level and shall consist of a white background with black letters,
- 4) Notwithstanding any other provision set forth above, all powered equipment shall comply with the limits set forth in Section 8.06.040(b);

b. Powered Equipment.

- 1) Powered equipment used on a temporary, occasional or infrequent basis operated between the hours of eight (8) a.m. and six (6) p.m. Monday through Friday. No piece of equipment shall generate noise in excess of eighty-five (85) dBA at fifty (50) feet,
- 2) Residents/property owners personally using powered equipment to maintain their property and/or residence on Saturdays, Sundays or holidays between the hours of nine (9) a.m. and five (5) p.m. No piece of equipment shall generate noise in excess of eighty-five (85) dBA at fifty (50) feet.

**Section 8.06.050 Exemptions.** The following noise disturbances shall be exempt from the noise limitations set forth in Section 8.06.030:

a. **Sound Generated by Motor Vehicles.** Sound generated by motor vehicles, trucks and buses operated on streets and highways, aircraft, trains, and other public transport.

- 1) This exemption shall not apply to the operation of any vehicle including any equipment attached to any vehicle (such as attached refrigeration and/or heating units or any attached auxiliary equipment) for a period in excess of ten (10) minutes in any hour while the vehicle is stationary, for reasons other than traffic congestion.
- 2) This exemption shall not apply to vehicles equipped with sound amplifiers which are not exempt. No person shall operate or drive any vehicle or cause any vehicle to be operated or driven, or otherwise used, on any public street, which vehicle is equipped with a sound amplifying device or other machine or device for the production or reproduction of sound, which causes sound to carry onto private property or causes

sound to be heard by others using the public streets or thoroughfares which exceeds the noise levels established in Section 8.06.030;

- b. **Emergencies.** Emergency repairs that deal with health or safety risk and emergency generators or powered equipment used during a power outage or other emergency;
- c. **Emergency Warning Devices.** Emergency warning devices such as fire alarms, burglar alarms, warning devices on emergency vehicles and train horns. This exemption shall not apply to the sounding of any burglar or fire alarm or any motor vehicle burglar alarm, except for emergency purposes, unless such alarm is terminated within ten (10) minutes of activation and no more than two (2) false activations within a four (4) hour period;
- d. **City and State Projects.** City and state construction work performed by the city and/or the state, their respective agents or contractors, for city and/or state maintenance, repair or construction projects which cannot be performed from seven (7) a.m. to six (6) p.m. Monday through Friday;
- e. **Special Events.** Any event or use for which a special event permit has been issued under Chapter [8.60](#) that specifically sets forth applicable noise levels;
- f. **Use Permits.** Any use for which a use permit has been issued by the city that specifically allows noise levels to be exceeded.
- g. **Athletic Fields/Playgrounds/Parks/Public Tennis Courts/Public Recreation Facilities.** From seven (7) a.m. to ten (10) p.m. any organized athletic events or activities occurring on athletic fields, playgrounds, parks, tennis courts or other public recreation facilities owned or operated by a school district, the city or the county; provided, no amplified music or sound system is utilized, unless a special events permit under Chapter [8.60](#) or a parks permit under Chapter [8.28](#) has been issued which sets forth applicable noise levels.

## Existing Noise Environment

Figure 1 shows the project site area on an aerial image of the site vicinity. As shown in this figure, the project site is surrounded by office uses to the north and south, a commercial use to the east, and a multi-family apartment complex to the west.

A noise monitoring survey consisting of two long-term (LT-1 and LT-2) and two short-term (ST-1, and ST-2) noise measurements was made at the site between Tuesday, October 24, 2023, and Friday, October 27, 2023. The existing noise environment at the site results primarily from vehicular traffic along Haven Avenue and traffic on U.S. Highway 101.

Long-term noise measurement LT-1 was made at the southwest corner of the site about 55 feet from the centerline of Haven Avenue. This measurement quantified the existing noise environment along the south portion of the project site along Haven Avenue. Hourly average noise levels at LT-1 typically ranged from 59 to 66 dBA  $L_{eq}$  during daytime hours (7:00 a.m. and 10:00 p.m.) and from 53 to 66 dBA  $L_{eq}$  during nighttime hours (10:00 p.m. and 7:00 a.m.). The Community Noise Equivalent Level (CNEL) ranged from 66 to 68 dBA. The daily trend in noise levels is shown in Figure 2.

Long-term noise measurement LT-2 was made at the northeast corner of the project site about 20 feet from the centerline of Haven Avenue. This measurement quantified the existing noise environment along the east portion of the project site along Haven Avenue. Hourly average noise levels at LT-2 typically ranged from 63 to 71 dBA  $L_{eq}$  during daytime hours and from 53 to 68 dBA  $L_{eq}$  during nighttime hours. The CNEL ranged from 70 to 73 dBA. The daily trend in noise levels is shown in Figure 3.

Table 4 summarizes the results of the short-term measurements.

**TABLE 4 Summary of Short-Term Noise Measurement Data (dBA)**

Noise Measurement Location	$L_{max}$	$L_{(1)}$	$L_{(10)}$	$L_{(50)}$	$L_{(90)}$	$L_{eq}$
ST-1: Southeast corner of project site (10/24/2023, 12:30 p.m. - 12:40 p.m.)	72	71	66	61	57	63
ST-2: Northwest corner of project site (10/24/2023, 12:30 p.m. - 12:40 p.m.)	61	60	55	52	51	53



**FIGURE 1** Aerial Image of Noise Measurement Locations



Source: Google Earth 2023



**FIGURE 2 Daily Trends in Noise Levels at LT-1**

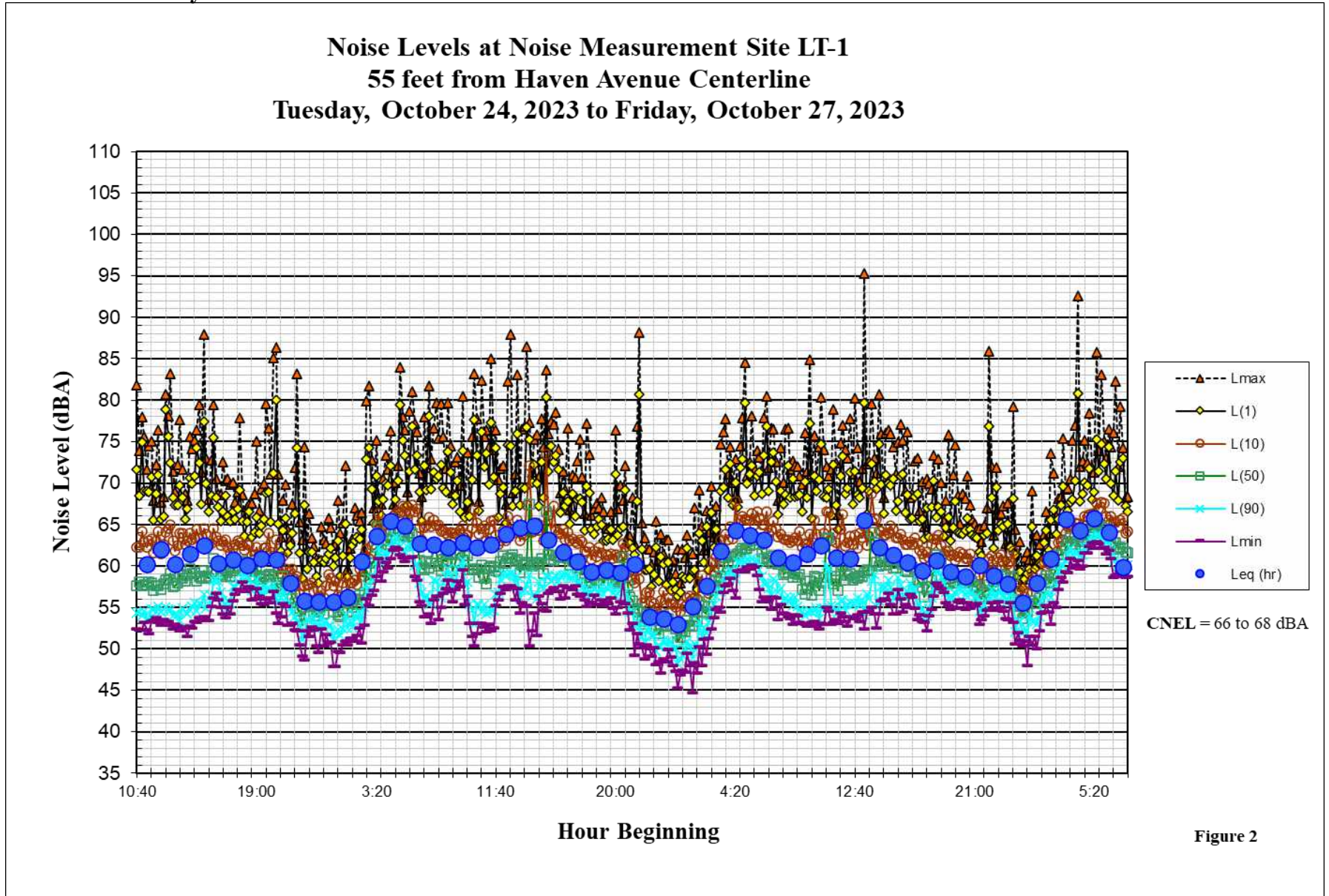
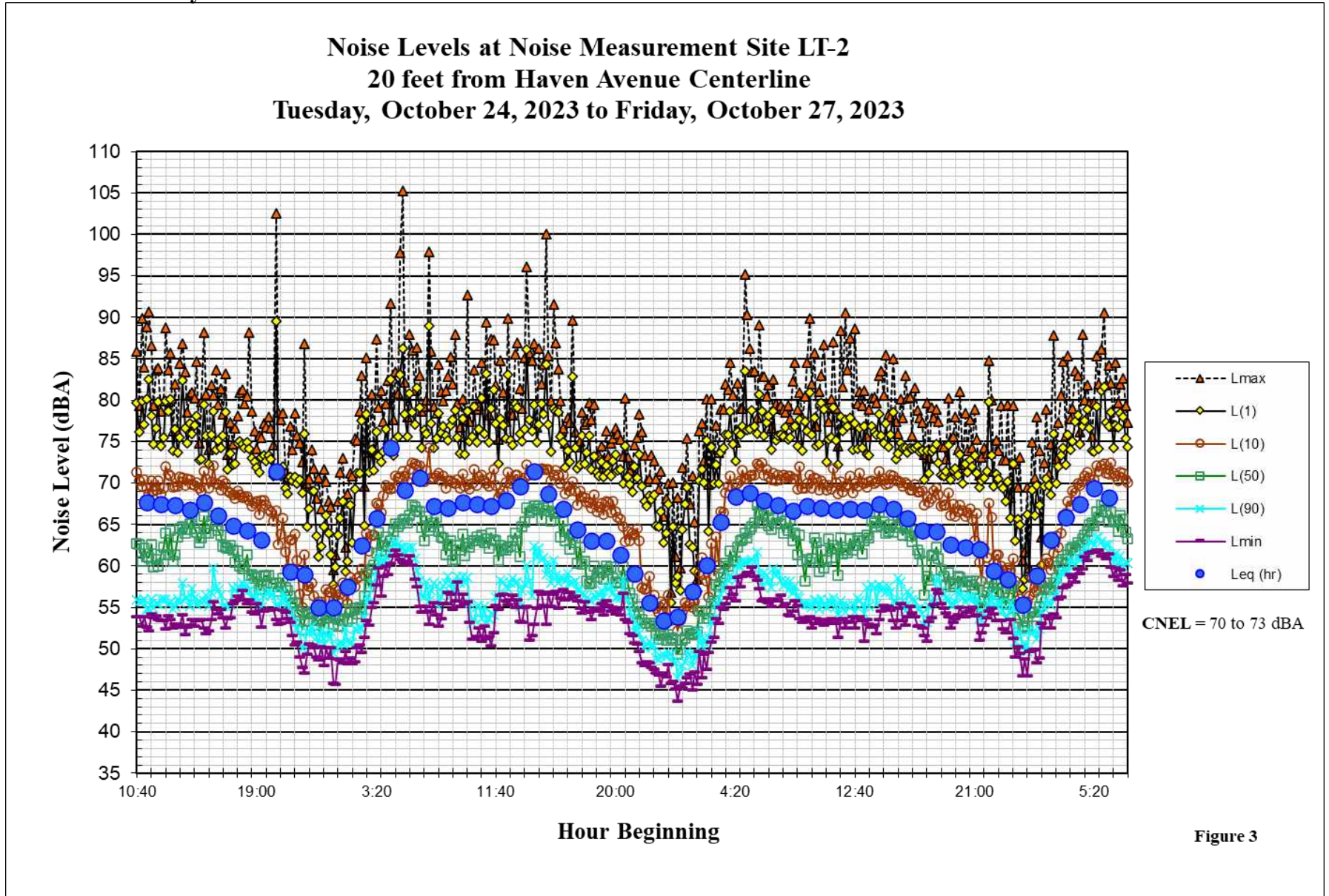


FIGURE 3 Daily Trends in Noise Levels at LT-2



## PLAN CONSISTENCY ANALYSIS

### Noise and Land Use Compatibility Thresholds

The Land Use Compatibility Noise Standards for New Development provided in the City’s General Plan indicate the following thresholds:

- The City’s “normally acceptable” exterior noise level standard is 65 dBA CNEL or less for the proposed multi-family residential land use. Up to 70 dBA CNEL is a conditionally acceptable noise level.
- The City’s acceptable interior noise level standard is 45 dBA CNEL or less for the proposed multi-family residential land use.

The existing measured noise conditions at the site indicate noise levels of up to 73 dBA CNEL at the northeast corner of the site (LT-2) and up to 68 dBA CNEL at the southwest corner of the site (LT-1).

The future noise environment at the project site would continue to result from transportation-related noise sources including traffic along Haven Avenue and U.S. Highway 101. The traffic study conducted for the project provides existing traffic volumes and projections of traffic volumes near the project site for the year 2040, both with and without the project's construction. Comparison between the existing traffic volumes and the 2040 cumulative traffic volumes with the project shows that there would be a 3 dBA CNEL increase in the noise environment around the project site. This 3 dBA CNEL increase was applied across the project site to represent worst-case future noise conditions.

#### *Future Exterior Noise Environment*

The site plan indicates three common outdoor spaces for project residents: a third-floor courtyard, fifth-floor deck, and a rooftop deck. The third-floor courtyard would include outdoor seating areas and possibly a swimming pool . This courtyard is located along the eastern façade of the project building. Private outdoor decks are located on floors three to eight along the south, west and north facades. Projected future exterior noise levels at the common outdoor areas and private outdoor decks are summarized in Table 5.

**TABLE 5 Future Exterior Noise Levels**

<b>Outdoor Use Area</b>	<b>Future Exterior Noise Level (dBA CNEL)</b>
Level 3 courtyard with swimming pool	66 to 69
Level 5 outdoor roof deck	69 to 72
Level 8 outdoor roof deck	61 to 64
Private decks (Levels 3 to 8)	67 to 74

As seen in Table 5, future noise levels at the common and private outdoor use areas are expected to exceed the City’s “normally acceptable” noise threshold of 65 dBA CNEL. It is recommended that the level 5 roof deck and private deck outdoor use areas be fitted with perimeter noise barriers



such as Plexiglass panels or laminated glass to reduce noise levels to either a "conditionally acceptable" (70 dBA CNEL) or a "normally acceptable" level (65 dBA CNEL). The noise barriers shall comply with the City of Menlo Park's bird-safe guidelines.

### *Future Interior Noise Environment*

Standard residential construction provides approximately 15 dBA of exterior-to-interior noise reduction, assuming the windows are partially open for ventilation. Standard construction with the windows closed provides approximately 20 to 25 dBA of noise reduction in interior spaces. Where exterior noise levels range from 60 to 65 dBA CNEL, the inclusion of adequate forced-air mechanical ventilation is often the method selected to reduce interior noise levels to acceptable levels by closing the windows to control noise. Where noise levels exceed 65 dBA CNEL, forced-air mechanical ventilation systems and sound-rated construction methods are normally required. Such methods or materials may include a combination of smaller window and door sizes as a percentage of the total building façade facing the noise source, sound-rated windows and doors, sound rated exterior wall assemblies, and mechanical ventilation so windows may be kept closed at the occupant's discretion.

Residential units located along the south façade of the proposed building would be subjected to an exterior noise level of about 74 dBA CNEL. These units would need forced-air mechanical ventilation systems and sound rated windows to bring noise levels to an acceptable level indoors to meet the City's 45 dBA CNEL threshold. Preliminary calculations indicate that windows and doors of units along the south façade of the proposed building would need to be rated at a minimum Sound Transmission Class (STC) of 35 to meet the City's interior noise threshold.

Units along the eastern façade would be subjected to an exterior noise level of about 71 dBA CNEL. Windows and doors of units along the east façade of the proposed building would need to be rated at a minimum of STC 30 to meet the City's interior noise threshold.

Units along the north and western façade of the proposed building would be subjected to an exterior noise level of about 66 dBA CNEL. Standard construction (STC 26) would be sufficient to reduce interior noise levels with closed windows.

A project specific acoustical analysis shall be prepared during the design phase of the project that would provide the exact STC ratings needed for walls, windows, and doors of the project buildings. These recommendations would ensure that the future interior noise within the buildings is maintained at or below 45 dBA CNEL.

### *Conditions of Approval*

**Exterior Noise Standard.** The project requires the installation of noise barriers such as Plexiglass or laminated glass panels to shield common outdoor spaces such as the third and fifth floor decks from traffic noise to satisfy a "conditionally acceptable" (70 dBA CNEL) level.

**Interior Noise Standard.** The project applicant shall prepare final design plans that incorporate building design and acoustical treatments as suggested above to ensure compliance with State

Building Codes and City noise standards. A project-specific acoustical analysis shall be prepared prior to the issuance of building permits to ensure that the design incorporates controls to reduce interior average noise levels to 45 dBA CNEL.

## **NOISE IMPACTS AND MITIGATION MEASURES**

This section describes the significance criteria used to evaluate project impacts under CEQA, provides a discussion of each project impact, and presents mitigation measures, where necessary, to reduce project impacts to less-than-significant levels.

### **Significance Criteria**

The following criteria were used to evaluate the significance of environmental noise resulting from the project:

- (a) Generation of a substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies;
- (b) Generation of excessive groundborne vibration or groundborne noise levels;
- (c) For a project located within the vicinity of a private airstrip or an airport land use plan, or where such a plan has not been adopted, within two miles of a public airport or public use airport, if the project would expose people residing or working in the project area to excessive noise levels.

**Impact 1a Temporary Construction Noise.** Existing noise-sensitive multi-family residential land use located west of the project site would be exposed to a temporary increase in ambient noise levels. Implementation of previously adopted generally applicable mitigation measures would reduce this potentially significant temporary noise increase to a **less-than-significant** level.

The proposed project would demolish the existing 10,361-square foot commercial building and redevelop the project site with an eight-story (approximately 93 feet tall), 112-unit residential apartment building. Construction is expected to begin October 2024 and be completed by September 2026 (approximate 23-month period). Construction phases would include demolition, site preparation, grading, trenching, building construction, architectural coating, and paving. During each phase of construction, there would be a different mix of equipment operating, and noise levels would vary by phase and vary within phases, based on the amount of equipment in operation and the location at which the equipment is operating.

Noise impacts resulting from construction depend upon the noise generated by various pieces of construction equipment, the timing and duration of noise-generating activities, and the distance between construction noise sources and noise-sensitive areas. Construction noise impacts primarily result when construction activities occur during noise-sensitive times of the day (e.g.,

early morning, evening, or nighttime hours), the construction occurs in areas immediately adjoining noise-sensitive land uses, or when construction lasts over extended periods of time.

In addition to assessing construction noise relative to the noise standards of the Menlo Park Municipal Code, as described above, this analysis also identifies an increase of 10 dBA CNEL or more over existing ambient noise levels at sensitive receptor locations as a substantial temporary noise increase warranting the implementation of construction noise control measures, consistent with the analysis of the Subsequent EIR to the City's 2016 General Plan EIR, which was prepared in connection with the City's recent Housing Element Update (November 2022).

Construction activities generate considerable amounts of noise, especially during earth-moving activities when heavy equipment is used. The hauling of excavated materials and construction materials would generate truck trips on local roadways, as well. For the proposed project, pile driving, which generates excessive noise levels, is not expected. The typical range of maximum instantaneous noise levels for the proposed project would be 70 to 90 dBA  $L_{max}$  at a distance of 50 feet (see Table 6) from the equipment. Table 7 shows the hourly average noise level ranges, by construction phase, typical for various types of projects. Hourly average noise levels generated by construction are about 72 to 88 dBA  $L_{eq}$  for residential mixed-use buildings, measured at a distance of 50 feet from the center of a busy construction site. Construction-generated noise levels drop off at a rate of about 6 dBA per doubling of the distance between the source and receptor. Shielding by buildings or terrain often results in lower construction noise levels at distant receptors.

Equipment expected to be used in each construction stage are summarized in Table 8, along with the quantity of each type of equipment and the average noise level (CNEL) at 50 feet, assuming the operation of the two loudest pieces of construction equipment for each construction phase for the construction hours of 8:00 a.m. to 6:00 p.m. Federal Highway Administration's (FHWA's) Roadway Construction Noise Model (RCNM) was used to calculate the hourly average noise levels for each phase of construction, assuming the two loudest pieces of equipment would operate simultaneously, as recommended by the FTA for construction noise evaluations. This construction noise model includes representative sound levels for the most common types of construction equipment and the approximate usage factors of such equipment that were developed based on an extensive database of information gathered during the construction of the Central Artery/Tunnel Project in Boston, Massachusetts (CA/T Project or "Big Dig"). The usage factors represent the percentage of time that the equipment would be operating at full power.

A significant noise impact would be identified if construction required for the development of the proposed project generates a substantial temporary noise level increase 10 dBA CNEL or more over existing ambient noise levels at sensitive receptor locations. The construction equipment and phasing information in Table 8 was used to calculate construction levels on an average basis throughout the approximate 23-month construction period (average CNEL). The estimated average noise levels (average CNEL) at the nearest property lines projected from the center of the construction activity are given in Table 9.

**TABLE 6 Construction Equipment 50-Foot Noise Emission Limits**

<b>Equipment Category</b>	<b>L<sub>max</sub> Level (dBA)<sup>1,2</sup></b>	<b>Impact/Continuous</b>
Arc Welder	73	Continuous
Auger Drill Rig	85	Continuous
Backhoe	80	Continuous
Bar Bender	80	Continuous
Boring Jack Power Unit	80	Continuous
Chain Saw	85	Continuous
Compressor <sup>3</sup>	70	Continuous
Compressor (other)	80	Continuous
Concrete Mixer	85	Continuous
Concrete Pump	82	Continuous
Concrete Saw	90	Continuous
Concrete Vibrator	80	Continuous
Crane	85	Continuous
Dozer	85	Continuous
Excavator	85	Continuous
Front End Loader	80	Continuous
Generator	82	Continuous
Generator (25 KVA or less)	70	Continuous
Gradall	85	Continuous
Grader	85	Continuous
Grinder Saw	85	Continuous
Horizontal Boring Hydro Jack	80	Continuous
Hydra Break Ram	90	Impact
Impact Pile Driver	105	Impact
Insitu Soil Sampling Rig	84	Continuous
Jackhammer	85	Impact
Mounted Impact Hammer (hoe ram)	90	Impact
Paver	85	Continuous
Pneumatic Tools	85	Continuous
Pumps	77	Continuous
Rock Drill	85	Continuous
Scraper	85	Continuous
Slurry Trenching Machine	82	Continuous
Soil Mix Drill Rig	80	Continuous
Street Sweeper	80	Continuous
Tractor	84	Continuous
Truck (dump, delivery)	84	Continuous
Vacuum Excavator Truck (vac-truck)	85	Continuous
Vibratory Compactor	80	Continuous
Vibratory Pile Driver	95	Continuous
All other equipment with engines larger than 5 HP	85	Continuous

## Notes:

<sup>1</sup> Measured at 50 feet from the construction equipment, with a “slow” (1 sec.) time constant.

<sup>2</sup> Noise limits apply to total noise emitted from equipment and associated components operating at full power while engaged in its intended operation.

<sup>3</sup> Portable Air Compressor rated at 75 cfm or greater and that operates at greater than 50 psi.

**TABLE 7 Typical Ranges of Construction Noise Levels at 50 Feet, L<sub>eq</sub> (dBA)**

	Domestic Housing		Office Building, Hotel, Hospital, School, Public Works		Industrial Parking Garage, Religious Amusement & Recreations, Store, Service Station		Public Works Roads & Highways, Sewers, and Trenches	
	I	II	I	II	I	II	I	II
	Ground Clearing	83	83	84	84	84	83	84
Excavation	88	75	89	79	89	71	88	78
Foundations	81	81	78	78	77	77	88	88
Erection	81	65	87	75	84	72	79	78
Finishing	88	72	89	75	89	74	84	84

I - All pertinent equipment present at site.  
 II - Minimum required equipment present at site.

Source: U.S.E.P.A., Legal Compilation on Noise, Vol. 1, p. 2-104, 1973.

**TABLE 8 Estimated Construction Noise Levels for the Proposed Project at 50 feet**

Phase of Construction	Total Workdays	Construction Equipment (Quantity)	Estimated Average Construction Noise Level at 50 feet
Demolition	14 days	Concrete/Industrial Saw (3) <sup>a</sup> Excavator (1) Tractor/Loader/Backhoe (1) <sup>a</sup>	82 dBA CNEL
Site Preparation	34 days	Grader (1) <sup>a</sup> Tractor/Loader/Backhoe (1) <sup>a</sup>	81 dBA CNEL
Grading/ Excavation	15 days	Excavator (1) Grader (1) <sup>a</sup> Tractor/Loader/Backhoe (1) <sup>a</sup>	81 dBA CNEL
Trenching/ Foundation	20 days	Excavator (1) <sup>a</sup> Forklift (1) <sup>a</sup>	74 dBA CNEL
Building – Exterior	200 days	Crane (1) <sup>a</sup> Forklift (1) Generator Set (1) <sup>a</sup> Welders (1)	76 dBA CNEL
Building – Interior/ Architectural Coating	215 days	Air Compressor (1) <sup>a</sup> Forklift (1) <sup>a</sup>	72 dBA CNEL
Paving	15 days	Cement and Mortar Mixer (1) <sup>a</sup> Roller (1) Tractor/Loader/Backhoe (1) <sup>a</sup>	78 dBA CNEL
<b>Average Construction Noise</b>			<b>75 dBA CNEL</b>

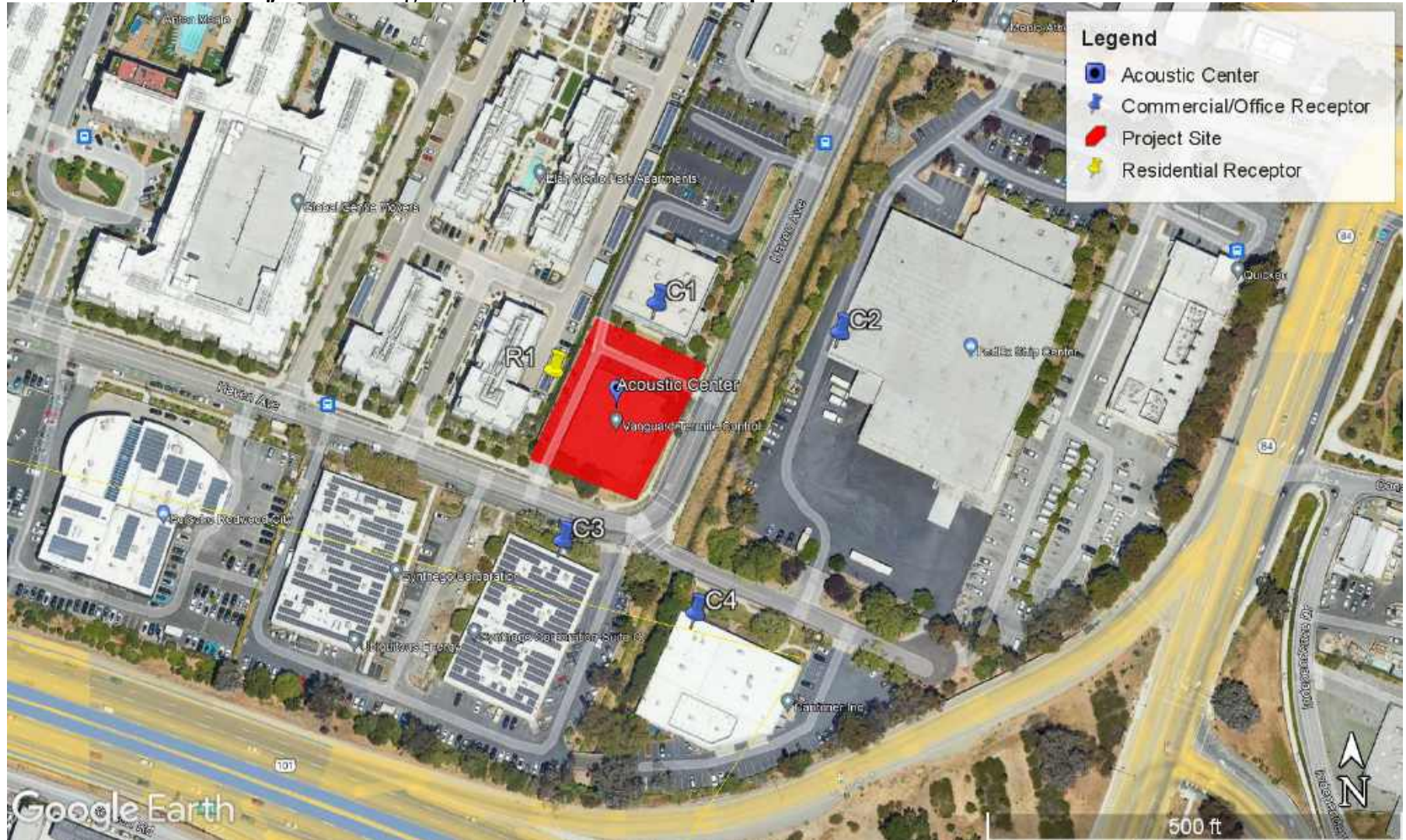
<sup>a</sup> Denotes two loudest pieces of construction equipment per phase.



**TABLE 9 Estimated Average Construction Noise Levels for the Proposed Project at the Receiving Property Lines in the Vicinity**

<b>Calculated Average Noise Levels, dBA CNEL</b>				
<b>West Multi-Family Residential Building, R1 (75 ft)</b>	<b>North Office, C1 (85 ft)</b>	<b>East Commercial, C2 (175 ft)</b>	<b>South Office, C3 (180 ft)</b>	<b>Southeast Office, C4 (225 ft)</b>
71	70	64	64	62

**FIGURE 4 Aerial Project Site Image Showing Noise Sensitive Receptors in the Vicinity**



The existing ambient noise levels at ST-2, which represent the “quietest” off-site receptor locations, are about 53 dBA  $L_{eq}$ . To accurately estimate ambient noise levels in terms of CNEL, the measured  $L_{eq}$  values at different monitoring locations during the same time period, were compared. For instance, at 12:30 p.m., the ambient noise level at ST-2 was measured at 53 dBA  $L_{eq}$ , while at LT-2, it was 67 dBA  $L_{eq}$ . The 14 dBA difference between these measurements allows for the development of an adjustment to predict the CNEL at ST-2 based on the CNEL at LT-2. LT-2 has a CNEL of 70 to 73 dBA, which means that the CNEL at ST-2 would be estimated as 56 to 59 dBA. The same calculations, when repeated using LT-1 measurements, can be used to estimate the CNEL at ST-2 to be in the range of 59 to 61 dBA. The lower range of these ambient noise levels is used to conservatively estimate the potential impact from construction noise.

As shown in Table 9, noise levels from construction would range from 62 to 71 dBA CNEL, which is more than 10 dBA greater than the ambient noise levels. At the nearest residential receptor (R1), where estimated average construction noise would be 71 dBA CNEL, construction noise levels are about 12 to 15 dBA greater than the ambient conditions. Additionally, the construction noise levels are about 11 to 14 dBA greater than ambient conditions at the nearest office (C1), where estimated average construction noise would be 70 dBA CNEL. Therefore, temporary noise levels from construction of the proposed project are considered potentially significant at those locations (R1, C1) due to the increase above ambient noise. At other surrounding land uses (C2, C3, C4), construction noise levels would not exceed 10 dBA above ambient noise levels or the General Plan’s standard for acceptable noise levels at these receptors, and therefore, would not be considered a significant impact at those locations.

#### **Mitigation Measure NOI-1: Construction Noise Control.**

Project applicants shall minimize the exposure of nearby properties to excessive noise levels from construction-related activity through CEQA review, conditions of approval, and/or enforcement of the City’s Noise Ordinance. Prior to issuance of demolition, grading, and/or building permits for development projects, a note shall be provided on development plans indicating that during ongoing grading, demolition, and construction, the property owner/developer shall be responsible for requiring contractors to implement the following measures to limit construction-related noise:

- Demonstrate that any construction activities taking place outside daytime construction hours of 8:00 a.m. to 6:00 p.m. Monday through Friday shall comply with the 60 dBA  $L_{eq}$  limit during the hours of 7:00 a.m. to 8:00 a.m. and the 50 dBA  $L_{eq}$  limit during the hours of 6:00 a.m. to 7:00 a.m. In addition, the property owner/developer shall demonstrate that individual pieces of equipment proposed for use will not exceed the limit (85 dBA  $L_{eq}$  at 50 feet) for powered equipment noise and that combined construction noise will not result in a 10 dBA increase over the ambient noise level at nearby sensitive receptors. Activities that would produce noise above applicable daytime or nighttime limits shall be scheduled only during normal construction hours. If it is concluded that a particular piece of equipment will not meet the requirements of this mitigation measure, that equipment shall not be used outside the daytime construction hours.
- Verify construction activities are conducted at adequate distances or otherwise shielded with sound barriers, as determined through analysis, from noise-sensitive receptors when

working outside the daytime construction hours of 8:00 a.m. to 6:00 p.m. Monday through Friday and verify compliance with the Menlo Park Municipal Code through measurement.

- All internal combustion engines on construction equipment and trucks are fitted with properly maintained mufflers, air intake silencers, and/or engine shrouds that are no less effective than as originally equipped by the manufacturer.
- Stationary equipment such as generators and air compressors shall be located as far as feasible from nearby noise-sensitive uses.
- Stockpiling is located as far as feasible from nearby noise-sensitive receptors.
- Limit unnecessary engine idling to the extent feasible.
- Limit the use of public address systems.
- Construction traffic shall be limited to the haul routes established by the City of Menlo Park.
- Additional controls, as warranted, may include but are not limited to:
  - Upgraded construction equipment mufflers (e.g., improved mufflers, intake silencers, ducts, engine enclosures, acoustically attenuating shields, shrouds) on equipment and trucks used for Project construction.
  - Equipment staging plans (e.g., locating stationary equipment at adequate distances).
  - Limitations on equipment and truck idling.
  - Shielding sensitive receptors with sound barriers to comply with the Menlo Park Municipal Code

Pursuant to HEU SEIR Mitigation Measure NOI-1, the project would be required to implement the following additional project-specific measures to ensure the 10 dBA above ambient thresholds are not exceeded:

- Construct solid plywood fences around ground level construction sites adjacent to operational businesses, residences, or other noise-sensitive land uses. A temporary 8-foot noise barrier shall be constructed along the west and north property line of the project site to shield adjacent residential and office land uses from ground-level construction equipment and activities. The noise barrier shall be solid over the face and at the base of the barrier in order to provide a 5 dBA noise reduction. The noise barrier is required for the construction period prior to the Building Interior/Architectural Coating phase to meet the construction noise standards.
- Designate a “disturbance coordinator” who shall be responsible for responding to any complaints about construction noise. The disturbance coordinator shall determine the cause of the noise complaint (e.g., bad muffler, etc.) and shall require that reasonable measures be implemented to correct the problem. Conspicuously post a telephone number for the

disturbance coordinator at the construction site and include it in the notice sent to neighbors regarding the construction schedule.

With the implementation of the above measures and the City's Municipal Code requirements, the temporary construction noise impact would be reduced to a less-than-significant level.

**Impact 1b: Permanent Noise Level Increase/Exceed Applicable Standards.** The proposed project would not result in a substantial permanent noise level increase at receptors in the project vicinity. Operational noise levels generated by the proposed project would not exceed City's thresholds. This is a **less-than-significant** impact.

Typically, a significant permanent noise increase would occur if the project would increase noise levels at noise-sensitive receptors by 3 dBA CNEL or more where ambient noise levels equal or exceed the "normally acceptable" noise level standard. Where ambient noise levels are below the "normally acceptable" noise level standard, noise level increases of 5 dBA CNEL or more would be considered significant. The City's General Plan defines the "normally acceptable" outdoor noise level standard for the nearby multi-family residential land uses to be 65 dBA CNEL. Existing ambient levels, based on the measurements made in the project vicinity, exceed 65 dBA CNEL. Therefore, a significant impact would occur if traffic or operational noise due to the proposed project would permanently increase ambient levels by 3 dBA CNEL or more.

While the City's Noise Element does not include thresholds for residential or commercial buildings, the City's Municipal Code has noise limits of 60 dBA during "daytime" hours and 50 dBA during "nighttime" hours at receiving residential uses. There are no limits for noise at receiving commercial uses. Exceeding the above limits would not be considered a significant impact under CEQA; however, it is recommended that these limits be considered for design features in the proposed building.

#### *Project Traffic Increase*

The traffic study for the project includes existing and projected cumulative traffic volumes for 2040, both with and without the project. This project would generate 508 daily trips. Analysis of the net new project trips as per the project traffic study, shows a net of 218 new project trips compared to current conditions. This increase, set against the existing average daily traffic volume of approximately 7,595 vehicles, results in a noise level increase of less than 1 dBA CNEL due to project traffic. This is a less-than-significant impact.

#### *Mechanical Equipment*

Rooftop mechanical equipment typically included in similar projects are not shown in the site plan; however, some type of heating, ventilation and air conditioning (HVAC) equipment would be expected. These types of units typically cycle on and off continuously throughout a 24-hour period. This means that, at any given time, multiple units could be operating simultaneously in a relatively small vicinity of the rooftop. Typical heating pumps would generate noise ranging from 56 to 66 dBA at a distance of 3 feet. Assuming up to 10 heating pumps would run simultaneously at any given time, hourly average noise levels would range from 66 to 76 dBA  $L_{eq}$  at a distance of 3 feet.

Additionally, air handling units for buildings of this size typically generate noise levels up to 62 dBA at a distance of 20 feet. Assuming up to 10 air handling units would operate simultaneously at any given time, noise levels generated by the air handling units would be up to 72 dBA  $L_{eq}$  at 20 feet. When combined with the heating pumps, hourly average noise levels for the worst-case scenario would be up to 89 dBA  $L_{eq}$  at 3 feet.

The mechanical equipment located on the rooftops would be over 85 feet above the ground. All buildings in the immediate vicinity of the project site would be about 35 feet high or less. The elevation of the rooftop equipment would provide at least a 25 dBA reduction for all existing receptors. Table 10 below shows the estimated mechanical equipment noise propagated to the surrounding land uses that considers the effects of shielding provided by the elevated rooftops and the effects of distance from the closest sensitive residential and commercial receptors.

**TABLE 10 Estimated Operational Noise Levels for the Rooftop Equipment**

<b>Receptor</b>	<b>Distance from Rooftop Equipment</b>	<b>Maximum Hourly Noise (dBA <math>L_{eq}</math>)</b>	<b>Average Noise Level (dBA CNEL)</b>	<b>Noise Level Increase (dBA CNEL)</b>
North Office (3715 Haven Ave)	20 feet	48 <sup>a</sup>	55 <sup>a</sup>	0
West Residential (3645 Haven Ave)	30 feet	44 <sup>a</sup>	51 <sup>a</sup>	0

<sup>a</sup> A conservative 25 dBA reduction was applied to the noise levels due to the elevation of the rooftop equipment for existing receptors.

Based on the estimated noise levels in Table 10, mechanical equipment noise levels are not expected to exceed ambient conditions, or the City’s established 60 dBA daytime and 50 dBA nighttime Municipal Code noise standards at existing nearby land uses.

*Total Combined Project-Generated Noise*

The operational noise levels produced by the proposed project combined (i.e., traffic, mechanical equipment) would result in an increase of 1 dBA CNEL or less at all existing noise-sensitive receptors in the project vicinity. Therefore, the proposed project would not result in a substantial increase over ambient noise levels in the project vicinity.

**Mitigation Measure 1b: None Required.**

**Impact 2: Exposure to Excessive Groundborne Vibration.** Construction-related vibration levels would not exceed applicable vibration thresholds at nearby sensitive land uses. **This is a less-than-significant impact.**

The construction of the project may generate perceptible vibration when heavy equipment or impact tools (e.g., jackhammers, hoe rams) are used. Construction activities would include demolition, site preparation work, foundation work, and new building framing and finishing along



with paving. Pile driving equipment, which can cause excessive vibration, is not expected to be required for the proposed project.

The California Department of Transportation recommends a vibration limit of 0.5 in/sec PPV for buildings structurally sound and designed to modern engineering standards, which typically consist of buildings constructed since the 1990s. Buildings adjoining the site would fall into this category. Conservative vibration limits of 0.3 in/sec PPV have been used for buildings that are found to be structurally sound but where structural damage is a major concern (see Table 3 above for further explanation). No known historic buildings are located near the project site and, therefore, the lower vibration limits are not further discussed.

Table 11 summarizes the vibration levels at each of the surrounding buildings in the project vicinity. Vibration levels are highest close to the source and then attenuate with increasing distance at the rate  $\left(\frac{D_{ref}}{D}\right)^{1.1}$ , where  $D$  is the distance from the source in feet and  $D_{ref}$  is the reference distance of 25 feet. While construction noise levels increase based on the cumulative equipment in use simultaneously, construction vibration levels would be dependent on the location of individual pieces of equipment. That is, equipment scattered throughout the site would not generate a collective vibration level, but a vibratory roller, for instance, operating near the project site boundary would generate the worst-case vibration levels for the receptor sharing that property line. Further, construction vibration impacts are assessed based on the potential for damage to buildings on receiving land uses, not at receptors at the nearest property lines. Construction activities at the project site would not exceed the 0.5 in/sec PPV threshold.

**TABLE 11 Vibration Source Levels for Construction Equipment**

Equipment	PPV (in/sec) Estimated at Nearest Buildings Adjoining the Project Site	
	West Multi-Family Residence (30 ft)	North Office (15 ft)
Clam shovel drop	0.165	0.354
Hydromill (slurry wall)	in soil	0.007
	in rock	0.014
Vibratory roller	0.172	0.368
Hoe ram	0.073	0.156
Large bulldozer	0.073	0.156
Caisson drilling	0.073	0.156
Loaded trucks	0.062	0.133
Jackhammer	0.029	0.061
Small bulldozer	0.002	0.005

Source: Transit Noise and Vibration Impact Assessment Manual, Federal Transit Administration, Office of Planning and Environment, U.S. Department of Transportation, September 2018, as modified by Illingworth & Rodkin, Inc., December 2023.

A study completed by the US Bureau of Mines analyzed the effects of blast-induced vibration on buildings in USBM RI 8507.<sup>1</sup> The findings of this study have been applied to buildings affected by construction-generated vibrations.<sup>2</sup> As reported in USBM RI 8507<sup>3</sup> and reproduced by Dowding,<sup>4</sup> Figure 5 presents the damage probability, in terms of “threshold damage,” “minor damage,” and “major damage,” at varying vibration levels. Threshold damage, which is described as cosmetic damage in this report, would entail hairline cracking in plaster, the opening of old cracks, the loosening of paint or the dislodging of loose objects. Minor damage would include hairline cracking in masonry or the loosening of plaster, and major structural damage would include wide cracking or shifting of foundation or bearing walls.

As shown in Figure 5, maximum vibration levels of 0.368 in/sec PPV or lower would not result in any chance of cosmetic damage. No cosmetic, minor or major damage would be expected at the conventional buildings immediately adjoining the project site. At these locations, and in other surrounding areas where vibration would not be expected to cause cosmetic damage, vibration levels may still be perceptible. However, as with any type of construction, this would be anticipated and would not be considered significant, given the intermittent and short duration of the phases that have the highest potential of producing vibration (use of jackhammers and other high-power tools). By use of administrative controls, such as notifying neighbors of scheduled construction activities, the effects of perceptible vibration can be minimized. This is a less-than-significant impact.

**Mitigation Measure 2:       None Required.**

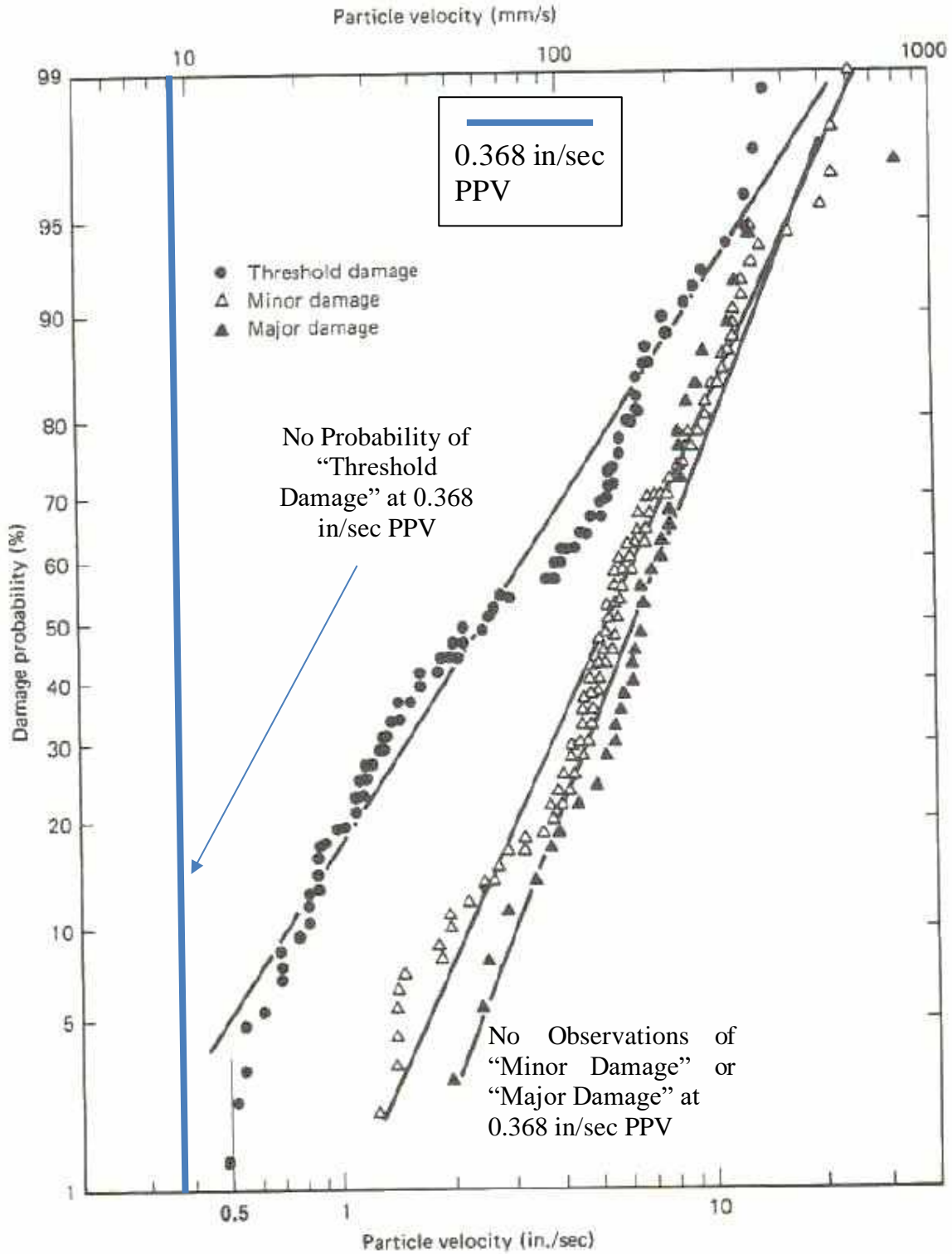
---

<sup>1</sup> Siskind, D.E., M.S. Stagg, J.W. Kopp, and C.H. Dowding, Structure Response and Damage Produced by Ground Vibration from Surface Mine Blasting, RI 8507, Bureau of Mines Report of Investigations, U.S. Department of the Interior Bureau of Mines, Washington, D.C., 1980.

<sup>2</sup> Dowding, C.H., Construction Vibrations, Prentice Hall, Upper Saddle River, 1996.



**FIGURE 5 Probability of Cracking and Fatigue from Repetitive Loading**



Source: Dowding, C.H., Construction Vibrations, Prentice Hall, Upper Saddle River, 1996, as modified by Illingworth & Rodkin, Inc., December 2023.

**Impact 3 Exposure of Residents or Workers to Excessive Noise Levels in the Vicinity of a Private Airstrip or an Airport Land Use Plan.** The project site would not be exposed to aircraft noise levels of 65 dBA CNEL or greater. **This is a less-than-significant impact.**

As per the City's General Plan Noise Element, Menlo Park is located approximately 6 miles to the northwest of Moffet Federal Airfield, 14 miles to the northwest of the San José International Airport, 15 miles to the southeast of San Francisco International Airport, and 18 miles to the south of Oakland International Airport. Menlo Park is also located in close proximity to two smaller airports; with portions of Menlo Park as near as 4 miles from the Palo Alto Airport and other areas of Menlo Park as near as approximately 4 miles from the San Carlos Airport. Additional small airports in the vicinity include the Hayward Executive Airport, approximately 11 miles away, and the Half Moon Bay airport, approximately 16 miles away. Although Menlo Park does receive some noise from aircraft using these facilities, Menlo Park does not fall within the airport land use planning areas, runway protection zones, or the 55 dBA CNEL noise contours of any of these airports.

Noise levels resulting from aircraft would be less than 65 dBA CNEL at the project site, resulting in a less-than-significant impact in terms of noise exposure from aircraft.

**Mitigation Measure 3: None Required.**

**Cumulative Impacts**

Cumulative noise impacts would include either cumulative traffic noise increases under future conditions or temporary construction noise from cumulative construction projects.

A significant cumulative traffic noise increase would occur if two criteria are met: 1) if the cumulative traffic noise level increase was 3 dBA CNEL or greater for future levels exceeding 60 dBA CNEL or was 5 dBA CNEL or greater for future levels at or below 60 dBA CNEL; and 2) if the project would make a "cumulatively considerable" contribution to the overall traffic noise increase. A "cumulatively considerable" contribution would be defined as an increase of 1 dBA CNEL or more attributable solely to the proposed project.

Future 2040 cumulative traffic volumes showed a 3 dBA CNEL increase from existing volumes along Haven Avenue. But, looking at projected traffic volumes solely from the project, the associated noise level increase is less than 1 dBA CNEL. The project would not result in a cumulatively considerable contribution to the overall noise increase. This would be a less-than-significant impact.

Cumulative noise impacts from temporary construction typically arise when multiple construction phases of different projects occur simultaneously within 1,000 feet of the proposed project site. If construction from different projects overlaps in this area, sensitive receptors may experience an additive effect, with noise levels increasing due to the combined operation of multiple pieces of construction equipment. This cumulative increase in noise levels from simultaneous overlap of construction phases is generally limited to within 500 feet of a proposed project site since noise

levels drop down by 6 dB each time the distance from the source is doubled. This report uses a conservative 1,000 feet distance from the proposed project site to assess cumulative impacts from construction to nearby common sensitive receptors.

Here, no other planned or proposed projects are located within 1,000 feet of the project site.<sup>3</sup> Therefore, there would not be any cumulative construction impacts.

---

<sup>3</sup> Source: City of Menlo Park Projects: <https://menlopark.gov/Government/Departments/Community-Development/Projects>



# KEYSER MARSTON ASSOCIATES

## **HOUSING NEEDS ASSESSMENT**

**3705 HAVEN AVENUE**

*Prepared for:*  
**City of Menlo Park**

*Prepared by:*  
**Keyser Marston Associates, Inc.**

**September 2024**

## TABLE OF CONTENTS

<b>1.0</b>	<b>EXECUTIVE SUMMARY</b>	<b>1</b>
1.1	Housing Availability	1
1.2	Net Impact on Housing Availability	2
1.3	Net Impact on Housing Availability by Income Category	3
1.4	Menlo Park Share of Net Impact on Housing Availability	6
1.5	Displacement Analysis	7
<b>2.0</b>	<b>INTRODUCTION</b>	<b>10</b>
2.1	Project Description	11
2.2	Income Definitions	11
2.3	Report Organization	12
2.4	Data Sources and Qualifications	13
<b>3.0</b>	<b>HOUSING UNITS ADDED BY THE PROJECT BY INCOME CATEGORY</b>	<b>14</b>
3.1	Below Market Rate Housing Units Required	14
3.2	Affordability Level of Market Rate Units	15
3.3	New Residential Units by Income Level	19
<b>4.0</b>	<b>CHANGE IN WORKER HOUSING NEEDS FROM REMOVAL OF EXISTING ON-SITE JOBS AND REPLACEMENT WITH NEW ON-SITE JOBS</b>	<b>20</b>
4.1	Methodology	20
4.2	Summary by Income Level	28
<b>5.0</b>	<b>HOUSING DEMAND of OFF-SITE WORKERS IN SERVICES TO NEW RESIDENTS</b>	<b>29</b>
5.1	Estimated Household Incomes of New Residents	29
5.2	The IMPLAN Model	31
5.3	Analysis of Housing Need by Income	36
5.4	Summary of Housing Need by Income, Off-site Workers	39
<b>6.0</b>	<b>NET IMPACT ON HOUSING AVAILABILITY</b>	<b>40</b>
6.1	Net Impact on Housing Availability Regionally	40
6.2	Menlo Park Share of Impact on Housing Supply and Housing Demand	42
6.3	Additional Discussion of Commute Share	45
<b>7.0</b>	<b>DISPLACEMENT ANALYSIS</b>	<b>47</b>
7.1	Displacement and Risk of Displacement in East Palo Alto and Belle Haven	48
7.2	Potential for Proposed Project to Contribute to Displacement	49
	<b>APPENDIX A – WORKER OCCUPATIONS AND COMPENSATION LEVELS</b>	<b>51</b>

## List of Tables

Table 1-1. Project Summary	1
Table 1-2. Estimated Net Impact of Project on Housing Availability	2
Table 1-3. Net Impacts on Housing Availability by Income Category	5
Table 1-4. Estimated Menlo Park Share of Net Impacts on Housing Availability	7
Table 2-1. Project Summary	11
Table 2-2. 2024 Household Income Limits	12
Table 3-1. Market Rate and BMR Units	14
Table 3-2. Rent Data For Comparable Properties and Estimate for Proposed Project	18
Table 3-3. Estimated Affordability Level Applicable to Market Rate Apartments	18
Table 3-4. Estimated Affordability Level of New Residential Units	19
Table 4-1. Estimated Net Change in On-Site Employment	21
Table 4-2. Estimated Change in On-Site Employee Households	22
Table 4-3. On-Site Employee Households – Occupation Categories	23
Table 4-4. Percent of Households by Size and No. of Workers	24
Table 4-5. Ratio of Household Income to Individual Worker Income	25
Table 4-6. Employee Households by Occupation and Income (Steps 4, 5, and 6)	26
Table 5-1. Aggregate Household Income of New Residents	29
Table 5-2. Percent of Income Available for Expenditures <sup>(1)</sup>	30
Table 5-3. Income Available for Expenditures	31
Table 5-4. Jobs Generated from Household Spending of Residents	33
Table 5-5. Jobs Generated by Industry from Housing Spending [IMPLAN Output]	34
Table 5-6. Comparison to Existing City and County Relationships Between Number of Residential Units and Number of Jobs in Key Resident Serving Sectors.	35
Table 5-7. Estimated Net Change in On-Site Employee Households	36
Table 5-8. Worker Households by Occupation - Jobs in Off-Site Services to New Residential Units	37
Table 5-9. Employee Households By Occupation And Income (Steps 4, 5, And 6) for Workers In Off-Site Services To New Residents	39
Table 5-10. Estimated Off-Site Employee Households by Income	39
Table 6-1. Estimated Net Impact of Project on Housing Availability	41
Table 6-2. Net Impacts on Housing Availability by Income Category	41
Table 6-3. Estimated Menlo Park Share of Net Impacts on Housing Demand and Housing Supply	43
Table 6-4. Estimated Menlo Park Share of Net Impacts on Housing Demand and Housing Supply	45

## 1.0 EXECUTIVE SUMMARY

This Housing Needs Assessment (HNA) provides an analysis of housing supply and housing demand impacts of the proposed 3705 Haven Avenue Project (Project) in the City of Menlo Park (City) and evaluates the potential that the proposed Project could contribute to displacement of existing residents within the City of East Palo Alto and the Belle Haven neighborhood of Menlo Park, two proximate communities identified as having risk factors for displacement. The HNA is part of a range of analyses provided to assist in the decision-making and entitlement process for the proposed Project and accompanies the Project's environmental analysis. An HNA is, however, not a requirement of the California Environmental Quality Act (CEQA). Preparation of this HNA is required under the terms of a 2017 settlement agreement between the cities of Menlo Park and East Palo Alto<sup>1</sup>.

The proposed Project is located on an approximately 0.66 acre site at 3705 Haven Avenue in Menlo Park. The proposed Project includes 112 new multifamily rental units and replaces an existing 10,361 square foot one-story commercial office building. A summary of the proposed Project is provided in Table 1-1, below.

<b>Table 1-1. Project Summary</b>		
	<b><u>Residential Units</u></b>	<b><u>Building Area</u></b>
<b>Proposed Multifamily Rental Units</b>	112 Units	117,781 SF
<b>Existing Commercial Building [To Be Demolished]</b>		(10,361 SF)
<b>Net Change With Project</b>	112 Units	107,420 SF

*Note: building area figures exclude parking structure*

## 1.1 Housing Availability

The term "housing availability" is used to refer to the combined net housing supply and housing demand impacts of the proposed Project taking into consideration:

- a) Construction of new housing units, which adds to housing availability through additions to the housing supply;
- b) Removal of existing jobs, which adds to housing availability by reducing demand for housing by employees; and

---

<sup>1</sup> In 2016, the City updated its General Plan, specifically the land use and circulation elements, commonly referred to as ConnectMenlo. The City completed and certified a program level EIR for ConnectMenlo, which determined that there would be a less than significant impact on population and housing, except cumulative impacts projected to be reduced to less than significant following an update of ABAG regional forecasts. However, pursuant to the terms of the 2017 *City of East Palo Alto v. City of Menlo Park* Settlement Agreement, which settled the lawsuit regarding the ConnectMenlo EIR, preparation of this HNA is required.

- c) Addition of new jobs, which reduces housing availability by increasing demand for housing by employees.

HNAs prepared for projects that are exclusively non-residential have not used the term “housing availability” because these projects impact only the demand, or need, for housing.

## 1.2 Net Impact on Housing Availability

The proposed Project is estimated to increase the number of available housing units by 112 units as shown in Table 1-2. This estimate reflects the combined effect of:

1. The 112 new residential units added to the housing supply by the proposed Project.
2. A 25-unit increase in housing availability from removal of existing on-site jobs, which reduces worker housing demand. Removal of the existing building removes an estimated 46 on-site jobs. Removal of 46 jobs translates to a net reduction in employee<sup>2</sup> housing demand of 25 units based on 1.86 workers per housing unit<sup>3</sup>. See Section 4 for supporting analysis.
3. A 2-unit decrease in housing availability due to added housing demand from new on-site workers related to the on-site property management and maintenance of the residential units. A combined 3 jobs are estimated to be added on-site, which translates into an estimated employee housing demand of 2 units based on 1.86 workers per housing unit. See Section 4 for supporting analysis.
4. A 23-unit decrease in housing availability due to added housing demand by workers in off-site services to new residents such as restaurants, retail, education, medical care and others. This estimate reflects consideration of “multiplier effects” of household spending by residents of the new units consistent with the 2017 settlement agreement. Analysis supporting this estimate is provided in Section 5.

<b>Table 1-2. Estimated Net Impact of Project on Housing Availability</b>	
New Residential Units	112 Units
Reduced Housing Demand from removal of on-site jobs	25 Units
Less: Added Housing Demand from new on-site jobs	(2 Units)
Less: Added Housing Demand off-site workers in services to new residents	(23 Units)
<b>Net Increase in Available Housing</b>	<b>112 Units</b>

<sup>2</sup> The terms “worker” and “employee” are used interchangeably.

<sup>3</sup> This factor reflects the average number of workers per working household and is derived from U.S. Census data. See additional discussion under Step 2 on page 21.



### 1.3 Net Impact on Housing Availability by Income Category

The net impact on housing availability is estimated for each of the following six affordability categories, each expressed in relation to local Area Median Income (AMI):

- Extremely Low Income – households up to 30% of AMI;
- Very Low Income – households over 30% up to 50% of AMI;
- Low Income – households over 50% up to 80% of AMI;
- Moderate Income – households over 80% up to 120% of AMI;
- Above Moderate Income – households over 120% up to 150% of AMI; and
- Over 150% of AMI – households above 150% of AMI.

According to the California Department of Housing and Community Development (HCD), the AMI for a family of four in San Mateo County, is \$186,600 as of 2024. Section 2 provides income limits applicable to each of the identified income categories. The affordability categories from 0% through 120% AMI reflect those addressed by statewide housing programs such as the Regional Housing Needs Allocation (RHNA) process. In addition, the Above Moderate Income tier is included in the analysis for consistency with HNAs prepared for prior projects in Menlo Park and to provide decision makers with information regarding a broad spectrum of housing affordability levels. Above Moderate Income households also face affordable housing challenges in Menlo Park as well as in the broader Bay Area. In fact, due to the high cost of housing, housing affordability challenges also extend to households earning over 150% of AMI<sup>4</sup>, particularly in the for-sale housing market. The Over 150% of AMI category captures households with incomes that exceed 150% AMI and includes all households not included within one of the other income categories.

#### *Affordability Mix of Proposed Residential Units*

The Project is proposed to include ten Very Low Income Below Market Rate (BMR) units, four Moderate Income BMR units, and 98 market rate units. The proposed BMR units are to satisfy requirements of the City's Below Market Rate Housing Program, community amenity requirements for bonus level development, and qualify the Project for a State density bonus. See Section 3.1 for additional information.

---

<sup>4</sup> An income of approximately 277% of AMI, is estimated to be needed to afford the median priced home in Menlo Park. The median priced home in Menlo Park is \$2.65 million based on home sales from September 2022 through September 2023 from real estate data service provider CoreLogic. Estimates assume a down payment of 30% based on the median down payment for home purchases with a mortgage in Menlo Park, estimated from CoreLogic data during this period, 35% of income spent on housing, and a mortgage interest rate of 7% based on 30-year fixed mortgage rates from Freddie Mac Primary Mortgage Market Survey as of September 2023.

### *Net Impact on Housing Availability by Income Level*

The estimated net impacts on housing availability by income category are presented in Table 1-3. The findings represent the net result of:

- 1) 112 new housing units added to the housing supply, comprised of ten BMR units affordable to Very Low Income, four BMR units affordable to Moderate Income (14 BMR units in total), and 98 market rate units.
- 2) 25 units of increased housing availability across a range of income levels from removal of existing on-site jobs and related worker housing demand;
- 3) A 2-unit decrease in housing availability, including one Very Low and one Moderate Income unit, from addition of on-site jobs and related worker housing demand; and
- 4) A 23-unit decrease in housing availability across a range of income levels due to new housing demand by workers in services to new residents.

The net result is a 112-unit increase in available housing across various income categories, comprised of eight Very Low, 100 Moderate, two Above Moderate and seven Over 150% AMI units, which gross increase is partially offset by decreases in housing availability for Extremely Low, and Low Income households of three units and two units, respectively. The calculations are shown in Table 1-3.

Ten Very Low Income and four Moderate Income units to be constructed as part of the proposed Project would be deed-restricted BMR units. Of the 98 total market rate units, 97 are estimated to be affordable to Moderate Income households and one (the three-bedroom) is estimated to be affordable to Above Moderate Income households. Based on the size of the units and achievable market rate rents, 97 of the market rate units are estimated to fall within a range that is affordable to Moderate Income. Market rate units would **not** be deed-restricted BMR units, would not be restricted for occupancy by Moderate Income households, and could be occupied by households that have incomes that exceed income criteria for Moderate Income. Market rents are also free to adjust in response to rental market conditions and therefore affordability of the market rate units may adjust as well. The City's BMR Program Guidelines provide that BMR unit rents may not exceed 75% of market rate, a limitation that does not apply to market rate units estimated to be affordable to Moderate Income, which would be expected to have higher rents than the Moderate Income BMR units.

**Table 1-3. Net Impacts on Housing Availability by Income Category**

	Extremely Low	Very Low	Low	Moderate	Above Moderate	Over 150% AMI	Total
1. Increase in available housing from construction of new units	0	10	0	101	1	0	112
2. Increase in available housing from removal of existing on-site jobs, which reduces worker housing demand	1	2	4	7	2	9	25
3. Decrease in available housing from increase in housing demand by new on-site workers	0	(1)	0	(1)	0	0	(2)
4. Decrease in available housing from increase in housing demand by off-site workers in services to new residents	(4)	(3)	(6)	(7)	(1)	(2)	(23)
<b>Net Increase in Housing Availability <sup>(1)</sup></b>	<b>(3)</b>	<b>8</b>	<b>(2)</b>	<b>100</b>	<b>2</b>	<b>7</b>	<b>112</b>

(1) Negative figures represent a net increase in housing demand that is not offset by added housing supply.

Findings represent the total estimated housing availability impacts throughout the region and include impacts both within Menlo Park as well as in other jurisdictions where workers who hold on-site or off-site jobs live. See Section 1.4 for an estimate of impacts within Menlo Park.

Following is a brief description of the approach used for each component of the analysis.

- (1) *Residential units* – the affordability level of new residential units reflects the Project applicant’s proposal for compliance with the City’s BMR Program guidelines and State Density Bonus. For the market rate units, the affordability level is based on estimated market rate rents and the household income necessary to afford these rents. See Section 3 for additional description.
- (2) *Increase in available housing from removal of on-site jobs* – The decrease in worker housing demand is estimated based on the number of jobs in the existing commercial building that will be removed. Ratios derived from the U.S. Census are used to translate the decrease in employment to a decrease in worker housing demand. The decrease in worker housing demand by income category is identified by comparing estimated household incomes of workers to household income limits for the six affordability categories addressed in the analysis. Housing demand by income applicable to the existing commercial building is estimated using publicly available data on worker occupations and is reflective of the existing commercial tenants. See Section 4 for additional description.
- (3) *Decrease in available housing from addition of on-site jobs* – The increase in worker housing demand from the addition of new on-site jobs is based on the estimated number of jobs in on-site property management and maintenance of the residential units. Ratios derived from the U.S. Census are used to translate the number of jobs into worker

housing demand. Worker housing demand by income category is estimated using publicly available data on worker compensations. See Section 4 for additional description.

- (4) *Decrease in available housing due to added off-site jobs in services to new residents* – The analysis estimates the income of households renting the new residential units, their demand for goods and services such as groceries, restaurants, and healthcare, the off-site jobs created by the additional demand, and the housing needs by income level of workers who will hold these new jobs. See Section 5 for additional description.

#### **1.4 Menlo Park Share of Net Impact on Housing Availability**

This section provides an estimate of the share of the proposed Project's impacts on housing availability that occur in the City of Menlo Park. Findings of the prior section represent total estimated impacts regardless of the jurisdiction in which impacts occur. The portion of total housing availability impacts that occur in Menlo Park are estimated using the following approach:

- (1) All 112 residential units added by the proposed Project are in the City of Menlo Park; therefore, all 112 units are identified as additional housing supply in Menlo Park.
- (2) One of the 25 total units of increased housing availability from removal of on-site jobs are estimated to be in Menlo Park based on application of the existing 5.7% share of Menlo Park workers who live in the City. The City Council has expressed an interest in improving the jobs housing balance and obtaining data to inform the goal of increasing the number of workers who live and work in Menlo Park. Therefore, for informational purposes, the report provides a separate "increased commute share" estimate based on a 20% commute share, which was a goal identified in the City's 2000 Commercial Linkage Fee Nexus Study. With a 20% increased commute share, five of the 25-unit increase in housing availability from removal of on-site jobs is estimated to be within Menlo Park.
- (3) None of the two units of added regional housing demand from new on-site jobs is estimated to be in Menlo Park as application of the existing 5.7% share of Menlo Park workers who live in the City results in a fraction that rounds to zero. Similarly, the estimate using a 20% commute share also rounds to zero units of regional housing demand within Menlo Park.
- (4) One of 23 total units of added regional housing demand from new off-site jobs is estimated to be within Menlo Park based on the existing 5.7% share of Menlo Park workers who live in the City. With a 20% increased commute share, five units of regional housing demand is estimated within Menlo Park.

*Current Commute Share Estimate* – Assuming the current 5.7% commute share is maintained, the estimated net increase in housing availability in Menlo Park with the Project is 112 units (112 units = 112 new units, plus one unit of added housing availability from the removal of on-site jobs, minus one unit of new off-site employee housing demand in Menlo Park).

*Increased Commute Share Estimate* – Applying an increased commute share goal of 20%, the net increase in housing availability in Menlo Park is also 112 units (112 units = 112 new units, plus five units of added housing availability from removal of on-site jobs, minus five units of new off-site employee housing demand in Menlo Park).

Table 1-4 identifies the breakout of the net impact on housing availability in Menlo Park by income category for the two commute share alternatives.

Table 1-4. Estimated Menlo Park Share of Net Impacts on Housing Availability							
	Extremely Low	Very Low	Low	Moderate	Above Moderate	Over 150% AMI	Total
Current Commute Share (5.7%)	-	10	-	100	1	1	112
Increased Commute Share (20%)	(1)	9	-	100	2	2	112

Assuming the current 5.7% commute share, the estimated 112-unit net increase in housing availability in Menlo Park consists of ten Very Low, 100 Moderate, one Above Moderate, and one Over 150% AMI units.

With an increased 20% commute share, the estimated 112-unit net increase in housing availability in Menlo Park consists of nine Very Low, 100 Moderate, two Above Moderate and two Over 150% AMI units, offset by a net decrease in housing availability in the Extremely Low category of one unit.

See Section 6.2 for the supporting analysis.

## 1.5 Displacement Analysis

Displacement occurs when housing or neighborhood conditions force existing residents to move, or households feel like their move is involuntary. Displacement can be caused by a range of physical, economic and social factors including but not limited to foreclosure, condominium conversion, building deterioration or condemnation, increased taxes, natural disasters, eminent

domain and increases in housing costs<sup>5, 6, 7</sup>. The HNA is focused on economic drivers of displacement, specifically the potential for the proposed Project to affect the local housing market and contribute to increasing housing costs.

While displacement is not an impact for the purposes of the California Environmental Quality Act (CEQA), displacement has become an increasing regional concern in the Bay Area. A map produced by the Urban Displacement Project, a research and action initiative of UC Berkeley that aims to understand and describe the nature of gentrification and displacement, identifies numerous communities as undergoing displacement or at risk of displacement that extend from San Francisco down the Peninsula to many neighborhoods in San Jose and the East Bay.

The displacement analysis addresses the potential for the proposed Project to contribute to displacement of existing residents in two nearby communities, the City of East Palo Alto (East Palo Alto) and Menlo Park's Belle Haven neighborhood (Belle Haven). These communities have risk factors for displacement based on their relatively lower-income existing population that includes a high percentage of households who spend 35% or more of their income on housing. They are identified by the Urban Displacement Project<sup>8</sup> as experiencing on-going gentrification and/or displacement or being at risk of displacement. Another recent study of baseline housing conditions in the Belle Haven neighborhood, City of East Palo Alto, and North Fair Oaks neighborhood, prepared by the UC Berkeley Center for Community Innovation and its Y-PLAN initiative, identified similar conclusions<sup>9</sup>.

Because the proposed Project adds to the supply of market rate and affordable housing and results in a net increase in available housing both regionally and in Menlo Park, the proposed Project is not anticipated to contribute to displacement in East Palo Alto or Belle Haven. This conclusion is supported by recent research on localized market effects of new housing

---

<sup>5</sup> Zuk, M. et. al. 2017. Gentrification, Displacement, and the Role of Public Investment. *Journal of Planning Literature*. *Journal of Planning Literature* 1-14.

<sup>6</sup> Center for Community Innovation (2020). *Investment and Disinvestment as Neighbors, A Study of Baseline Housing Conditions in the Bay Area Peninsula*.

<sup>7</sup> Bradshaw, K. (2019). *Uneven Ground: How unequal land use harms communities in southern San Mateo County*. Palo Alto Online. <https://paloaltoonline.atavist.com/uneven-ground>.

<sup>8</sup>Zuk, M., & Chapple, K. (2019). *Urban Displacement Project*. <http://www.urbandisplacement.org/>

<sup>9</sup> Center for Community Innovation (2020). *Investment and Disinvestment as Neighbors, A Study of Baseline Housing Conditions in the Bay Area Peninsula*.

development indicating a reduction or moderating effect on market rents in the vicinity<sup>10</sup>. Increasing the availability of market rate and affordable housing will tend to moderate or counteract displacement pressures to some degree by relieving market pressures on existing housing stock.

---

<sup>10</sup> Asquith, Brian J., Evan Mast, and Davin Reed. 2019. "Supply Shock Versus Demand Shock: The Local Effects of New Housing in Low-Income Areas." Upjohn Institute Working Paper 19-316. W. E. Upjohn Institute for Employment Research. <https://doi.org/10.17848/wp19-316>

Damiano, Anthony, Frenier, Chris. 2020. "Build Baby Build?: Housing Submarkets and the Effects of New Construction on Existing Rents" University of Minnesota CURA Center for Urban and Regional Affairs. <https://www.tonydamiano.com/project/new-con/bbb-wp.pdf>

Li, Xiaodi. 2019. "Do New Housing Units in Your Backyard Raise Your Rents?" NYU Wagner and NYU Furman Center. [https://72187189-93c1-48bc-b596-fc36f4606599.filesusr.com/ugd/7fc2bf\\_2fc84967cfb945a69a4df7baf8a4c387.pdf](https://72187189-93c1-48bc-b596-fc36f4606599.filesusr.com/ugd/7fc2bf_2fc84967cfb945a69a4df7baf8a4c387.pdf)

Mast, Evan. 2019. "The Effect of New Market-Rate Housing Construction on the Low-Income Housing Market" Upjohn Institute Working Paper 19-307 W. E. Upjohn Institute for Employment Research. [https://research.upjohn.org/cgi/viewcontent.cgi?article=1325&context=up\\_workingpapers](https://research.upjohn.org/cgi/viewcontent.cgi?article=1325&context=up_workingpapers)

Pennington, Kate. 2021. "Does Building New Housing Cause Displacement?: The Supply and Demand Effects of Construction in San Francisco." Department of Agricultural and Resource Economics, University of California, Berkeley. [https://www.dropbox.com/s/oplls6utgf7z6ih/Pennington\\_JMP.pdf?dl=0](https://www.dropbox.com/s/oplls6utgf7z6ih/Pennington_JMP.pdf?dl=0)

Phillips, Shane, Manville, Michael, Lens Michael. 2021. "Research Roundup: The Effect of Market-Rate Development on Neighborhood Rents" UCLA Lewis Center for Regional Policy Studies. <https://www.lewis.ucla.edu/research/market-rate-development-impacts/>

## 2.0 INTRODUCTION

This Housing Needs Assessment (HNA) provides an analysis of the proposed Project's impact on housing supply and housing demand and evaluates its potential to contribute to displacement of existing residents of the City of East Palo Alto (East Palo Alto) and the Belle Haven neighborhood of Menlo Park (Belle Haven), two proximate communities identified as having risk factors for displacement. The report has been prepared by Keyser Marston Associates (KMA) for the City of Menlo Park under a subcontract agreement with David J. Powers & Associates, Inc., prime consultant responsible for preparation of the Project's environmental analysis.

In 2016, the City updated its General Plan, specifically the land use and circulation elements, and its Zoning Ordinance (commonly referred to as ConnectMenlo). The City completed and certified a program level EIR for ConnectMenlo, which determined that there would be a less than significant impact on population and housing, except cumulative impacts projected to be reduced to less than significant following an update of ABAG regional forecasts. However, pursuant to the terms of the 2017 *City of East Palo Alto v. City of Menlo Park* Settlement Agreement, which settled the lawsuit regarding the ConnectMenlo EIR, preparation of this HNA is required. This HNA has been prepared consistent with the terms of that settlement agreement.

The following housing-related topics are addressed in this HNA:

- 1) Net impact on housing availability from the proposed Project, by income level, based on the combined effects of:
  - a. Added residential units;
  - b. Reduced worker housing need with removal of the existing commercial building;
  - c. Added housing needs for workers in residential property management; and
  - d. Added housing needs for workers in off-site retail and other services to residents of the new residential units.
- 2) Share of housing availability impacts estimated to occur within the City of Menlo Park; and
- 3) Potential for the proposed Project to contribute to rising housing costs and displacement of existing residents in East Palo Alto and Belle Haven.

These housing-related impacts are not required to be analyzed under the California Environmental Quality Act (CEQA) since economic or social changes are not considered significant effects on the environment. Nevertheless, this information is required by the settlement agreement and may be of interest to decision-makers and/or the public in evaluating the merits of the proposed Project.



## 2.1 Project Description

3705 Haven, LLC (Project Sponsor) is proposing construction of a new 112-unit multifamily rental apartment building. The proposed Project is located on an approximately 0.66 acre site at 3705 Haven Avenue in Menlo Park. The proposed Project replaces an existing commercial building on the Project site encompassing 10,361 square feet of building area. Table 2-1 provides a summary of the proposed Project.

Table 2-1. Project Summary		
	<u>Residential Units</u>	<u>Building Area</u>
<b>Proposed Multifamily Rental Units</b>	112 Units	117,781 SF
<b>Existing Commercial Building [To Be Demolished]</b>		(10,361 SF)
<b>Net Change With Project</b>	112 Units	107,420 SF

*Note: building area figures exclude parking structure*

## 2.2 Income Definitions

The income levels or tiers used in the analysis are expressed in relation to local Area Median Income (AMI). For example, Extremely Low Income is defined as households earning up to 30% of AMI. The AMI for each county or group of counties is issued annually by the U.S. Department of Housing and Urban Development (HUD) and released by the California Department of Housing and Community Development (HCD). Most housing programs and policies in California and its jurisdictions utilize these income definitions. The City of Menlo Park is covered by and utilizes the AMI information provided for San Mateo County.

Per HCD and statewide programs, the analysis includes households earning less than 120% AMI. In addition, an Above Moderate Income tier covering 120% to 150% AMI is presented in this analysis because this income tier also faces affordable housing challenges in Menlo Park and the greater Bay Area. In fact, due to the high cost of housing in Menlo Park, housing affordability challenges even extend to households earning more than 150% of AMI<sup>11</sup>, especially in the for-sale housing market. As with HNAs prepared for prior projects in Menlo Park, the Above Moderate Income tier was included to provide decision makers more information on the housing needs of a broad spectrum of housing affordability levels.

In summary, the income tiers used in the analysis are:

---

<sup>11</sup> An income of approximately 277% of AMI, is estimated to be needed to afford the median priced home in Menlo Park. The median priced home in Menlo Park is \$2.65 million based on home sales from September 2022 through September 2023 from real estate data service provider CoreLogic. Estimates assume a down payment of 30% based on the median down payment for home purchases with a mortgage in Menlo Park, estimated from CoreLogic data during this period, 35% of income spent on housing, and a mortgage interest rate of 7% based on 30-year fixed mortgage rates from Freddie Mac Primary Mortgage Market Survey as of September 2023.

- *Extremely Low Income* – households up to 30% of AMI;
- *Very Low Income* – households over 30% up to 50% of AMI;
- *Low Income* – households over 50% up to 80% of AMI;
- *Moderate Income* – households over 80% up to 120% of AMI;
- *Above Moderate Income* – households over 120% up to 150% of AMI; and
- *Over 150% of AMI* – households above 150% of AMI.

The 2024 income limits by household size for San Mateo County are presented below in Table 2-2.

Table 2-2. 2024 Household Income Limits San Mateo County		Household Size					
		1-person	2-person	3-person	4-person	5-person	6-person
Extremely Low Income	30% of AMI	\$41,150	\$47,000	\$52,900	\$58,750	\$63,450	\$68,150
Very Low Income	50% of AMI	\$68,550	\$78,350	\$88,150	\$97,900	\$105,750	\$113,600
Low Income	80% of AMI	\$109,700	\$125,350	\$141,000	\$156,650	\$169,200	\$181,750
Moderate Income	120% of AMI	\$156,750	\$179,100	\$201,500	\$223,900	\$241,800	\$259,700
Above Moderate	150% of AMI	\$174,300	\$199,200	\$224,100	\$249,000	\$268,950	\$288,825
Median Income	100% of AMI	\$130,600	\$149,300	\$167,950	\$186,600	\$201,550	\$216,450

AMI = Area Median Income, San Mateo County 2024

Source: California Department of Housing and Community Development

### 2.3 Report Organization

This report is organized into seven sections and one appendix:

- Section 1.0 provides an Executive Summary;
- Section 2.0 provides an Introduction;
- Section 3.0 identifies the income categories applicable to the new residential units;
- Section 4.0 provides an analysis of worker housing needs from removal of existing on-site jobs and addition of new on-site jobs;
- Section 5.0 estimates housing demand by income for off-site workers in services to new residents such as restaurants, retail and health care;
- Section 6.0 combines the findings of Sections 3, 4 and 5 to estimate the net impact on housing availability and the share of net impacts occurring within the City of Menlo Park;
- Section 7.0 provides a discussion of the potential for the proposed Project to contribute to displacement of existing residents in East Palo Alto and Belle Haven; and
- Appendix A provides supporting tables on worker occupation and incomes.

## **2.4 Data Sources and Qualifications**

The analysis in this report has been prepared using the best and most recent data available from sources including the American Community Survey (ACS) of the U.S. Census, the U.S. Bureau of Labor Statistics Occupational Employment Survey, California Employment Development Department, commercial data providers CoStar, CoreLogic, and data from the Project Sponsor on tenants within the existing office building. Local data was used wherever possible. Other sources are noted in the text and footnotes. While KMA believes all sources utilized are sufficiently accurate for the purposes of the analysis, KMA cannot guarantee their accuracy. KMA assumes no liability for information from these or other sources.

### 3.0 HOUSING UNITS ADDED BY THE PROJECT BY INCOME CATEGORY

This section estimates how the 112 new residential units added by the proposed Project will be distributed by income or affordability category.

#### 3.1 Below Market Rate Housing Units Required

The proposed Project would include 14 Below Market Rate (BMR) affordable units. The City's Below Market Rate Housing Program codified in Chapter 16.96 of the City's Zoning Code requires residential development projects with twenty or more units to provide 15% BMR affordable units. The BMR Program results in ten Very Low Income units based on applying the 15% requirement to the 66-unit "base project" before consideration of additional units permitted under density bonus provisions of the City's BMR Program (15% X 66 = 10 BMR units required).

The Project Sponsor proposes to utilize the provisions of California Government Code Section 65915 (State Density Bonus) to increase the allowable density on the site. The inclusion of 15% Very Low Income units allows the Project's base density to be increased by 50%. This results in a total project of 99 units – an increase of 33 units (66 x 150% = 99 units). Assembly Bill 1287 (AB 1287), which became effective January 1, 2024, allows for additional increases in density if additional affordable units are provided. The Project Sponsor proposes to restrict 5% of the base density to Moderate Income Units, which equates to four units (5% x 66 = 4 Moderate Income units). This allows for an additional 20% increase in density, which equates to 13 units (20% x 66 units = 13 units), and addresses community amenity requirements for bonus level development. Therefore, State Density Bonus allows for the 66-unit "base" project to be increased to 112 units (66 base units + 33 units + 13 units = 112 units).

In summary, State Density Bonus allows for a project with a total of 112 units inclusive of ten units restricted to Very Low Income households, four units restricted to Moderate Income, and 98 market rate units. Table 3-1 provides a summary.

	<b>Market Rate Units</b>	<b>BMR Units</b>	<b>Total Units</b>
Base Density	52*	14 (10 Very Low + 4 Moderate)	66
State Density Bonus	46	0	46
Total	98	14	112

\*Without inclusion of the additional 10 market rate units permitted under the City's BMR Program density bonus (equal to one market rate unit for each BMR unit provided, up to 15%), since the State Density Bonus exceeds this local density bonus.

The City's BMR Program Guidelines require BMR units to be generally proportionate in size and number of bedrooms to the market-rate unit mix.

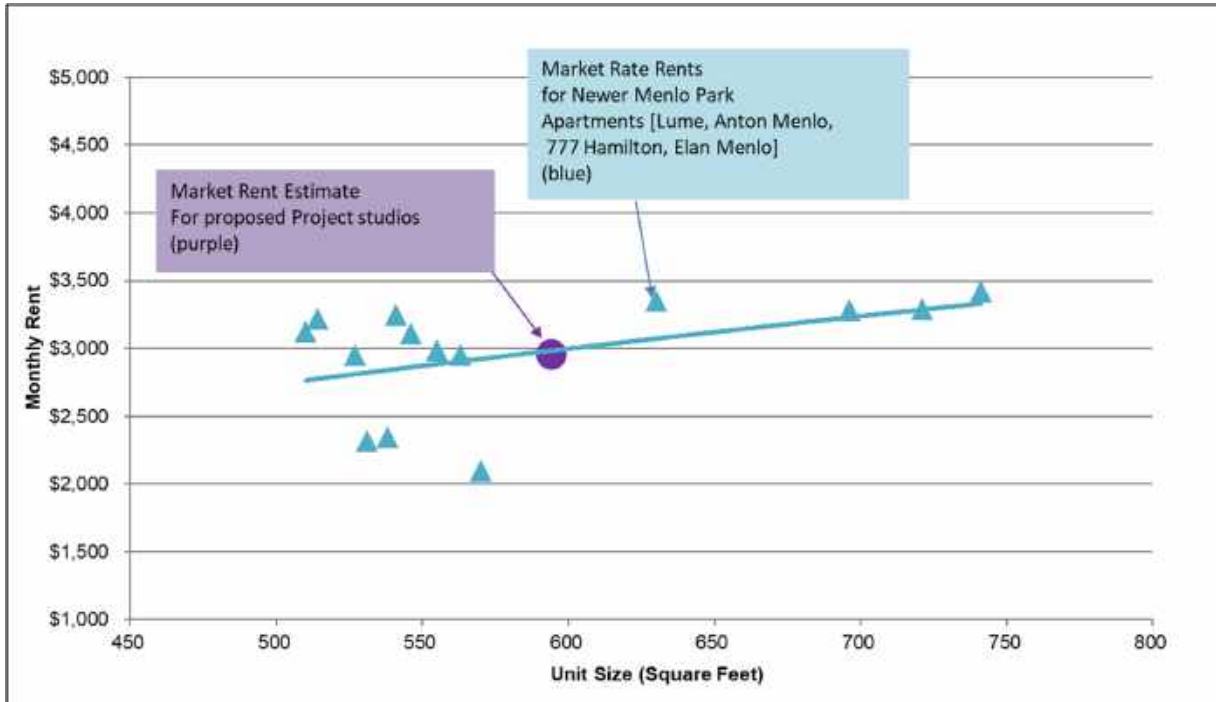
### **3.2 Affordability Level of Market Rate Units**

The proposed Project will include 98 market rate rental units of which 31 are studio units averaging approximately 594 square feet in size, 43 are one-bedroom units averaging approximately 809 square feet in size, 23 are two-bedroom units averaging approximately 1,005 square feet in size, and one is a three-bedroom unit at 1,583 square feet in size. The market rate units are estimated to be affordable to households in the Moderate Income category, except the three-bedroom unit, which is estimated to be affordable to Above Moderate Income. Estimated affordability levels are based on estimated market rate rents for the units. Market rate units will not be deed restricted; therefore, the affordability level could change over time as market conditions and the income criteria used to determine affordability level change.

Market rents were estimated by KMA based on four newer rental properties in Menlo Park located on the north side of U.S. 101, the Lume at 172 Constitution (built 2024), the Anton Menlo at 3639 Haven (built 2017), the Elan Menlo at 3645 Haven (built 2017) and 777 Hamilton (built 2016). Market rents reflect data as of February 2024.

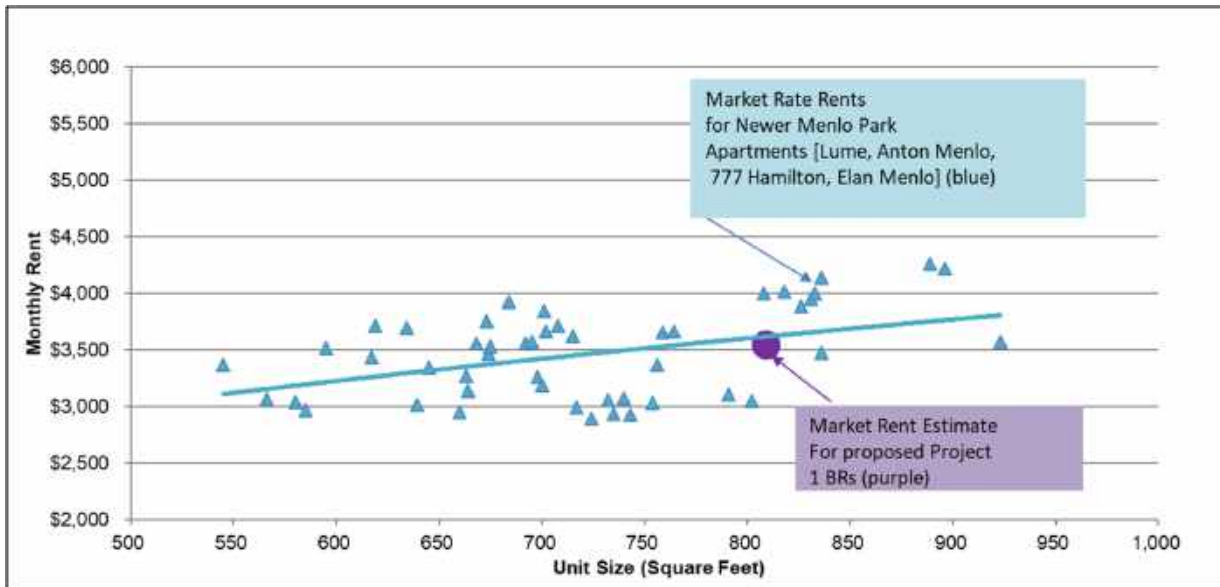
Average rental rates for the comparison properties by bedroom size are shown in Table 3-2 and Charts 1 - 4. Each data point in Charts 1 - 4 represents the average effective market rate rent for units of a specific square footage size. Estimated rents for the proposed Project are identified by purple circles. Based on the market data and the unit sizes for the proposed Project, studios are estimated to rent for approximately \$2,950 per month, one-bedrooms for approximately \$3,550 per month, two-bedrooms for approximately \$4,150 per month and three-bedrooms for \$5,600 per month.

**Chart 1 – Newer Studio Apartment Market Rate Rents and Estimated Rents for proposed Project**



Source: CoStar and KMA

**Chart 2 – Newer One-Bedroom Market Rate Rents and Estimated Rents for proposed Project**



Source: CoStar and KMA



Table 3-2. Rent Data For Comparable Properties and Estimate for Proposed Project												
	Studios			1-Bedrooms			2-Bedrooms			3-Bedrooms		
	Avg Size	Avg Rent	Avg Rent PSF	Avg Size	Avg Rent	Avg Rent PSF	Avg Size	Avg Rent	Avg Rent PSF	Avg Size	Avg Rent	Avg Rent PSF
Estimate for Project	594	\$2,950	\$4.96	809	\$3,550	\$4.39	1,005	\$4,150	\$4.13	1,583	\$5,600	\$3.54
<b>Comparable Apartments</b> <i>Menlo Park North of US101</i>												
Lume	517	\$2,776	\$5.37	664	\$3,201	\$4.82	1,086	\$4,688	\$4.32	1,333	\$5,480	\$4.11
Anton Menlo	563	\$2,953	\$5.25	750	\$3,299	\$4.40	1,127	\$4,243	\$3.76	1,391	\$4,791	\$3.44
777 Hamilton				744	\$3,069	\$4.13	1,029	\$3,750	\$3.64	1,546	\$5,008	\$3.24
Elan Menlo Park				763	\$3,376	\$4.42	1,017	\$3,802	\$3.74	1,249	\$5,115	\$4.10

Source: CoStar effective rents reported as of February 2024.

Market rate rents were then used to estimate the affordability level of the units. As shown in Table 3-3, the market rate units are estimated to be affordable to Moderate Income households, except for the three-bedroom unit, which is estimated to be affordable to Above Moderate Income households. Since the market rate units would not be deed-restricted, it is possible occupants would have incomes that exceed income criteria for Moderate Income and affordability of the market rate units could change over time.

Table 3-3. Estimated Affordability Level Applicable to Market Rate Apartments				
	Studio	1-BR	2-BR	3-BR
Estimated Monthly Rent <sup>(1)</sup>	\$2,950	\$3,550	\$4,150	\$5,600
Utilities <sup>(2)</sup>	\$144	\$159	\$213	\$273
Total Monthly Rent + Utilities	\$3,094	\$3,709	\$4,363	\$5,873
Annual Housing Cost	\$37,128	\$44,508	\$52,356	\$70,476
Percent of Income Spent on Housing <sup>(3)</sup>	30%	30%	30%	30%
Annual Household Income Required	\$123,760	\$148,360	\$174,520	\$234,920
2024 Median Income <sup>(4)</sup>	\$130,600	\$149,300	\$167,950	\$186,600
%AMI Needed to Afford Market Units	95%	99%	104%	126%
Affordability Level of Market Units	Moderate (not deed restricted)	Moderate (not deed restricted)	Moderate (not deed restricted)	Above Moderate

(1) KMA estimate based on market rents for comparable new apartment properties.

(2) Tenant paid utilities estimated based on County Housing Authority utility allowance schedule.

(3) Per California Health and Safety Code Section 50053.

(4) HCD Income Limits for applicable household size for 2024.



### 3.3 New Residential Units by Income Level

Table 3-4 provides a summary of the income level applicable to the new residential units, combining the findings of Section 3.1 and 3.2.

The proposed Project includes ten Very Low Income BMR units, four Moderate Income BMR units, 97 market rate units estimated to be affordable to Moderate Income and one market rate unit estimated to be affordable to Above Moderate Income households.

Table 3-4. Estimated Affordability Level of New Residential Units					
	Very Low	Moderate	Moderate	Above Moderate	Total New Residential Units
	<i>BMR units</i>	<i>BMR units</i>	<i>Market Rate</i>	<i>Market Rate</i>	
Studio	3	2	31	0	36
1-Bedroom	5	1	43	0	49
2-Bedroom	2	1	23	0	26
3-Bedroom	0	0	0	1	1
Total	10	4	97	1	112

#### **4.0 CHANGE IN WORKER HOUSING NEEDS FROM REMOVAL OF EXISTING ON-SITE JOBS AND REPLACEMENT WITH NEW ON-SITE JOBS**

This section provides an analysis of the change in worker housing need by income level from:

- Removal of existing on-site jobs in the existing commercial building; and
- Addition of new on-site jobs related to the on-site property management and maintenance for the new apartments.

The analysis begins by quantifying the number of on-site jobs removed and added by the proposed Project. Then, the analysis proceeds through a series of steps to estimate how the changes in on-site jobs translate into a change in worker housing need by income level.

#### **4.1 Methodology**

The analysis estimates the changes in on-site employment from removal of the existing commercial building and construction of the new residential units. The estimated changes in employment are then translated into an estimated impact on worker housing demand based on relationships between jobs and housing demand derived from the U.S. Census. Finally, the income level associated with the housing demand is estimated using a combination of data sources including the U.S. Bureau of Labor Statistics occupation and wage data and U.S. Census data on households.

Following is a description of each step in the analysis.

##### ***Analysis Step 1 –On-Site Employment***

The proposed Project results in the removal of an estimated 46 existing jobs and an addition of an estimated three new jobs, for a net reduction of 43 jobs as summarized in Table 4-1.

##### ***Existing Employment to be Removed***

Demolition of the existing commercial building will remove an estimated 46 on-site jobs, including an estimated one job in building services (i.e. janitorial and maintenance).

The Project Sponsor provided a partial list of the existing tenants in the building. Per this information, the existing building is divided into 36 suites averaging 288 square feet of building area per suite. Twenty nine of the suites are occupied. Employment information was provided for 21 of the suites and totals 34 employees. KMA estimated that the remaining eight occupied suites include a total of 11 employees. This results in the estimated 45 employees within the existing commercial building. In addition, one building services employee is estimated to service

the building based on staffing ratios derived from data reported by the International Facility Management Association (IFMA). Building services workers are evaluated separately because these services are typically provided by separate contract service providers.

*New Employment Added by Proposed Project*

The proposed Project is estimated to add three new on-site jobs in property management and maintenance for the new residential units. The number of residential property management and maintenance staff are estimated based on a ratio of 39 apartment units per employee derived from the National Apartment Association 2018 Survey of Operating Income and Expenses.

<b>Table 4-1. Estimated Net Change in On-Site Employment</b>				
	<b>Development</b>	<b>Basis for On-Site Employment Estimate</b>	<b>Estimated Net Change in On-Site Employment</b>	
<b>Existing</b>				
Existing Commercial	10,361 SF	Applicant <sup>(1)</sup>	(45)	employees
Building Services		1 per 25,000 SF <sup>(2)</sup>	(1)	employee
Subtotal Existing			(46)	employees
<b>Proposed</b>				
Rental Units / Property Mangmt	112 Units	1 per 39 units <sup>(3)</sup>	3	employees
<b>Net Change in On-Site Employment</b>			<b>(43)</b>	<b>employees</b>

<sup>(1)</sup> The Applicant provided partial information regarding the number of existing employees. KMA utilized this information to extrapolate the number of employees for the entire building.

<sup>(2)</sup> Building services staff, which includes maintenance, janitorial, and security not expected to be directly employed by the tenant, was estimated by KMA based on a ratio of 1 employee per 25,000 square feet for the existing building and 1 per 10,000 square feet for new building. Estimate was derived from International Facility Management Association (IFMA), Operations and Maintenance Benchmarks Research Report #33 and adjusted by KMA as a reflection of employment density.

<sup>(3)</sup> Based on National Apartment Association 2018 Survey of Operating Income and Expenses in Rental Apartment Communities, average number of units per employee for projects that are 100 to 199 units in size.

**Step 2 – Adjustment from Employees to Employee Households**

Step 2 converts the number of employees to the number of employee households. This step recognizes that there is, on average, more than one worker per household, and thus the number of housing units in demand must be reduced. The workers per worker household ratio eliminates from the equation all non-working households, such as households comprised of retired persons or students. The calculation is shown in Table 4-2.

KMA derived the worker per worker household figure from ACS data for 2018 to 2022. The ACS data provide estimates of the total number of workers in San Mateo County, and the total

number of households with at least one working household member. The ratio of the two figures for San Mateo County is 1.86 workers per worker household. The San Mateo County figure is used in the analysis because workers will be more similar to the County as a whole than the smaller City of Menlo Park profile, which has an average of 1.73 workers per worker household. The workers per worker household ratio is used to translate the existing and new on-site employment to a change in employee households as shown in Table 4-2. The 46 existing jobs are divided by the 1.86 workers per worker household ratio to estimate the decrease of 25 existing employee households. Using the same approach, the three new jobs translate into an estimated two employee households.

<b>Table 4-2. Estimated Change in On-Site Employee Households</b>					
	<b>Existing (to be removed)</b>			<b>Proposed</b>	<b>Net New</b>
	<b>Existing Commercial</b>	<b>Building Services</b>	<b>Total Existing</b>	<b>Residential Property Management</b>	
Employment	(45)	(1)	(46)	3	3
Employee Households (at 1.86 workers per household) <sup>(1)</sup>	(24)	(1)	(25)	2	2

(1) Derived from 2018-2022 U.S. Census American Community Survey data for San Mateo County

### **Step 3 – Occupational Distribution**

Occupation refers to job description, such as management, sales clerk, cashier, etc. Occupational categories representative of jobs in the existing commercial space were identified using information on the existing mix of tenants provided by the Project Applicant. Occupations representative of property management and maintenance and building services occupations were selected by KMA from a list of Standard Occupational Classification (SOC) System categories. Table 4-3 provides a summary of worker occupations by major SOC category. Appendix A, Tables 3 to 5 provide a further breakdown by detailed worker occupation category.

**Table 4-3. On-Site Employee Households – Occupation Categories**

<b>Occupation Category</b>	<b>Existing Commercial</b>				<b>New Residential</b>	
	<b>Tenant</b>	<b>Building Services</b>	<b>Total Existing</b>	<b>% of Total</b>	<b>Residential Property Mgmt</b>	<b>% of Total</b>
Management Occupations	(4.9)	0.0	(4.9)	19%	0.3	16%
Business and Financial Operations	(2.4)	0.0	(2.4)	10%	0.0	0%
Computer and Mathematical	(1.2)	0.0	(1.2)	5%	0.0	0%
Architecture and Engineering	(1.2)	0.0	(1.2)	5%	0.0	0%
Life, Physical, and Social Science	(1.2)	0.0	(1.2)	5%	0.0	0%
Community and Social Services	(1.2)	0.0	(1.2)	5%	0.0	0%
Legal	(2.4)	0.0	(2.4)	10%	0.0	0%
Education, Training, and Library	0.0	0.0	0.0	0%	0.0	0%
Arts, Design, Entertainment, Sports, and Media	0.0	0.0	0.0	0%	0.0	0%
Healthcare Practitioners and Technical	(1.2)	0.0	(1.2)	5%	0.0	0%
Healthcare Support	0.0	0.0	0.0	0%	0.0	0%
Protective Service	0.0	0.0	0.0	0%	0.0	0%
Food Preparation and Serving Related	0.0	0.0	0.0	0%	0.0	0%
Building and Grounds Cleaning and Maint.	(1.2)	(0.4)	(1.6)	6%	0.6	32%
Personal Care and Service	0.0	0.0	0.0	0%	0.0	0%
Sales and Related	0.0	0.0	0.0	0%	0.0	0%
Office and Administrative Support	(6.1)	0.0	(6.1)	24%	0.0	0%
Farming, Fishing, and Forestry	0.0	0.0	0.0	0%	0.0	0%
Construction and Extraction	(1.2)	0.0	(1.2)	5%	0.0	0%
Installation, Maintenance, and Repair	0.0	(0.1)	(0.1)	1%	0.6	32%
Production	0.0	0.0	0.0	0%	0.0	0%
Transportation and Material Moving	0.0	0.0	0.0	0%	0.0	0%
<b>Totals (rounded)</b>	<b>(24)</b>	<b>(1)</b>	<b>(25)</b>	<b>100%</b>	<b>2</b>	<b>100%</b>

Notes: see Appendix Tables 3-5 for information on detailed occupation categories.

#### **Step 4 – Estimate of Employee Wage and Salary Distribution**

The employee wage and salary distribution are based on the occupational distribution from Step 3 in combination with 2023 wage and salary information for San Mateo County for each occupation published by the California Employment Development Department (EDD). In addition to the average compensation levels, the analysis also utilizes data regarding the percentile distribution of wages within individual occupation categories in estimating the distribution of worker compensation levels. The data on employee wages and salaries utilized in the analysis is presented in Appendix A Tables 3 to 5.

#### **Step 5 – Household Size Distribution**

In this step, the household size distribution of workers is estimated using U.S. Census 2018-2022 ACS data for San Mateo County. Data for the County is used since workers are more representative of the larger area in which workers live (the County) than the City of Menlo Park.

In addition to the distribution in household sizes, the data also accounts for a range in the number of workers in households of various sizes. Table 4-4 indicates the percentage distribution utilized in the analysis.

<b>Table 4-4. Percent of Households by Size and No. of Workers</b>		
<b>No. of Persons in Household</b>	<b>No. of Workers in Household</b>	<b>Percent of Total Households</b>
1	1	15.9%
2	1	12.8%
	2	17.7%
3	1	7.6%
	2	10.8%
	3+	3.2%
4	1	4.4%
	2	9.0%
	3+	6.0%
5	1	1.7%
	2	3.5%
	3+	2.3%
6	1	1.1%
	2	2.3%
	3+	1.5%
Total		100%

Source: 2018-2022 American Community Survey data for San Mateo County.

### ***Step 6 – Estimate of Households that meet HCD Size and Income Criteria***

This step in the analysis calculates the number of employee households that fall into each income category for each size household. This calculation is based on the employee wage and salary distribution (Step 4), the worker household distribution (Step 5) and the 2024 HCD income limits for San Mateo County, as described above.

Household incomes are estimated based upon ratios between individual employee income and household income derived from U.S. Census data shown in Table 4-5. The ratios adjust employee incomes upward even for households with only one worker in consideration of non-wage/salary income sources such as child support, disability, social security, investment income and others.

Table 4-5. Ratio of Household Income to Individual Worker Income			
Individual Worker Income	One Worker Households	Two Worker Households	Three or More Workers
\$25,000 to \$50,000	1.39	3.34	4.77
\$50,000 to \$75,000	1.20	2.49	3.42
\$75,000 to \$100,000	1.11	2.17	2.79
\$100,000 to \$150,000	1.07	1.94	2.40
\$150,000 to \$200,000	1.04	1.75	2.03
\$200,000 to \$250,000	1.04	1.64	1.84
\$250,000 to \$300,000	1.04	1.57	1.66
\$300,000 to \$500,000	1.05	1.45	1.53
\$500,000 to \$10,000,000	1.02	1.29	1.35

Source: KMA analysis of American Community Survey PUMS data for San Francisco Bay Area.

Estimated household incomes are compared to HCD income criteria to determine the percentage that qualify within each income category. The comparison is made for each potential household size/number of workers combination. The result is multiplied by the percentage distribution of household sizes and number of workers per household from Step 5 to calculate the distribution of worker households by income.

Table 4-6 presents the estimated number of households in each income tier by worker occupation category. It represents the output of the analysis, after completing Step 4 (employee compensation levels), Step 5 (household size distribution of worker households), and Step 6 which uses this information to calculate the number of households that fall into each income category.

**TABLE 4-6  
EMPLOYEE HOUSEHOLDS BY OCCUPATION AND  
INCOME (STEPS 4, 5, AND 6)  
3705 HAVEN AVENUE  
HOUSING NEEDS ASSESSMENT  
MENLO PARK, CA**

	Existing Commercial							Building Services / Existing						
	Extremely Low	Very Low	Low	Moderate	Above Moderate	Over 150% AMI	Total	Extremely Low	Very Low	Low	Moderate	Above Moderate	Over 150% AMI	Total
<b>Step 4, 5, &amp; 6 - Employee Households within Major Occupation Categories</b>														
Management	-	(0.01)	(0.25)	(0.69)	(0.31)	(3.58)	(4.85)	-	-	-	-	-	-	-
Business and Financial Operations	-	(0.12)	(0.54)	(0.86)	(0.28)	(0.62)	(2.43)	-	-	-	-	-	-	-
Computer and Mathematical	-	(0.04)	(0.19)	(0.37)	(0.13)	(0.49)	(1.21)	-	-	-	-	-	-	-
Architecture and Engineering	-	(0.01)	(0.17)	(0.37)	(0.08)	(0.58)	(1.21)	-	-	-	-	-	-	-
Life, Physical and Social Science	(0.01)	(0.04)	(0.13)	(0.33)	(0.13)	(0.56)	(1.21)	-	-	-	-	-	-	-
Community and Social Services	(0.11)	(0.16)	(0.30)	(0.48)	(0.11)	(0.06)	(1.21)	-	-	-	-	-	-	-
Legal	-	-	(0.02)	(0.22)	(0.14)	(2.04)	(2.43)	-	-	-	-	-	-	-
Education Training and Library	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arts, Design, Entertainment, Sports, & Media	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Healthcare Practitioners and Technical	(0.01)	(0.10)	(0.19)	(0.33)	(0.09)	(0.50)	(1.21)	-	-	-	-	-	-	-
Healthcare Support	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Protective Service	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Food Preparation and Serving Related	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Building Grounds and Maintenance	(0.27)	(0.14)	(0.32)	(0.45)	(0.03)	(0.02)	(1.21)	(0.10)	(0.04)	(0.15)	(0.09)	(0.01)	(0.00)	(0.40)
Personal Care and Service	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sales and Related	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Office and Admin	(0.63)	(1.00)	(1.25)	(2.63)	(0.37)	(0.19)	(6.06)	-	-	-	-	-	-	-
Farm, Fishing, and Forestry	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Construction and Extraction	-	(0.07)	(0.24)	(0.41)	(0.16)	(0.34)	(1.21)	-	-	-	-	-	-	-
Installation Maintenance and Repair	-	-	-	-	-	-	-	(0.02)	(0.02)	(0.04)	(0.05)	(0.01)	(0.00)	(0.13)
Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Transportation and Material Moving	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Households: Major Occupations	(1.02)	(1.70)	(3.61)	(7.12)	(1.82)	(8.98)	(24.25)	(0.12)	(0.07)	(0.19)	(0.14)	(0.01)	(0.01)	(0.54)
Households: all other occupations <sup>(1)</sup>	-	-	-	-	-	-	-	-	-	-	-	(0.00)	0.00	-
<b>Total Households</b>	<b>(1.02)</b>	<b>(1.70)</b>	<b>(3.61)</b>	<b>(7.12)</b>	<b>(1.82)</b>	<b>(8.98)</b>	<b>(24.25)</b>	<b>(0.12)</b>	<b>(0.07)</b>	<b>(0.19)</b>	<b>(0.14)</b>	<b>(0.01)</b>	<b>(0.01)</b>	<b>(0.54)</b>
<b>Total Households - Rounded</b>	(1)	(2)	(3)	(7)	(2)	(9)	(24)	-	-	(1)	-	-	-	(1)

**Notes:**

<sup>(1)</sup> Represents occupation categories which have a minor amount of employment and for which detailed compensation analysis was not completed. These worker households are assumed to have a similar income distribution to other employees in the same industry.

See Appendix A Tables 3 to 5 for information on detailed occupation categories and compensations.



**TABLE 4-6  
EMPLOYEE HOUSEHOLDS BY OCCUPATION AND  
INCOME (STEPS 4, 5, AND 6)  
3705 HAVEN AVENUE  
HOUSING NEEDS ASSESSMENT  
MENLO PARK, CA**

	Residential Property Management						Total
	Extremely Low	Very Low	Low	Moderate	Above Moderate	Over 150% AMI	
<b>Step 4, 5, &amp; 6 - Employee Households within Major Occupation Categories</b>							
Management	0.02	0.04	0.08	0.10	0.02	0.06	0.32
Business and Financial Operations	-	-	-	-	-	-	-
Computer and Mathematical	-	-	-	-	-	-	-
Architecture and Engineering	-	-	-	-	-	-	-
Life, Physical and Social Science	-	-	-	-	-	-	-
Community and Social Services	-	-	-	-	-	-	-
Legal	-	-	-	-	-	-	-
Education Training and Library	-	-	-	-	-	-	-
Arts, Design, Entertainment, Sports, & Media	-	-	-	-	-	-	-
Healthcare Practitioners and Technical	-	-	-	-	-	-	-
Healthcare Support	-	-	-	-	-	-	-
Protective Service	-	-	-	-	-	-	-
Food Preparation and Serving Related	-	-	-	-	-	-	-
Building Grounds and Maintenance	0.03	0.14	0.11	0.26	0.06	0.04	0.65
Personal Care and Service	-	-	-	-	-	-	-
Sales and Related	-	-	-	-	-	-	-
Office and Admin	-	-	-	-	-	-	-
Farm, Fishing, and Forestry	-	-	-	-	-	-	-
Construction and Extraction	-	-	-	-	-	-	-
Installation Maintenance and Repair	0.03	0.14	0.14	0.28	0.04	0.02	0.65
Production	-	-	-	-	-	-	-
Transportation and Material Moving	-	-	-	-	-	-	-
Households: Major Occupations	0.09	0.32	0.33	0.64	0.12	0.12	1.62
Households: all other occupations <sup>(1)</sup>	-	-	-	-	-	-	-
<b>Total Households</b>	<b>0.09</b>	<b>0.32</b>	<b>0.33</b>	<b>0.64</b>	<b>0.12</b>	<b>0.12</b>	<b>1.62</b>
<b>Total Households - Rounded</b>	-	1	-	1	-	-	2

Notes:

(1) Represents occupation categories which have a minor amount of employment and for which detailed compensation analysis was not completed. These worker households are assumed to have a similar income distribution to other employees in the same industry.

See Appendix A Tables 3 to 5 for information on detailed occupation categories and compensations.

## 4.2 Summary by Income Level

Table 4-7 presents a summary of the changes in on-site worker housing demand within commuting distance of Menlo Park by affordability level as a result of removal of existing on-site jobs and addition of new on-site jobs.

<b>Table 4.7. Estimated Net Change in On-Site Employee Households by Income</b>							
	<b>Extremely Low</b>	<b>Very Low</b>	<b>Low</b>	<b>Moderate</b>	<b>Above Moderate</b>	<b>Over 150% AMI</b>	<b>Total</b>
<b>Remove Existing Commercial</b>							
Tenant	(1)	(2)	(3)	(7)	(2)	(9)	(24)
Building Services	<u>0</u>	<u>0</u>	<u>(1)</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>(1)</u>
Total Existing	(1)	(2)	(4)	(7)	(2)	(9)	(25)
<b>New Residential</b>							
Residential Property Mgmt	0	1	0	1	0	0	2
<b>Net Change: On-site Worker Households</b>	<b>(1)</b>	<b>(1)</b>	<b>(4)</b>	<b>(6)</b>	<b>(2)</b>	<b>(9)</b>	<b>(23)</b>

The removal of existing on-site employment is estimated to result in a reduction in housing demand for 25 housing units. This 25-unit reduction in housing demand consists of an estimated one Extremely Low Income, two Very Low Income, four Low Income, seven Moderate Income, two Above Moderate, and nine Over 150% units.

The addition of new on-site employment in the proposed Project is estimated to result in a demand for two housing units consisting of one Very Low Income and one Moderate Income unit.

The net change in on-site worker households is estimated at 23 units.

## 5.0 HOUSING DEMAND OF OFF-SITE WORKERS IN SERVICES TO NEW RESIDENTS

The following section provides an analysis of the linkages between development of the new residential units on the Project site, jobs generated in off-site services such as retail and restaurants, and the housing needs of the workers who hold these off-site jobs. Off-site jobs addressed in this section are incorporated into the analysis consistent with the terms of the 2017 settlement agreement which requires, to the extent possible, consideration of multiplier effects.

The analysis of housing needs for off-site workers starts with the estimated rental rate for the new units and moves through a series of linkages from the estimated income of the household that rents the unit, the portion of income available for expenditures on goods and services, jobs associated with the purchase and delivery of those services, the income of the workers doing those jobs and, ultimately, the affordability level of the housing needed by the workers.

The number of jobs by industry that are generated from the household spending of residents living in the proposed Project is estimated using the IMPLAN (IMpact Analysis for PLANning) model, a model widely used to quantify the impacts of changes in a local economy. The number of jobs by industry is then used to estimate worker housing need by income level using the same approach as in Section 4.

### 5.1 Estimated Household Incomes of New Residents

The estimated household incomes of residents in the new market rate residential units are drawn from the analysis provided in Section 3.2. For BMR units, household income is estimated based on the mid-point of the income range that would qualify for a BMR unit. Household income figures are then multiplied by the number of units to estimate the aggregate household income for all residents of the proposed Project as shown in Table 5-1. Aggregate household income is used to estimate household spending, the input to the IMPLAN model that is used to quantify the number of off-site jobs associated with household spending of new residents.

	Estimated Household Income <sup>(1)</sup>			Number of Units			Aggregate Income
	BMR Very Low	BMR Moderate	Market Rate	BMR Very Low	BMR Moderate	Market Rate	
Studios	\$54,850	\$123,760	\$123,760	3	2	31	\$4,248,630
1-Bedrooms	\$62,675	\$148,360	\$148,360	5	1	43	\$6,841,215
2-Bedrooms	\$70,525	\$171,250	\$174,520	2	1	23	\$4,326,260
3-Bedrooms	\$78,325	\$205,500	\$234,920	0	0	1	\$234,920
Total				10	4	98	\$15,651,025
Average Per Household							\$139,741

(1) For market rate units, see Table 3-3. For BMR units, estimates are based on the mid-point of the applicable qualifying income range, limited to the estimated income applicable to market rate units.

## Income Available for Expenditures

The input into the IMPLAN model used in this analysis is the net income available for expenditures. To arrive at income available for expenditures, gross income must be adjusted for Federal and State income taxes, contributions to Social Security and Medicare, savings, and payments on household debt. Per KMA correspondence with the producers of the IMPLAN model (IMPLAN Group LLC), other taxes including sales tax and property tax are handled internally within the model as part of the analysis of expenditures. Payroll deduction for medical benefits and pre-tax medical expenditures are also handled internally within the model. Table 5-2 shows the calculation of the percentage of household income available for expenditures.

<b>Table 5-2. Percent of Income Available for Expenditures <sup>(1)</sup></b>	
Gross Income	100%
<u>Less:</u>	
Federal Income Taxes <sup>(2)</sup>	11%
State Income Taxes <sup>(3)</sup>	4%
FICA Tax Rate <sup>(4)</sup>	7.65%
Savings & other deductions <sup>(5)</sup>	<u>6.75%</u>
Subtotal deductions	29%
<b>Percent of Income Available for Expenditures<sup>(6)</sup></b>	
	<b>71%</b>

(1) Calculated as gross income after deduction of taxes and savings. Income available for expenditures is the input to the IMPLAN model which is used to estimate the resulting employment impacts. Housing costs are not deducted as part of this adjustment step because they are addressed separately as expenditures within the IMPLAN model.

(2) Reflects average tax rates (as opposed to marginal) based on U.S. Internal Revenue Services, Tax Statistics, Tables 1.2 and 2.1 for 2020. Tax rates reflect averages for applicable income range. Assumes standard deduction.

(3) Average tax rate estimated by KMA based on marginal rates per the California Franchise Tax Board and ratios of taxable income to gross income estimated based on U.S. Internal Revenue Service data.

(4) For Social Security and Medicare.

(5) Household savings including retirement accounts like 401k / IRA and other deductions such as interest costs on credit cards, auto loans, etc, necessary to determine the amount of income available for expenditures. The 6.75% rate used in the analysis is based on a 20 year average computed from U.S. Bureau of Economic Analysis data, specifically the National Income and Product Accounts, Table 2.1 "Personal Income and Its Disposition."

(6) Deductions from gross income to arrive at the income available for expenditures are consistent with the way the IMPLAN model and National Income and Product Accounts (NIPA) defines income available for personal consumption expenditures. Income taxes, contributions to Social Security and Medicare, and savings are deducted; however, property taxes and sales taxes are not. Housing costs are not deducted as part of the adjustment because they are addressed separately as expenditures within the IMPLAN model.

Income available for expenditures is estimated at approximately 71% of gross income. Federal tax rates are estimated at 11% of gross income based upon Internal Revenue Service data. State taxes are estimated to average 4% of gross income based on tax rates per the California Franchise Tax Board. The employee share of FICA payroll taxes for Social Security and

Medicare is 7.65% of gross income. A ceiling of \$168,600 per employee applies to the 6.3% Social Security portion of this tax rate.

Savings and repayment of household debt represent another necessary adjustment to gross income. Savings includes various IRA and 401 K type programs as well as non-retirement household savings and investments. Debt repayment includes auto loans, credit cards, and all other non-mortgage debt. Savings and repayment of debt are estimated to represent a combined 6.75% of gross income based on the 20-year average derived from United States Bureau of Economic Analysis data.

The percentage of income available for expenditure for input into the IMPLAN model is prior to deducting housing costs. The reason is for consistency with the IMPLAN model which defines housing costs as expenditures. The IMPLAN model addresses the fact that expenditures on housing do not generate employment to the degree other expenditures such as retail or restaurants do, but there is some maintenance and property management employment generated.

After deducting income taxes, Social Security, Medicare, savings, and repayment of debt, the estimated income available for expenditures is 71% of gross household.

Another adjustment made to spending is to account for standard operational vacancy in rental units of 5%, a level of vacancy considered average for rental units in a healthy market.

Table 5-3 presents the estimate of household income available for expenditures in the local economy after adjustments to income available for expenditures and vacancy:

<b>Table 5-3. Income Available for Expenditures</b>	
Aggregate Annual Household Income, New Residents	\$15,651,025
Percent Available for Expenditure (Table 5-2)	71%
Adjustment for 5% rental vacancy	95%
Aggregate Household Income Available	\$10,557,000

The estimated household income available for expenditure associated with the 112 new residential units is the input into the IMPLAN model.

## **5.2 The IMPLAN Model**

Consumer spending by residents of new housing units will create jobs, particularly in sectors such as restaurants, health care, and retail, which are closely connected to the expenditures of residents. The widely used economic analysis tool, IMPLAN, was used to quantify these new jobs by industry sector.

### **5.2.1 IMPLAN Model Description**

The IMPLAN model is an economic analysis software package now commercially available through the IMPLAN Group, LLC. IMPLAN was originally developed by the U.S. Forest Service, the Federal Emergency Management Agency, and the U.S. Department of the Interior Bureau of Land Management and has been in use since 1979 and refined over time. It has become a widely used tool for analyzing economic impacts for a broad range of applications from major construction projects to natural resource programs.

IMPLAN is based on an input-output accounting of commodity flows within an economy from producers to intermediate and final consumers. The model establishes a matrix of supply chain relationships between industries and also between households and the producers of household goods and services. Assumptions about the portion of inputs or supplies for a given industry likely to be met by local suppliers, and the portion supplied from outside the region or study area are derived internally within the model using data on the industrial structure of the region.

The output or result of the model is generated by tracking changes in purchases for final use (final demand) as they filter through the supply chain. Industries that produce goods and services for final demand or consumption must purchase inputs from other producers, which in turn, purchase goods and services. The model tracks these relationships through the economy to the point where leakages from the region stop the cycle. This allows the user to identify how a change in demand for one industry will affect a list of over 500 other industry sectors. The projected response of an economy to a change in final demand can be viewed in terms of economic output, employment, or income.

Data sets are available for each county and state, so the model can be tailored to the specific economic conditions of the region being analyzed. This analysis utilizes the data set for San Mateo County. As will be discussed, much of the employment impact is in local-serving sectors, such as retail, eating and drinking establishments, and medical services. It is likely that many off-site employment impacts will occur in Menlo Park and other nearby jurisdictions; however, employment impacts will also extend throughout the county and beyond based on where residents of the proposed Project will shop, dine, seek medical care and other services. Consistent with the approach taken in most residential affordable housing nexus analyses, the analysis includes job impacts throughout the county.

### **5.2.2 Application of the IMPLAN Model to Estimate Job Growth**

The IMPLAN model was applied to link income to household expenditures to job growth. The estimated annual household spending of the residents of the 112 new housing units is the input to the IMPLAN model. The IMPLAN model then distributes spending among various types of goods and services (industry sectors) based on data from the Consumer Expenditure Survey and the Bureau of Economic Analysis Benchmark input-output study, to estimate the number of off-site jobs.

Job creation, driven by increased demand for products and services, was projected for each of the industries that will serve the new households. A total of 43.5 off-site jobs are estimated to be generated by spending of the residents as summarized in Table 5-4. Estimates in Table 5-4 exclude on-site jobs in property management and maintenance of the residential units which are already considered as part of the Section 4 analysis.

<b>Table 5-4. Jobs Generated from Household Spending of Residents</b>	
Annual Household Expenditures	\$10,557,000
Estimated Number of Off-site Jobs	43.5

As households added to the City by the proposed Project are new and these new households result in net new demand for products and services, the jobs associated with delivery of these products and services are also estimated to be net new jobs. While there may be an ability for existing retail, health care facilities, restaurants, schools and other services to absorb a share of new demand to some extent, existing establishments will still require additional employees in many cases. For example, individual health care providers are only able to see so many patients in a day. Waiters and cooks in restaurants can only serve so many customers. Grocery stores may need to add staff at check-out lanes in response to added demand, and so on. Employment in sectors that serve residents tends to expand with population. As indicated in Section 5.2.3, the ratio between employment in resident-serving sectors of the economy and the number of housing units is relatively consistent at the city and county geographic scales, indicating resident-serving jobs tend to be proportionate to the number of housing units and population.

Table 5-5 provides a detailed breakdown of the employment by industry sorted by projected employment. The Consumer Expenditure Survey published by the Bureau of Labor Statistics tracks expenditure patterns by income level. IMPLAN utilizes this data to reflect the pattern by income bracket. Estimated employment is shown for each IMPLAN industry sector representing 1% or more of total employment. The jobs that are generated are heavily retail jobs, jobs in restaurants and other eating establishments, and in services that are provided locally such as health care.

**Table 5-5. Jobs Generated by Industry from Housing Spending [IMPLAN Output]**

<b>Industry Category</b>	<b>No. Jobs</b>	<b>Percent</b>
Full-service restaurants	2.9	7%
Limited-service restaurants	<u>0.4</u>	<u>1%</u>
Subtotal Restaurant	2.9	7%
Retail - Building material and garden equipment stores	0.3	1%
Retail - Clothing and clothing accessories stores	0.9	2%
Retail - Electronics and appliance stores	0.4	1%
Retail - Food and beverage stores	1.6	4%
Retail - Furniture and home furnishings stores	0.4	1%
Retail - Gasoline stores	0.2	1%
Retail - General merchandise stores	1.1	3%
Retail - Health and personal care stores	0.8	2%
Retail - Miscellaneous store retailers	0.8	2%
Retail - Clothing and accessories	0.4	1%
Retail - Nonstore retailers	0.6	1%
Retail - Sporting goods, hobby, musical and book stores	0.4	1%
Personal care services	<u>1.3</u>	<u>3%</u>
Subtotal Retail and Service	9.2	21%
Offices of dentists	0.9	2%
Offices of other health practitioners	1.3	3%
Outpatient care centers	0.6	1%
Offices of physicians	1.1	3%
Other ambulatory health care services	0.2	0%
Home health care services	1.1	3%
Hospitals	<u>1.3</u>	<u>3%</u>
Subtotal Healthcare	6.5	15%
Elementary and secondary schools	0.5	1%
Junior colleges, colleges, universities	0.3	1%
Other educational services	<u>0.4</u>	<u>1%</u>
Subtotal Education	1.2	3%
Individual and family services	2.0	5%
Other personal services	1.4	3%
Automotive repair and maintenance	1.0	2%
Child day care services	0.9	2%
Other financial investment activities	0.9	2%
Automotive repair and maintenance	0.6	1%
Religious organizations	0.5	1%
Fitness and recreational sports centers	0.4	1%
Transit and ground passenger transportation	0.4	1%
All Other	15.5	36%
<b>Total Number of Jobs Generated</b>	<b>43.5</b>	<b>100%</b>

Source: IMPLAN Group's economic model, IMPLAN, for San Mateo County.



### 5.2.3 Cross-Check Based on Existing Number of Resident-Serving Jobs

As context for the estimated number of off-site jobs and a secondary cross-check for reasonableness, Table 5-6 provides comparisons to the existing ratio of resident-serving jobs in sectors such as health care, retail, food service and education and the number of residential units within Menlo Park and San Mateo County. In Menlo Park, there are 7,401 existing jobs in resident-serving sectors based on data from the U.S. Census and 13,912 residential units based on data from the California Department of Finance. These figures translate to a ratio of approximately 60 resident-serving jobs for every 112 residential units<sup>12</sup>. The ratio for San Mateo County is similar at 55 resident-serving jobs for every 112 residential units. Based on existing relationships between resident-serving jobs and residential units for both the City and the County, estimates for the proposed Project appear reasonable.

<b>Table 5-6. Comparison to Existing City and County Relationships Between Number of Residential Units and Number of Jobs in Key Resident Serving Sectors.</b>					
	<i>Existing Jobs</i> <sup>(1)</sup>		<i>Jobs Per 112 Residential Units</i>		
	<b>City of Menlo Park</b>	<b>San Mateo County</b>	<b>Actual: City of Menlo Park</b> <sup>(4)</sup>	<b>Actual: San Mateo County</b> <sup>(4)</sup>	<b>Estimate for Proposed Project</b> <sup>(5)</sup>
<u>Key Resident-Serving Sectors</u>					
Health Care	2,448	41,590	19.7	16.2	8.7
Retail Trade	1,277	29,896	10.3	11.6	7.4
Food Service	1,299	27,484	10.5	10.7	6.5
Education	1,230	24,353	9.9	9.5	1.8
Other Services <sup>(2)</sup>	866	12,686	7.0	4.9	7.9
Arts, Entertainment, and Recreation	281	4,567	2.3	1.8	1.3
Subtotal Resident-Serving	7,401	140,576	<b>60</b>	<b>55</b>	<b>34</b>
Other Sectors	49,812	261,243	401	102	12
Total All Sectors	57,213	401,819	461	156	46
Number of Residential Units <sup>(3)</sup>	13,912	287,967			

(1) U.S. Census Longitudinal Employer-Household Dynamics, 2020 data for workplace geography.

(2) Includes a broad range of services from auto repair, to dry cleaning, to religious organizations.

(3) Number of housing units as of January 1, 2023 per California Department of Finance Table E-5, Population and Housing Estimates for Cities, Counties, and the State, 2021-2023 with 2020 Census Benchmark.

(4) Calculated by dividing the total number of jobs by the number of residential units and multiplying by 112 units.

(5) For comparison purposes, figures are prior to adjustment to remove jobs included in on-site totals

Note: The number of jobs by industry from the HNA have been aggregated by major industry category to allow ready comparison to actual existing jobs in the City of Menlo Park and in San Mateo County.

<sup>12</sup> Calculated as 7,401 jobs divided by 13,912 residential units and multiplied by 112 units. This 112-unit figure is selected for ready comparison to the proposed Project.

### 5.3 Analysis of Housing Need by Income

This section presents a summary of the analysis linking the number of off-site jobs associated with the new residential units to the estimated number of housing units required in each of six income categories. The analysis is based on the same methodology as Section 4 and consists of the following analysis steps.

#### **Step 1 – Adjustment from Employees to Employee Households**

This step (Table 5-7) converts the number of employees identified in Table 5-5 to the number of employee households, recognizing that there is, on average, more than one worker per household, and thus the number of housing units in demand for new workers is reduced. The workers-per-worker-household ratio eliminates from the equation all non-working households, such as retired persons and students. The San Mateo County average of 1.86 workers per worker household derived from the U. S. Census Bureau 2018-2022 American Community Survey is used for this step in the analysis, consistent with Section 4. The estimated 43.5 off-site jobs is divided by 1.86 to estimate the number of worker households of 23.

Table 5-7. Estimated Net Change in On-Site Employee Households	
Off-Site Jobs in Services to New Residents	43.5
Number Employee Households - Off-site workers (at 1.86 workers per household) <sup>(1)</sup>	23.4

*(1) Derived from 2018-2022 U.S. Census American Community Survey data for San Mateo County*

#### **Step 2 – Occupational Distribution of Employees**

The occupational breakdown of employees is the first step to arrive at income level. The output from the IMPLAN model provides the number of employees by industry sector, shown in Table 5-5. The IMPLAN output is then paired with data from the Department of Labor, Bureau of Labor Statistics Occupational Employment Survey (OES) to estimate the occupational composition of employees for each industry sector. As shown in Table 5-8, new jobs will be distributed across a variety of occupational categories. The three largest occupational categories are sales and related (13.8%), office and administrative support (12.6%), and food preparation and serving (13.4%). Table 5-8 indicates the percentage and number of employee households by occupation for off-site workers.

**Table 5-8. Worker Households by Occupation - Jobs in Off-Site Services to New Residential Units**

<b>Occupation Category</b>	<b>Number of Worker Households</b>	<b>% of Jobs</b>
Management Occupations	1.0	4.1%
Business and Financial	1.0	4.3%
Computer and Mathematical	0.3	1.3%
Architecture and Engineering	0.0	0.2%
Sciences	0.1	0.4%
Community & Social Services	0.5	2.1%
Legal	0.2	0.7%
Education, and Library	0.7	3.2%
Arts, Design, Entertainment	0.3	1.4%
Healthcare Practitioners	2.0	8.3%
Healthcare Support	2.3	9.7%
Protective Service	0.1	0.6%
Food Prep and Serving	3.1	13.4%
Building and Grounds.	0.5	2.3%
Personal Care and Service	1.5	6.4%
Sales and Related	3.2	13.8%
Office and Admin Support	3.0	12.6%
Farming, Fishing, Forestry	0.0	0.1%
Construction and Extraction	0.2	0.8%
Installation, Maint. and Repair	0.8	3.5%
Production	0.4	1.6%
Transportation	2.2	9.3%
<b>Totals</b>	<b>23.4</b>	<b>100.0%</b>

See Appendix Tables 1 and 2 for additional detail.

### ***Step 3 – Estimates of Employee Households by Income***

In this step, occupations are translated to employee incomes based on recent wage and salary information for workers in San Mateo County from the BLS Occupational Employment Survey as updated to reflect 2023 wage levels by the California Employment Development Department (EDD). The wage and salary information summarized in Appendix A Table 2 provided the income inputs to the analysis.

For each occupational category shown in Table 5-8, the OES data provides a distribution of specific occupations within the category. For example, within the Food Preparation and Serving Category, there are Supervisors, Cooks, Bartenders, Waiters and Waitresses, Dishwashers, etc. In total, there are approximately 100 detailed occupation categories included in the analysis, as shown in Appendix A Table 2. Each of these occupation categories has a different distribution of wages, which was obtained from EDD and is specific to workers in the County as of 2023.

Household incomes are estimated from employee incomes using the same ratios between individual employee income and household income derived from U.S. Census data that are applied in Section 4, presented in Table 4-5.

Estimated household incomes are compared to the income criteria shown in Table 2-2 to determine the percentage that qualify within each income category for each potential household size/number of workers combination.

#### ***Step 4 – Distribution of Household Size and Number of Workers***

In this step, we account for the distribution in household sizes and number of workers using local data obtained from the U.S. Census. 2018-2022 ACS data is used to develop a set of percentage factors representing the distribution of household sizes and number of workers within working households. The percentage factors are the same as used in Section 4 and presented in Table 4-4. Application of these percentage factors accounts for the following:

- Households have a range in size and a range in the number of workers.
- Large households generally have more workers than smaller households.

The result of this step is a distribution of working households by number of workers and household size.

#### ***Step 5 – Estimate of Number of Households that Meet Size and Income Criteria***

Step 5 is the final step to calculate the number of worker households meeting the size and income criteria for the five affordability tiers. The calculation combines the results from Step 3 on percentage of worker households that would meet the income criteria at each potential household size / number of workers combination, with Step 4, the percentage of worker household having a given household size / number of workers combination. The result is the percent of households that fall into each affordability tier. The percentages are then multiplied by the number of households from Step 1 to arrive at number of households in each affordability tier.

Tables 5-9 presents the resulting estimates of the number of households within each income category by worker occupation category.

**Table 5-9. Employee Households By Occupation And Income (Steps 4, 5, And 6) for Workers In Off-Site Services To New Residents**

	Extremely Low	Very Low	Low	Moderate	Above Moderate	Over 150% AMI	Total
Management	0.0	0.0	0.1	0.2	0.1	0.5	1.0
Business and Financial Operations	0.0	0.1	0.2	0.3	0.1	0.3	1.0
Computer and Mathematical	-	-	-	-	-	-	-
Architecture and Engineering	-	-	-	-	-	-	-
Life, Physical and Social Science	-	-	-	-	-	-	-
Community and Social Services	-	-	-	-	-	-	-
Legal	-	-	-	-	-	-	-
Education Training and Library	0.1	0.1	0.2	0.3	0.0	0.0	0.7
Arts, Design, Entertainment, Sports, & Media	-	-	-	-	-	-	-
Healthcare Practitioners and Technical	0.0	0.1	0.2	0.5	0.2	0.9	2.0
Healthcare Support	0.5	0.3	0.9	0.5	0.1	0.0	2.3
Protective Service	-	-	-	-	-	-	-
Food Preparation and Serving Related	0.9	0.2	1.1	0.9	0.0	0.0	3.1
Building Grounds and Maintenance	0.1	0.1	0.1	0.2	0.0	0.0	0.5
Personal Care and Service	0.3	0.2	0.5	0.4	0.0	0.0	1.5
Sales and Related	0.7	0.3	0.9	1.1	0.1	0.1	3.2
Office and Admin	0.3	0.6	0.6	1.2	0.2	0.1	3.0
Farm, Fishing, and Forestry	-	-	-	-	-	-	-
Construction and Extraction	-	-	-	-	-	-	-
Installation Maintenance and Repair	0.0	0.2	0.2	0.3	0.1	0.0	0.8
Production	-	-	-	-	-	-	-
Transportation and Material Moving	0.4	0.3	0.6	0.7	0.1	0.0	2.2
Households: Major Occupations	3.3	2.4	5.7	6.6	1.1	2.2	21.3
Households: all other occupations <sup>(2)</sup>	0.3	0.2	0.6	0.7	0.1	0.2	2.1
<b>Total Households</b>	<b>3.6</b>	<b>2.7</b>	<b>6.3</b>	<b>7.3</b>	<b>1.2</b>	<b>2.4</b>	<b>23.4</b>
<b>Rounded</b>	<b>4.0</b>	<b>3.0</b>	<b>6.0</b>	<b>7.0</b>	<b>1.0</b>	<b>2.0</b>	<b>23.0</b>

#### 5.4 Summary of Housing Need by Income, Off-site Workers

Table 5-10 summarizes the demand for housing by workers in off-site services to the 112 new residential units by income category.

**Table 5-10. Estimated Off-Site Employee Households by Income**

	Extremely Low	Very Low	Low	Moderate	Above Moderate	Over 150% AMI	Total
Worker Households by Income	4	3	6	7	1	2	23

As shown in Table 5-10, the 112 residential units are estimated to create a demand for an additional 23 housing units for off-site workers in services such as retail, restaurants, and education. Housing demand for new off-site workers is distributed across the income tiers with the greatest number of households in the Low and Moderate Income categories. The finding that the jobs associated with consumer spending tend to be low-paying jobs where the workers will require housing affordable at the lower income levels is not surprising. As noted above, consumer spending results in employment that is concentrated in lower paid occupations including food preparation, administrative, and retail sales.

## 6.0 NET IMPACT ON HOUSING AVAILABILITY

This section combines the findings of the prior three sections to estimate the net impact on housing availability from the proposed Project by income. Net impacts on housing availability represent the combined housing supply and demand effects of the proposed Project including from:

- Added housing supply (Section 3);
- Reduced housing demand from removal of existing on-site jobs (Section 4);
- Added housing demand from new on-site jobs (Section 4); and
- Added housing demand from jobs in off-site services to new residential units (Section 5).

Additions to housing supply are considered increases in housing availability. Reductions in housing demand are also considered to *increase* housing availability because this makes existing units available; conversely, increases in housing demand are considered as reducing housing availability.

Section 6.1 addresses total housing availability impacts regardless of location. Section 6.2 provides an estimate specific to impacts occurring within Menlo Park.

### 6.1 Net Impact on Housing Availability Regionally

The proposed Project is estimated to increase the number of available housing units by 112 units as shown in Table 6-1. This estimate reflects the combined effect of:

- Adding 112 new residential units to the housing supply.
- A 25-unit increase in housing availability from removal of existing on-site jobs, which removes existing worker housing demand.
- A two-unit decrease in housing availability due to added housing demand from new on-site workers.
- A 23-unit decrease in housing availability due to added housing demand by off-site workers who provide services to residents of the proposed Project.

<b>Table 6-1. Estimated Net Impact of Project on Housing Availability</b>	
1. Increase in available housing from construction of new units (Section 3)	112 Units
2. Increase in available housing from removal of existing on-site jobs, which reduces worker housing demand (Section 4)	25 Units
3. Decrease in available housing from increase in housing demand by new on-site workers (Section 4)	(2 Units)
4. Decrease in available housing from increase in housing demand by off-site workers in services to new residents (Section 5)	(23 Units)
<b>Net Increase in Available Housing</b>	<b>112 Units</b>

Table 6-2 provides a breakout of the housing availability findings by income category. As shown, the 112-unit net increase in housing availability consists of eight Very Low, 100 Moderate, two Above Moderate and seven Over 150% AMI units. Increased housing availability in the Very Low, Moderate, Above Moderate and Over 150% AMI categories is offset by decreases within the Extremely Low and Low categories of three units and two units, respectively, as a result of added housing demand from on- and off-site workers that exceeds added housing availability from construction of new units and removal of on-site jobs within these income categories.

<b>Table 6-2. Net Impacts on Housing Availability by Income Category</b>							
	<b>Extremely Low</b>	<b>Very Low</b>	<b>Low</b>	<b>Moderate</b>	<b>Above Moderate</b>	<b>Over 150% AMI</b>	<b>Total</b>
1. Increase in available housing from construction of new units	0	10	0	101	1	0	112
2. Increase in available housing from removal of existing on-site jobs, which reduces worker housing demand	1	2	4	7	2	9	25
3. Decrease in available housing from increase in housing demand by new on-site workers	0	(1)	0	(1)	0	0	(2)
4. Decrease in available housing from increase in housing demand by off-site workers in services to new residents	(4)	(3)	(6)	(7)	(1)	(2)	(23)
<b>Net Increase in Housing Availability <sup>(1)</sup></b>	<b>(3)</b>	<b>8</b>	<b>(2)</b>	<b>100</b>	<b>2</b>	<b>7</b>	<b>112</b>

(1) Negative figures represent a net increase in housing demand that is not offset by added housing supply.

## 6.2 Menlo Park Share of Impact on Housing Supply and Housing Demand

KMA estimated the share of impacts on housing supply and housing demand that would occur within the City of Menlo Park. Estimates represent an allocation of the total housing availability impacts presented in Table 6-2 based on where housing units included in the proposed Project will be constructed (in Menlo Park) and where workers will live (a share in Menlo Park and a share outside of Menlo Park). Two scenarios are presented regarding the share of workers who will seek and find housing within the City of Menlo Park:

- A. Current Commute Share (5.7%)** – the “Current Commute Share” scenario is based on the existing 5.7% share of Menlo Park workers who live in the City. Section 6.3 provides additional discussion of the existing commute share.
- B. Increased Commute Share (20%)** – the “Increased Commute Share” scenario assumes 20% of new workers are housed within the City consistent with an assumption used in the City’s 2000 commercial linkage fee nexus study<sup>13</sup> (2000 Nexus Study). The 20% commute share assumption from the 2000 Nexus Study reflects a goal of housing a larger share of the City’s workforce. This scenario is included for informational purposes in response to interest expressed by the City Council in improving the jobs housing balance and obtaining data to inform the goal of increasing the number of workers who live and work in Menlo Park.

The 5.7% and 20% commute shares described above are applied to estimate the number of on- and off-site employees that will live in Menlo Park.

The analysis under the two commute scenarios is described below.

### *A. Current Commute Share Scenario*

The analysis of housing availability impacts within Menlo Park under the Current Commute Share scenario reflects the following allocation of total regional impacts identified in Section 6.1:

- (1) All residential units added by the proposed Project are in the City of Menlo Park; therefore, all 112 units are identified as additional housing supply in Menlo Park.
- (2) One of 25 total units of added housing availability from removal of on-site jobs is estimated to be within Menlo Park based on the existing 5.7% share of Menlo Park workers who live in the City. This one unit of additional housing availability is estimated to be within the Over 150% AMI Income category.

---

<sup>13</sup> Commercial Linkage Fee Nexus Study prepared for the City of Menlo Park by Vernazza Wolfe Associates, Inc. dated September 2000.



(3) None of the two total units of additional housing need for new on-site workers is estimated to be within Menlo Park based on the existing 5.7% share of Menlo Park workers who live in the City. Applying the 5.7% factor to the findings by income level from Table 6-2 yields a fraction of a unit that rounds to zero.

(4) One of the 23 total units of additional housing need for off-site workers is estimated to be within Menlo Park based on the existing 5.7% share of Menlo Park workers who live in the City. This one unit of additional housing need is estimated to be within the Moderate Income category.

In summary, with the Current Commute Share scenario, the estimated net increase in housing availability in Menlo Park is 112 units based on the 112 new housing units constructed in Menlo Park, one unit of increased housing availability from removal of on-site jobs, minus one unit of added housing demand from new off-site workers.

Table 6-3 presents the findings by income level. As shown, the estimated 112-unit net increase in housing availability in Menlo Park consists of 10 Very Low, 100 Moderate, one Above Moderate, and one Over 150% AMI unit.

Table 6-3. Estimated Menlo Park Share of Net Impacts on Housing Demand and Housing Supply								
	Basis for Allocation to Menlo Park	Extremely Low	Very Low	Low	Moderate	Above Moderate	Over 150% AMI	Total
1. Increase in available housing from construction of new units	<i>all units are in Menlo Park</i>	-	10	-	101	1	-	112
2. Increase in available housing from removal of existing on-site jobs, which reduces worker housing demand	<i>Based on 5.7% Menlo Park commute share</i>	-	-	-	-	-	1	1
3. Decrease in available housing from increase in housing demand by new on-site workers	<i>Based on 5.7% Menlo Park commute share</i>	-	-	-	-	-	-	-
4. Decrease in available housing from increase in housing demand by off-site workers in services to new residents	<i>Based on 5.7% Menlo Park commute share</i>	-	-	-	(1)	-	-	(1)
<b>Menlo Park Share of Net Increase in Housing Availability</b>		-	10	-	100	1	1	112

## B. Increased Commute Share Scenario

The Increased Commute Share scenario is based on the City's 2000 Nexus Study which incorporated a commute share assumption of 20%. This 20% commute share assumption reflects a goal to house a larger share of the City's workforce locally that was approximately double the 10% commute share for Menlo Park as of the time the Nexus Study was prepared<sup>14</sup>. As stated in the 2000 Nexus Study:

*Using a relatively higher number provides a goal for the City to achieve. Although inflated housing prices in the 1990's have resulted in a decrease in the percentage of Menlo Park workers who can afford to live in Menlo Park, the City's goal is to encourage local workers to live in Menlo Park in order to achieve a better jobs/housing balance.*

This Increased Commute Share scenario provides additional information regarding how analysis findings would vary were the City to seek to house 20% of the added workforce locally consistent with the goal identified in the 2000 Nexus Study.

With the Increased Commute Share scenario, application of the 20% goal-based commute share results in allocation of five out of 25 units of added housing available from removal of existing employee housing demand and five of the 23 units of additional housing need for off-site workers to Menlo Park, rather than one unit each with the Current Commute Share scenario. In total, with the Increased Commute Share scenario, the estimated net increase in housing availability in Menlo Park is 112 units, consisting of 112 new housing units constructed in Menlo Park plus five units of added housing availability from removal of on-site jobs minus five units of new housing demand in Menlo Park from on- and off-site workers.

Table 6-4 presents the findings by income level for the Increased Commute Share. As shown, the estimated 112-unit net increase in housing availability in Menlo Park with the Increased Commute Share consists of nine Very Low, 100 Moderate, two Above Moderate and two Over 150% AMI units, offset by a net decrease of one unit of housing availability within the Extremely Low Income category.

---

<sup>14</sup> Per the 1990 Census, Menlo Park's commute share was 10% based on a total number working in Menlo Park of 26,048 of which 2,662 lived in Menlo Park. Figures do not include those who work out of their homes rather than commute to a separate workplace. The 1990 Census was the most recent data available at the time the 2000 Nexus Study was prepared as the 2000 Census data was not yet released. The 2000 Nexus Study references a separate factor of 23%, also as of 1990, which is not comparable to the 10% commute share in 1990. This 23% factor represents the share of Menlo Park *employed residents* (residents who are employed) who work in Menlo Park versus commute out of Menlo Park to a job located in another city.

Table 6-4. Estimated Menlo Park Share of Net Impacts on Housing Demand and Housing Supply								
	Basis for allocation to Menlo Park	Extremely Low	Very Low	Low	Moderate	Above Moderate	Over 150% AMI	Total
1. Increase in available housing from construction of new units	<i>all units are in Menlo Park</i>	-	10	-	101	1	-	112
2. Increase in available housing from removal of existing on-site jobs, which reduces worker housing demand	<i>2000 Nexus Goal-Based Menlo Park commute share of 20%</i>	-	-	1	1	1	2	5
3. Decrease in available housing from increase in housing demand by new on-site workers	<i>2000 Nexus Goal-Based Menlo Park commute share of 20%</i>	-	-	-	-	-	-	-
4. Decrease in available housing from increase in housing demand by off-site workers in services to new residents	<i>2000 Nexus Goal-Based Menlo Park commute share of 20%</i>	(1)	(1)	(1)	(2)	-	-	(5)
<b>Menlo Park Share of Net Increase in Housing Availability</b>		(1)	9	-	100	2	2	112

### 6.3 Additional Discussion of Commute Share

The share of new on- and off-site workers who will live in Menlo Park is estimated based on a commute share of 5.7% in the Current Commute Share scenario. This percentage is derived from the U.S. Census 2018-2022 American Community Survey and reflects the existing share of those working in Menlo Park who also live in Menlo Park, excluding those who work at home. The remaining 94.3% of the workforce commutes in from outside of the City.

Use of the existing commute share specific to the City of Menlo Park may overstate the share of off-site workers likely to live in Menlo Park as some jobs in off-site services to new residents such as retail, medical care, and restaurants may be in nearby cities rather than in Menlo Park. For those who work in nearby cities, the propensity to live in Menlo Park is expected to be less than the 5.7% commute share for Menlo Park workers<sup>15</sup>.

The existing percentage of workers commuting from other jurisdictions to Menlo Park is attributable to a number of factors including the supply of housing relative to the number of jobs

<sup>15</sup> For example, around 3.9% of those who work in Palo Alto live in Menlo Park based on data from the American Community Survey, lower than the 5.7% share for Menlo Park workers.

and the high cost of housing in Menlo Park. Although many factors influence housing decisions, because the number of workers that both live and work in Menlo Park is so low and the cost of housing is high, it is possible that the 5.7% does not reflect the proportion of workers who would live in Menlo Park if they could find housing and could afford it. The share of the workforce that lives in Menlo Park has also been declining over time from 10% in 1990 to 7% as of the 2000 Census to 5.7% per the 2018-2022 ACS. Workers most everywhere tend to commute more in recent years than in the past and, in addition, Menlo Park has become less affordable over time. The possibility that availability and affordability of housing have contributed to a downward trend in Menlo Park's commute share is the primary reason for including the separate goal-based Increased Commute Share scenario.

Construction of new housing can be expected to contribute toward increasing the number of workers that live locally by providing additional housing opportunities in Menlo Park. The 112-unit size of the proposed Project represents an approximately 0.8% increase in the size of the City's existing housing stock of 13,912 units<sup>16</sup>. While the number of units added is small relative to the larger workforce of over 30,000, the proposed Project can be expected to contribute incrementally to housing a greater number of workers locally.

---

<sup>16</sup> Number of housing units as of January 1, 2023 per California Department of Finance Table E-5, Population and Housing Estimates for Cities, Counties, and the State, 2021-2023 with 2020 Census Benchmark.

## 7.0 DISPLACEMENT ANALYSIS

This section provides a discussion of the potential for the proposed Project to contribute to displacement of existing residents and neighborhood change in two proximate communities known to be vulnerable to displacement, the City of East Palo Alto (East Palo Alto) and the Belle Haven neighborhood of Menlo Park (Belle Haven). Given the complex array of factors that influence housing markets and neighborhood change, precise estimates or projections of outcomes are not feasible; instead, a qualitative discussion of the potential for the proposed Project to impact displacement is provided.

### *Location of Proposed Project Relative to Belle Haven and East Palo Alto*

The aerial image below shows the location of the proposed Project relative to Belle Haven and East Palo Alto. The proposed Project is located within Menlo Park's Bayfront Area. Belle Haven is a residential neighborhood located to the east of the Project site generally bounded by U.S. 101, Willow Road and a railroad right-of-way, outlined in red on the aerial image below. East Palo Alto is just to the east of Belle Haven across Willow Road.

### **Proposed Project, Belle Haven and East Palo Alto Location**



Source: Google Earth

## 7.1 Displacement and Risk of Displacement in East Palo Alto and Belle Haven

Displacement occurs when housing or neighborhood conditions force existing residents to move, or households feel like their move is involuntary. Displacement can be caused by a range of physical, economic and social factors including but not limited to foreclosure, condominium conversion, building deterioration or condemnation, increased taxes, natural disasters, eminent domain, and increases in housing costs<sup>17, 18, 19</sup>. The HNA is focused on economic drivers of displacement, specifically the potential for the proposed Project to affect the local housing market and housing costs.

Lower income communities in the Bay Area have become increasingly vulnerable to displacement of existing residents. Employment growth, constrained housing production, and rising income inequality are among the factors that have contributed to increased displacement pressures, especially within lower income communities in locations accessible to employment centers where many households are housing-cost burdened.

East Palo Alto and Belle Haven both have existing risk factors for displacement. Both have a relatively lower-income existing population that includes a high percentage of households who spend 35% or more of their income on housing. East Palo Alto's rent control and just cause eviction ordinance provides significant protection to existing renters within multi-family buildings built prior to 1988 but does not preclude the potential for longer-term neighborhood change. The Urban Displacement Project,<sup>20</sup> an initiative of UC Berkeley "aimed at understanding the nature of gentrification and displacement in the Bay Area" has identified the Belle Haven census tract and census tracts within East Palo Alto as areas experiencing "ongoing gentrification and/or displacement" or "at risk of displacement." A separate analysis by the Urban Displacement Project<sup>21</sup> indicates that, despite risk factors for displacement, East Palo Alto had not experienced significant gentrification during the 2000 to 2013 period, potentially due to policies aimed at preventing displacement including rent control and just cause eviction protections.

A recent study by UC Berkeley's Center for Community Innovation and its Y-PLAN initiative, titled *Investment and Disinvestment as Neighbors: A Study of Baseline Housing Conditions in the Bay Area Peninsula*, provided an assessment of the baseline housing conditions in the Belle

---

<sup>17</sup> Zuk, M. et. al. 2017. Gentrification, Displacement, and the Role of Public Investment. *Journal of Planning Literature*. *Journal of Planning Literature* 1-14.

<sup>18</sup> Center for Community Innovation (2020). *Investment and Disinvestment as Neighbors, A Study of Baseline Housing Conditions in the Bay Area Peninsula*.

<sup>19</sup> Bradshaw, K. (2019). *Uneven Ground: How unequal land use harms communities in southern San Mateo County*. Palo Alto Online. <https://paloaltoonline.atavist.com/uneven-ground>.

<sup>20</sup> Zuk, M., & Chapple, K. (2019). *Urban Displacement Project*. <http://www.urbandisplacement.org/>

<sup>21</sup> Crispell, M, Harris L.R., and Cespedes S. March 2016. *San Mateo County's East Palo Alto*. Urban Displacement Project.

Haven neighborhood, City of East Palo Alto, and North Fair Oaks neighborhood (unincorporated San Mateo County). The study found indications of recent changes including increased population turnover, declining school age population, and an increase in homelessness. The study also identified a high incidence of rent burdened households and disproportionate pressure on the local housing market compared to the rest of San Mateo County. The study found more signs of disinvestment in East Palo Alto and more indications of real estate speculation in Belle Haven<sup>22</sup>.

## 7.2 Potential for Proposed Project to Contribute to Displacement

The following outlines factors considered in the evaluation of whether the proposed Project could have an influence on displacement in East Palo Alto and Belle Haven:

- (1) The proposed Project adds 112 new units to the housing supply, including 14 BMR units, 97 market rate units estimated to be affordable to Moderate Income households, and one market rate unit estimated to be affordable to Above Moderate Income, which will make additional housing opportunities available in a very competitive housing market.
- (2) The proposed Project results in an estimated net increase in housing availability of 112 units, as described in Section 6.1, considering the 112 new units constructed and no net change in worker housing demand.
- (3) The proposed Project is located in an area geographically separate from both Belle Haven and East Palo Alto and will not physically alter either community.
- (4) The 112 new units in the proposed Project equate to an approximately 0.8% increase in the existing 13,912-unit Menlo Park housing stock<sup>23</sup> and a 0.04% increase in the 287,967-unit housing stock of San Mateo County.
- (5) Several recent studies have explored the effects of new market rate housing development on housing costs and displacement pressures within the immediate vicinity of new housing development<sup>24</sup>. The studies found that new residential development has

---

<sup>22</sup> Center for Community Innovation. (2020). Investment and Disinvestment as Neighbors, A Study of Baseline Housing Conditions in the Bay Area Peninsula.

<sup>23</sup> Number of housing units as of January 1, 2023 per California Department of Finance Table E-5, Population and Housing Estimates for Cities, Counties, and the State, 2021-2023 with 2020 Census Benchmark.

<sup>24</sup> Asquith, Brian J., Evan Mast, and Davin Reed. 2019. "Supply Shock Versus Demand Shock: The Local Effects of New Housing in Low-Income Areas." Upjohn Institute Working Paper 19-316. W. E. Upjohn Institute for Employment Research. <https://doi.org/10.17848/wp19-316>

moderating effects on rents and displacement pressures at the local level. New residential developments were found to decrease rents in the area surrounding the new housing either in absolute terms or relative to market trend.

In consideration of the above factors, the proposed Project is not anticipated to contribute to displacement in East Palo Alto or Belle Haven. The proposed Project increases availability of market rate and affordable housing, which will tend to moderate or counteract displacement pressures by relieving, to some extent, market pressures on the existing local housing stock.

---

Damiano, Anthony, Frenier, Chris. 2020. "Build Baby Build?: Housing Submarkets and the Effects of New Construction on Existing Rents" University of Minnesota CURA Center for Urban and Regional Affairs. <https://www.tonydamiano.com/project/new-con/bbb-wp.pdf>

Li, Xiaodi. 2019. "Do New Housing Units in Your Backyard Raise Your Rents?" NYU Wagner and NYU Furman Center. [https://72187189-93c1-48bc-b596-fc36f4606599.filesusr.com/ugd/7fc2bf\\_2fc84967cfb945a69a4df7baf8a4c387.pdf](https://72187189-93c1-48bc-b596-fc36f4606599.filesusr.com/ugd/7fc2bf_2fc84967cfb945a69a4df7baf8a4c387.pdf)

Mast, Evan. 2019. "The Effect of New Market-Rate Housing Construction on the Low-Income Housing Market" Upjohn Institute Working Paper 19-307 W. E. Upjohn Institute for Employment Research. [https://research.upjohn.org/cgi/viewcontent.cgi?article=1325&context=up\\_workingpapers](https://research.upjohn.org/cgi/viewcontent.cgi?article=1325&context=up_workingpapers)

Pennington, Kate. 2021. "Does Building New Housing Cause Displacement?: The Supply and Demand Effects of Construction in San Francisco." Department of Agricultural and Resource Economics, University of California, Berkeley. [https://www.dropbox.com/s/oplls6utgf7z6ih/Pennington\\_JMP.pdf?dl=0](https://www.dropbox.com/s/oplls6utgf7z6ih/Pennington_JMP.pdf?dl=0)

Phillips, Shane, Manville, Michael, Lens Michael. 2021. "Research Roundup: The Effect of Market-Rate Development on Neighborhood Rents" UCLA Lewis Center for Regional Policy Studies. <https://www.lewis.ucla.edu/research/market-rate-development-impacts/>



## **APPENDIX A – WORKER OCCUPATIONS AND COMPENSATION LEVELS**

---

**APPENDIX A TABLE 1  
 WORKER OCCUPATION DISTRIBUTION, 2022  
 SERVICES TO HOUSEHOLDS EARNING \$100 - \$150K  
 HOUSING NEEDS ASSESSMENT - 3705 HAVEN AVENUE PROJECT  
 MENLO PARK, CA**

---

<b>Worker Occupation Distribution<sup>1</sup>          Services to Households Earning \$100,000          to \$150,000</b>
---

**Major Occupations (2% or more)**

Management Occupations	4.0%
Business and Financial Operations Occupations	4.2%
Educational Instruction and Library Occupations	3.1%
Healthcare Practitioners and Technical Occupations	8.1%
Healthcare Support Occupations	9.5%
Food Preparation and Serving Related Occupations	13.0%
Building and Grounds Cleaning and Maintenance Occupations	2.2%
Personal Care and Service Occupations	6.2%
Sales and Related Occupations	13.4%
Office and Administrative Support Occupations	12.3%
Installation, Maintenance, and Repair Occupations	3.4%
Transportation and Material Moving Occupations	9.0%
All Other Worker Occupations - Services to Households Earning \$100,000 to \$150,000	<u>11.6%</u>
<b>INDUSTRY TOTAL</b>	100.0%

---

<sup>1</sup> Distribution of employment by industry is per the IMPLAN model and the distribution of occupational employment within those industries is based on the Bureau of Labor Statistics Occupational Employment Survey.

APPENDIX A TABLE 2  
AVERAGE ANNUAL WORKER COMPENSATION  
SERVICES TO HOUSEHOLDS EARNING \$100,000 TO \$150,000  
HOUSING NEEDS ASSESSMENT - 3705 HAVEN AVENUE PROJECT  
MENLO PARK, CA

Occupation <sup>3</sup>	2023 Avg. Compensation <sup>1</sup>	% of Total Occupation Group <sup>2</sup>	% of Total No. of Service Workers
<b>Page 1 of 4</b>			
<i>Management Occupations</i>			
General and Operations Managers	\$185,700	38.7%	1.5%
Sales Managers	\$205,600	4.9%	0.2%
Administrative Services and Facilities Managers	\$134,400	3.2%	0.1%
Computer and Information Systems Managers	\$245,000	3.2%	0.1%
Financial Managers	\$241,900	9.2%	0.4%
Food Service Managers	\$77,300	5.4%	0.2%
Medical and Health Services Managers	\$186,800	8.3%	0.3%
Social and Community Service Managers	\$95,400	3.9%	0.2%
Personal Service and Entertainment and Recreation Managers	\$180,900	3.9%	0.2%
All other Management Occupations (Avg. All Categories)	<u>\$182,000</u>	<u>19.3%</u>	<u>0.8%</u>
	<b>Weighted Mean Annual Wage</b>	<b>\$182,000</b>	<b>100.0%</b>
<i>Business and Financial Operations Occupations</i>			
Human Resources Specialists	\$111,900	5.8%	0.2%
Management Analysts	\$133,100	5.3%	0.2%
Training and Development Specialists	\$95,300	3.7%	0.2%
Market Research Analysts and Marketing Specialists	\$110,700	8.0%	0.3%
Project Management and Business Operations Specialists	\$101,400	10.3%	0.4%
Accountants and Auditors	\$115,300	16.7%	0.7%
Personal Financial Advisors	\$183,200	11.0%	0.5%
Loan Officers	\$102,700	5.6%	0.2%
Financial, Investment, and Risk Specialists	\$130,200	10.6%	0.4%
All Other Business and Financial Operations Occupations (Avg. All Categories)	<u>\$123,800</u>	<u>23.0%</u>	<u>1.0%</u>
	<b>Weighted Mean Annual Wage</b>	<b>\$123,800</b>	<b>100.0%</b>
<i>Educational Instruction and Library Occupations</i>			
Preschool Teachers, Except Special Education	\$57,900	26.7%	0.8%
Elementary School Teachers, Except Special Education	\$98,600	7.1%	0.2%
Secondary School Teachers	\$96,600	4.9%	0.2%
Self-Enrichment Teachers	\$66,300	9.3%	0.3%
Substitute Teachers, Short-Term	\$60,600	3.7%	0.1%
Tutors and Teachers and Instructors, All Other*	\$45,600	5.8%	0.2%
Teaching Assistants, Except Postsecondary*	\$47,300	18.7%	0.6%
All Other Educational Instruction and Library Occupations (Avg. All Categories)	<u>\$61,800</u>	<u>23.7%</u>	<u>0.7%</u>
	<b>Weighted Mean Annual Wage</b>	<b>\$61,800</b>	<b>100.0%</b>

APPENDIX A TABLE 2  
 AVERAGE ANNUAL WORKER COMPENSATION  
 SERVICES TO HOUSEHOLDS EARNING \$100,000 TO \$150,000  
 HOUSING NEEDS ASSESSMENT - 3705 HAVEN AVENUE PROJECT  
 MENLO PARK, CA

Occupation <sup>3</sup>	2023 Avg. Compensation <sup>1</sup>	% of Total Occupation Group <sup>2</sup>	% of Total No. of Service Workers
<i>Healthcare Practitioners and Technical Occupations</i>			
Pharmacists	\$171,800	4.8%	0.4%
Physical Therapists	\$131,600	4.9%	0.4%
Registered Nurses	\$174,900	24.8%	2.0%
Physicians and Ophthalmologists, Except Pediatric	\$194,000	3.5%	0.3%
Dental Hygienists	\$128,400	6.0%	0.5%
Pharmacy Technicians	\$64,100	6.9%	0.6%
Licensed Practical and Licensed Vocational Nurses	\$84,200	8.9%	0.7%
All Other Healthcare Practitioners and Technical Occupations (Avg. All Categories)	<u>\$141,200</u>	<u>40.1%</u>	<u>3.2%</u>
<b>Weighted Mean Annual Wage</b>	<b>\$141,200</b>	<b>100.0%</b>	<b>8.1%</b>
<i>Healthcare Support Occupations</i>			
Home Health and Personal Care Aides	\$36,200	56.1%	5.3%
Nursing Assistants	\$61,100	14.8%	1.4%
Massage Therapists	\$82,200	3.7%	0.4%
Dental Assistants	\$66,200	7.9%	0.7%
Medical Assistants	\$61,600	8.2%	0.8%
All Other Healthcare Support Occupations (Avg. All Categories)	<u>\$47,100</u>	<u>9.3%</u>	<u>0.9%</u>
<b>Weighted Mean Annual Wage</b>	<b>\$47,100</b>	<b>100.0%</b>	<b>9.5%</b>
<i>Food Preparation and Serving Related Occupations</i>			
Supervisors of Food Preparation and Serving Workers	\$55,000	7.6%	1.0%
Cooks, Fast Food	\$39,500	4.6%	0.6%
Cooks, Restaurant	\$44,900	11.0%	1.4%
Food Preparation Workers	\$40,600	6.5%	0.8%
Bartenders	\$44,200	3.5%	0.4%
Fast Food and Counter Workers	\$40,400	31.0%	4.0%
Waiters and Waitresses	\$40,700	19.6%	2.6%
Dishwashers	\$41,200	3.8%	0.5%
Hosts and Hostesses, Restaurant, Lounge, and Coffee Shop	\$39,500	3.4%	0.4%
All Other Food Preparation and Serving Related Occupations (Avg. All Categories)	<u>\$42,300</u>	<u>9.1%</u>	<u>1.2%</u>
<b>Weighted Mean Annual Wage</b>	<b>\$42,300</b>	<b>100.0%</b>	<b>13.0%</b>

APPENDIX A TABLE 2  
AVERAGE ANNUAL WORKER COMPENSATION  
SERVICES TO HOUSEHOLDS EARNING \$100,000 TO \$150,000  
HOUSING NEEDS ASSESSMENT - 3705 HAVEN AVENUE PROJECT  
MENLO PARK, CA

Occupation <sup>3</sup>	2023 Avg. Compensation <sup>1</sup>	% of Total Occupation Group <sup>2</sup>	% of Total No. of Service Workers
<i>Building and Grounds Cleaning and Maintenance Occupations</i>			
Janitors and Cleaners	\$47,000	51.1%	1.1%
Maids and Housekeeping Cleaners	\$48,700	15.4%	0.3%
Pest Control Workers	\$59,000	4.1%	0.1%
Landscaping and Groundskeeping Workers	\$52,900	20.7%	0.5%
All Other Building and Grounds Cleaning and Maintenance Occupations (Avg. All	<u>\$49,200</u>	<u>8.7%</u>	<u>0.2%</u>
<b>Weighted Mean Annual Wage</b>	<b>\$49,200</b>	<b>100.0%</b>	<b>2.2%</b>
<i>Personal Care and Service Occupations</i>			
Supervisors of Personal Service, Entert. & Rec. Workers	\$61,900	5.9%	0.4%
Animal Caretakers	\$44,600	16.4%	1.0%
Amusement and Recreation Attendants	\$40,300	3.0%	0.2%
Hairdressers, Hairstylists, and Cosmetologists	\$51,400	23.0%	1.4%
Manicurists and Pedicurists	\$38,600	7.5%	0.5%
Childcare Workers	\$42,300	14.7%	0.9%
Exercise Trainers and Group Fitness Instructors	\$82,800	9.1%	0.6%
Recreation Workers	\$46,900	4.6%	0.3%
All Other Personal Care and Service Occupations (Avg. All Categories)	<u>\$50,800</u>	<u>15.8%</u>	<u>1.0%</u>
<b>Weighted Mean Annual Wage</b>	<b>\$50,800</b>	<b>100.0%</b>	<b>6.2%</b>
<i>Sales and Related Occupations</i>			
First-Line Supervisors of Retail Sales Workers	\$59,900	9.8%	1.3%
Cashiers	\$40,900	28.7%	3.9%
Retail Salespersons	\$45,800	38.9%	5.2%
Securities, Commodities, and Financial Services Sales	\$151,700	4.4%	0.6%
Sales Representatives	\$129,800	5.0%	0.7%
Sales Reps., Wholesale & Manuf., Except Tech. and Scientific	\$94,200	3.4%	0.5%
All Other Sales and Related Occupations (Avg. All Categories)	<u>\$57,400</u>	<u>9.9%</u>	<u>1.3%</u>
<b>Weighted Mean Annual Wage</b>	<b>\$57,400</b>	<b>100.0%</b>	<b>13.4%</b>
<i>Office and Administrative Support Occupations</i>			
First-Line Supervisors of Office and Admin. Support Workers	\$88,700	7.5%	0.9%
Billing and Posting Clerks	\$61,400	3.1%	0.4%
Bookkeeping, Accounting, and Auditing Clerks	\$65,700	7.4%	0.9%
Customer Service Representatives	\$56,900	14.6%	1.8%
Receptionists and Information Clerks	\$47,900	12.0%	1.5%
Medical Secretaries and Administrative Assistants	\$57,100	5.9%	0.7%
Secretaries and Administrative Assistants	\$64,600	9.6%	1.2%
Office Clerks, General	\$54,600	15.5%	1.7%
All Other Office and Administrative Support Occupations (Avg. All Categories)	<u>\$60,200</u>	<u>24.5%</u>	<u>3.0%</u>
<b>Weighted Mean Annual Wage</b>	<b>\$60,200</b>	<b>100.0%</b>	<b>12.1%</b>

APPENDIX A TABLE 2  
AVERAGE ANNUAL WORKER COMPENSATION  
SERVICES TO HOUSEHOLDS EARNING \$100,000 TO \$150,000  
HOUSING NEEDS ASSESSMENT - 3705 HAVEN AVENUE PROJECT  
MENLO PARK, CA

Occupation <sup>3</sup>	2023 Avg. Compensation <sup>1</sup>	% of Total Occupation Group <sup>2</sup>	% of Total No. of Service Workers
<i>Installation, Maintenance, and Repair Occupations</i>			
Supervisors of Mechanics, Installers, and Repairers	\$99,700	7.8%	0.3%
Automotive Body and Related Repairers	\$68,300	11.1%	0.4%
Automotive Service Technicians and Mechanics	\$71,200	30.2%	1.0%
Bus and Truck Mechanics and Diesel Engine Specialists	\$83,000	6.0%	0.2%
Maintenance and Repair Workers, General	\$66,000	14.5%	0.5%
All Other Installation, Maintenance, and Repair Occupations (Avg. All Categories)	<u>\$73,900</u>	<u>30.4%</u>	<u>1.0%</u>
<b>Weighted Mean Annual Wage</b>	<b>\$73,900</b>	<b>100.0%</b>	<b>3.4%</b>
<i>Transportation and Material Moving Occupations</i>			
Supervisors of Transportation and Material-Moving Workers	\$70,400	4.2%	0.4%
Driver/Sales Workers	\$48,000	4.7%	0.4%
Heavy and Tractor-Trailer Truck Drivers	\$68,400	9.7%	0.9%
Light Truck Drivers	\$53,800	6.6%	0.6%
Passenger Vehicle Drivers	\$37,800	9.3%	0.8%
Parking Attendants	\$42,300	8.7%	0.8%
Cleaners of Vehicles and Equipment	\$44,700	7.3%	0.7%
Laborers and Freight, Stock, and Material Movers, Hand	\$48,100	12.4%	1.1%
Packers and Packagers, Hand	\$43,700	3.1%	0.3%
Stockers and Order Fillers	\$45,700	19.6%	1.8%
All Other Transportation and Material Moving Occupations (Avg. All Categories)	<u>\$49,200</u>	<u>14.2%</u>	<u>1.3%</u>
<b>Weighted Mean Annual Wage</b>	<b>\$49,200</b>	<b>100.0%</b>	<b>9.0%</b>
			88.4%

<sup>1</sup> The methodology utilized by the Bureau of Labor Statistics (BLS) assumes hourly paid employees are employed full-time. Annual compensation is calculated by multiplying hourly wages by 40 hours per work week by 52 weeks.

<sup>2</sup> Occupation percentages are based on the 2022 National Industry - Specific Occupational Employment survey compiled by the Bureau of Labor Statistics. Wages are based on Occupational Employment Survey data applicable to San Mateo County as of First Quarter 2023.

<sup>3</sup> Including occupations representing 3% or more of the major occupation group

**APPENDIX A TABLE 3  
 AVERAGE ANNUAL WORKER COMPENSATION, 2023  
 EXISTING COMMERCIAL  
 HOUSING NEEDS ASSESSMENT - 3705 HAVEN AVENUE PROJECT  
 MENLO PARK, CA**

Occupation <sup>3</sup>	2023 Avg. Compensation <sup>1</sup>	% of Total Existing Commercial Workers <sup>2</sup>
Sales Managers	\$205,600	10.0%
Computer and Information Systems Managers	\$245,000	5.0%
Medical and Health Services Managers	\$186,800	5.0%
Accountants and Auditors	\$115,300	10.0%
Web Developers	\$129,300	5.0%
Engineers, All Other	\$149,300	5.0%
Psychologists, All Other	\$139,400	5.0%
Marriage and Family Therapists	\$76,100	5.0%
Lawyers	\$252,900	10.0%
Therapists, All Other	\$142,900	5.0%
Janitors and Cleaners, Except Maids and Housekeeping Cleaners	\$47,000	5.0%
Office and Administrative Support Occupations	\$64,400	25.0%
First-Line Supervisors of Construction Trades and Extraction Workers	\$113,700	5.0%
		100.0%

<sup>1</sup> The methodology utilized by the Bureau of Labor Statistics (BLS) assumes hourly paid employees are employed full-time. Annual compensation is calculated by multiplying hourly wages by 40 hours per work week by 52 weeks.

<sup>2</sup> Estimated based upon current tenant mix.

**APPENDIX A TABLE 4  
 AVERAGE ANNUAL WORKER COMPENSATION, 2023  
 BUILDING SERVICES  
 HOUSING NEEDS ASSESSMENT - 3705 HAVEN AVENUE PROJECT  
 MENLO PARK, CA**

<b>Occupation <sup>3</sup></b>	<b>2023 Avg. Compensation <sup>1</sup></b>	<b>% of Total Building Services Workers</b>
Janitors and Cleaners, Except Maids and Housekeeping Cleaners	\$47,000	75.0%
Maintenance and Repair Workers, General	\$66,000	25.0%
		100.0%

<sup>1</sup> The methodology utilized by the Bureau of Labor Statistics (BLS) assumes hourly paid employees are employed full-time. Annual compensation is calculated by multiplying hourly wages by 40 hours per work week by 52 weeks.



**APPENDIX A TABLE 5  
 AVERAGE ANNUAL WORKER COMPENSATION, 2023  
 APARTMENT PROPERTY MANAGEMENT  
 HOUSING NEEDS ASSESSMENT - 3705 HAVEN AVENUE PROJECT  
 MENLO PARK, CA**

Occupation <sup>2</sup>	2023 Avg. Compensation <sup>1</sup>	% of Total Apartment Property Management Workers
Property, Real Estate, and Community Association Managers	\$101,800	20.0%
Maintenance and Repair Workers, General	\$66,000	40.0%
Grounds Maintenance Workers, All Other	\$59,900	40.0%
		100.0%

<sup>1</sup> The methodology utilized by the Bureau of Labor Statistics (BLS) assumes hourly paid employees are employed full-time. Annual compensation is calculated by multiplying hourly wages by 40 hours per work week by 52 weeks.

# 3705 HAVEN AVENUE TRANSPORTATION IMPACT ANALYSIS REPORT

MENLO PARK, CA

August 2024



Inside front cover

Page Intentionally blank

# 3705 Haven Avenue Transportation Impact Analysis Menlo Park, CA

Prepared for:  
Fiona Phung  
David J. Powers & Associates, Inc.  
1871 The Alameda, Suite 200  
San Jose, CA 95126  
408.454.3427

Prepared by:  
**Kittelson & Associates, Inc.**  
155 Grand Avenue, Suite 505  
Oakland, CA 94612  
510.839.1742

Project Manager:  
Dhawal Kataria, AICP  
Senior Planner

Project Principal:  
Damian Stefanakis  
Senior Principal Planner

Quality Manager:  
Aaron Elias, P.E.

Project Analyst:  
Qiming Sun

Project Number 29093

August 2024



Page Intentionally blank

# TABLE OF CONTENTS

## Table of Contents

<b>Executive Summary</b> .....	<b>vi</b>
Project Description.....	vi
Project Trip Generation .....	vi
Local Transportation Analysis .....	vi
<b>Introduction</b> .....	<b>1</b>
Project Description.....	1
Scope of Study .....	4
Study Intersections.....	5
Time Periods.....	5
Study Scenarios.....	5
Intersection Level of Service (LOS) Criteria.....	5
LOS Policy Standard.....	6
<b>Existing Conditions</b> .....	<b>9</b>
Roadway Network .....	9
Parking Conditions .....	9
Pedestrian Facilities and Amenities.....	9
Bicycle Facilities and Amenities.....	11
Transit Service.....	14
Intersection Level of Service.....	17
<b>CEQA VMT Analysis</b> .....	<b>21</b>
VMT Exemption Criteria .....	21
VMT Impact Assessment .....	22
Mitigation for exceeding VMT significance criteria .....	22
<b>Local Transportation Analysis</b> .....	<b>26</b>
Near-Term (2027) Conditions.....	26
Programmed/Planned Transportation Facility Improvements.....	26
Intersection Level of Service.....	26
Project Travel Demand .....	29
Trip Generation .....	29
Trip Distribution .....	30
Near-term Plus Project Conditions.....	32
Intersection Level of Service.....	32
Cumulative (2040) Conditions .....	34

Land Use Development and Transportation Network Changes.....	34
Intersection Level of Service.....	34
Cumulative Plus Project Conditions.....	36
Intersection Level of Service.....	36
Additional Transportation Analysis.....	38
Vehicular Access And On-Site Circulation.....	38
Pedestrian Access.....	39
Bicycle Access.....	43
Transit Access.....	43
Vehicle Parking.....	43
Bicycle Parking.....	44
Emergency Vehicle Access.....	44
Construction.....	45
95 <sup>th</sup> Percentile Queue Analysis.....	46

## LIST OF FIGURES

Figure 1: Project Location and Study Intersection .....	2
Figure 2: Proposed Site Plan.....	3
Figure 3: Existing Pedestrian Facilities.....	10
Figure 4: Bike Lane Facility Classifications.....	12
Figure 5: Existing Bicycle Facilities.....	13
Figure 6: SamTrans Routes and Bus Stops Near the Site .....	15
Figure 7: Menlo Park Shuttle Routes Near the Site.....	16
Figure 8: Existing Lane Configurations and Traffic Control at Study Intersection .....	18
Figure 9: Existing Conditions Peak Hour Turning Movement Volumes .....	19
Figure 10: Project TAZ VMT per Capita.....	24
Figure 11: Near-term and Cumulative Conditions Lane Configuration and Traffic Control .....	27
Figure 12: Near-term Conditions Peak Hour Turning Movement Volumes.....	28
Figure 13: Proposed Project Vehicle Trip Distribution and Volumes.....	31
Figure 14: Near-term Plus Project Conditions Peak Hour Turning Movement Volumes .....	33
Figure 15: Cumulative Conditions Peak Hour Turning Movement Volumes .....	35
Figure 16: Cumulative Conditions Plus Project Peak Hour Turning Movement Volumes.....	37
Figure 17: Driveway Sight Distance Triangles .....	40
Figure 18: Trash Truck Pick-up Location.....	41
Figure 19: Circulation Plan .....	42



## LIST OF TABLES

Table 1: Existing and Proposed Land Uses.....	1
Table 2: Level of Service Definition for Intersections.....	6
Table 3: Transit Routes near the Project.....	14
Table 4: Existing Conditions Intersection Operation Results.....	17
Table 5: VMT Exemption Criteria and Discussion.....	21
Table 6: Near-term Conditions Intersection Operations Results.....	26
Table 7: Trip Generation Rates.....	29
Table 8: Proposed Project Net Trip Generation Estimates.....	30
Table 9: Near-term Plus Project Conditions Intersection Operations Results.....	32
Table 10: Cumulative Conditions Intersection Operations Results.....	34
Table 11: Cumulative Plus Project Intersection Operations Results.....	36
Table 12: City of Menlo Park Vehicle Parking Requirements and Proposed Project Parking Spaces.....	44
Table 13: Parking Requirement as per ITE Parking Generation Manual.....	44
Table 14: City of Menlo Park Bicycle Parking Requirements and Proposed Project Parking Spaces.....	44
Table 15: 95th Percentile Queue Lengths.....	47

## APPENDICES

Appendix A: Proposed Site Plan (Dated July 2024)

Appendix B: Existing Vistro Reports

Appendix C: Near-term (2027) Conditions Vistro Reports

Appendix D: Traffic Counts

Appendix E: Near-term (2027) Plus Project Conditions Vistro Reports

Appendix F: Cumulative Conditions Vistro Reports

Appendix G: Cumulative Plus Project Conditions Vistro Reports

# EXECUTIVE SUMMARY

## PROJECT DESCRIPTION

This report documents the California Environmental Quality Act (CEQA) analysis findings and the local transportation analysis conducted by Kittelson & Associates, inc. (Kittelson) for the proposed eight-story apartment building to be located at 3705 Haven Avenue, Menlo Park, California ("Project"). The applicant is proposing to demolish an existing single-story commercial building and associated landscaping and to construct a new eight-story apartment building with 112 residential units.

## PROJECT TRIP GENERATION

The proposed Project (prior to any mandatory trip reduction) is expected to generate 508 daily trips, categorizing it as a "Large Residential Project". Following the implementation of a required 35 percent Transportation Demand Management (TDM) reduction and the replacement of the existing commercial land use, the Project would result in 218 net new daily trips, including 16 net new trips in the AM peak hour and 15 net new trips in the PM peak hour.

## CEQA VMT ANALYSIS

The Project does not meet any of the exemption criteria to be screened out of a detailed vehicle miles traveled (VMT) assessment. The VMT Assessment concludes that the Project, prior to any trip reduction, would generate 15.3 VMT per capita. Based on the City's VMT Guidelines, the Project must reduce VMT by a minimum of 27 percent, to 11.2 VMT per capita, to reduce the Project's impacts to less-than-significant levels. The 35 percent reduction in vehicle trips required by the C/CAG TDM Policy is sufficient to reduce the Project's VMT to less-than-significant levels. Based on the condition of approval of the Project's TDM plan, the VMT impact from the Project would be less than significant with proposed TDM measures.

Kittelson concludes that the project is consistent with the City/County Association of Governments of San Mateo (C/CAG) TDM Policy, ConnectMenlo General Plan and 2023-2031 Housing Element (CEQA § 15183).

## LOCAL TRANSPORTATION ANALYSIS

Following a detailed screening analysis of potential study intersections in coordination with City staff, Kittelson conducted the intersection Level of Service (LOS) analysis at the intersection of Haven Avenue/Bayfront Expressway and Marsh Road for Existing, Near-term (2027), Near-term (2027) Plus Project, Cumulative (2040), and Cumulative (2040) Plus Project Conditions for weekday AM and PM peak hour traffic conditions. The study intersection currently operates at LOS E during the AM peak hour and LOS D during the PM peak hour. However, with the planned changes to lane configuration and signal timing optimization, the study intersection is projected to operate at an acceptable LOS (LOS D or better) in both peak hours for near-term conditions, with or without the Project. The study intersection is expected to operate at LOS D in the AM peak hour and LOS E in the PM peak hour under cumulative conditions, with or without the Project. However, the Project would cause the intersection to experience an increase of less than 0.8 seconds in the delay of the most critical movement. Therefore, the Project complies with local policies.

The Project is estimated to generate 44 trips during the PM peak hour, which falls below the San Mateo County Congestion Management Program (CMP) requirement of 100 PM peak hour trips for a Routes of Regional Significance evaluation. Hence, CMP analysis is not required for the Project.

Kittelsohn reviewed the site access and on-site circulation based on the proposed site plan and the changes in the 95th percentile queue lengths caused by the proposed Project at the study intersection. During the AM and PM peak hours, the eastbound right-turn and southbound right-turn movements will experience 95<sup>th</sup> percentile queue lengths that exceed the storage length, but the queue lengths do not increase significantly with the plus Project scenarios when compared to no Project scenarios.

Kittelsohn recommends the applicant verify that the proposed vegetation will not obstruct the visibility of pedestrians and oncoming traffic on Haven Avenue from the driveway. Additionally, it is recommended that the Project applicant install visible and audible warning devices to alert pedestrians and bicyclists of vehicles exiting the parking garage. The Project applicant also should coordinate with the Fire Department to ensure that the installation of signs and markings designating fire lanes complies with standard requirements and facilitates adequate access for fire apparatus.



# Section 1

## Introduction

# INTRODUCTION

This report documents the CEQA and local transportation analyses conducted for the proposed development to be located at 3705 Haven Avenue in the R-MU-B (Residential Mixed Use-Bonus) zoning district in Menlo Park, California ("Project"), see **Figure 1**.

## PROJECT DESCRIPTION

The Project applicant, 3705 Haven LLC, is proposing to demolish an existing single-story commercial building to construct a new eight-story, 112 residential-unit development. 3705 Haven Avenue is an approximately 0.66-acre corner lot that fronts Haven Avenue on both sides. The complete Project plan submittal, dated July 2024, is included in **Appendix A** with the proposed site plan shown in **Figure 2**.

Currently, there is a single-story approximately 10,361 square feet (SF) general commercial building on the Project site. The proposed multifamily building would have dwelling units from the second floor to the eighth floor, with interior parking on the ground floor and second floor. The Project proposes 99 vehicle parking spaces, 168 interior bike parking spaces and 17 exterior bike parking spaces. As shown in the site plan (**Figure 2**), access to the parking garage is available on both the south and east sides of the building along Haven Avenue. In addition, pedestrian access to the site for residents of the development will be facilitated via walkways, with one entrance on the south side of the building and two entrances on the east side of the building.

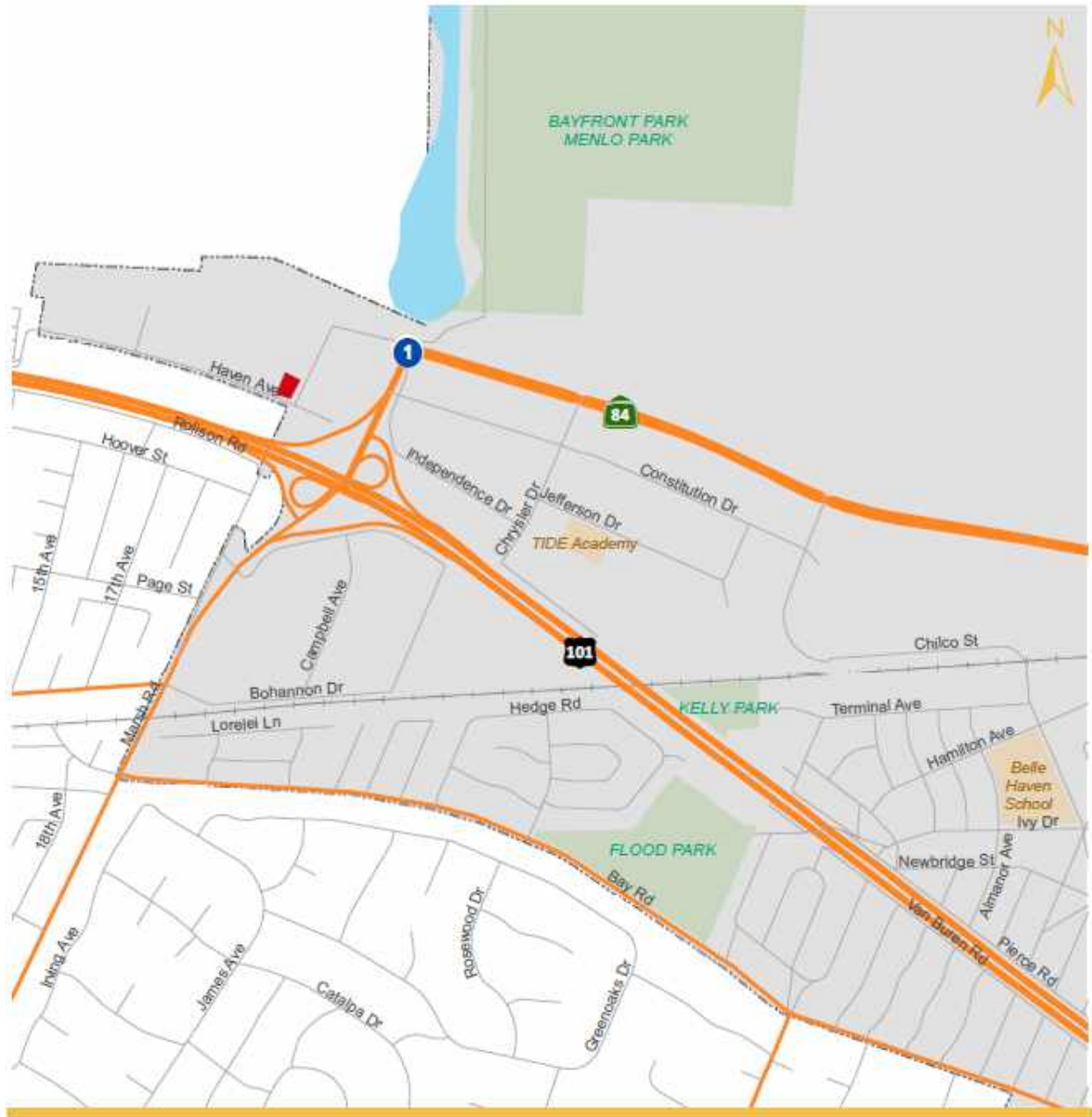
**Table 1** summarizes the existing and proposed land uses.

**Table 1: Existing and Proposed Land Uses**




Existing land-uses to be removed	Size
General Commercial	10,361 SF
Proposed Land Use	Size
Jr. 1-Bedroom (Studio)	36 DU
1-Bedroom	49 DU
2-Bedroom	26 DU
3-Bedroom	1 DU
<b>Total</b>	<b>112 DU</b>

Notes: SF – Square Feet; DU-Dwelling Units

Figure 1: Project Location and Study Intersection



**LEGEND**

-  Project Site
-  Study Intersection
-  City Boundary

0 0.25  
Miles







## SCOPE OF STUDY

The purpose of this transportation analysis is to determine whether the proposed Project would have transportation impacts, as defined by the City of Menlo Park's Transportation Impact Analysis Guidelines (TIA Guidelines)<sup>1</sup>. The analysis covers the following topics:

### CALIFORNIA ENVIRONMENTAL QUALITY ACT (CEQA) VMT ANALYSIS

Senate Bill (SB) 743 updated the process of measuring transportation impacts for CEQA purposes based on VMT determined as the number of daily trips and the distance traveled by those trips to their destinations. The technical advisory provided by the Governor's Office of Planning and Research (OPR) specifically addresses the requirements of California SB 743 which mandated specific types of CEQA analysis of land use development and transportation projects effective July 1, 2020. The quantitative methodology, significance thresholds, and mitigation measures for conducting transportation analysis are based on VMT metrics as identified in the City of Menlo Park TIA Guidelines.

### TRANSPORTATION DEMAND MANAGEMENT (TDM) PLAN

The TDM Plan is prepared to meet the requirements outlined in Menlo Park Municipal Code 16.45.090, which mandates that all new projects involving a change of use of 10,000 or more square feet of gross floor area in the Residential Mixed-use (R-MU) zoning district should prepare TDM plans that will reduce vehicle trips by 20 percent from standard trip generation rates. City staff has indicated that the City's TDM ordinance is anticipated to be revised later this year to align with the C/CAG's TDM requirements. The City/County Association of Governments (C/CAG) adopted updated TDM policies (January 1, 2022) that require the project (qualifying as "Large Residential Project") to implement TDM measures that can achieve a 35% trip reduction based on its C/CAG checklist.

Kittelson peer reviewed the Transportation Demand Management (TDM) Plan report (TDM Plan) prepared by the applicant's consultant, Hexagon Transportation Consultants Inc. (Hexagon) dated July 23, 2024, and determined that the TDM Plan is consistent with the C/CAG TDM Policy. The proposed TDM measures will achieve the 35% trip reduction goal for "Residential Land Use: Large Project" category.

### LOCAL TRANSPORTATION ANALYSIS

The City of Menlo Park requires the local non-CEQA analysis to address traffic operations and needed project design features related to a proposed land use project, as well as to analyze site circulation and access. Based on the discussions with the City Staff and the approved scope of work, Kittelson evaluated the following items under the local transportation analysis section:

- Traffic Operations
  - Intersection Level of Service Analysis
- Other Topics
  - Pedestrian, Bicycle and Transit Facilities
  - Parking Assessment
  - Site Circulation
  - Emergency Access
  - Construction
  - 95<sup>th</sup> percentile queues

---

<sup>1</sup> City of Menlo Park Transportation Impact Analysis Guidelines, 2020.

## STUDY INTERSECTIONS

Kittelson conducted a screening process based on trip threshold to identify appropriate study intersections. The intersection of Haven Avenue/Bayfront Expressway and Marsh Road was selected for analysis in consultation with City staff and as per the guidance provided in the TIA guidelines. **Figure 1** shows the study intersection location.

## TIME PERIODS

Kittelson collected turning movement counts at the intersection of Haven Avenue/Bayfront Expressway and Marsh Road, and at two existing driveways for the existing land use - the northernly driveway and the southernly driveway on Haven Avenue. The counts were collected on March 5th, 2024 for the weekday AM (7-9 AM) and PM (4-6 PM) peak periods. The data collection times coincide with the traditional commute periods when traffic is at the maximum and when the local school semester is in session. The traffic counts were collected when the existing land use was in operation. The purpose of collecting driveway counts at the Project site was to estimate the existing trip generation to count as trip credits in the analysis. The proposed Project will remove all the existing driveways and the proposed driveway for the Project will be reconstructed on the south and east sides of the Project on Haven Avenue.

## STUDY SCENARIOS

Transportation conditions are evaluated for the following scenarios:

- **Existing Conditions:** This scenario describes existing transportation conditions in the study area based on the current roadway and sidewalk network characteristics, transit service and intersection counts.
- **Near-term (2027) Conditions:** This scenario describes the projected peak hour traffic operations based on the net change to travel patterns anticipated from approved (but not yet constructed) or fully/partially occupied developments in the vicinity of study area at the time of the Existing Conditions assessment. This includes additional trips that would be generated if the proposed developments were to operate at full occupancy.
- **Near-term (2027) Plus Project Conditions:** This scenario is similar to Near-term Conditions but with the inclusion of vehicle trips that would be generated by the Project. Near-term Plus Project Conditions were evaluated relative to Near-term Conditions to determine the effects the proposed Project would have on the Near-term roadway network.
- **Cumulative (2040) Conditions:** This scenario represents the future traffic volumes on the roadway network. This scenario was estimated by adding regional growth based on the Citywide traffic model to existing traffic volumes between the existing year and future year (2040). The future scenario represents the ConnectMenlo General Plan plus other recently approved General Plan amendment projects.
- **Cumulative (2040) Plus Project Conditions:** This scenario is similar to Cumulative Conditions but with the addition of vehicle trips generated by the Project. Cumulative Plus Project Conditions were evaluated relative to Cumulative Conditions to determine the effects the proposed Project would have on the future roadway network.

## INTERSECTION LEVEL OF SERVICE (LOS) CRITERIA

Level of service (LOS) describes the operating conditions experienced by motorists. LOS is a qualitative measure of the effect of several factors, including speed and travel time, traffic interruptions and delay, freedom to maneuver, driving comfort, and convenience. The operational LOS are given letter designations from A to F, with A representing the free-flow (underutilized) operating conditions and F representing the severely congested flow (overutilized) with high delays.

Intersection analyses for the study intersection are conducted using the operational methodologies outlined in the Highway Capacity Manual 7th Edition (HCM 7th Edition) methodology (Transportation Research Board, Washington, D.C., 2022), calculated with Vistro software developed by PTV America.

### Signalized Intersections

The HCM procedure calculates a weighted average control delay, in seconds per vehicle, at a signalized intersection and assigns a level of service designation based upon the delay. **Table 2** presents the relationship of average delay to level of service for both signalized and unsignalized intersections.

**Table 2: Level of Service Definition for Intersections**

Signalized Intersection	LOS	Description of Traffic Conditions
Average Delay Per Vehicle (Seconds)		
≤10.0	A	Free flowing. Most vehicles do not have to stop.
>10.0 and ≤20.0	B	Minimal delays. Some vehicles have to stop, although waits are not bothersome.
>20.0 and ≤35.0	C	Acceptable delays. Significant numbers of vehicles have to stop because of steady, high traffic volumes. Still, many pass without stopping.
>35.0 and ≤55.0	D	Tolerable delays. Many vehicles have to stop. Drivers are aware of heavier traffic. Cars may have to wait through more than one red light. Queues begin to form, often on more than one approach.
>55.0 and ≤80.0	E	Significant delays. Cars may have to wait through more than one red light. Long queues form, sometimes on several approaches.
>80.0	F	Excessive delays. Intersection is jammed. Many cars have to wait through more than one red light, or more than 60 seconds. Traffic may back up into "up-stream" intersections.

Source: Transportation Research Board, Highway Capacity Manual 7th Edition (Washington D.C., 2022)

### LOS POLICY STANDARD

The City of Menlo Park Transportation Impact Analysis (TIA) Guidelines outline procedures for conducting a transportation impact analysis for development projects. This ensures comprehensive assessment in accordance with the California Environmental Quality Act and aligns with the City's General Plan. Additionally, the City's General Plan Circulation Element includes policies and programs pertaining to transportation compliance and LOS requirements.

Per the City's TIA guidelines:

- A project is considered potentially noncompliant with local policies if the addition of project traffic causes an intersection on a collector street operating at LOS "A" through "C" to operate at an unacceptable level (LOS "D," "E" or "F") or have an increase of 23 seconds or greater in average vehicle delay, whichever comes first.

- Potential noncompliance shall also include a project that causes an intersection on arterial streets or local approaches to State controlled signalized intersections operating at LOS "A" through "D" to operate at an unacceptable level (LOS "E" or "F") or have an increase of 23 seconds or greater in average vehicle delay, whichever comes first.
- A project is also considered potentially noncompliant if the addition of project traffic causes an increase of more than 0.8 seconds of average delay to vehicles on all critical movements for intersections operating at a near-term LOS "D" through "F" for collector streets and at a near-term LOS "E" or "F" for arterial streets.
- For local approaches to State controlled signalized intersections, a project is considered to be potentially noncompliant if the addition of project traffic causes an increase of more than 0.8 seconds of delay to vehicles on the most critical movements for intersections operating at a near-term LOS "E" or "F."

Per the City's General Plan Circulation Element guidance:

- Policy CIRC-3.4: Level of Service. Strive to maintain LOS D at all City-controlled signalized intersections during peak hours, except at the intersection of Ravenswood Avenue and Middlefield Road and at intersections along Willow Road from Middlefield Road to US 101. The City shall work with Caltrans to ensure that the average stopped delay on local approaches to State-controlled signalized intersections does not exceed LOS E.



## Section 2 Existing Conditions

# EXISTING CONDITIONS

## ROADWAY NETWORK

The Project site is bounded by Haven Avenue to the east and south. Important roadways adjacent to the Project site are discussed below:

**Marsh Road** is a four-lane east-west roadway with an average daily traffic (ADT) volume of 45,000 and posted speed limit of 35 mph in Menlo Park. Between US 101 and Bayfront Expressway, Marsh Road is classified as a Thoroughfare with three lanes in each direction in the City of Menlo Park General Plan. From US 101 to Bay Road, Marsh Road is classified as a Mixed-Use Collector. On-street parking is not permitted between US 101 and Bayfront Expressway.

**Bayfront Expressway** is a six-lane north-south divided roadway that connects the San Francisco Peninsula to the east via the Dumbarton Bridge. Within Menlo Park, it connects Marsh Road with the Dumbarton Bridge. It is designated as a Freeway/Expressway by the City's General Plan. On-street parking is not permitted on Bayfront Expressway. From Marsh Road to Chilco Street, the speed limit is 45 mph and ADT is 32,400. South of Chilco Street, the speed limit is 50 mph.

North of Marsh Road, Bayfront Expressway becomes **Haven Avenue**. Haven Avenue is a two-lane undivided roadway, facilitating access to businesses and residences west of Marsh Road. East of the Project site, the roadway has a posted speed limit of 25 mph, with no on-street parking allowed. South of the Project site, the posted speed limit increases to 30 mph, and on-street parking is permitted on the south side of the road. The City classifies the roadway as a Mixed-Use Collector and has an ADT of 6,600.

## PARKING CONDITIONS

The Project Site is currently occupied by a one-story commercial building and associated surface parking on the North and East side of the building. There is on-street parking available along the southbound side of Haven Avenue and Haven Court with restrictions on vehicles over the height of 6 feet. Additionally, according to the City's overnight parking ordinance (Menlo Park Municipal Code 11.24.050), parking is prohibited between 2-5 a.m. on any residential street or within 300 feet of any residential area in Menlo Park.

## PEDESTRIAN FACILITIES AND AMENITIES

**Figure 3** illustrates the existing pedestrian facilities in the area. East of the Project site, along Haven Avenue, sidewalks are present on both sides of the road. However, to the south of the Project site, sidewalks are only present on the north side. Along Marsh Road, between Bayfront Expressway/Haven Avenue and Scott Drive, sidewalks are available on both sides of the road. Additionally, along Bayfront Expressway, there is the San Francisco Bay Trail available on the east side of the road.

The sidewalk gaps along the Haven Avenue near the intersection of Marsh Road and Bayfront Expressway can make walking less convenient and more challenging for pedestrians to access the San Francisco Bay Trail and TIDE Academy School. As a part of the Bayfront Expressway Multimodal Corridor Project, there is a plan to construct a Class I Multi-Use Path from Marsh Road to Atherton Channel and Pedestrian crossing upgrades to Haven Avenue/Bayfront Expressway and Marsh Road intersection.<sup>2</sup>

---

<sup>2</sup> City of Menlo Park. 2020 Transportation Master Plan accessed from <https://menlopark.gov/Government/Departments/Public-Works/Transportation-Division/1-City-Transportation-policies-and-plans/Transportation-Master-Plan>

Figure 3: Existing Pedestrian Facilities



LEGEND

- Project Site
- Study Intersection
- City Boundary
- Sidewalks on One Side
- Sidewalks on Both Sides

0 0.25  
Miles

Data Source: MTC Open Data Library; City of Menlo Park





---

## BICYCLE FACILITIES AND AMENITIES

There are four classifications of bikeway facilities in California as defined by the California Department of Transportation (Caltrans) – Class I through Class IV.<sup>3</sup> More details on each of the following classes is shown below in **Figure 4**.

**Figure 5** displays the existing bike facilities in the area. Haven Avenue has an existing buffered Class II bike lane adjacent to the southernly side of the Project site. The San Francisco Bay Trail, a Class I facility (multi-use pathway), runs along Bayfront Expressway between Haven Avenue and the Dumbarton Bridge. A Class I Bike Path facility is also provided on Marsh Road between Haven Avenue/Bayfront Expressway and Constitution Drive. Constitution Drive, Chrysler Drive, and Jefferson Drive have Class II Bike Lanes and Buffered Bike Lanes that connect the Project to the TIDE Academy.

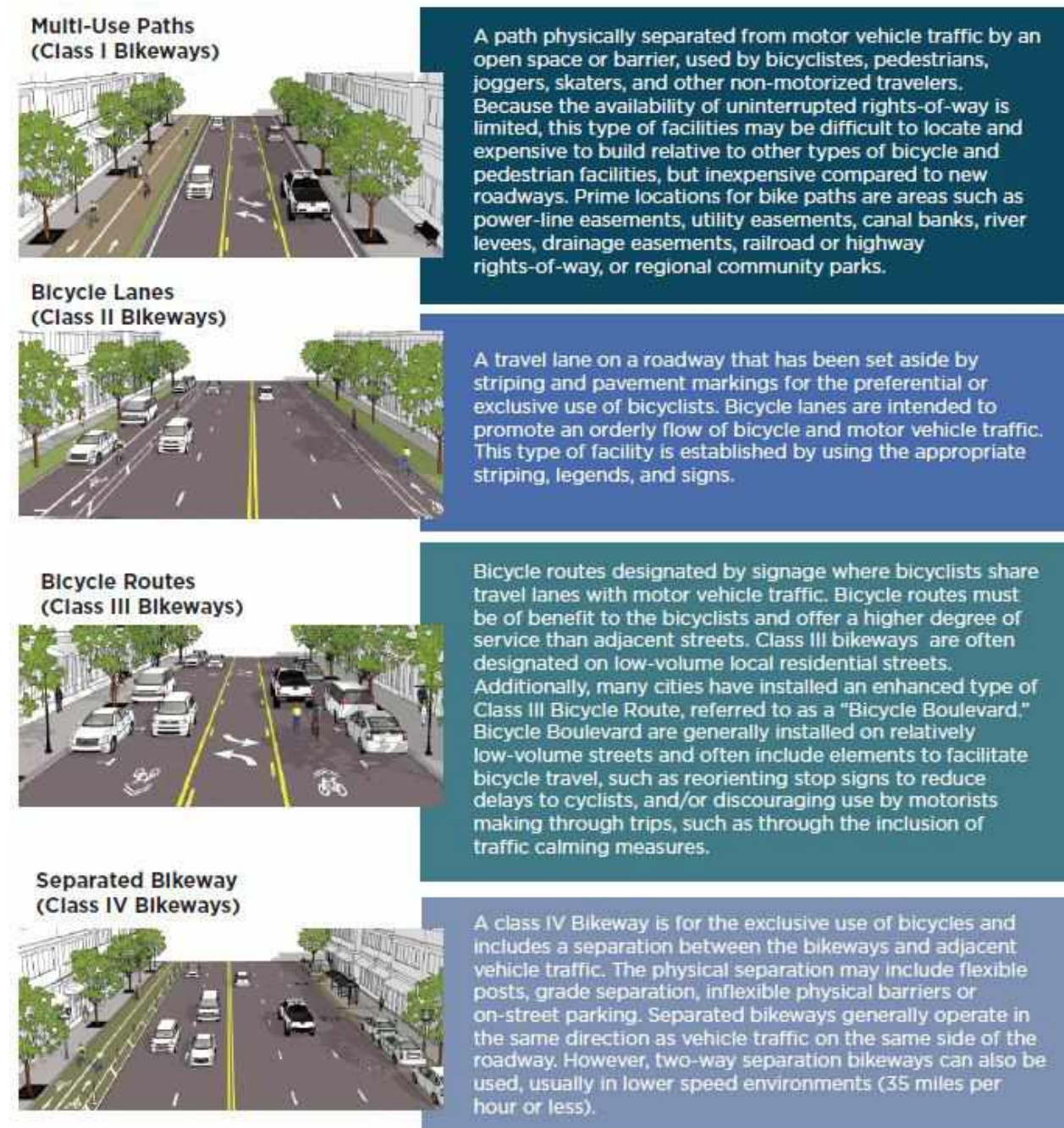
A Class II Bicycle Lane from Haven Court to Atherton Channel has been proposed in the Transportation Master Plan that would eliminate the gap between existing bicycle facilities.

---

<sup>3</sup> As detailed in Chapter 1000 of the Highway Design Manual (Caltrans, 2015).

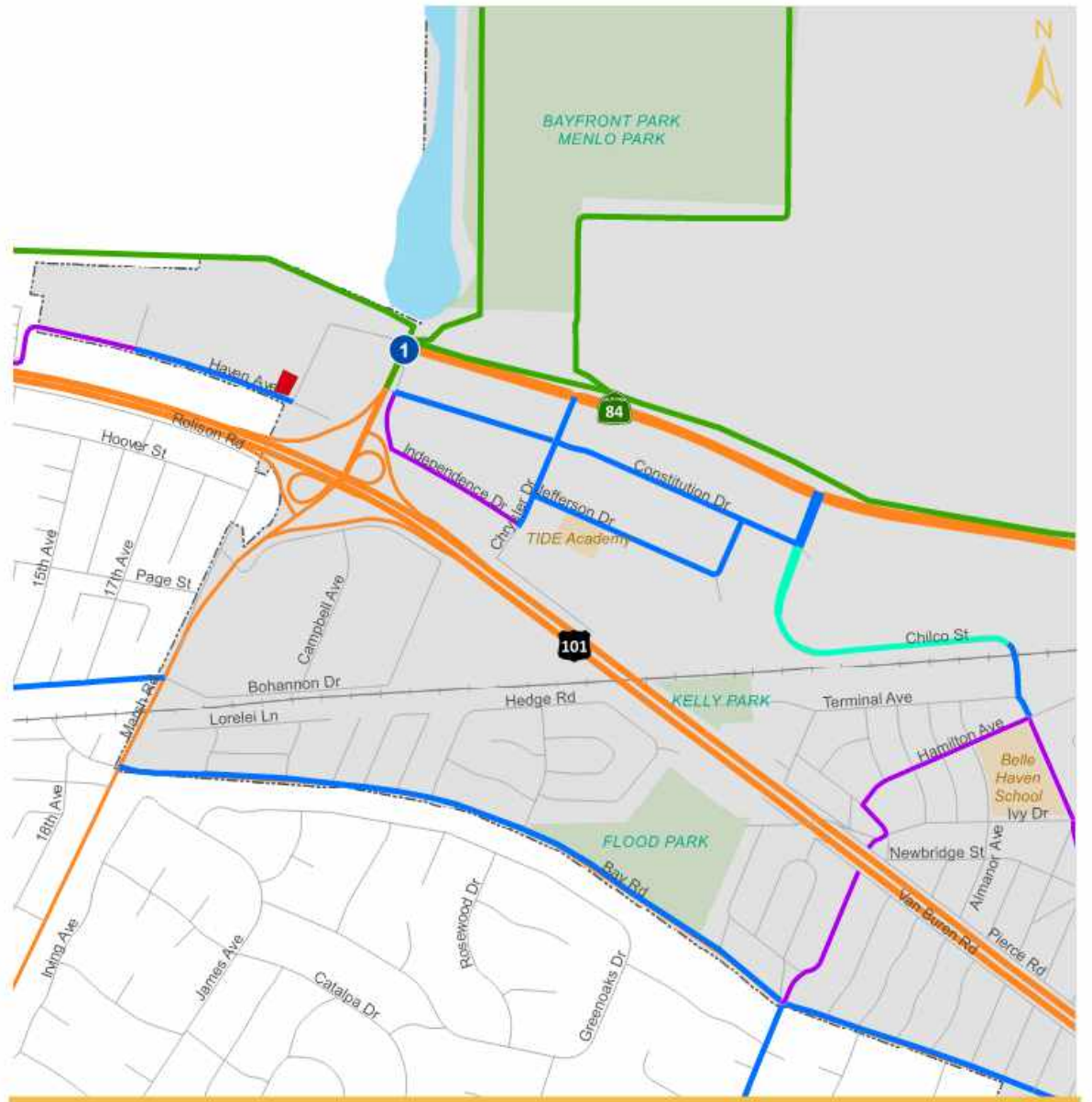


Figure 4: Bike Lane Facility Classifications










Source: Kittelson & Associates, Inc. 2024

Figure 5: Existing Bicycle Facilities



**LEGEND**

-  Project Site
-  Study Intersection
-  City Boundary
-  Class I Bike Path
-  Class II Bike Lane
-  Class III Bike Route
-  Class IV Separated Bikeway

0 0.25  
Miles

Data Sources: MTC Open Data Library, City of Menlo Park



# TRANSIT SERVICE

The current transit services serving the study area are operated by the San Mateo County Transit District (SamTrans) and Commute.org. Route 270, operated by SamTrans, includes two stops along Haven Avenue near the Project site. Additionally, Commute.org runs a shuttle service, the M3-Marsh Road Shuttle, which also makes stops on Haven Avenue. Details for both routes are shown in **Table 3**.

As shown in **Figure 6**, Route 270 stops at the Redwood City Transit Center and Kaiser Hospital and travels along Bay Road onto Marsh Road before continuing along Haven Road/Bayshore Road within the Project area. Transfers can be made to SamTrans Routes ECR, EPX, 276, 278, 295, 296, and 397 and to Caltrain at Redwood City Station. As of May 2024, Route 270 operates with one-hour headways on weekdays between about 6:30 AM and 6:30 PM and on Saturdays between 7:30 AM and 6:30 PM.

The M3-Marsh Road Shuttle offers morning and afternoon peak service between Menlo Park Caltrain and the Marsh Road business parks on Bohannon Drive, Constitution Drive, Jefferson Drive, and Haven Avenue, as shown in **Figure 7**. The M3-Marsh Road Shuttle schedule operates with one-hour headways on weekdays from 6:30 AM to 10:00 AM and from 4:00 PM to 6:30 PM to synchronize with the peak period Caltrain schedule.

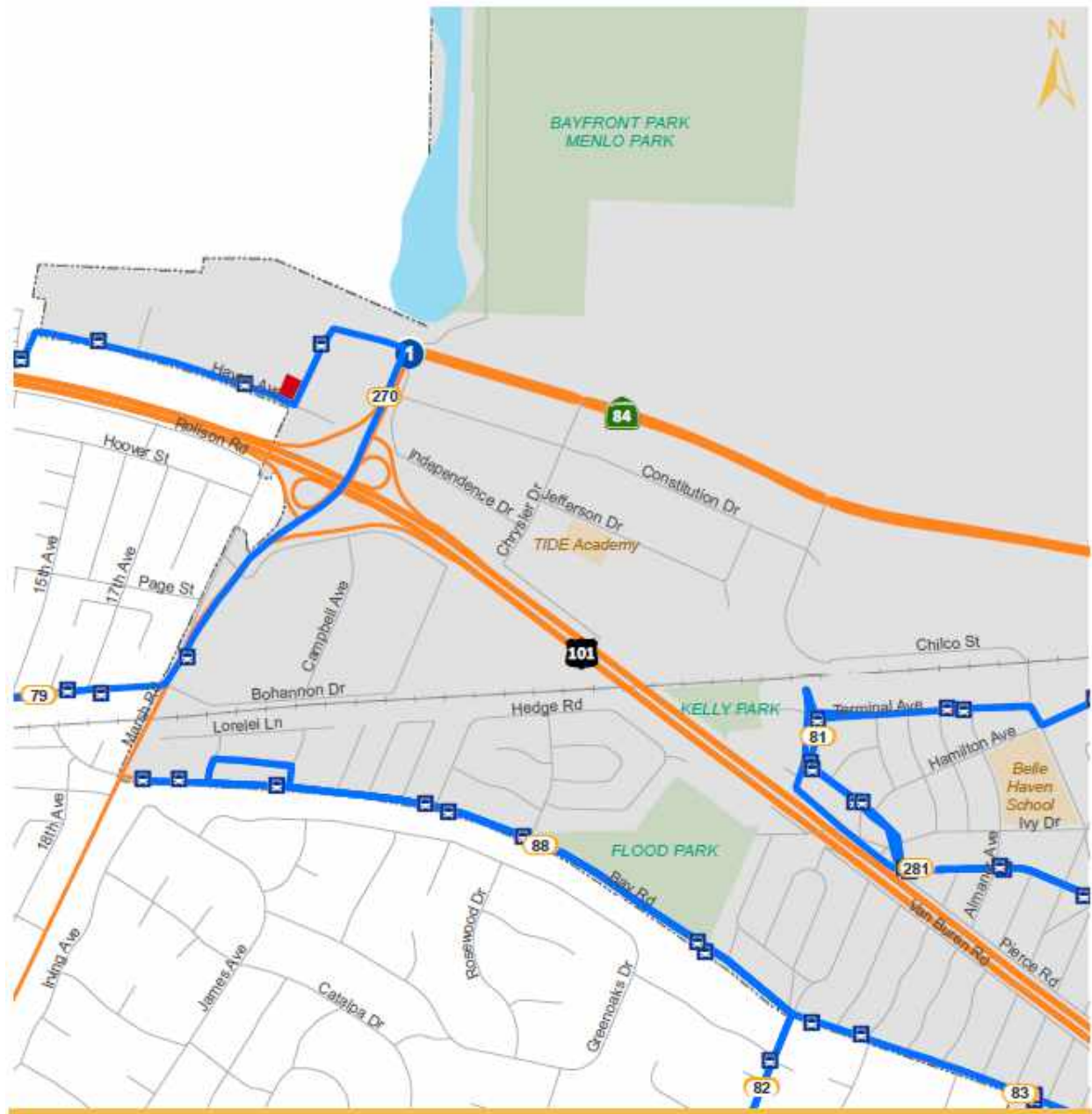
**Table 3: Transit Routes near the Project**

Route	Description	Service Time	Peak Hour Headways (as of May 2024)
270	Redwood City Caltrain – Florence/17 <sup>th</sup> Loop	Weekdays: 6:30 AM – 6:30 PM Weekends: 7:30 AM to 6:30 PM	60 minutes
M3-Marsh Road Shuttle	Menlo Park Caltrain – Marsh Road business parks	Weekdays: 6:30 AM – 10:00 AM 4:00 PM – 6:30 PM	60 minutes

Source: SamTrans and City of Menlo Park, 2023



Figure 6: SamTrans Routes and Bus Stops Near the Site



**LEGEND**

-  Project Site
-  SamTrans Stops
-  Study Intersection
-  SamTrans Routes
-  City Boundary

0 0.25  
Miles

Data Source: MTC Open Data Library, City of Menlo Park, SamTrans





# INTERSECTION LEVEL OF SERVICE

The collected traffic counts, existing lane configurations, and traffic controls for the study intersection were used to assess the Existing Conditions LOS and delay.

Figure 8 shows the lane configurations and traffic control at the study intersection under Existing Conditions. The intersection turning movement counts for each peak hour under Existing Conditions are provided in Figure 9. Detailed calculation worksheets for the Existing Conditions are provided in Appendix B. These delay and LOS values are compared to the City of Menlo Park thresholds outlined in the TIA guidelines, discussed in the previous section.

As mentioned in the previous section, intersection analyses for the study intersection were conducted using the operational methodologies outlined in the Highway Capacity Manual (HCM) 7<sup>th</sup> Edition methodology, calculated using Vistro software. Table 4 displays the existing intersection LOS operations of the study intersection. As shown in the table, the study intersection is currently operating at LOS E in the AM peak hour and LOS D in the PM peak hour.

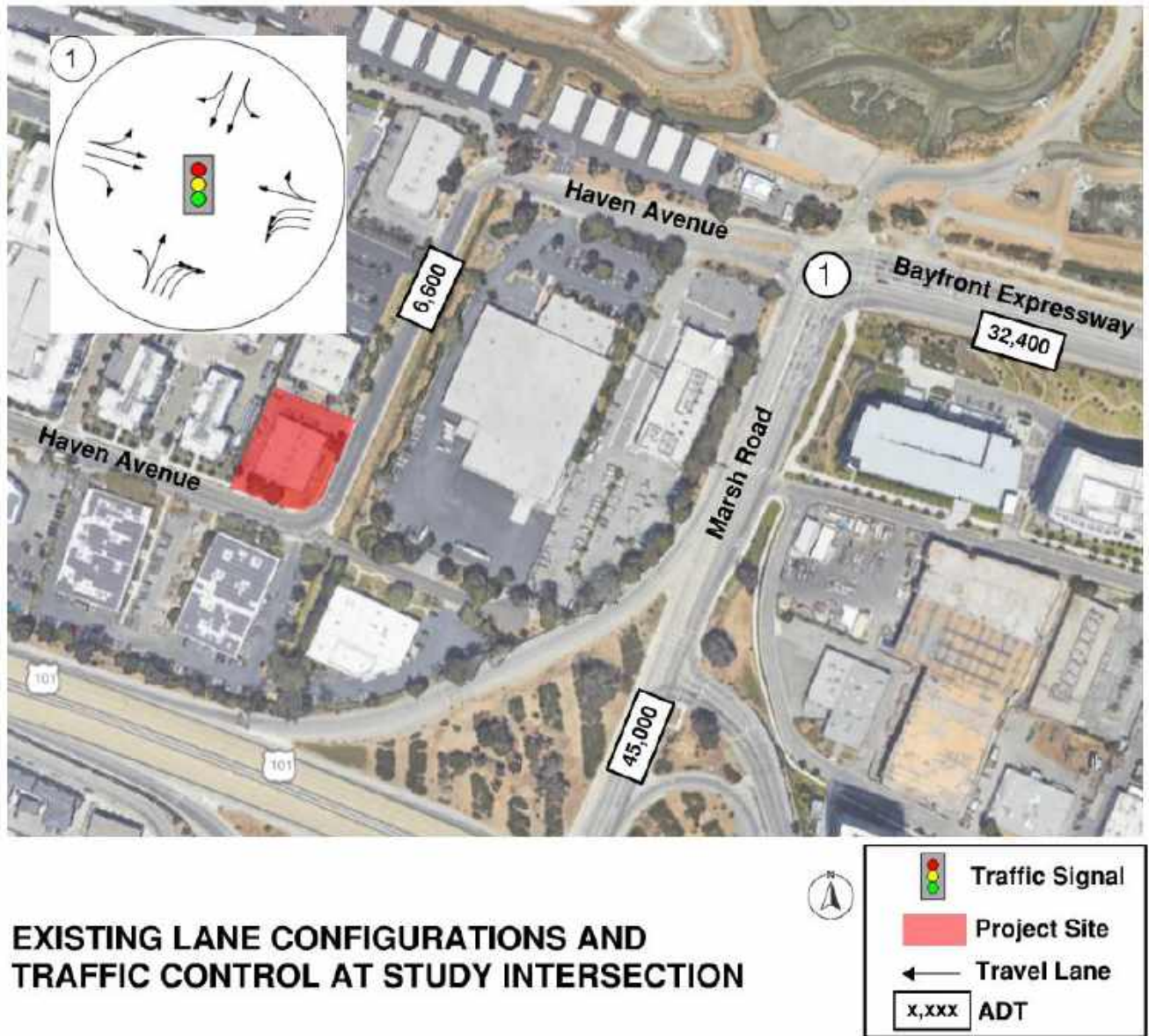
**Table 4: Existing Conditions Intersection Operation Results**

#	Intersection Name	Control Type	AM		PM	
			Delay	LOS	Delay	LOS
1	Haven Avenue/Bayfront Expressway and Marsh Road	Signalized	<b>68.0</b>	<b>E</b>	43.2	D

Notes: **Bold** lettering indicates an intersection that does not meet the City's minimum acceptable design LOS (maintaining LOS D at all City-controlled signalized intersections)  
 AM = weekday a.m. peak hour; PM = weekday p.m. peak hour; LOS = Level of Service; Delay reported in seconds per vehicle  
 Source: Highway Capacity Manual 7th Edition; Kittelson & Associates, 2024

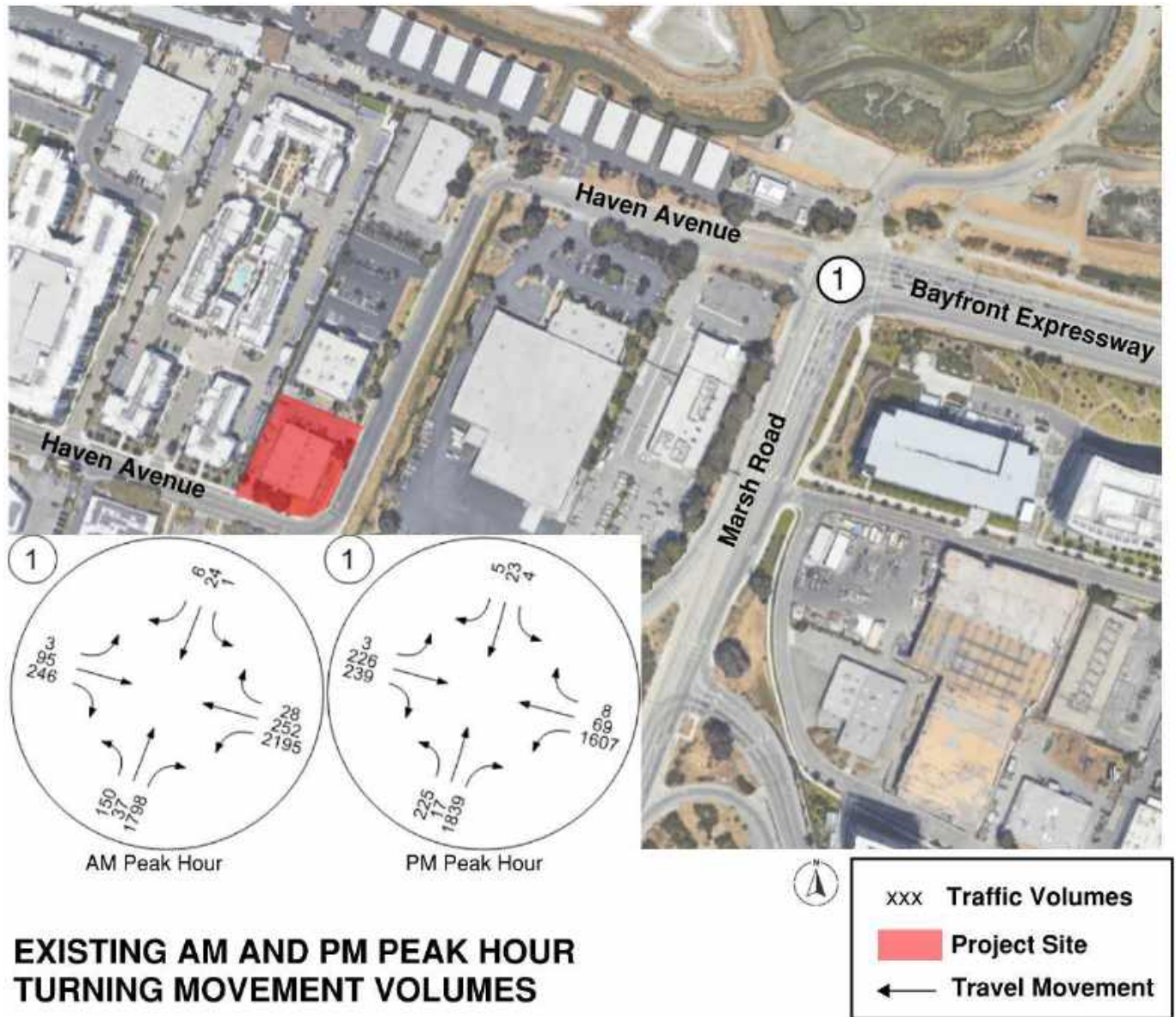


Figure 8: Existing Lane Configurations and Traffic Control at Study Intersection



Source: Average Daily Traffic (ADT) Counts for 2023 were obtained from <https://menlopark.maps.arcgis.com/apps/dashboards/ca1d1781eb284056b55865e05c8df9da>

Figure 9: Existing Conditions Peak Hour Turning Movement Volumes







## Section 3 CEQA VMT Analysis

# CEQA VMT ANALYSIS

Senate Bill 743 required the Governor's OPR to establish a new metric for identifying and mitigating transportation impacts within CEQA in an effort to meet the State's goals to reduce greenhouse gas (GHG) emissions, encourage infill development, and improve public health through more active transportation. OPR identified VMT as the required transportation metric and beginning July 1, 2020, VMT (not LOS) is the legally required threshold for transportation impacts pursuant to CEQA. OPR has identified recommendations regarding assessment of VMT and thresholds of significance, but the City may adopt local metrics and thresholds. Adoption of a local VMT threshold requires City Council approval; the Menlo Park City Council approved the VMT thresholds for incorporation into the updated Transportation Impact Analysis (TIA) guidelines on June 16, 2020. The VMT Guidelines were subsequently amended by the City Council on January 11, 2022.

## VMT EXEMPTION CRITERIA

**Table 5** presents the criteria along with explanations for meeting or not meeting the screening criteria for a detailed VMT analysis. As indicated in the table, the Project does not meet any exemption criteria. Therefore, a detailed VMT analysis is required.

**Table 5: VMT Exemption Criteria and Discussion**

Exemption Criteria	Criteria Met (Yes/No/N/A)	Reason
1. Projects generating less than 100 vehicle trips/day	No	As indicated in the travel demand memorandum submitted on March 18, 2024, the Project generates 508 daily trips, which is more than 100 vehicle trips/day.
2. Local servicing retail projects and other commercial projects where the total square footage is 10,000 square feet or less	N/A	This criterion is not applicable as the Project does not include any commercial or retail land use.
3. Residential or office developments located in a low VMT area (defined below) and within ½ mile of an existing "major transit stop" or within ½ mile of a "high-quality transit corridor"	No	The review of Citywide travel demand model confirms that the Project is not located in a low VMT area. The Project is located in TAZ 3071 as shown in <b>Figure 10</b> . Although there are bus stops within ½ miles of the Project site, there is not adequate service for these to be considered a major transit stop or part of a high-quality transit corridor.
4. Affordable housing developments with 100 percent affordable units, either in a low VMT area or within ½ mile of an existing major transit stop or within ½ mile of a high-quality transit corridor	N/A	The Project does not include 100 percent affordable units.

Exemption Criteria	Criteria Met (Yes/No/N/A)	Reason
5. Local serving public facilities where the total new or added square footage is 10,000 square feet or less, such as libraries, police stations, fire stations or parks. Facility type and size outside the description shall provide evidence of local serving status to City satisfaction.	N/A	The Project is not a local serving public facility.
6. Projects in compliance with the El Camino Real and Downtown Specific Plan	N/A	The Project is outside of El Camino Real and Downtown Specific Plan boundary.

Source: City of Menlo Park, TIA Guidelines, 2022

## VMT IMPACT ASSESSMENT

The VMT assessment was conducted to determine the Project's VMT contribution for impact assessment under CEQA and SB 743. Kittelson used the City's most recent 2020 Travel Demand Model, updated by Hexagon Transportation Consultants, to estimate the VMT per capita for the Project. Based on the latest citywide travel demand model, and amended VMT Guidelines dated January 11, 2022, the regional average residential VMT per capita is 13.1. Therefore, the City's residential VMT impact threshold, set at 15% below the regional average, equates to 11.2 daily VMT per capita.

The City's Travel Demand Model indicates that the average VMT per capita within the Project's traffic analysis zone (TAZ) 3071 is 15.3 VMT per capita, as shown in **Figure 10**. Consequently, the Project will require a 27% trip reduction for the Project to reduce VMT and attain the residential threshold of 11.2 VMT per capita, with appropriate Transportation Demand Management (TDM) measures.

City staff has indicated that the City's TIA guidelines are anticipated to be updated later this year to align with the City/County Association of Governments (C/CAG) TDM requirements. The Project is required to follow adopted C/CAG's updated TDM policies (January 1, 2022), which are uniformly-applied development policies that require the Project (qualifying as a "Large Residential Project") to implement TDM measures that can achieve a 35% trip reduction based on the C/CAG TDM checklist.

## MITIGATION FOR EXCEEDING VMT SIGNIFICANCE CRITERIA

The Project applicant has submitted a TDM plan as a part of the project approval process that has the potential to exceed the 35% TDM trip reduction target for this Project. It is assumed that the percent reduction in trips will equate to the same percentage reduction in VMT per capita. While there are several factors that could influence the relationship between VMT per capita and trip reduction, such as trip lengths, mode shifts, vehicle occupancy and variation in travel pattern, the assumption is because different TDM measures will affect different types of trips, resulting in change in VMT per capita to be comparable with trips. Because the TDM's trip reduction would exceed the 27% VMT per capita reduction needed to result in a per-capita Project VMT that is 15% below the existing average, the Project would be able to meet the trip reduction needed to reduce the VMT impacts to less than significant with TDM measures.

The VMT Assessment concludes the Project would generate 15.3 VMT per capita. The Project must reduce VMT by a minimum of 27 percent, to 11.2 VMT per capita, to reduce the Project's impacts to less-than-

significant levels. The 35 percent reduction in vehicle trips required by the C/CAG TDM Policy is sufficient to reduce the Project's VMT to less-than-significant levels. Based on the condition of approval of the Project's TDM plan, the VMT impact from the Project would be less than significant with proposed TDM measures.

The Project would not conflict with applicable plans, ordinances, and policies that address the VMT requirements. The Project is consistent with the ConnectMenlo General Plan, which requires new development to mitigate its impact on VMT per service population by minimizing the number of vehicle trips and providing appropriate bicycle, pedestrian and transit connections (ConnectMenlo CIRC-2.14). Additionally, the project is consistent with the City of Menlo Park 2023-2031 Housing Element which requires implementation of VMT Reduction measures for multifamily housing development that do not screen out from VMT impact analysis.





## Section 4 Local Transportation Analysis

# LOCAL TRANSPORTATION ANALYSIS

## NEAR-TERM (2027) CONDITIONS

This section presents Near-term (2027) traffic conditions, which are defined as conditions just prior to the completion and opening of the proposed Project. Near-term represents cumulative conditions for a short-term horizon year and this scenario includes transportation network changes, land use changes and traffic generated from approved development projects in the area.

### PROGRAMMED/PLANNED TRANSPORTATION FACILITY IMPROVEMENTS

The Haven Avenue streetscape improvement plan will restripe the southbound Haven Avenue approach at Marsh Road to provide a shared through-left lane, a shared through-right lane and a right-turn only lane, the planned geometry is shown in **Figure 11**.

### INTERSECTION LEVEL OF SERVICE

The 2020 Travel Demand Model, developed by Hexagon Transportation Consultants, was used to develop the future volume forecast for Near-term Conditions. The model includes future development throughout the region. Base year (Year 2019) and future year (Year 2040) forecasts were extracted from the model to develop an incremental growth between the estimated existing traffic counts (2019) and the cumulative model horizon year (2040). Traffic volumes for the Near-term Conditions were calculated using the citywide travel demand model. The projected turning movement volumes for each peak hour under Near-term Conditions are provided in **Figure 12**. **Table 6** shows the Near-term Conditions intersection operations for the AM and PM peak hours. With the intersection improvements and signal timing optimization, the study intersection is expected to operate at an acceptable LOS in both peak hours. Detailed calculation worksheets for the Near-term Conditions are provided in **Appendix C**.

**Table 6: Near-term Conditions Intersection Operations Results**

#	Intersection Name	Control Type	AM		PM	
			Delay	LOS	Delay	LOS
1	Haven Avenue/Bayfront Expressway/Marsh Road	Signalized	47.0	D	53.1	D

Notes:

AM = weekday a.m. peak hour; PM = weekday p.m. peak hour; LOS = Level of Service; Delay reported in seconds per vehicle

Source: Highway Capacity Manual 7th Edition; Kittelson & Associates, 2024



Figure 11: Near-term and Cumulative Conditions Lane Configuration and Traffic Control

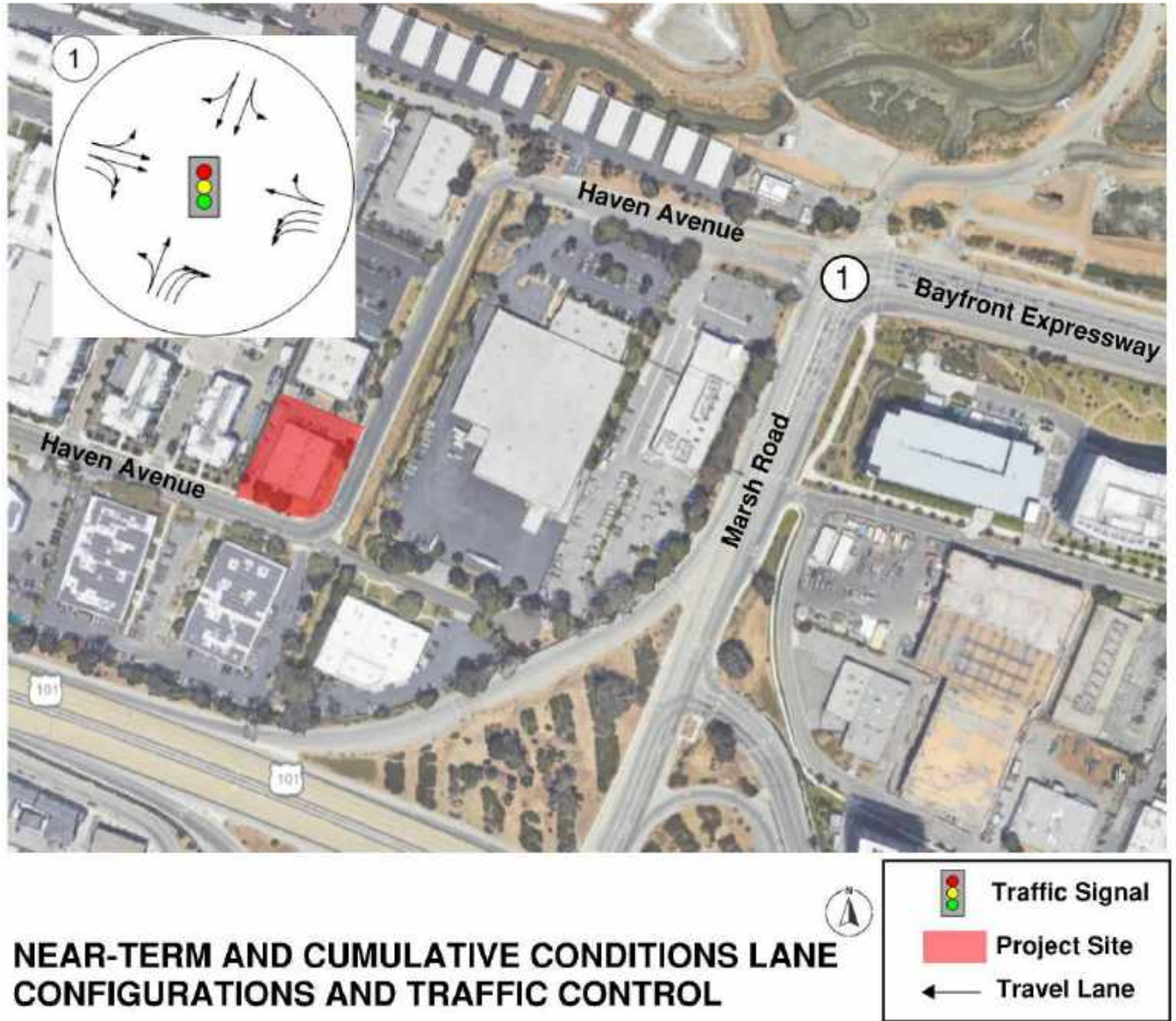
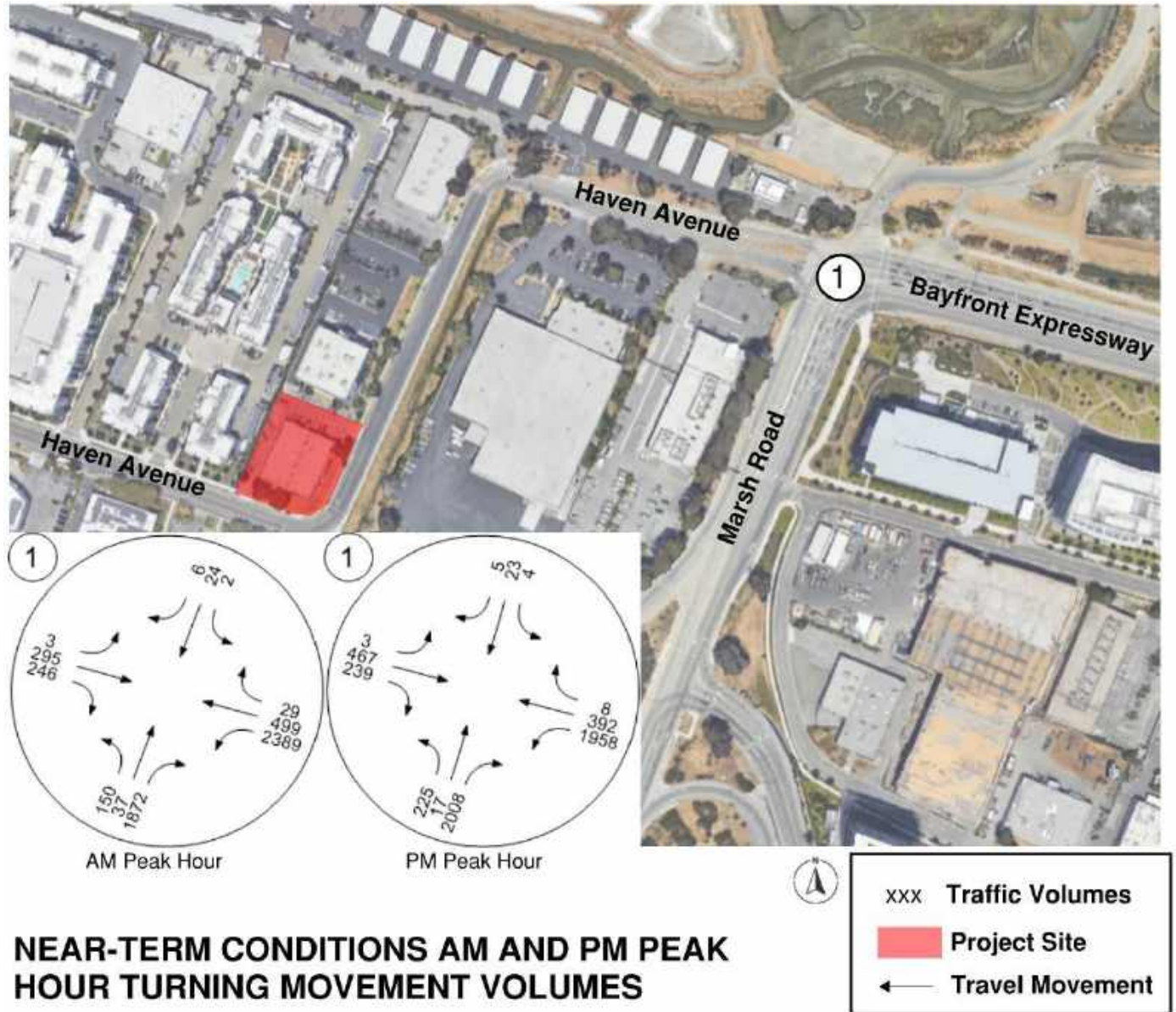




Figure 12: Near-term Conditions Peak Hour Turning Movement Volumes



# PROJECT TRAVEL DEMAND

## TRIP GENERATION

Trip generation is a key consideration for determining the local effects of the Project on the transportation network. Trip generation rates published by the Institute of Transportation Engineers (ITE) Trip Generation Manual 11th Edition were used to estimate the number of trips generated by the proposed Project. ITE trip estimates are associated with specific land use codes:

- Mid-Rise Multifamily Housing (ITE Land Use Code - 221) is used for the Project peak hour and daily trip generation.
- General Office Building (ITE Land Use Code – 710) is only used for the existing commercial space daily trip generation, since the peak hour trips were collected at the site driveways. Kittelson has used General Office Use instead of Commercial Use to provide credit for the existing land use. This decision was made after discussions with City staff, considering the surrounding land uses and current operations of the existing building.

**Table 7** displays the trip rates according to these ITE land use codes for Daily, AM and PM peak hours.

**Table 7: Trip Generation Rates**

Land Use	Source	Units	Weekday Daily Rate	Weekday AM Peak Hour			Weekday PM Peak Hour		
				Rate	In %	Out %	Rate	In %	Out %
Mid-Rise Multi-Family Housing	Land Use Code – 221 General Urban/Suburban <sup>1</sup>	DU	4.54	0.37	23	77	0.39	61	39
General Office Building <sup>2</sup>	Land Use Code – 710 General Urban/Suburban <sup>1</sup>	KSF	10.84	1.52	88	12	1.44	17	83

Notes: KSF- 1,000 Square Feet, DU - Dwelling Units

<sup>1</sup> Source: ITE Trip Generation Manual, 11th Edition

<sup>2</sup> For trip generation estimates, Kittelson has used General Office Use instead of Commercial Use to provide credit for the existing land use. This decision was made after discussions with City staff, considering the surrounding land uses and current operations of the existing building.

**Table 8** shows the potential trips generated by the Project. As mentioned in the previous section, the Project will replace the existing commercial use which is currently under operation at the time of data collection. Therefore, the existing trips generated at the Project site are credited toward the proposed Project trips. Ingress and egress driveway traffic to and from the existing land use were collected on March 5th, 2024, for both the AM and PM peak periods. The traffic counts at the two driveways are provided in **Appendix D**. Daily trips generated by the existing commercial space were calculated using the ITE trip generation rate, given the similarity observed between the estimated AM and PM peak hour trips using the ITE trip generation manual and the actual existing trip counts.

The City/County Association of Governments (C/CAG) Traffic Demand Management (TDM) policy requires large projects generating more than 499 daily trips to implement TDM to achieve a 35 percent trip reduction.<sup>4</sup> As shown in the table, the Project would generate 508 total daily trips and 396 net daily trips,

<sup>4</sup> City/County Association of Government of San Mateo County. Transportation Demand Management Implementation Guide, March 2021, access from [https://ccag.ca.gov/wp-content/uploads/2021/03/CCAG\\_TDM-Policy-Update\\_Implementation-Guide\\_Draft\\_3-24-2021\\_v2b.pdf](https://ccag.ca.gov/wp-content/uploads/2021/03/CCAG_TDM-Policy-Update_Implementation-Guide_Draft_3-24-2021_v2b.pdf)

potentially categorizing it as a large project. Following the implementation of a 35 percent TDM reduction and the replacement of the existing land use, the Project would result in 218 net daily trips, including 16 net new trips in the AM peak hour and 15 net new trips in the PM peak hour. However, due to the removal of the existing commercial space, there would be negative volumes of inbound trips in the AM peak hour. To be conservative, for movements with negative volumes, the negative volumes will be replaced with zero (0) in the trip assignments.

**Table 8: Proposed Project Net Trip Generation Estimates**

Land Use (ITE Land Use Code)	Unit	Size	Weekday Daily	Weekday AM Peak Hour			Weekday PM Peak Hour		
				In	Out	Total	In	Out	Total
<b>Proposed Project</b>									
Mid-Rise Multifamily Housing (LU-221) (1)	DU	112	508	9	32	41	27	17	44
TDM Reduction (35%) (2)			(178)	(3)	(11)	(14)	(9)	(6)	(15)
<b>Total Proposed Project Trips</b>			<b>331</b>	<b>6</b>	<b>21</b>	<b>27</b>	<b>18</b>	<b>11</b>	<b>29</b>
<b>Existing Project (Credits for Existing Land Use)</b>									
General Office Building (LU-710) (3)	KSF	10.355	(112)	(9)	(2)	(11)	(6)	(8)	(14)
<b>Net New Project Trips (Total Proposed Project Trips – Existing Trips at Project Site)</b>			<b>218</b>	<b>-3</b>	<b>19</b>	<b>16</b>	<b>12</b>	<b>3</b>	<b>15</b>

Notes: KSF- 1,000 Square Feet, DU - Dwelling Units

1) Source: ITE Trip Generation Manual, 11th Edition

2) C/CAG TDM policy requires 35 % TDM reduction for large projects that generate more than 499 daily trips.

3) Ingress and egress trips from the existing land use were collected at the site driveways on March 5th, 2024. Daily trips were estimated based on the ITE Trip Generation Manual.

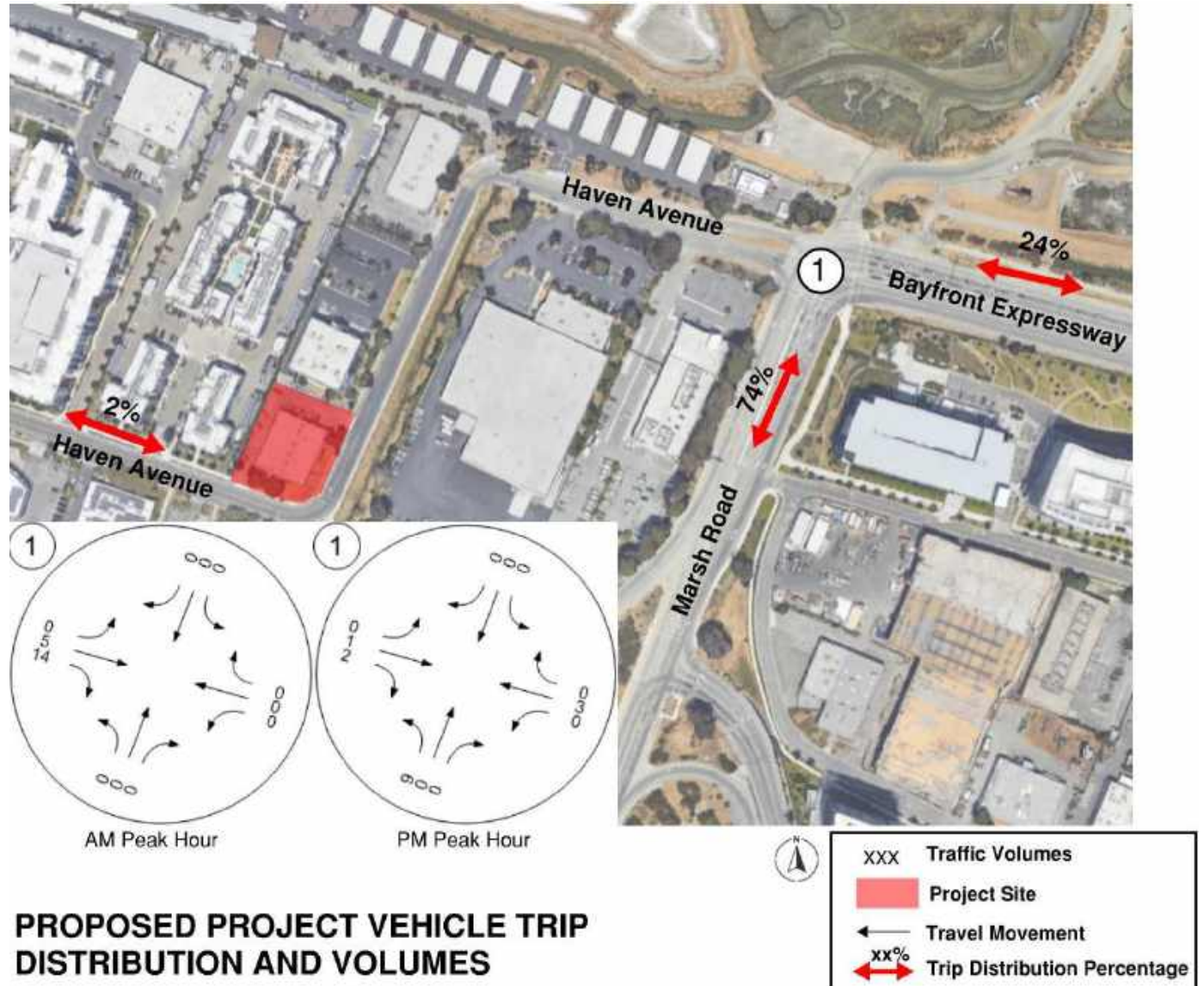
## TRIP DISTRIBUTION

The vehicle trip distribution assumptions are based on the City's Travel Demand Model, existing travel patterns combined with our understanding of the Project area, such as potential employer distribution, various land uses, and the presence of trip generators and attractors.

As described in the Trip Generation section, the proposed Project would generate 16 net new trips in the AM peak hour and 15 net new trips in the PM peak hour. **Figure 13** shows the proposed Project vehicle trip distribution percentages and volumes for AM and PM peak hours.



Figure 13: Proposed Project Vehicle Trip Distribution and Volumes



# NEAR-TERM PLUS PROJECT CONDITIONS

This section presents Near-term Plus Project traffic conditions, which are defined as conditions right after the completion of the proposed Project.

## INTERSECTION LEVEL OF SERVICE

Traffic volumes for the Near-term Plus Project Conditions were developed by combining the Near-term estimated traffic volumes with the Project volumes. The resulting Near-term Plus Project intersection turning movement volumes are shown in **Figure 14**.

**Table 9** displays the Near-term Plus Project intersection operations for the AM and PM peak hours, respectively. Detailed calculation worksheets are provided in **Appendix E**. As previously mentioned, a Project is considered potentially noncompliant with local policies if an intersection downgrades from an acceptable level to an unacceptable one or experiences an increase of 23 seconds or more in average vehicle delay. Additionally, for local approaches to State-controlled signalized intersections, an increase of more than 0.8 seconds in average delay for vehicles on the most critical movements is also considered noncompliance with local policies for intersections operating at LOS E or F. As shown in the table, the study intersection is anticipated to maintain an acceptable LOS (LOS D or better) with the Project during both peak hours. Therefore, the Project complies with local policies in the near-term.

**Table 9: Near-term Plus Project Conditions Intersection Operations Results**

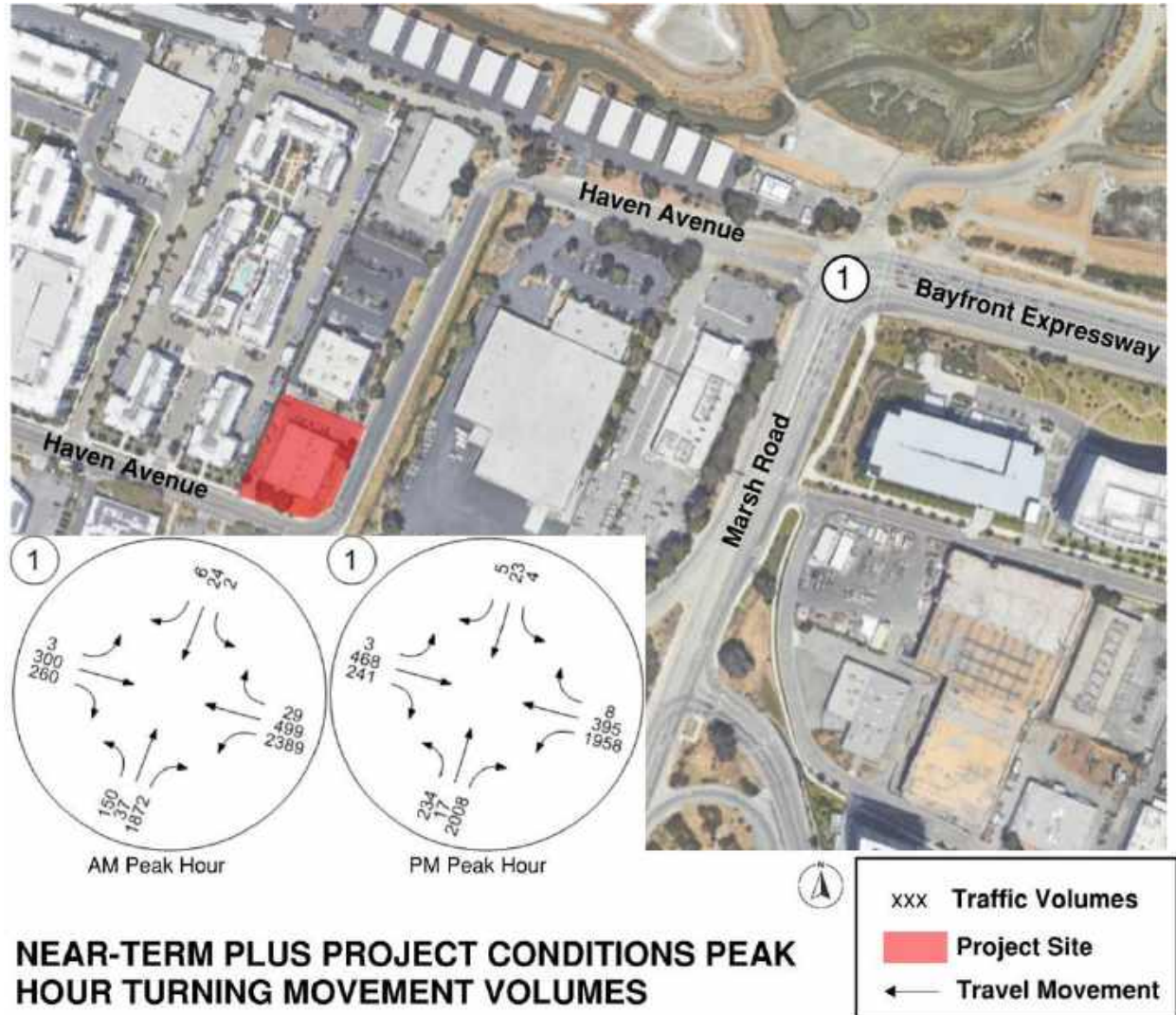
#	Intersection	Control Type	Peak Hour	Near Term		Near Term + Project		Change in Delay
				Delay	LOS	Delay	LOS	
1	Haven Avenue/Bayfront Expressway and Marsh Road	Signalized	AM	47.0	D	47.2	D	0.2
			PM	53.1	D	53.2	D	0.1

Notes:

AM = weekday a.m. peak hour; PM = weekday p.m. peak hour; LOS = Level of Service; Delay reported in seconds per vehicle

Source: Highway Capacity Manual 7th Edition; Kittelson & Associates, 2024

Figure 14: Near-term Plus Project Conditions Peak Hour Turning Movement Volumes



# CUMULATIVE (2040) CONDITIONS

This section presents the anticipated Cumulative conditions expected by 2040 and the effect of the future vehicular volumes on the study intersection.

## LAND USE DEVELOPMENT AND TRANSPORTATION NETWORK CHANGES

The City's most recent 2020 Travel Demand Model was used to develop the future volume forecast for Cumulative Conditions. The model includes future development throughout the region and is consistent with the ConnectMenlo General Plan and other recently approved general plan amendments within the city. Therefore, the traffic forecasts project growth on all roads in Menlo Park and increases in traffic volumes due to regional growth by 2040. Base year (Year 2019) and future year (Year 2040) forecasts were extracted from the model to develop an incremental growth between the estimated existing traffic counts (2019) and the cumulative model horizon year (2040). The intersection lane configurations under cumulative conditions were assumed to be the same as described under the Near-term (2027) Conditions.

## INTERSECTION LEVEL OF SERVICE

The projected turning movement volumes for each peak hour under Cumulative Conditions are provided in **Figure 15**. Based on these volumes and lane configurations, the cumulative operations at the study intersection are shown in **Table 10**. Detailed calculation worksheets for the Cumulative Conditions are provided in **Appendix F**. As shown in the table, the study intersection is expected to operate at LOS D in the AM peak hour and LOS E in the PM peak hour under Cumulative Conditions.

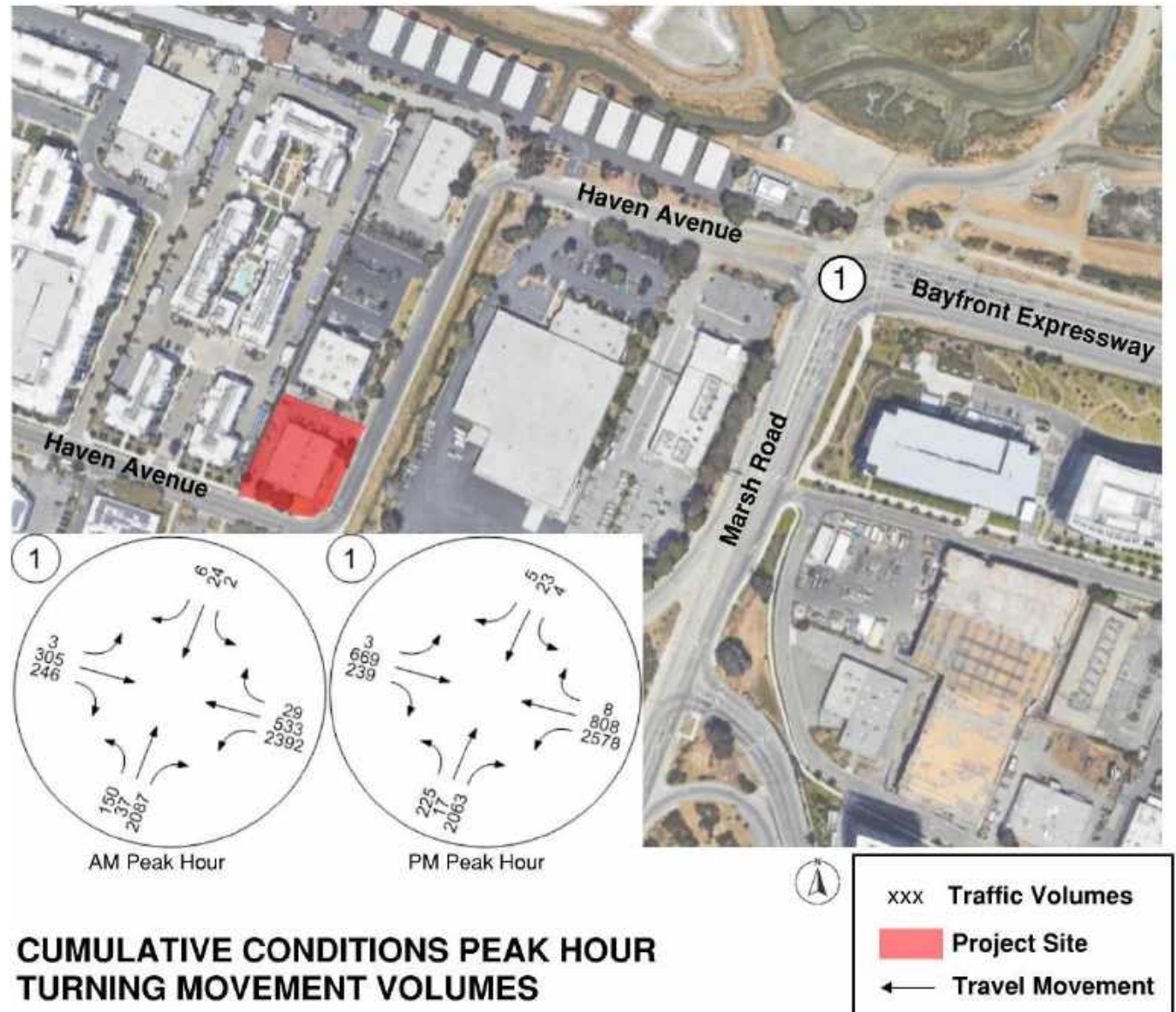
**Table 10: Cumulative Conditions Intersection Operations Results**

#	Intersection Name	Control Type	AM		PM	
			Delay	LOS	Delay	LOS
1	Haven Avenue/Bayfront Expressway and Marsh Road	Signalized	51.6	D	<b>65.0</b>	<b>E</b>

Notes:  
**Bold** lettering indicates an intersection that does not meet the City's minimum acceptable design LOS (maintaining LOS D at all City-controlled signalized intersections)  
 AM = weekday a.m. peak hour; PM = weekday p.m. peak hour; LOS = Level of Service; Delay reported in seconds per vehicle  
 Source: Highway Capacity Manual 7th Edition; Kittelson & Associates, 2024



Figure 15: Cumulative Conditions Peak Hour Turning Movement Volumes





# CUMULATIVE PLUS PROJECT CONDITIONS

This section describes the effect of the proposed Project on traffic operations under Cumulative Conditions. Traffic volumes for the Cumulative Plus Project Conditions were developed using the same additive approach used for the Near-term (2027) Plus Project volumes.

## INTERSECTION LEVEL OF SERVICE

Based on these volumes and lane configurations, the Cumulative Plus Project volumes are shown in **Figure 16** and the operations at the study intersections are shown in **Table 11**. Detailed calculation worksheets for the Cumulative Plus Project Conditions are provided in **Appendix G**. As previously mentioned, a project is considered potentially noncompliant with local policies if the addition of project traffic causes an intersection to downgrade from an acceptable level to an unacceptable one or results in an increase of 23 seconds or more in average vehicle delay. Additionally, for local approaches to state-controlled signalized intersections, an increase of more than 0.8 seconds in average delay for vehicles on the most critical movements is also considered noncompliance with local policies for intersections operating at LOS E or F. As shown in the table, the study intersection is expected to continue to operate at LOS D in the AM peak hour and LOS E in the PM peak hour under Cumulative Plus Project Conditions. The Project would cause the intersection to experience an increase of 0.3 seconds in the delay of the most critical movement. Therefore, the Project complies with local policies.

**Table 11: Cumulative Plus Project Intersection Operations Results**

#	Intersection	Control Type	Peak Hour	Critical Movement	Cumulative Year		Cumulative Year + Project		Change in Delay
					Delay	LOS	Delay	LOS	
1	Haven Avenue/Bayfront Expressway and Marsh Road	Signalized	AM	Overall	51.6	D	52.2	D	0.6
			PM	Overall	<b>65.0</b>	<b>E</b>	<b>65.3</b>	<b>E</b>	0.3
				Southbound	<b>131.3</b>	<b>F</b>	<b>131.6</b>	<b>F</b>	0.3

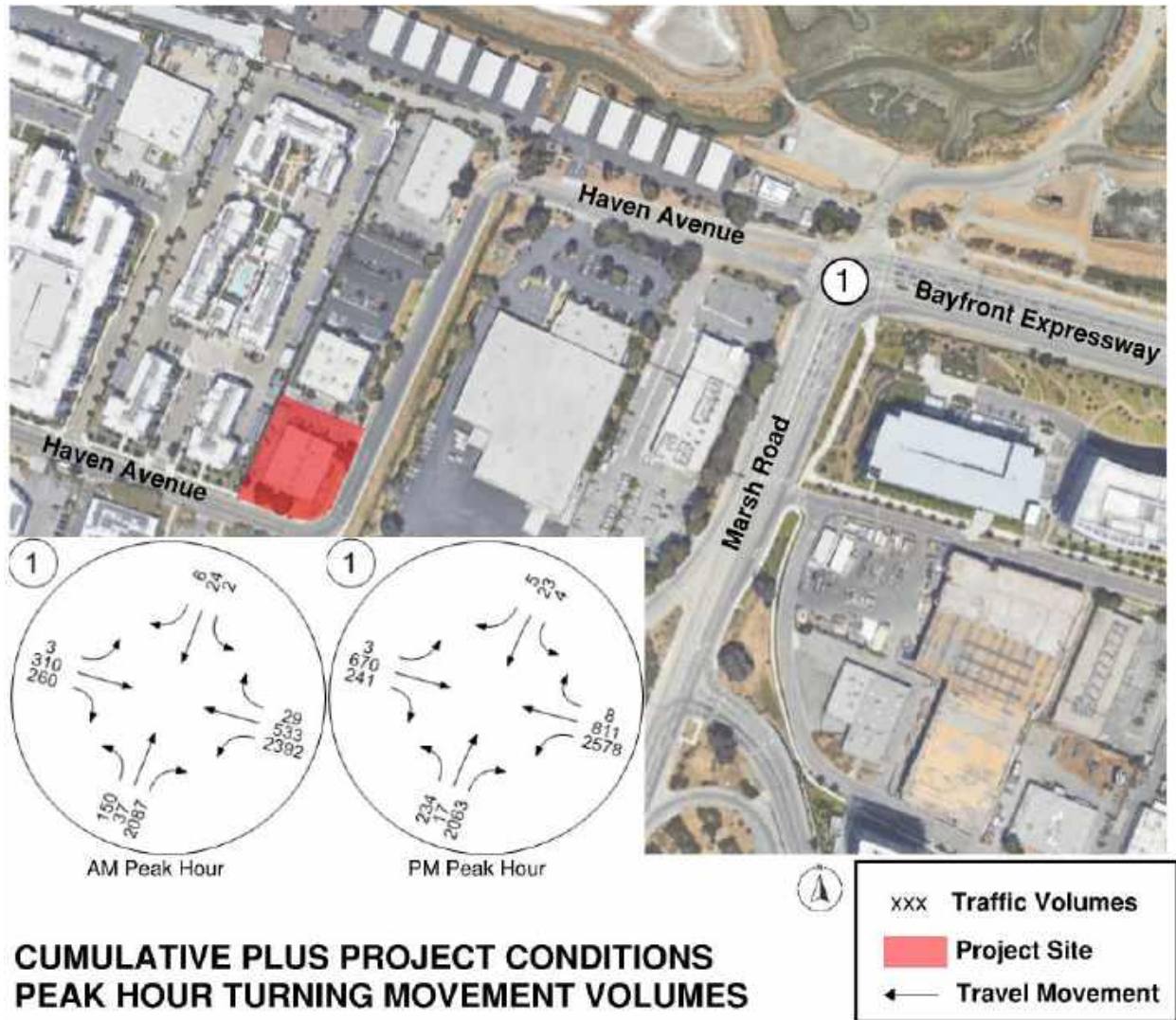
Notes:

**Bold** lettering indicates an intersection that does not meet the City's minimum acceptable design LOS (maintaining LOS D at all City-controlled signalized intersections)

AM = weekday a.m. peak hour; PM = weekday p.m. peak hour; LOS = Level of Service; Delay reported in seconds per vehicle

Source: Highway Capacity Manual 7th Edition; Kittelson & Associates, 2024

Figure 16: Cumulative Conditions Plus Project Peak Hour Turning Movement Volumes



## ADDITIONAL TRANSPORTATION ANALYSIS

This section describes additional transportation analysis related to site access and circulation of the proposed Project based on a review of the proposed site plan. This section includes analysis of the following items:

- Vehicular access and on-site circulation
  - Access driveway and drive aisles
  - Driveway sight distance
  - Trash collection
- Pedestrian, bicycle, and transit access
- Emergency vehicle access
- Parking assessment
- Construction
- 95<sup>th</sup> percentile queue analysis

The analysis in the following sections, while informed by adopted State and local standards, is driven by professional judgement. Citations are provided where applicable and available. References to the proposed Project characteristics and geometric features are per the most recent site plan dated June 2024.

### VEHICULAR ACCESS AND ON-SITE CIRCULATION

Site access and on-site circulation were evaluated using commonly accepted transportation design, planning principles and The City of Menlo Park Design Guidelines. The site access and circulation were evaluated to determine the adequacy of site driveways with regard to traffic volumes, geometric design, site distance, and truck access.

#### **Access Driveway and Drive Aisles**

The residential parking garages can be accessed via two entrances situated at the northeast corner of the building and south of the building on Haven Avenue, respectively.

- Residential Parking Entrance
  - Residential parking is available on the ground and second floors in the building. There are 99 vehicle parking spaces, including 5 disability parking spots.
  - The proposed two-way drive aisle is between 20 and 23 feet wide, which does not meet the 24-foot width requirement specified for two-way turning aisles for multi-family residentials, according to the City of Menlo Park Driveway Design Guidelines<sup>5</sup>.
  - The proposed slope for the parking garage ramps at two entrances is 1.8%, which is below the City's recommended driveway grade limit of 8 percent, as per the City of Menlo Park Driveway Grade Guidelines.<sup>6</sup>

---

<sup>5</sup>City of Menlo Park Driveway Design Guidelines, accessed from <https://www.menlopark.org/DocumentCenter/View/922/Driveway-Design-Guidelines-T-3>

<sup>6</sup>City of Menlo Park Driveway Grade Guidelines, accessed from <https://www.menlopark.org/DocumentCenter/View/925/Driveway-Grade-Guidelines-T-4>

## Driveway Sight Distance

Clear sight triangles identify areas at the corners of intersections of roads and driveways where views of approaching traffic should not be obstructed. The driveway design should provide sight distance of sufficient length so that drivers can control the operation of their vehicles to avoid impeding an unexpected object in the traveled way. A preliminary sight distance assessment was conducted for vehicles turning from the driveways onto Haven Avenue. The assessment evaluated the stopping site distance for vehicles exiting the Project driveways. For this analysis, the posted speed limit of 30 miles per hour on Haven Avenue was used based on the city's sight distance guidance<sup>7</sup>.

The driveway triangles in **Figure 17** shows the clear sight triangles at two Project driveways. Any landscaping added by the Project must be maintained properly to ensure it does not impede roadway visibility. The Zoning Ordinance Section 16.64.020 states that the maximum height of fences and hedges is three feet within the line of sight triangles at the intersection of two streets.

### ■ Recommendations

- Kittelson recommends the applicant confirm that the proposed vegetation will not hinder the visibility of pedestrians and oncoming traffic on Haven Avenue from the driveway.

## Trash Collection

Trash collection will occur along Haven Avenue south adjacent to the first-floor garage entrance. Garbage trucks will not enter the building. **Figure 18** shows the trash pick-up location. Trash receptacles will be staged by property management outside the flow of traffic. Due to space constraints on the property, a portion of the curb will be carved out to provide a place for trash collection service. Several factors influenced this design, including the absence of parking along the property's frontage, the necessity to minimize disruption to the bike lane, and the need to ensure clear sight lines at the corner of Haven Avenue. The proposed design enables trash collection trucks to pull off the street for safe servicing without impeding the existing bike lane.

## PEDESTRIAN ACCESS

Pedestrians have access to the site via three entries on Haven Avenue, one situated on the south side of the building (leading to the lobby), and two on the east side, as shown in **Figure 19**. The Project proposes to add sidewalks along the entire parcel boundaries.

The Project would generate activities that would interfere with access or circulation for people walking to, from, or passing by the site. Vehicles exiting through the garage doors might impede residents walking by on the sidewalks. To address this, the implementation of reduced speed limits and effective warning systems would ensure pedestrians can safely cross the garage entrance.

### ■ Recommendations

- Kittelson recommends that the Project applicant install warning devices that are both visible and auditory to indicate that vehicles are exiting the parking garages to ensure safety of pedestrians.

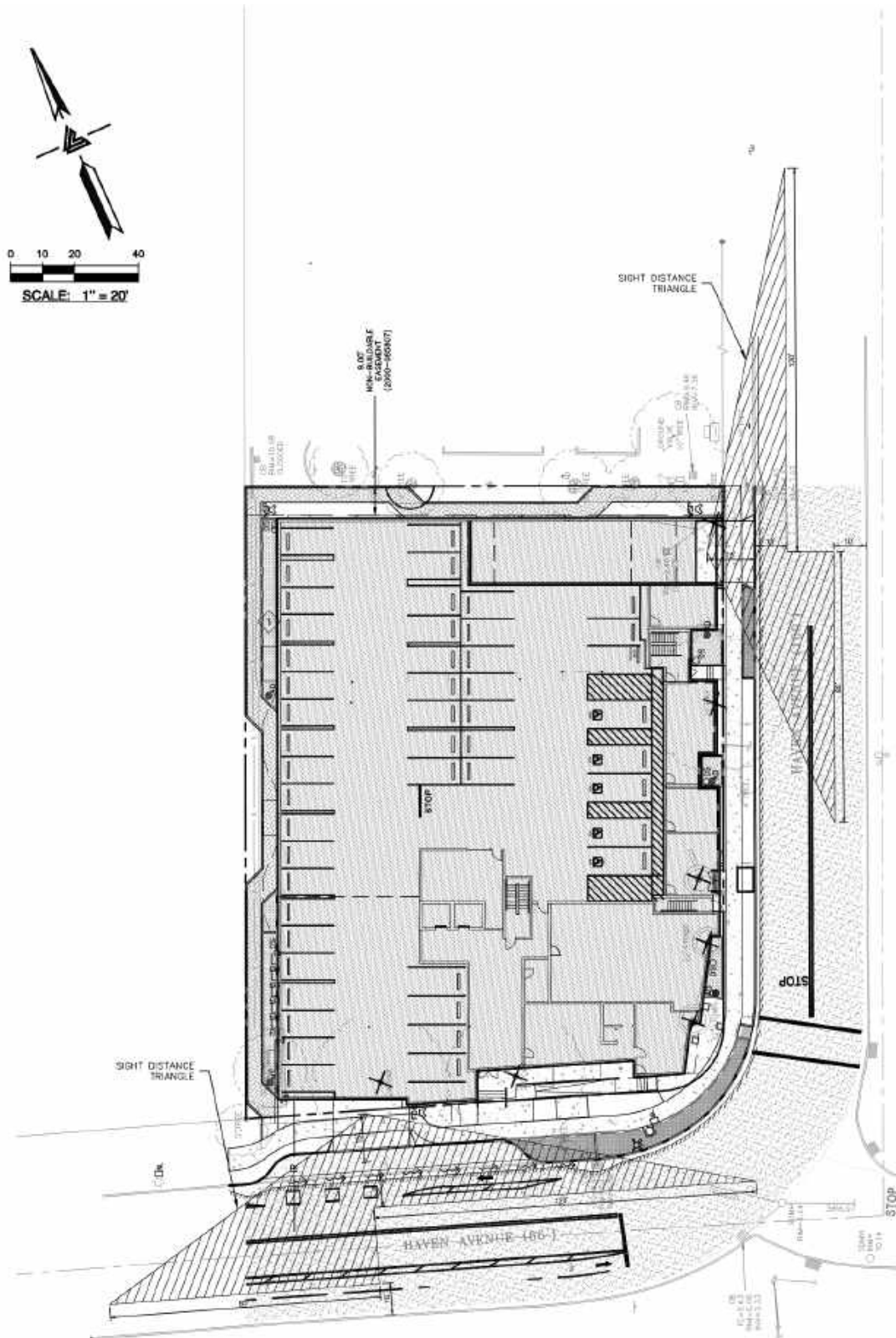
Students will be able to access the school by walking and biking along Haven Avenue and the trail along the Bayfront Expressway as pointed out in the Walk and Roll Map for Tide Academy.<sup>8</sup>

---

<sup>7</sup> City of Menlo Park Sight Distance, access from <https://www.menlopark.org/DocumentCenter/View/12840/Attachment-B---Sight-Distance-Information>

<sup>8</sup> Tide Academy Suggested Walk and Roll Map, access from <https://menlopark.gov/Government/Departments/Public-Works/Transportation-Division/City-Safe-Routes-to-School-program/School-Walk-and-Roll-maps>

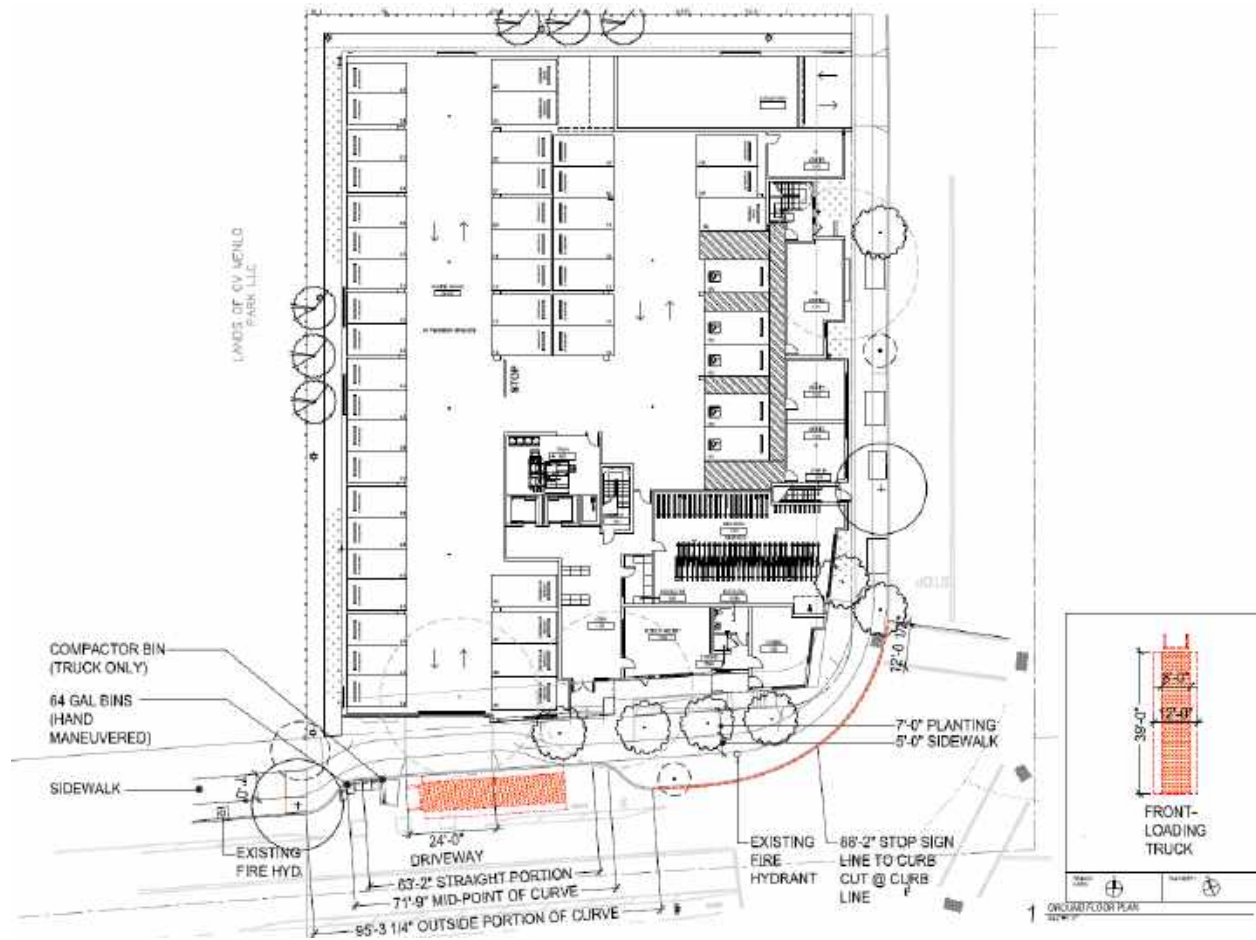
Figure 17: Driveway Sight Distance Triangles



Source: 3705 Haven Ave Project Plans, LDP Architecture (July 2024)



Figure 18: Trash Truck Pick-up Location



Source: 3705 Haven Ave Project Plans, LDP Architecture (July 2024)

Figure 19: Circulation Plan



Source: 3705 Haven Ave Project Plans, LDP Architecture (July 2024)

## BICYCLE ACCESS

Haven Avenue features Class II buffered bike lanes south of the Project. The Project is not expected to impact the existing Class II bike facility.

Long-term bike parking is available within the parking garage and can be accessed through the lobby on the south side of the building. Short-term bike parking is provided outside of the building at the southeast corner and south side of the Project.

Vehicles entering and exiting through the south garage door might obstruct bicyclists in the bike lanes. Green conflict paint crossing the garage entrance is necessary and has been shown in the site plan. Additionally, bikeway and caution signage should be installed.

### ■ Recommendations

- Kittelson recommends that the Project applicant install warning devices that are both visible and audible to indicate vehicles exiting the parking garages, ensuring bicyclist safety.

## TRANSIT ACCESS

Access to transit facilities and services outlined in the Existing Conditions section will not change with the proposed site plan. The nearby bus stops are not impeded and do not need to be relocated.

## VEHICLE PARKING

The Project would include a total of 104 vehicular parking spaces, 50 on the ground floor and 54 on the second floor. On the ground floor, 6 of 50 residential spaces would be Americans with Disabilities Act (ADA) accessible and 7 would be Electric Vehicle Supply Equipment (EVSE) parking. On the second floor, 9 of 54 spaces are EVSE parking. A review of City Parking Area Design Guidelines<sup>9</sup> found that the Project's proposed parking dimensions are in compliance with City specifications for standard and handicap stall types.

As shown in **Table 12**, the Project is proposing to provide fewer vehicle spaces (104) than otherwise required by City parking regulations (112) pursuant to the provisions of state law to accommodate the density permitted by the State Density Bonus Law. With the proposed TDM plan, the demand for parking will be reduced, and the 104 proposed parking stalls will be sufficient to meet the projected parking demand.

**Table 13** shows parking requirements based on the ITE Parking Generation Manual – 6<sup>th</sup> Edition and will require 91 spaces. It can be concluded that the proposed parking would meet the Project parking demand.

Based on the City of Menlo Park Handicap Parking Design Guidelines, the required number of disabled spaces is minimum 5 spaces for total number of parking spaces between 101 and 150, therefore, the Project disabled parking supply meets the City's requirements.

---

<sup>9</sup> City of Menlo Park Transportation Parking Stalls and Driveway Design Guidelines, access from <https://menlopark.gov/files/sharedassets/public/v/1/public-works/documents/transportation/parking-and-driveway-design-guidelines.pdf>



**Table 12: City of Menlo Park Vehicle Parking Requirements and Proposed Project Parking Spaces**

Land Use Type	Number of Units	Minimum Spaces (Per Unit or 1,000 SF)	Minimum Spaces required by the Municipal Code	Minimum Spaces required as per ITE Parking Generation Manual	Proposed Parking Calcs – Parking Spaces pursuant to State Density Bonus Law
Residential Units	112	1 per unit	112 (Including 4 accessible parking)	91	104 vehicular parking spaces (including 6 accessible parking)

Source: Menlo Park Municipal Code 16.45.080 Parking Standards  
SF: Square Feet

**Table 13: Parking Requirement as per ITE Parking Generation Manual**

Land Use	Average Rate	Number of Dwelling Units	Number of Parking Spaces
Multifamily Housing - 1 BR (Mid-Rise) - Not Close to Rail Transit (218)	0.68	85	58
Multifamily Housing - 2+ BR (Mid-Rise) - Not Close to Rail Transit (221)	1.23	27	33
<b>Total</b>		<b>112</b>	<b>91</b>

Source: ITE Parking Generation Manual – 6<sup>th</sup> Edition.  
Note: Rounded up to the nearest integer

## BICYCLE PARKING

As per the guidelines delineated in the City of Menlo Park’s Municipal Code 16.45.050, the Project necessitates a minimum of 168 long-term parking spaces and 17 short-term parking spaces for bicycles. As shown in **Table 14**, the bicycle parking spaces meet the minimum requirements.

**Table 14: City of Menlo Park Bicycle Parking Requirements and Proposed Project Parking Spaces**

Land Use Type	Number of Units	Minimum Bicycle Parking	Minimum Bicycle Parking required	Proposed Parking Calcs – Parking Spaces
Residential Units	112	1.5 long-term per unit; 10% additional short-term for guests	168 long-term 17 short-term	168 long-term 17 short-term

Source: Menlo Park Municipal Code 16.45.080 Parking Standards

## EMERGENCY VEHICLE ACCESS

The nearest fire station (Menlo Park Fire Department Station #77) is located approximately 1.6 miles east of the Project site at 1467 Chilco Street, Menlo Park. Per Menlo Park Bureau of Fire Prevention and Life Safety Standards and Guidelines Manual<sup>10</sup>, all driveways and drive aisles are at least 20 feet wide to accommodate Emergency Vehicle access. However, according to the applicant’s statement, fire trucks

<sup>10</sup> Bureau of Fire Prevention and Life Safety Section 101.6 Standards and Guidelines Manual, access from <https://www.menlofire.gov/media/Fire%20Prevention/Guidelines%20and%20Standards/Menlo%20Park%20Fire%20Protection%20District%20S%20and%20G%20Manual%20FINAL%202023.pdf>

are not intended to enter the building or garage; instead, operations would take place along Haven Avenue. Therefore, EVA or truck turning templates are not needed.

■ **Recommendations**

- Kittelson recommends the Project applicant coordinate with the Fire Department to ensure that the installation of signs and markings designating fire lanes complies with standard requirements and facilitates adequate access for fire apparatus.

## CONSTRUCTION

The building is three stories of Type I construction under 5 stories of Type III construction. Construction would occur in a single phase and is expected to take approximately 22 months. The projected excavation depth is approximately 3 feet. The total estimated net export is expected to be 2,000 cubic yards.

The contractor should develop a Construction Traffic Management Plan (Plan) for the Project construction, aiming to minimize adverse effects of Project construction traffic. The Plan should also identify any road or lane closures and specify time-of-day activities. During construction, the contractor shall coordinate to provide dust control without the use of potable water. All roadways should always be open to emergency personnel. The anticipated effect on LOS is expected to be short-term and minimal, contingent upon the implementation of the Construction Traffic Management Plan.

## 95<sup>TH</sup> PERCENTILE QUEUE ANALYSIS

In addition to the operations analysis, Kittelson also reviewed the changes in 95<sup>th</sup> percentile queue lengths for the study intersection. The 95<sup>th</sup> percentile queue lengths are reported to provide appropriate storage for all but the worst 5% of traffic scenarios. This report provides queue lengths, which are derived from the outputs of the Vistro traffic analysis software and are representative of the 95<sup>th</sup> percentile traffic volumes.

**Table 15** shows the available queue storage for the exclusive movement lanes and 95<sup>th</sup> percentile queue lengths for the Existing, Near-term (2027), Near-term (2027) Plus Project, Cumulative (2040), and Cumulative (2040) Plus Project conditions. Movements where the expected 95<sup>th</sup> percentile queue length exceeds storage capacity during the weekday peak hours are highlighted in bold in the table.

Storage capacity is exceeded for the following scenarios:

### **Existing Conditions**

- Eastbound right-turn and southbound right-turn lanes – (PM)

### **Near-term Conditions**

- Eastbound right-turn lane – (PM)

### **Near-term Plus Project Conditions**

- Eastbound right-turn lane – (PM)

### **Cumulative Conditions**

- Eastbound right-turn and southbound right-turn lanes – (AM)
- Eastbound right-turn lane – (PM)

### **Cumulative Plus Project Conditions**

- Eastbound right-turn and southbound right-turn lanes – (AM)
- Eastbound right-turn lane – (PM)

Despite the storage capacity being exceeded at the eastbound right-turn and southbound right-turn movements, queue lengths do not increase significantly in the plus Project scenarios compared to the no-Project scenarios. Nevertheless, The City and Caltrans should monitor the traffic at this intersection and optimize or retime the signal based on new traffic counts to improve queuing conditions.

**Table 15: 95th Percentile Queue Lengths**

#	Location (Control)	Scenario	95th Percentile Queue Length (feet/lane)											
			EB Approach			WB Approach			NB Approach			SB Approach		
			EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
<b>Weekday AM Peak Hour</b>														
1	Haven Avenue/Bayfront Expressway and Marsh Road	Available Storage Length	-	-	445	-	-	50	-	-	-	-	-	135
		Existing Conditions	-	-	292	-	-	33	-	-	-	-	-	130
		Near-term (2027) Conditions	-	-	439	-	-	39	-	-	-	-	-	110
		Near-term Plus Project Conditions	-	-	443	-	-	39	-	-	-	-	-	117
		Cumulative (2040) Conditions	-	-	<b>613</b>	-	-	39	-	-	-	-	-	<b>417</b>
		Cumulative Plus Project Conditions	-	-	<b>625</b>	-	-	39	-	-	-	-	-	<b>432</b>
<b>Weekday PM Peak Hour</b>														
1	Haven Avenue/Bayfront Expressway and Marsh Road	Available Storage Length	-	-	445	-	-	50	-	-	-	-	-	135
		Existing Conditions	-	-	<b>547</b>	-	-	37	-	-	-	-	-	<b>554</b>
		Near-term (2027) Conditions	-	-	<b>576</b>	-	-	37	-	-	-	-	-	113
		Near-term Plus Project Conditions	-	-	<b>577</b>	-	-	37	-	-	-	-	-	115
		Cumulative (2040) Conditions	-	-	<b>768</b>	-	-	42	-	-	-	-	-	111
		Cumulative Plus Project Conditions	-	-	<b>768</b>	-	-	42	-	-	-	-	-	113

Notes:  
 EBL = Eastbound Left; EBT = Eastbound Through; EBR = Eastbound Right; similar for W = Westbound, N = Northbound, and S = Southbound movements; '-' = Movement has unlimited storage length; ft/lane = Feet per lane; Bold cells are 95th percentile queue lengths greater than existing storage.  
 Source: Highway Capacity Manual 7th Edition; Kittelson & Associates, 2024.

# TECHNICAL APPENDICES

## APPENDIX A: PROPOSED SITE PLAN (DATED JULY 2024)


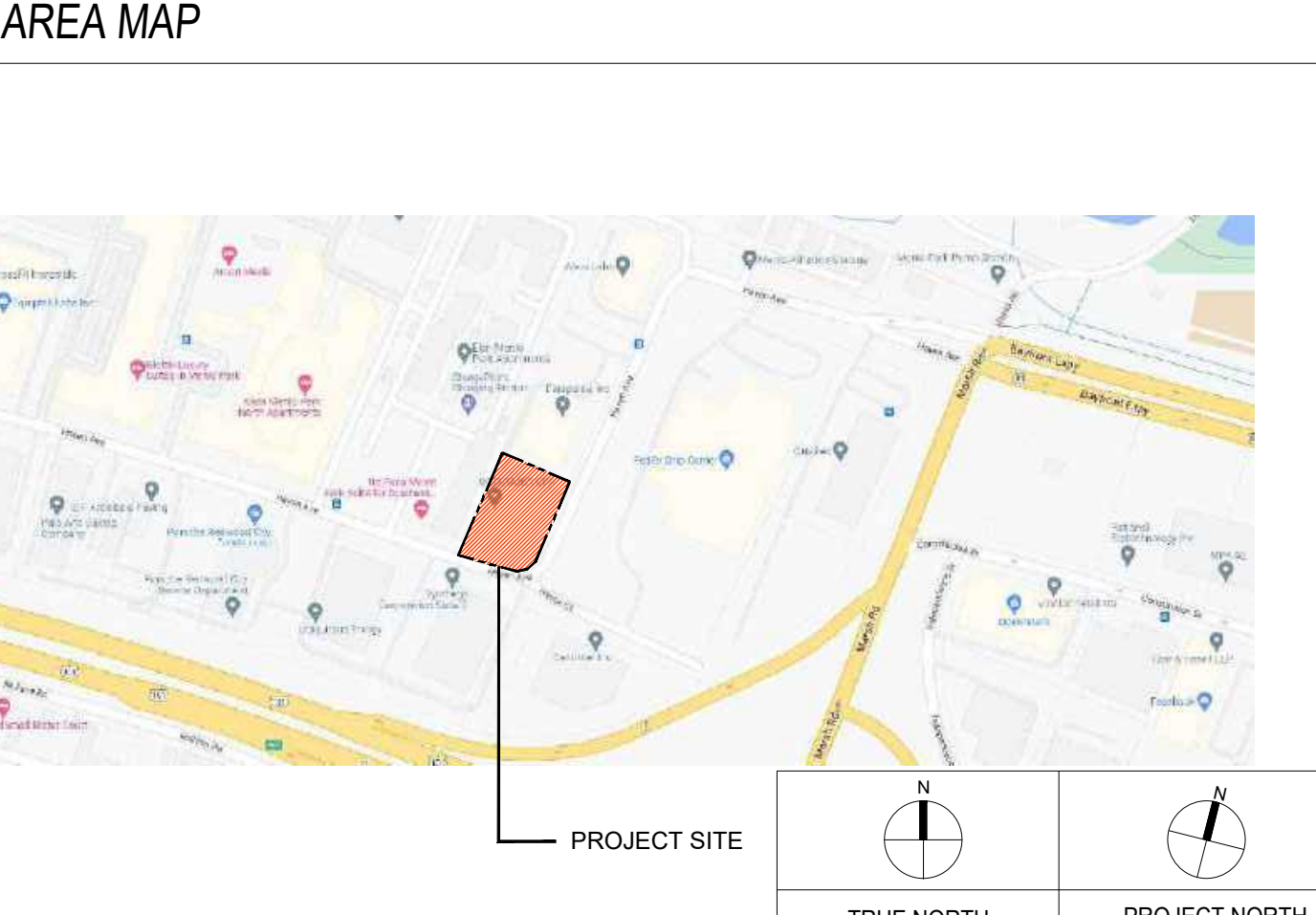
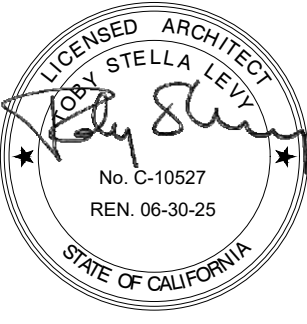


# 3705 HAVEN AVENUE

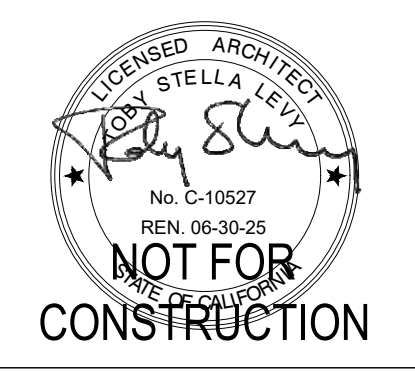
## MENLO PARK, CA



NOTICE:  
THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY AND COPYRIGHT OF LEVY DESIGN PARTNERS, INC. (LDP ARCHITECTURE) AND SHALL NOT BE USED EXCEPT BY WRITTEN AGREEMENT WITH LEVY DESIGN PARTNERS.

GENERAL NOTES	CONTACT LIST	DEFERRED SUBMITTALS	ELEVATION																																																																				
<p>GENERAL CONDITIONS: AIA DOCUMENT A201, GENERAL CONDITIONS FOR THE PERFORMANCE OF THE CONTRACT IS HEREBY INCORPORATED INTO THESE DRAWINGS AND SHALL BE CONSIDERED AS PART OF THE REQUIREMENTS FOR THE COMPLETION OF THE WORK.</p> <p>EXISTING CONDITIONS: CONDITIONS SHOWN OF THE DRAWINGS ARE AS SHOWN ON THE ORIGINAL DRAWINGS AND AS OBSERVED ON THE SITE, BUT THEIR ACCURACY IS NOT GUARANTEED. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT THE SITE. ANY DISCREPANCIES SHALL BE REPORTED TO ARCHITECT PRIOR TO PROCEEDING WITH THE WORK. NOTE: DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALE OF THE DRAWINGS.</p> <p>PERMITS: THE CONTRACTOR SHALL OBTAIN AND PAY ALL CITY AND/OR COUNTY FEES RELATING TO PROJECT, EXCEPTING THE GENERAL PERMIT, WHICH IS THE RESPONSIBILITY OF THE OWNERS' AND IS REIMBURSABLE TO THE G.C.</p> <p>CODES: ALL WORK SHALL BE DONE IN COMPLIANCE WITH ALL APPLICABLE CODES, INCLUDING BUT NOT LIMITED TO: UNIFORM BUILDING CODES, NATIONAL ELECTRICAL, MECHANICAL, AND PLUMBING CODES, HEALTH DEPARTMENT REGULATIONS, FIRE AND SAFETY CODES, CITY AND/OR COUNTY ORDINANCES AND REGULATIONS AND OTHER CODES GOVERNING CONSTRUCTION.</p> <p>SITE RESPONSIBILITY: IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS ON THE JOB SITE, INCLUDING HEALTH AND SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. CONTRACTOR TO LIMIT TRAFFIC AND ACCESS TO THOSE AREAS WHERE WORK IS PERFORMED.</p> <p>CLEAN UP AND REPAIRS: THE CONSTRUCTION SITE SHALL BE MAINTAINED IN AN ORDERLY MANNER AT ALL TIMES WITH ALL DEBRIS REMOVED AT THE END OF THE EACH DAY. AT THE COMPLETION OF THE CONSTRUCTION REMOVE ALL EXCESS MATERIALS AND REFUSE FROM SITE. LEAVE ALL SURFACES WITHIN CONSTRUCTION SITE FREE FROM DUST, DIRT AND STAINS. THE CONTRACTOR SHALL REPAIR OR REPLACE ANY SURFACES OR ITEMS DAMAGED BY CONSTRUCTION TO THE SATISFACTION OF THE ARCHITECT AND OWNER.</p> <p>PATCHING: PROPERLY PREPARE SURFACES FOR RECEIVING THE SPECIFIED FINISHES INCLUDING PATCHING OF SURFACES ALTERED BY CONSTRUCTION. ON PATCHED AREAS OR AREAS WHERE A FINISH IS NOT SPECIFIED, THE FINISH SHALL MATCH ADJACENT MATERIAL IN CONSTRUCTION, COLOR AND TEXTURE.</p> <p>ALL WORK NOTED "N.I.C." OR NOT IN CONTRACT IS TO BE PROVIDED BY A CONTRACTOR OTHER THAN THE GENERAL CONTRACTOR.</p> <p>"ALIGN" AS USED IN THESE DOCUMENTS SHALL MEAN TO ACCURATELY LOCATE FINISH FACES ON THE SAME PLANE.</p> <p>"TYPICAL" AS USED IN THESE DOCUMENTS SHALL MEAN THAT THE CONDITION IS THE SAME OR REPRESENTATIVE FOR SIMILAR CONDITIONS THROUGHOUT, U.O.N.</p> <p>DETAILS ARE USUALLY KEYED AND NOTED "TYPICAL" ONLY ONCE, WHEN THEY FIRST OCCUR, AND ARE REPRESENTATIVE FOR SIMILAR CONDITIONS THROUGHOUT, U.O.N.</p> <p>SCHEDULE: UPON SUBMITTAL OF THE FINAL CONSTRUCTION COSTS, THE CONTRACTOR SHALL ALSO SUBMIT A CONSTRUCTION SCHEDULE INDICATING THE REQUIRED CONSTRUCTION TIME FOR ALL SUBCONTRACTOR'S AND CONTRACTOR'S WORK AND A COST-BY-TRADE BREAKDOWN FOR USE IN SCHEDULING AND EVALUATING PAY REQUESTS.</p> <p>SUBSTITUTIONS: SUBSTITUTIONS, REVISIONS, OR CHANGES MUST HAVE APPROVAL BY THE ARCHITECT PRIOR TO PROCEEDING WITH THE WORK.</p> <p>DAMAGE: THE CONTRACTOR SHALL REPAIR OR REPLACE ANY SURFACES OR ITEMS DAMAGED BY CONSTRUCTION TO THE SATISFACTION OF THE ARCHITECT OR OWNER.</p> <p>GUARANTEES: THE CONTRACTOR SHALL GUARANTEE THAT THE PROJECT WILL BE FREE OF DEFECTS OF WORKMANSHIP AND MATERIALS FOR A PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE BY THE OWNER. NO WORK DEFECTIVE IN CONSTRUCTION OR QUALITY DEFICIENT IN ANY REQUIREMENT OF THE DRAWINGS OR NOTES WILL BE ACCEPTABLE IN CONSEQUENCE OF THE OWNER'S OR ARCHITECT'S FAILURE TO POINT OUT DEFECTS OR DEFICIENCIES DURING CONSTRUCTION. DEFECTS OF WORKMANSHIP OR MATERIALS REVEALED WITHIN A PERIOD OF ONE YEAR FROM THE ACCEPTANCE SHALL BE REPLACED BY WORK CONFORMING WITH THE INTENT OF THE CONTRACT AT NO COST TO THE OWNER. NO PAYMENT, EITHER PARTIAL OR FINAL, SHALL BE CONSTRUED AS AN ACCEPTANCE OF DEFECTIVE WORK.</p> <p>COLUMN CENTERLINES (ALSO REFERRED TO AS GRIDLINES) ARE SHOWN FOR DIMENSIONAL PURPOSES. (REFER TO BASE BUILDING DRAWINGS FOR EXACT LOCATIONS).</p> <p>CONSTRUCTION HOURS: VERIFY WITH CITY OF MENLO PARK FOR CONSTRUCTION HOURS</p> <p>ANY HIDDEN CONDITIONS THAT REQUIRE WORK TO BE PERFORMED BEYOND THE SCOPE OF THE BUILDING PERMIT ISSUED FOR THESE PLANS MAY REQUIRE FURTHER CITY APPROVALS INCLUDING REVIEW BY THE PLANNING COMMISSION. THE BUILDING OWNER, PROJECT DESIGNER, AND/OR CONTRACTOR MUST SUBMIT A REVISION TO THE CITY FOR ANY WORK NOT GRAPHICALLY ILLUSTRATED ON THE JOB COPY OF THE PLANS PRIOR TO PERFORMING THE WORK.</p> <p>AN OSHA PERMIT TO BE OBTAINED FOR THE SHORING* AT THE EXCAVATION IN THE BASEMENT PER CAL/OSHA REQUIREMENTS. SEE CAL/OSHA HANDBOOK. *CONSTRUCTION SAFETY ORDERS: CHAPTER 4, SUBCHAPTER 4, ARTICLE 6, SECTION 1541.1.</p> <p>GRADING PERMIT, IF REQUIRED, TO BE OBTAINED FROM THE DEPARTMENT OF PUBLIC WORKS.</p> <p>WHEN PLANS ARE SUBMITTED FOR BUILDING CODE PLAN CHECK, THEY WILL INCLUDE A COMPLETE UNDERGROUND PLUMBING PLAN INCLUDING COMPLETE DETAILS FOR THE LOCATION OF ALL REQUIRED GREASE TRAPS AND CITY-REQUIRED BACKWATER PREVENTION DEVICES.</p> <p>ALL EARTHWORK AND SITE DRAINAGE, INCLUDING SITE CLEARING, EXCAVATION FOR THE LOWER LEVEL AND FOUNDATIONS, PREPARATION OF SUBGRADE BENEATH SLABS AND OTHER EXTERIOR HARDSCAPES, PLACEMENT AND COMPACTION OF ENGINEERED FILL BENEATH THE SLABS-ON-GRADE AND EXTERIOR HARDSCAPES, RETAINING WALL DRAINAGE AND BACKFILL, BACKFILL IN UTILITY TRENCHES, AND SURFACE DRAINAGE INSTALLATIONS SHOULD BE PERFORMED IN ACCORDANCE WITH THE GEOTECHNICAL REPORT PREPARED BY ROCKRIDGE GEOTECHNICAL, DATED JULY 23, 2020.</p> <p>A CONSTRUCTION WASTE MANAGEMENT PLAN TO BE PROVIDED PER LOCAL ORDINANCE 12.18.010 OR 12.18.020, WHICHEVER IS APPLICABLE.</p> <p>DURING CONSTRUCTION - PEDESTRIAN PROTECTION ALONG THE PUBLIC RIGHT OF WAY WITH SIDEWALKS IS REQUIRED PER SECTION 3306 OF THE 2022 CBC.</p> <p>PROTECTION OF ADJOINING PROPERTY DURING CONSTRUCTION WILL BE REQUIRED PER SECTION 3307 OF THE 2022 CBC.</p> <p>THE BUILDINGS ARE REQUIRED TO MEET THE SOUND TRANSMISSION REQUIREMENTS OF SECTION 1206 OF THE 2022 CBC.</p> <p>NOTE A CONSTRUCTION WASTE MANAGEMENT PLAN WILL BE REQUIRED AS PER MENLO PARK LOCAL ORDINANCE 12.18.020.</p> <p>THE BUILDING IS LOCATED IN A FLOOD ZONE AND IS REQUIRED TO MEET ALL APPLICABLE FLOOD DESIGN CRITERIA AND FINAL CERTIFICATION, INCLUDING 2022 CBC 1612 AND THE MENLO PARK'S LOCAL ORDINANCE 12.42.</p> <p>ANY FRONTAGE IMPROVEMENTS WHICH ARE DAMAGED EITHER AS AN EXISTING CONDITION OR AS A RESULT OF CONSTRUCTION WILL BE REQUIRED TO BE REPLACED. ALL FRONTAGE IMPROVEMENT WORK SHALL BE IN ACCORDANCE WITH THE LATEST VERSION OF THE CITY STANDARD DETAILS.</p>	<p><b>OWNER</b> MARCH CAPITAL MANAGEMENT 2040 WEBSTER STREET SAN FRANCISCO, CA 94115 TEL: 415/498-7575</p> <p><b>CONTACT:</b> YOLA OZTURK</p> <p><b>ARCHITECT</b> LEVY DESIGN PARTNERS PO BOX 2039 SAN FRANCISCO, CA 94126 TEL: 415/777-0561 FAX: 415/777-5117</p> <p><b>CONTACT:</b> TOBY LEVY</p> <p><b>LANDSCAPE ARCHITECT</b> JETT LANDSCAPE 2 THEATRE SQUARE, SUITE 218 ORINDA, CA 94563 TEL: 925.294-5422</p> <p><b>CONTACT:</b> WHITNEY MILLER</p> <p><b>CIVIL ENGINEER</b> LEA &amp; BRAZE ENGINEERING, INC. 2495 INDUSTRIAL PRKWAY WEST HAYWARD, CA 94545 TEL: 510/887-4086</p> <p><b>CONTACT:</b> JOHN HALBOM</p> <p><b>GEOTECHNICAL ENGINEER</b> ROCKRIDGE GEOTECHNICAL 270 GRAND AVENUE OAKLAND, CA 94610 TEL: 510/420-5738 FAX: 510/652-3096</p> <p><b>CONTACT:</b></p> <p><b>JOINT TRENCH</b> TARRAR 813 FIRST STREET BRENTWOOD, CA 94513 TEL: 925/240-2595 FAX: 925/240-7013</p> <p><b>CONTACT:</b> ALFONSO REYES</p>	<p>SUBMITTAL OF THE FOLLOWING WORK IS DEFERRED TO A LATER DATE:</p> <ol style="list-style-type: none"> <li>FIRE SUPPRESSION SYSTEM, NFPA 13 (2022 EDITION)             <ol style="list-style-type: none"> <li>BUILDING SHALL BE EQUIPPED WITH AN APPROVED CLASS 1 NFPA 14 (2019 ADDITION) STANDPIPE SYSTEM. SYSTEM SHALL BE SUBMITTED AND APPROVED BY THE FIRE DEPARTMENT PRIOR TO INSTALLATION.</li> <li>PRIVATE UNDERGROUND FIRE SERVICE MAIN, NFPA 24 (2019 EDITION). SHOP DRAWINGS FOR FIRE PROTECTION UNDERGROUND SHALL BE SUBMITTED UNDER SEPARATE PERMIT. SYSTEM SHALL BE APPROVED PRIOR TO INSTALLATION AND PRIOR TO APPROVAL OF THE FIRE SPRINKLER SYSTEM.</li> </ol> </li> <li>FIRE ALARM SYSTEM, NFPA 72 (2022 EDITION), INCLUDING SMOKE AND CARBON MONOXIDE DETECTION, FOR APPROVAL THROUGH THE FIRE DEPARTMENT PRIOR TO INSTALLATION.</li> <li>PV SYSTEMS, CRC SECTION 1204 (2022 EDITION).</li> <li>EMERGENCY RESPONDER RADIO COVERAGE, CFC 510 (2022 EDITION).</li> <li>BUILDING SIGNAGE PACKAGE SHALL COMPLY WITH 2022 CBC - LOCATION OF PROPERTY - APPROVED NUMBERS OR ADDRESSES SHALL BE PROVIDED FOR ALL NEW BUILDINGS IN SUCH A POSITION AS TO BE PLAINLY VISIBLE AND LEGIBLE FROM THE STREET OR ROAD FRONTING THE PROPERTY.</li> </ol> <p>POTENTIAL DEFERRED SUBMITTALS, TO BE CONFIRMED IF APPLICABLE:</p> <ul style="list-style-type: none"> <li>FIRE PUMP, NFPA 20 (2019 ADDITION)</li> <li>GENERATOR - STATIONARY, CRC SECTION 1203 (2022 EDITION)</li> </ul> <p>THESE DEFERRED SUBMITTALS SHALL FIRST BE SUBMITTED TO THE PROJECT ARCHITECT AND/OR ENGINEER FOR REVIEW AND COORDINATION; FOLLOWING THE COMPLETION OF PROJECT ARCHITECT/ENGINEER REVIEW AND COORDINATION, A SUBMITTAL TO THE CITY SHALL BE MADE (FOR CITY REVIEW AND APPROVAL), WHICH SHALL INCLUDE A LETTER STATING THIS REVIEW AND COORDINATION HAS BEEN PERFORMED AND COMPLETED AND PLANS AND CALCULATIONS FOR THE DEFERRED ITEMS ARE FOUND TO BE ACCEPTABLE (E.G. WITH REGARD TO GEOMETRY, LOAD CONDITIONS, ETC.), WITH NO EXCEPTIONS.</p> <p><b>APPLICABLE CODES, REGULATIONS AND STANDARDS</b></p> <p>2022 CBC CHAPTER 35, PROVIDE ALL THE APPLICABLE/ADOPTED STANDARDS, WHERE A PARTICULAR STANDARD IS REFERENCED IN THE CODE BUT DOES NOT APPEAR AS AN ADOPTED STANDARD IT STILL MAY BE USED, APPLY ONLY THE PORTION OF THE STANDARD THAT IS APPLICABLE TO THE CODE SECTION WHERE STANDARD IS REFERENCED, NOT THE ENTIRE SECTION.</p> <p><b>APPLICABLE CODES</b></p> <ul style="list-style-type: none"> <li>2022 CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE, PART 1, TITLE 24, CCR</li> <li>2022 CALIFORNIA BUILDING CODE, PART 2, TITLE 24, CCR</li> <li>2022 CALIFORNIA ELECTRICAL CODE, PART 3, TITLE 24, CCR</li> <li>2022 CALIFORNIA MECHANICAL CODE, PART 4, TITLE 24, CCR</li> <li>2022 CALIFORNIA PLUMBING CODE, PART 5, TITLE 24, CCR</li> <li>2022 CALIFORNIA ENERGY CODE, PART 6, TITLE 24, CCR</li> <li>2022 SAFETY CODE FOR ELEVATORS AND ESCALATORS (ASME A17.1-2010)</li> <li>2022 CALIFORNIA HISTORICAL BUILDING CODE, PART 8, TITLE 24, CCR</li> <li>2022 CALIFORNIA FIRE CODE, PART 9, TITLE 24, CCR</li> <li>2022 CALIFORNIA EXISTING BUILDING CODE, PART 10, TITLES 24 CCR</li> <li>2022 CALIFORNIA "GREEN" BUILDING REQUIREMENTS, PART 11, TITLE 24 CCR</li> <li>2022 CALIFORNIA REFERENCED STANDARDS, PART 12, TITLE 24 CCR</li> <li>TITLE 8 CCR CH. 4 SUB-CH. 6 - ELEVATOR SAFETY ORDERS</li> <li>TITLE 19 CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS</li> <li>THIS DESIGN IS IN COMPLIANCE WITH THE FAIR HOUSING ACT DESIGN REFERENCE MANUAL</li> <li>CALIFORNIA CODE OF REGULATIONS TITLE 8 ELEVATOR SAFETY ORDERS</li> <li>UNIFORM FEDERAL ACCESSIBILITY STANDARDS</li> <li>INCLUDING ANY AMENDMENTS AS ADOPTED IN ORDINANCE 1856-2010 AS WELL AS ANY OTHER APPLICABLE LOCAL AND STATE LAWS AND REGULATIONS</li> </ul> <ul style="list-style-type: none"> <li>2022 MENLO PARK MUNICIPAL CODE (MPMC)</li> <li>2016 GENERAL PLAN (GP)</li> <li>APPLICABLE LOCAL BUILDING ORDINANCES</li> </ul> <p><b>APPLICABLE STANDARDS</b></p> <ul style="list-style-type: none"> <li>NFPA 10 STANDARD FOR PORTABLE FIRE EXTINGUISHERS, 2022 EDITION</li> <li>NFPA 13 AUTOMATIC SPRINKLER SYSTEMS, 2022 EDITION</li> <li>NFPA 14 STANDPIPE SYSTEMS, 2022 EDITION</li> <li>NFPA 17 DRY CHEMICAL EXTINGUISHING SYSTEMS, 2021 EDITION</li> <li>NFPA 17a WET CHEMICAL SYSTEMS, 2021 EDITION</li> <li>NFPA 20 STATIONARY PUMPS, 2022 EDITION</li> <li>NFPA 24 PRIVATE FIRE MAINS, 2022 EDITION</li> <li>NFPA 72 NATIONAL FIRE ALARM CODE, 2022 EDITION</li> <li>NFPA 253 CRITICAL RADIANT FLUX OF FLOOR COVERING SYSTEMS, 2023 EDITION</li> <li>NFPA 2001 CLEAN AGENT FIRE EXTINGUISHING SYSTEMS, 2023 EDITION</li> <li>ASME 17.1 ELEVATOR STANDARD, 2019 EDITION</li> <li>ASME/ANSI A18.1 SAFETY STANDARD FOR PLATFORM LIFTS AND STAIRWAY CHAIR LIFTS</li> <li>ADA STANDARDS FOR ACCESSIBLE DESIGN; ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES (ADAAG), (28 CFR PART 36, APPENDIX A)</li> </ul>	 <p><b>SUMMARY/SCOPE OF WORK</b></p> <p>3705 HAVEN AVE IS A PROPOSED PRIVATELY FUNDED 8 STORY BUILDING TO INCLUDE (112) NEW RESIDENTIAL UNITS AND INTERIOR PARKING AT GROUND FLOOR AND SECOND FLOOR PODIUM LEVELS. PUBLICLY ACCESSIBLE OPEN SPACE IS PROVIDED ON THE GROUND FLOOR AND REQUIRED PRIVATE OPEN SPACE AT COURTYARD LEVEL.</p> <p><b>BUILDING DATA</b></p> <p>ADDRESS: 3705 HAVEN AVE, MENLO PARK, CA 94025          PARCEL NUMBER: 055170240          LOT SIZE: ±28,808 SQ. FT. 0.66 ± ACRES          CONSTRUCTION TYPE: I-A &amp; III-A</p> <p><b>FIRE RATINGS:</b></p> <table border="1"> <thead> <tr> <th>TYPE III-A</th> <th>TYPE I-A</th> </tr> </thead> <tbody> <tr> <td>PRIMARY STRUCTURAL FRAME: 1 HOUR (CBC TABLE 601)**</td> <td>PRIMARY STRUCTURAL FRAME: 3 HOUR (CBC TABLE 601)</td> </tr> <tr> <td>BEARING EXTERIOR WALLS: 2 HOUR (CBC TABLE 601)**</td> <td>BEARING EXTERIOR WALLS: 3 HOUR (CBC TABLE 601)</td> </tr> <tr> <td>BEARING INTERIOR WALLS: 1 HOUR (CBC TABLE 601)**</td> <td>BEARING INTERIOR WALLS: 3 HOUR (CBC TABLE 601)</td> </tr> <tr> <td>NON-BEARING EXTERIOR WALLS: VARIES (CBC TABLE 602)**</td> <td>NON-BEARING EXTERIOR WALLS: VARIES (CBC TABLE 601)</td> </tr> <tr> <td>NON-BEARING INTERIOR WALLS: NO RATING (CBC TABLE 601)**</td> <td>NON-BEARING INTERIOR WALLS: NO RATING (CBC TABLE 601)</td> </tr> <tr> <td>FLOOR CONSTRUCTION: 1 HOUR (CBC TABLE 601)**</td> <td>FLOOR CONSTRUCTION: 2 HOUR (CBC TABLE 601)</td> </tr> <tr> <td>ROOF CONSTRUCTION: 1 HOUR (CBC TABLE 601)**</td> <td>ROOF CONSTRUCTION: 1.5 HOUR (CBC TABLE 601)</td> </tr> <tr> <td>EXIT ENCLOSURES: 2 HOURS (CBC 1022.1)</td> <td>EXIT ENCLOSURES: 2 HOURS (CBC 1022.1)</td> </tr> </tbody> </table> <p>* PER TABLE 601, NOTE D, AN APPROVED AUTOMATIC SPRINKLER SYSTEM IN ACCORDANCE WITH SECTION 903.3.1.1 SHALL BE ALLOWED TO BE SUBSTITUTED FOR 1-HOUR FIRE RESISTANCE-RATED CONSTRUCTION, PROVIDED SUCH SYSTEM IS NOT OTHERWISE REQUIRED BY OTHER PROVISIONS OF THE CODE OR USED FOR AN ALLOWABLE AREA INCREASE IN ACCORDANCE WITH SECTION 506.3 OR ALLOWABLE HEIGHT INCREASE IN ACCORDANCE WITH SECTION 504.2. THE 1-HOUR SUBSTITUTION FOR THE FIRE RESISTANCE OF EXTERIOR WALLS SHALL NOT BE PERMITTED.</p> <p>** WALLS TO BE FRAMED WITH FIRE-RETARDANT-TREATED WOOD FRAMING COMPLYING WITH SECTION 2303.2</p> <table border="1"> <thead> <tr> <th>LOCATION</th> <th>BUILDING 01</th> <th>BUILDING 02</th> <th>BUILDING 03</th> </tr> </thead> <tbody> <tr> <td>LEVEL</td> <td>1-3</td> <td>4-8</td> <td>4-8</td> </tr> <tr> <td>PROPOSED OCCUPANCY</td> <td>S-2, R-2 (RESIDENTIAL)</td> <td>R-2 (RESIDENTIAL)</td> <td>R-2 (RESIDENTIAL)</td> </tr> <tr> <td>CONSTRUCTION*</td> <td>TYPE I-A</td> <td>TYPE III-A</td> <td>TYPE III-A</td> </tr> <tr> <td>SPRINKLERED</td> <td>YES</td> <td>YES</td> <td>YES</td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th>AREA</th> <th>ALLOWABLE AREA PER STORY (2022 CBC TABLE 506.2)</th> <th>UNLIMITED</th> <th>SEE SHEET G0.05A</th> <th>SEE SHEET G0.05A</th> </tr> </thead> <tbody> <tr> <td>TOTAL PROPOSED AREA</td> <td>SEE SHEET G0.05A</td> <td>SEE SHEET G0.05A</td> <td>SEE SHEET G0.05A</td> <td>SEE SHEET G0.05A</td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th>HEIGHT &amp; STORIES</th> <th>ALLOWABLE HEIGHT (2022 CBC TABLE 504.3)</th> <th>UNLIMITED</th> <th>85'-0" (S WITHOUT AREA INCREASE**)</th> <th>85'-0" (S WITHOUT AREA INCREASE**)</th> </tr> </thead> <tbody> <tr> <td>PROPOSED HEIGHT</td> <td>UNLIMITED</td> <td>UNLIMITED</td> <td>84'-9" TO T.O. ROOF</td> <td>84'-9" TO T.O. ROOF</td> </tr> <tr> <td>ALLOWABLE STORIES (2022 CBC TABLE 504.4)</td> <td>UNLIMITED</td> <td>UNLIMITED</td> <td>5 (S WITHOUT AREA INCREASE**)</td> <td>5 (S WITHOUT AREA INCREASE**)</td> </tr> <tr> <td>PROPOSED STORIES</td> <td>3</td> <td>5</td> <td>5</td> <td>5</td> </tr> </tbody> </table> <p>*3 HOUR SEPARATION BETWEEN BUILDING 01 &amp; BUILDINGS 02 &amp; 03 PER 2022 CBC 510.2.          ** FULLY SPRINKLERED WITH NFPA 13 SPRINKLER SYSTEM PER 2022 CBC 903.2.8 &amp; 903.3.1.1</p>	TYPE III-A	TYPE I-A	PRIMARY STRUCTURAL FRAME: 1 HOUR (CBC TABLE 601)**	PRIMARY STRUCTURAL FRAME: 3 HOUR (CBC TABLE 601)	BEARING EXTERIOR WALLS: 2 HOUR (CBC TABLE 601)**	BEARING EXTERIOR WALLS: 3 HOUR (CBC TABLE 601)	BEARING INTERIOR WALLS: 1 HOUR (CBC TABLE 601)**	BEARING INTERIOR WALLS: 3 HOUR (CBC TABLE 601)	NON-BEARING EXTERIOR WALLS: VARIES (CBC TABLE 602)**	NON-BEARING EXTERIOR WALLS: VARIES (CBC TABLE 601)	NON-BEARING INTERIOR WALLS: NO RATING (CBC TABLE 601)**	NON-BEARING INTERIOR WALLS: NO RATING (CBC TABLE 601)	FLOOR CONSTRUCTION: 1 HOUR (CBC TABLE 601)**	FLOOR CONSTRUCTION: 2 HOUR (CBC TABLE 601)	ROOF CONSTRUCTION: 1 HOUR (CBC TABLE 601)**	ROOF CONSTRUCTION: 1.5 HOUR (CBC TABLE 601)	EXIT ENCLOSURES: 2 HOURS (CBC 1022.1)	EXIT ENCLOSURES: 2 HOURS (CBC 1022.1)	LOCATION	BUILDING 01	BUILDING 02	BUILDING 03	LEVEL	1-3	4-8	4-8	PROPOSED OCCUPANCY	S-2, R-2 (RESIDENTIAL)	R-2 (RESIDENTIAL)	R-2 (RESIDENTIAL)	CONSTRUCTION*	TYPE I-A	TYPE III-A	TYPE III-A	SPRINKLERED	YES	YES	YES	AREA	ALLOWABLE AREA PER STORY (2022 CBC TABLE 506.2)	UNLIMITED	SEE SHEET G0.05A	SEE SHEET G0.05A	TOTAL PROPOSED AREA	SEE SHEET G0.05A	SEE SHEET G0.05A	SEE SHEET G0.05A	SEE SHEET G0.05A	HEIGHT & STORIES	ALLOWABLE HEIGHT (2022 CBC TABLE 504.3)	UNLIMITED	85'-0" (S WITHOUT AREA INCREASE**)	85'-0" (S WITHOUT AREA INCREASE**)	PROPOSED HEIGHT	UNLIMITED	UNLIMITED	84'-9" TO T.O. ROOF	84'-9" TO T.O. ROOF	ALLOWABLE STORIES (2022 CBC TABLE 504.4)	UNLIMITED	UNLIMITED	5 (S WITHOUT AREA INCREASE**)	5 (S WITHOUT AREA INCREASE**)	PROPOSED STORIES	3	5	5	5
TYPE III-A	TYPE I-A																																																																						
PRIMARY STRUCTURAL FRAME: 1 HOUR (CBC TABLE 601)**	PRIMARY STRUCTURAL FRAME: 3 HOUR (CBC TABLE 601)																																																																						
BEARING EXTERIOR WALLS: 2 HOUR (CBC TABLE 601)**	BEARING EXTERIOR WALLS: 3 HOUR (CBC TABLE 601)																																																																						
BEARING INTERIOR WALLS: 1 HOUR (CBC TABLE 601)**	BEARING INTERIOR WALLS: 3 HOUR (CBC TABLE 601)																																																																						
NON-BEARING EXTERIOR WALLS: VARIES (CBC TABLE 602)**	NON-BEARING EXTERIOR WALLS: VARIES (CBC TABLE 601)																																																																						
NON-BEARING INTERIOR WALLS: NO RATING (CBC TABLE 601)**	NON-BEARING INTERIOR WALLS: NO RATING (CBC TABLE 601)																																																																						
FLOOR CONSTRUCTION: 1 HOUR (CBC TABLE 601)**	FLOOR CONSTRUCTION: 2 HOUR (CBC TABLE 601)																																																																						
ROOF CONSTRUCTION: 1 HOUR (CBC TABLE 601)**	ROOF CONSTRUCTION: 1.5 HOUR (CBC TABLE 601)																																																																						
EXIT ENCLOSURES: 2 HOURS (CBC 1022.1)	EXIT ENCLOSURES: 2 HOURS (CBC 1022.1)																																																																						
LOCATION	BUILDING 01	BUILDING 02	BUILDING 03																																																																				
LEVEL	1-3	4-8	4-8																																																																				
PROPOSED OCCUPANCY	S-2, R-2 (RESIDENTIAL)	R-2 (RESIDENTIAL)	R-2 (RESIDENTIAL)																																																																				
CONSTRUCTION*	TYPE I-A	TYPE III-A	TYPE III-A																																																																				
SPRINKLERED	YES	YES	YES																																																																				
AREA	ALLOWABLE AREA PER STORY (2022 CBC TABLE 506.2)	UNLIMITED	SEE SHEET G0.05A	SEE SHEET G0.05A																																																																			
TOTAL PROPOSED AREA	SEE SHEET G0.05A	SEE SHEET G0.05A	SEE SHEET G0.05A	SEE SHEET G0.05A																																																																			
HEIGHT & STORIES	ALLOWABLE HEIGHT (2022 CBC TABLE 504.3)	UNLIMITED	85'-0" (S WITHOUT AREA INCREASE**)	85'-0" (S WITHOUT AREA INCREASE**)																																																																			
PROPOSED HEIGHT	UNLIMITED	UNLIMITED	84'-9" TO T.O. ROOF	84'-9" TO T.O. ROOF																																																																			
ALLOWABLE STORIES (2022 CBC TABLE 504.4)	UNLIMITED	UNLIMITED	5 (S WITHOUT AREA INCREASE**)	5 (S WITHOUT AREA INCREASE**)																																																																			
PROPOSED STORIES	3	5	5	5																																																																			
		<p><b>AREA MAP</b></p>  <p>TRUE NORTH PROJECT NORTH</p>	<p><b>FEMA REQUIREMENTS</b></p> <p>MENLO PARK - FEMA REQUIREMENTS &amp; SEA LEVEL RISE</p> <ul style="list-style-type: none"> <li>THE PROJECT IS BUILT IN COMPLIANCE WITH THE CITY'S FLOOD DAMAGE PREVENTION ORDINANCE, CHAPTER 12, SECTION 42.</li> <li>ALL MATERIALS BELOW DFE SHALL BE RESISTANT TO FLOOD DAMAGE. (I.E., CONCRETE, REDWOOD OR PRESSURE TREATED DOUGLAS FIR).*</li> <li>THE BOTTOM ELEVATION OF ALL APPLIANCES AND UTILITIES (METERS, AIR CONDITIONING UNITS, ETC) SHALL BE AT OR ABOVE DFE.</li> <li>STORM RUNOFF RESULTING FROM THE PROJECT'S GRADING AND DRAINAGE ACTIVITIES SHALL NOT ENCRONCH ONTO ANY NEIGHBORING LOT. RUNOFF MUST BE CONTAINED ON-SITE.</li> <li>NO BASEMENTS OR ANY HABITABLE ENCLOSURE BELOW THE DFE ARE ALLOWED FOR PROJECTS IN THE FLOOD ZONE.</li> <li>FLOOD VENTS SHALL BE INSTALLED FOR ALL NON-HABITABLE ENCLOSURES BELOW THE DFE (CRAWLSPACE, GARAGE, ETC.) AT A RATE OF 1 SQUARE INCH OF NET OPENING TO 1 SQUARE FOOT OF ENCLOSURE. REFER TO THE ENGINEERING PLANS HEREIN FOR VENT LOCATIONS AND CALCULATIONS.</li> </ul> <p>I CERTIFY THAT I AM THE ARCHITECT OF RECORD AND THE PLANS DATED SUBMITTED ON (DATE PER TITLE BLOCK) COMPLY WITH THE CITY'S FLOOD DAMAGE PREVENTION ORDINANCE (CHAPTER 12, SECTION 42).</p>  <p><b>APPROVALS</b></p>																																																																				
			<p><b>3705 HAVEN AVE</b> <b>MENLO PARK, CA</b></p> <p>PROJECT NO. 21-07          PARCEL NO. 055170240</p> <p>REVIEW   DATE   DESCRIPTION</p> <table border="1"> <tbody> <tr> <td>04-14-2023</td> <td>PLANNING &amp; SB330 REV 2</td> </tr> <tr> <td>09-22-2023</td> <td>PLANNING &amp; SB330 REV 3</td> </tr> <tr> <td>03-20-2024</td> <td>PLANNING &amp; SB330 REV 4</td> </tr> <tr> <td>06-13-2024</td> <td>PLANNING &amp; SB330 REV 5</td> </tr> <tr> <td>07-26-2024</td> <td>PLANNING &amp; SB330 REV 6</td> </tr> </tbody> </table> <p><b>CONTACT:</b> TOBY LEVY</p> <p>(415) 777-0561 P          (415) 777-5117 F</p> <p>SCALE: <b>AS NOTED</b></p> <p><b>COVER SHEET</b></p> <p><b>G0.00</b></p>	04-14-2023	PLANNING & SB330 REV 2	09-22-2023	PLANNING & SB330 REV 3	03-20-2024	PLANNING & SB330 REV 4	06-13-2024	PLANNING & SB330 REV 5	07-26-2024	PLANNING & SB330 REV 6																																																										
04-14-2023	PLANNING & SB330 REV 2																																																																						
09-22-2023	PLANNING & SB330 REV 3																																																																						
03-20-2024	PLANNING & SB330 REV 4																																																																						
06-13-2024	PLANNING & SB330 REV 5																																																																						
07-26-2024	PLANNING & SB330 REV 6																																																																						

3705 HAVEN AVE  
MENLO PARK, CA



3705 HAVEN AVE  
MENLO PARK, CA

PROJECT NO. 21-07  
PARCEL NO. 055170240

REVIEW | DATE | DESCRIPTION

04-14-2023	PLANNING & SB330 REV 2
09-22-2023	PLANNING & SB330 REV 3
03-20-2024	PLANNING & SB330 REV 4
06-13-2024	PLANNING & SB330 REV 5
07-26-2024	PLANNING & SB330 REV 6

**CONTACT:** TOBY LEVY

(415) 777-0561 P  
(415) 777-5117 F

SCALE:  
**AS NOTED**

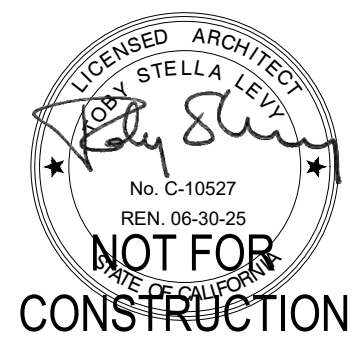
**COVER SHEET**

**G0.00**



NOTICE:  
THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY AND COPYRIGHT OF LEVY DESIGN PARTNERS, INC. (LDP ARCHITECTURE) AND SHALL NOT BE USED EXCEPT BY WRITTEN AGREEMENT WITH LEVY DESIGN PARTNERS.

**3705 HAVEN AVE  
MENLO PARK, CA**



3705 HAVEN AVE  
MENLO PARK, CA

PROJECT NO. 21-07  
PARCEL NO. 05170240

REV	DATE	DESCRIPTION
	04-14-2023	PLANNING & SB330 REV 2
	09-22-2023	PLANNING & SB330 REV 3
	03-20-2024	PLANNING & SB330 REV 4
	06-13-2024	PLANNING & SB330 REV 5
	07-26-2024	PLANNING & SB330 REV 6

CONTACT: TOBY LEVY

(415) 777-0561 P  
(415) 777-5117 F

SCALE:  
**AS NOTED**

**DRAWING INDEX,  
ABBREVIATIONS  
& LEGEND**

**G0.00B**

DRAWING INDEX	
GENERAL	COVER SHEET
G0.00	DRAWING INDEX, ABBREVIATIONS & LEGEND
G0.00B	
G0.01A	GREEN BUILDING CHECKLIST
G0.01B	GREEN BUILDING CHECKLIST
G0.01C	GREEN BUILDING DOCUMENTS
G0.01D	GREEN BUILDING DOCUMENTS
G0.02A	EXISTING SITE CONDITIONS
G0.02B	AREA PLAN
G0.02C	STREETSCAPE ELEVATIONS
G0.02D	CIRCULATION PLAN
G0.03A	FIRE DIAGRAM
G0.03B	FIRE CONDITIONS OF APPROVAL
G0.05A	BUILDING AREA CALCULATIONS
G0.05B	BUILDING AREA CALCULATIONS PLANNING
G0.05C	BUILDING AREA CALCULATIONS PLANNING
G0.05D	BUILDING AREA CALCULATIONS PLANNING
G0.05E	BUILDING AREA CALCULATIONS PLANNING
G0.05F	BUILDING AREA CALCULATIONS PLANNING
G0.06A	EGRESS
G0.06B	EGRESS
G0.06C	EGRESS
G0.06D	EGRESS
G0.07A	ACCESS
ARCHITECTURAL	
A1.00	SITE PLAN: EXISTING / DEMOLITION
A1.01	SITE PLAN: PROPOSED
A2.01	FLOOR PLAN: FIRST FLOOR
A2.02	FLOOR PLAN: SECOND FLOOR
A2.03	FLOOR PLAN: THIRD FLOOR
A2.04	FLOOR PLAN: FOURTH
A2.05	FLOOR PLAN: FIFTH
A2.06	FLOOR PLAN: SIXTH
A2.07	FLOOR PLAN: SEVENTH
A2.08	FLOOR PLAN: EIGHTH
A2.09	FLOOR PLAN: ROOF PLAN
A3.00A	RENDERING
A3.00B	RENDERING
A3.01	ELEVATIONS
A3.02	ELEVATIONS
A3.03	ELEVATIONS
A3.04	MATERIALS
A3.05A	ZONING DIAGRAMS
A3.05B	ZONING DIAGRAMS
A3.05C	ZONING DIAGRAMS
A3.05D	ZONING DIAGRAMS
A3.05E	ZONING DIAGRAMS
A3.05F	ZONING DIAGRAMS
A4.01	SECTIONS
A4.02	SECTIONS
CIVIL	
C1.0	TITLE SHEET
C1.1	GRADING SPECIFICATIONS
C2.0	DEMOLITION PLAN
C3.0	PRELIMINARY GRADING & DRAINAGE PLAN
C3.1	AVERAGE NATURAL GRADE EXHIBIT
C4.0	PRELIMINARY UTILITIES PLAN
C4.1	COLOR CODED UTILITIES PLAN
C4.2	WATER MAIN CONNECTION DETAIL
C4.3	PRELIMINARY UTILITIES PROFILE
C4.4	WATER MAIN UTILITY PROFILE
C-5.0	DRIVEWAY SAFETY TRIANGLES
SCP-0	OFFSITE GREEN INFRASTRUCTURE PLAN
SCP-1	PRELIMINARY IMPERVIOUS AREA EXHIBIT
SCP-2	PRELIMINARY STORMWATER CONTROL PLAN
SCP-3	STORMWATER CONTROL DETAILS
SCP-4	GREEN INFRASTRUCTURE DETAILS
CS.0	DETAILS
CS.1	CITY DETAILS
ER-1	EROSION CONTROL
ER-2	EROSION CONTROL DETAILS
SW-1	BEST MANAGEMENT PRACTICES
SU-1	TOPOGRAPHICAL SURVEY
LANDSCAPE	
L-1	OVERALL LANDSCAPE PLAN
L-2	LANDSCAPE PLAN - GROUND FLOOR
L-3	LANDSCAPE PLAN - PODIUM & ROOFS
L-4	TREE REMOVAL & REPLACEMENT PLAN
L-5	WELO CHECKLIST, PLANT PALETTE, AND NOTES
L-6	LANDSCAPE FRONTAGE CALCULATIONS
JOINT TRENCH	
JT1	JOINT TRENCH COMPOSITE TITLE SHEET
JT2	JOINT TRENCH GENERAL NOTES AND DETAILS
JT3	JOINT TRENCH DETAILS
JT4	JOINT TRENCH SECTIONS AND DETAILS
JT5	JOINT TRENCH COMPOSITE PLAN
PH1	STREET LIGHTING PHOTOMETRICS - FOR REFERENCE
SL1	STREET LIGHTING GENERAL NOTES AND DETAILS
SL2	STREET LIGHTING GENERAL NOTES AND DETAILS
SL3	STREET LIGHTING SITE PLAN

PLANNING DATA	
ADDRESS	3705 HAVEN AVE, MENLO PARK CA 94025
PARCEL NUMBER	55170240
LOT SIZE	±28,808 SQ. FT., 0.66 ± ACRES
ZONING DISTRICT	R-MU-B, RESIDENTIAL MIXED USE
DEVELOPMENT AND DESIGN STANDARDS PER MENLO PARK MUNICIPAL CODE SECTION 16.45.120	
	REQUIRED
DENSITY	>30 DU / ACRE TO 100 DU / ACRE 20 UNITS - 66 UNITS
PROPOSED	170 DU / ACRE* 112 UNITS
SETBACKS	SEE ARCHITECTURAL PLANS (ALL MEET MIN. REQUIREMENTS)
STREET SETBACKS: 0'	
SIDE SETBACKS: 10'-0"	
REAR SETBACKS: 10'-0"	
HEIGHT LIMIT	PROPERTIES W/IN FLOOD ZONE ARE ALLOWED 10' INCREASE IN HEIGHT. MAXIMUM HEIGHT 70'-0" + 10'-0" = 80'-0" (SCREEN FOR MECH. EQUIP. +14', ELEVATOR TOWERS & EQUIP. +20')
PROPOSED	74'-9" HIGHEST OCCUPIABLE FLOOR LEVEL 84'-9" TOP OF ROOF SHEATHING 71.1' AVERAGE HEIGHT
MAXIMUM RESIDENTIAL FLOOR AREA RATIO (FAR)	>90%-225% (BONUS LEVEL) RESIDENTIAL
PROPOSED	410%*
OPEN SPACE	25% OF SITE: 7,202 SF 25% OPEN SPACE PUBLICLY ACCESSIBLE: 1,801 SF 100 SF / UNIT COMMON OPEN SPACE - OR - 80 SF / UNIT PRIVATE OPEN SPACE PRIVATE OPEN SPACE: MIN. DIMENSION 6' X 6' MIX OF OPEN SPACE: RATIO OF 1.25 SF COMMON OPEN SPACE FOR 1.0 PRIVATE OPEN SPACE COMMON OPEN SPACE: MIN. OF 1 SPACE, 40' MIN. DIMENSION; 1,600 SF TOTAL MIN. (101 OR MORE UNITS)
PROPOSED	PROJECT IS COMPLIANT & MEETS 25% OF REQ'D OPEN SPACE FOR RESIDENTIAL. 4,670 SF AT GRADE PUBLICLY ACCESSIBLE OCCURS ALONG NORTH AND WEST SIDES OF BUILDING WITH FEATURE GATEWAYS WITH LIGHTING, WALKWAYS ENHANCED WITH LIGHTING AND SCULPTURAL SEATING. CORNER PLAZA WITH MODULAR STACKED SEATING AND PLANTERS, DECORATIVE BIKE RACKS, AND PAVERS AT CORNER OF HAVEN. COMMON OPEN SPACE INCLUDES 3,200 SF AT COURTYARD, 895 AT 5TH FLOOR ROOF DECK, AND 1,995 AT ROOF DECK. ADDITIONAL PRIVATE DECKS PROVIDED, SEE G0.05B, C & D. PRIVATE DECKS INCLUDE: 36- NON-COMPLIANT PRIVATE OPEN SPACE 15- PARTIALLY COMPLIANT PRIVATE OPEN SPACE, MEETS 6'X6' MIN, BUT DOES NOT MEET 80 SF. 20- COMPLIANT COMMON PRIVATE OPEN SPACE, 6'X6' MIN & 80 SF
BICYCLE PARKING	RESIDENTIAL: 168 SPACES (1.5 LONG TERM/ UNIT) 17 SPACES (10% ADDITIONAL SHORT-TERM FOR GUESTS, MUST BE WITHIN 50' OF LOBBY)
VEHICLE PARKING - RESIDENTIAL UNITS	1 SPACE/UNIT - 1.5 SPACES / UNIT MAX. (112-168 MAX.)
PROPOSED	168 SPACES LONG TERM SPACES LOCATED AT THE GROUND FLOOR. 17 SPACES SHORT-TERM FOR GUESTS LOCATED AT GROUND FLOOR WITHIN 50' OF THE LOBBY 104 UNASSIGNED PARKING SPACES (5% ADA REQUIRED)* 6 ACCESSIBLE PARKING SPACES (INCLUDES 1 VAN PARKING SPACE) PARKING OCCURS AT FLOORS 1 & 2, 34 STANDARD SIZE SPACES AND 48 COMPACT SIZE SPACES UNLESS OTHERWISE NOTED. 16 EVSE (ELECTRIC VEHICLE SUPPLY EQUIPMENT, INCLUDES 1 EVSE SPACE WITH 8' WIDE LOADING AISLE) ALL REMAINING PARKING SPACES SHALL HAVE A LOW POWER LEVEL 2 EV READY SPACE PER 4.106.4.2.1
ELECTRIC VEHICLE PARKING	PER 4.106.4.2.1, 15% SHALL BE EVCS / EVSE EQUIPPED WITH ELECTRIC VEHICLE SUPPLY EQUIPMENT WITH MINIMUM OF LEVEL 2 EV READY.
FRONTAGE LANDSCAPING	25% MIN OF SETBACK AREA BETWEEN PROP. LINE & FACE OF BUILDING (50% SHOULD PROVIDE ON-SITE INFILTRATION OF STORMWATER RUNOFF).
BUILDING MASS & SCALE: BASE HEIGHT	55' MAX. AT SETBACK OR BEFORE HORIZONTAL DISTANCE SETBACK REQUIRED. MIN. SETBACK: 10' FOR A MIN. OF 75% OF THE BUILDING FACE ALONG PUBLIC STREETS (ABOVE 45'). MAX. 25% OF BUILDING FACE ALONG PUBLIC STREETS MAY BE EXCEPTED. ASSUME PROJECTIONS (I.E. BALCONIES) DO NOT COUNT TOWARDS THIS. BUILDING PROJECTIONS: 6' MAX. DEPTH (I.E. BALCONIES/BAY WINDOWS ABOVE GROUND FLR.)
BUILDING MASS & SCALE: MAJOR & MINOR BUILDING MODULATIONS	REQUIREMENTS MET, SEE PLANS ON A2.05-A2.09 & ELEVATIONS ON A3.01, AS WELL AS DIAGRAMS ON A3.05B AND A3.05C.
GROUND FLOOR EXTERIOR: BUILDING ENTRANCES	BUILDING ENTRANCES: ONE ENTRANCE EVERY 100' OF BUILDING LENGTH, MIN. ONE ALONG EACH LENGTH.
GROUND FLOOR EXTERIOR: TRANSPARENCY	GROUND FLOOR TRANSPARENCY: 30% FOR RESIDENTIAL.
GROUND FLOOR EXTERIOR: HEIGHT ALONG ST. FRONTAGE	10' RESIDENTIAL (GROUND FLOOR LEVEL TO CEILING ALONG STREET)
GROUND FLOOR EXTERIOR: GARAGE ENTRANCES	MAXIMUM 24-FOOT OPENING FOR TWO-WAY ENTRANCE.
GROUND FLOOR EXTERIOR: AWNINGS, SIGNS & CANOPIES	7' MAX. DEPTH. 8' MIN. VERTICAL CLR. TO GRADE; SHALL NOT EXTEND INTO PUBLIC RIGHT OF WAY.
BUILDING DESIGN	ROOF LINES: 4' MIN. HEIGHT MODULATION TO BREAK VISUAL MONOTONY AND CREATE VISUALLY INTERESTING SKYLINE AT PUBLIC STREETS

\*See requested density bonus and waivers pursuant to State Density Bonus Law (Gov. Code § 65915)

CALIFORNIA GREEN BUILDING CODE REQUIREMENTS	
SEE COVER SHEET 'GENERAL NOTES' FOR ADDITIONAL GREEN BUILDING REQUIREMENTS	
SEE CONSULTANT DRAWINGS FOR ADDITIONAL GREEN BUILDING REQUIREMENTS	
ENERGY EFFICIENCY 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE (CGC) 2022 CALIFORNIA BUILDING ENERGY EFFICIENCY STANDARDS 1. SECTIONS 160.0-160.9 MANDATORY REQUIREMENTS FOR DWELLING UNITS AND COMMON USE AREAS IN MULTIFAMILY BUILDINGS.	
ENHANCED DURABILITY AND REDUCED MAINTENANCE (2022 CGC 4.406) 1. ANNULAR SPACES AROUND PIPES, ELECTRIC CABLES, CONDUITS OR OTHER OPENINGS IN SOLE/BOTTOM PLATES AT EXTERIOR WALLS SHALL BE RODENT PROOFED BY CLOSING SUCH OPENINGS WITH CEMENT MORTAR, CONCRETE MASONRY, OR SIMILAR METHOD ACCEPTABLE TO THE ENFORCING AGENCY PER SECTION 4.406.1.	
POLLUTANT CONTROL (2022 CGC 4.504) 1. ADHESIVES, SEALANTS AND CAULKS, ADHESIVES, SEALANTS AND CAULKS USED ON THE PROJECT SHALL MEET THE REQUIREMENTS OF THE STANDARDS LISTED IN SECTION 5.504.2.1. 2. HARDWOOD PLYWOOD, PARTICLEBOARD, AND MEDIUM DENSITY FIBERBOARD COMPOSITE WOOD PRODUCTS SHALL COMPLY WITH THE LOW FORMALDEHYDE EMISSION STANDARDS (2022 CGC 4.504.5) 3. SEE FINISH SCHEDULE FOR ADDITIONAL REQUIREMENTS	
INTERIOR MOISTURE CONTROL (2022 CGC 4.505) 1. A CAPILLARY BREAK SHALL BE INSTALLED IF A SLAB ON GRADE FOUNDATION SYSTEM IS USED. THE USED OF A 4" THICK BASE OF 1/2" OR LARGER CLEAN AGGREGATE UNDER 6 MIL VAPOR RETARDER WITH JOINT LAPPED NOT LESS THAN 6" WILL BE PROVIDED PER SECTION 4.505.2	
INSTALLER SPECIAL INSPECTOR QUALIFICATION (2022 CGC 702) 1. HVAC SYSTEM INSTALLERS WILL BE TRAINED AND CERTIFIED IN THE PROPER INSTALLATION OF HVAC SYSTEMS AND EQUIPMENT BY A RECOGNIZED TRAINING/CERTIFICATION PROGRAM PER SECTION 702.1 2. WHEN REQUIRED BY THE ENFORCING AGENCY, SHALL EMPLOY SPECIAL INSPECTORS (2022 CGC 702.2)	
VERIFICATION (2022 CGC 703) 1. UPON REQUEST, VERIFICATION OF COMPLIANCE WITH THIS CODE MAY INCLUDE CONSTRUCTION DOCUMENTS, PLANS, SPECIFICATIONS, BUILDER OR INSTALLER CERTIFICATION, INSPECTION REPORTS, OR OTHER METHODS ACCEPTABLE TO THE BUILDING OFFICIAL WHICH SHOW SUBSTANTIAL CONFORMANCE PER SECTION 703.1.	
EXPOSURE TO AIR POLLUTION (TOXIC AIR)	
PROJECT APPLICANT TO RETAIN A QUALIFIED AIR QUALITY CONSULTANT TO PREPARE A HEALTH RISK ASSESSMENT (HRA) IN ACCORDANCE WITH CALIFORNIA AIR RESOURCES BOARD (CARB) AND OFFICE OF ENVIRONMENTAL HEALTH AND HAZARD ASSESSMENT REQUIREMENTS TO DETERMINE THE HEALTH RISK OF EXPOSURE OF PROJECT RESIDENTS/OCCUPANTS/USERS TO AIR POLLUTANTS. THE HRA SHALL BE SUBMITTED TO THE CITY FOR REVIEW AND APPROVAL. IF TECH HRA CONCLUDES THAT THE HEALTH RISK IS AT OR BELOW ACCEPTABLE LEVELS, THEN HEALTH RISK REDUCTION MEASURES ARE NOT REQUIRED. IF THE HRA CONCLUDES THAT THE HEALTH RISK EXCEEDS ACCEPTABLE LEVELS, HEALTH RISK REDUCTION MEASURES SHALL BE IDENTIFIED TO REDUCE THE HEALTH RISK TO ACCEPTABLE LEVELS. IDENTIFIED RISK REDUCTION MEASURES SHALL BE SUBMITTED TO THE CITY FOR REVIEW AND APPROVAL AND BE INCLUDED ON THE PROJECT DRAWINGS SUBMITTED FOR THE CONSTRUCTION-RELATED PERMIT OR ON OTHER DOCUMENTATION SUBMITTED TO THE CITY. THE APPROVED RISK REDUCTION MEASURES SHALL BE IMPLEMENTED DURING CONSTRUCTION AND/OR OPERATIONS AS APPLICABLE.	
REQUESTS FOR CONCESSIONS & WAIVERS	
FOR A COMPLETE DESCRIPTION OF ITEMS NOTED BELOW, PLEASE SEE PROJECT DESCRIPTION LETTER AND DENSITY BONUS LAW LETTER.	
CONCESSIONS / INCENTIVES: ADDING RATHER THAN REPLACING A UTILITY POLE NOT PRE-PLUMBING FOR RECYCLED WATER REDUCING GROUND FLOOR TRANSPARENCY	
WAIVERS: INCREASE IN RESIDENTIAL FLOOR AREA ("FAR") INCREASE IN HEIGHT DECREASE GROUND FLOOR HEIGHT DECREASE IN PARKING REDUCTION IN PARKING SPACE SIZE BMR UNIT SIZE	

ABBREVIATIONS	LEGEND
A/C	AIR CONDITIONING
ADJ.	ADJUSTABLE
A.F.F.	ABOVE FINISH FLOOR
ALUM.	ALUMINUM
ALT.	ALTERNATE
APPROX.	APPROXIMATELY
ARCH.	ARCHITECT (URAL)
A.C.T.	ACOUSTIC CEILING TILE
BFE	BASE FLOOR ELEVATION
BLDG.	BUILDING
BLKG.	BLOCKING
BOT.	BOTTOM
CL	CENTER LINE
CAB.	CABINET
C.G.	CORNER GUARD
CHG.	CHANGE
CLG.	CEILING
CLOS.	CLOSET
CLR.	CLEAR
C.M.U.	CONCRETE MASONRY UNIT
COL.	COLUMN
CONC.	CONCRETE
CONN.	CONNECTION
CONST.	CONSTRUCTION
CORR.	CORRIDOR
C.T.	CERAMIC TILE
CTR.	CENTER
DET.	DETAIL
DFE	DESIGN FLOOR ELEVATION
DIAM	DIAMETER
DIM.	DIMENSION
DN.	DOWN
DN.C.	DRAINING
DS.	DOWN SPOUT
(E)	EXISTING
EA.	EACH
ELEV.	ELEVATION
ELEC.	ELECTRICAL
ELEV.	ELEVATOR
EQ.	EQUIPMENT
EQUIP.	EQUIPMENT
EXP.	EXPANSION
EXPOS.	EXPOSED
EXT.	EXTERIOR
F.D.	FLOOR DRAIN
F.F.E.	FINISH FLOOR ELEVATION
FIN.	FINISH
FL.	FLOOR
FLASH.	FLASHING
FLUOR.	FLUORESCENT
F.O.F.	FACE OF FINISH
F.O.S.	FACE OF STUD
FFRF.	FIREPROOF
FURR.	FURRING
GA.	GAGE
GALV.	GALVANIZED
G.C.	GENERAL CONTRACTOR
GL.	GLASS
GR.	GRADE
GYP. BD.	GYPSPUM BOARD
H.B.	HOSE BIB
HC	HANDICAPPED
H.C.	HOLLOW CORE
H.DWR.	HARDWARE
HGT.	HEIGHT
H.M.	HOLLOW METAL
H.P.	HIGH POINT
HR.	HOUR
H.W.	HOT WATER
INSUL.	INSULATION/INSULATED
INT.	INTERIOR
JAN.	JANITOR
JT.	JOINT
L.P.	LOW POINT
MAX.	MAXIMUM
M.C.	MEDICINE CABINET
M.D.	MOTION DETECTOR
MECH.	MECHANICAL
MIN.	MINIMUM
MTD.	MOUNTED
MTL.	METAL
(N)	NEW
N.I.C.	NOT IN CONTRACT
NO.	NUMBER
N.T.S.	NOT TO SCALE
O.C.	ON CENTER
OFF.	OFFICE
OPNG.	OPENING
OPP.	OPPOSITE
O.T.B.	OPEN TO BELOW
PR.	PAIR
P.LAM.	PLASTIC LAMINATE
PTD.	PAINTED
PLYWD.	PLYWOOD
P.O.	PRIVATE OFFICE
R.	RISER
R.D.	ROOF DRAIN
REQ.	REQUIRED
RM.	ROOM
R.O.	ROUGH OPENING
S.C.	SOLID CORE
STOR.	STORAGE
SHT.	SHEET
SIM.	SIMILAR
STRL.	STRUCTURAL
T.	TREAD
T&G	TONGUE AND GROOVE
TEL.	TELEPHONE
T.O.	TOP OF
TYP.	TYPICAL OTHERWISE NOTED
U.O.N.	VERIFY IN FIELD
V.I.F.	WOOD
WD.	WOOD
W.P.	WATERPROOF
#	DETAIL REFERENCE #
XXX	SHEET #
#	SECTION REFERENCE #
XXV	SHEET #
X	ELEVATION REFERENCE #
XXX	SHEET #
DTL	SHEET #
DTL	ELEVATION REFERENCE #
REVISION CLOUD	REVISION CLOUD
101	DOOR SYMBOL
W.X	WINDOW SYMBOL
X-X	CEILING HEIGHT
X	KEYNOTE TAG
XX-X	WALL/FLOOR TYPE SYMBOL
+	ELEVATION DATUM
XX-X	SHEET NOTE
↔	ALIGN, FLUSH
B.R.P.	BUILDING REFERENCE POINT
⊙	ROOF DRAIN
○	FLOOR DRAIN
—	HOSE BIB
○	WALL-MOUNTED SCIENCE LIGHT FIXTURE, S.E.D. FOR MORE INFORMATION
◇	WALL-MOUNTED COMPACT FLUORESCENT SCIENCE LIGHT FIXTURE, S.E.D. FOR MORE INFORMATION
□	RECESSED INCANDESCENT LIGHT FIXTURE AT CEILING, S.E.D. FOR MORE INFORMATION
⊠	RECESSED COMPACT FLUORESCENT LIGHT FIXTURE AT CEILING, S.E.D. FOR MORE INFORMATION
⊡	SURFACE-MOUNTED COMPACT FLUORESCENT LIGHT FIXTURE AT CEILING, S.E.D. FOR MORE INFORMATION
⊢	COMBINATION EXHAUST FAN AND COMPACT FLUORESCENT LIGHT FIXTURE, RECESSED AT CEILING, S.E.D. FOR MORE INFORMATION
⊣	SURFACE-MOUNTED FLUORESCENT STRIP LIGHT FIXTURE, CEILING-MOUNTED (WITH LENGTH AS INDICATED), S.E.D. FOR MORE INFORMATION
⊤	SURFACE-MOUNTED TRACK LIGHT FIXTURE, CEILING-MOUNTED (WITH LENGTH AS INDICATED), S.E.D. FOR MORE INFORMATION
⊥	EMERGENCY LIGHT FIXTURE WITH BATTERY PACK, CEILING OR WALL-MOUNTED, S.E.D. FOR MORE INFORMATION
⊦	EXIT LIGHT FIXTURE WITH BATTERY BACK-UP, CEILING OR WALL-MOUNTED (WITH DIRECTIONAL ARROWS AS REQUIRED), S.E.D. FOR MORE INFORMATION
⊧	ONE-WAY SWITCH, MOUNTED AT +48" A.F.F., U.O.N., S.E.D. FOR MORE INFORMATION
⊨	TWO-WAY SWITCH, MOUNTED AT +48" A.F.F., U.O.N., S.E.D. FOR MORE INFORMATION
⊩	THREE-WAY SWITCH, MOUNTED AT +48" A.F.F., U.O.N., S.E.D. FOR MORE INFORMATION

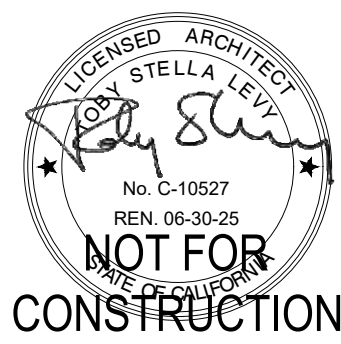


# 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE

## RESIDENTIAL MANDATORY MEASURES, SHEET 1 (January 2023)

LEGEND	ARCHITECT	Y	NA	RESPON. PARTY	=	YES
ARCH	ENGINEER	Y	NA	RESPON. PARTY	=	NOT APPLICABLE
ENGR	OWNER	Y	NA	RESPON. PARTY	=	RESPONSIBLE PARTY (i.e. ARCHITECT, ENGINEER, OWNER, CONTRACTOR, INSPECTOR ETC.)
OWNER	CONTRACTOR	Y	NA	RESPON. PARTY	=	
CONTR.	INSPECTOR	Y	NA	RESPON. PARTY	=	
INSP.	LANDSCAPE ARCHITECT	Y	NA	RESPON. PARTY	=	
LANDS.		Y	NA	RESPON. PARTY	=	

NOTICE: THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY AND COPYRIGHT OF LEVY DESIGN PARTNERS, INC. (LDP ARCHITECTURE) AND SHALL NOT BE USED EXCEPT BY WRITTEN AGREEMENT WITH LEVY DESIGN PARTNERS.



3705 HAVEN AVE  
MENLO PARK, CA

PROJECT NO. 21-07  
PARCEL NO. 055170240

REVISION DATE DESCRIPTION

04-14-2023	PLANNING & SB330 REV 2
09-22-2023	PLANNING & SB330 REV 3
03-20-2024	PLANNING & SB330 REV 4
06-13-2024	PLANNING & SB330 REV 5
07-26-2024	PLANNING & SB330 REV 6

CONTACT: TOBY LEVY

(415) 777-0561 P  
(415) 777-5117 F

SCALE: AS NOTED

## GREEN BUILDING CHECKLIST

# G0.01A

Y	NA	RESPON. PARTY	<b>CHAPTER 3 GREEN BUILDING SECTION 301 GENERAL</b>
			<b>301.1 SCOPE.</b> Buildings shall be designed to include the green building measures specified as mandatory in the application checklists contained in this code. Voluntary green building measures are also included in the application checklists and may be included in the design and construction of structures covered by this code, but are not required unless adopted by a city, county, or city and county as specified in Section 101.7.
			<b>301.1.1 Additions and alterations. [HCD]</b> The mandatory provisions of Chapter 4 shall be applied to additions or alterations of existing residential buildings where the addition or alteration increases the building's conditioned area, volume, or size. The requirements shall apply only to and/or within the specific area of the addition or alteration.
			The mandatory provision of Section 4.106.4.2 may apply to additions or alterations of existing parking facilities or the addition of new parking facilities serving existing multifamily buildings. See Section 4.106.4.3 for application.
			<b>Note:</b> Repairs including, but not limited to, resurfacing, restriping and repairing or maintaining existing lighting fixtures are not considered alterations for the purpose of this section.
			<b>Note:</b> On and after January 1, 2014, residential buildings undergoing permitted alterations, additions, or improvements shall replace noncompliant plumbing fixtures with water-conserving plumbing fixtures. Plumbing fixture replacement is required prior to issuance of a certificate of final completion, certificate of occupancy or final permit approval by the local building department. See Civil Code Section 1101.1, et seq., for the definition of a noncompliant plumbing fixture, types of residential buildings affected and other important enactment dates.
			<b>301.2 LOW-RISE AND HIGH-RISE RESIDENTIAL BUILDINGS. [HCD]</b> The provisions of individual sections of CALGreen may apply to either low-rise residential buildings high-rise residential buildings, or both. Individual sections will be designated by banners to indicate where the section applies specifically to low-rise only (LR) or high-rise only (HR). When the section applies to both low-rise and high-rise buildings, no banner will be used.
			<b>SECTION 302 MIXED OCCUPANCY BUILDINGS</b>
			<b>302.1 MIXED OCCUPANCY BUILDINGS.</b> In mixed occupancy buildings, each portion of a building shall comply with the specific green building measures applicable to each specific occupancy. Exceptions:
			1. [HCD] Accessory structures and accessory occupancies serving residential buildings shall comply with Chapter 4 and Appendix A4, as applicable.
			2. [HCD] For purposes of CALGreen, live/work units, complying with Section 419 of the California Building Code, shall not be considered mixed occupancies. Live/Work units shall comply with Chapter 4 and Appendix A4, as applicable.
			<b>DIVISION 4.1 PLANNING AND DESIGN</b>
			<b>ABBREVIATION DEFINITIONS:</b>
			HCD Department of Housing and Community Development
			BSC California Building Standards Commission
			DSA-SS Division of the State Architect, Structural Safety
			OSHPD Office of Statewide Health Planning and Development
			LR Low Rise
			HR High Rise
			AA Additions and Alterations
			N New
			<b>CHAPTER 4 RESIDENTIAL MANDATORY MEASURES</b>
			<b>SECTION 4.102 DEFINITIONS</b>
			<b>4.102.1 DEFINITIONS</b>
			The following terms are defined in Chapter 2 (and are included here for reference)
			<b>FRENCH DRAIN.</b> A trench, hole or other depressed area loosely filled with rock, gravel, fragments of brick or similar pervious material used to collect or channel drainage or runoff water.
			<b>WATTLES.</b> Wattles are used to reduce sediment in runoff. Wattles are often constructed of natural plant materials such as hay, straw or similar material shaped in the form of tubes and placed on a downflow slope. Wattles are also used for perimeter and inlet controls.
X		CONTR.	<b>4.106 SITE DEVELOPMENT</b>
			<b>4.106.1 GENERAL.</b> Preservation and use of available natural resources shall be accomplished through evaluation and careful planning to minimize negative effects on the site and adjacent areas. Preservation of slopes, management of storm water drainage and erosion controls shall comply with this section.
X		CONTR.	<b>4.106.2 STORM WATER DRAINAGE AND RETENTION DURING CONSTRUCTION.</b> Projects which disturb less than one acre of soil and are not part of a larger common plan of development which in total disturbs one acre or more, shall manage storm water drainage during construction. In order to manage storm water drainage during construction, one or more of the following measures shall be implemented to prevent flooding of adjacent property, prevent erosion and retain soil runoff on the site.
			1. Retention basins of sufficient size shall be utilized to retain storm water on the site.
			2. Where storm water is conveyed to a public drainage system, collection point, gutter or similar disposal method, water shall be filtered by use of a barrier system, wattle or other method approved by the enforcing agency.
			3. Compliance with a lawfully enacted storm water management ordinance.
			<b>Note:</b> Refer to the State Water Resources Control Board for projects which disturb one acre or more of soil, or are part of a larger common plan of development which in total disturbs one acre or more of soil.
			(Website: <a href="https://www.waterboards.ca.gov/water_issues/programs/stormwater/construction.html">https://www.waterboards.ca.gov/water_issues/programs/stormwater/construction.html</a> )
X		CONTR.	<b>4.106.3 GRADING AND PAVING.</b> Construction plans shall indicate how the site grading and drainage system will manage all surface water flows to keep water from entering buildings. Examples of methods to manage surface water include, but are not limited to, the following:
			1. Swales
			2. Water collection and disposal systems
			3. French drains
			4. Water retention gardens
			5. Other water measures which keep surface water away from buildings and aid in groundwater recharge.
			<b>Exception:</b> Additions and alterations not altering the drainage path.
X		ARCH&ENGR	<b>4.106.4 Electric vehicle (EV) charging for new construction.</b> New construction shall comply with Sections 4.106.4.1 or 4.106.4.2 to facilitate future installation and use of EV chargers. Electric vehicle charging equipment (EVSE) shall be installed in accordance with the California Electrical Code, Article 625.
			<b>Exceptions:</b>
			1. On a case-by-case basis, where the local enforcing agency has determined EV charging and infrastructure are not feasible based upon one or more of the following conditions:
			1.1 Where there is no local utility power supply or the local utility is unable to supply adequate power.
			1.2 Where there is evidence suitable to the local enforcing agency substantiating that additional local utility infrastructure design requirements, directly related to the implementation of Section 4.106.4, may adversely impact the construction cost of the project.
			2. Accessory Dwelling Units (ADU) and Junior Accessory Dwelling Units (JADU) without additional parking facilities.
			<b>4.106.4.1 New one- and two-family dwellings and townhouses with attached private garages.</b> For each dwelling unit, install a listed raceway to accommodate a dedicated 208/240-volt branch circuit. The raceway shall not be less than trade size 1 (nominal 1-inch inside diameter). The raceway shall originate at the main service or subpanel and shall terminate into a listed cabinet, box or other enclosure in close proximity to the proposed location of an EV charger. Raceways are required to be continuous and enclosed, inaccessible or concealed areas and spaces. The service panel and/or subpanel shall provide capacity to install a 40-ampere 208/240-volt minimum dedicated branch circuit and space(s) reserved to permit installation of a branch circuit overcurrent protective device.
			<b>Exception:</b> A raceway is not required if a minimum 40-ampere 208/240-volt dedicated EV branch circuit is installed in close proximity to the proposed location of an EV charger at the time of original construction in accordance with the California Electrical Code.
			<b>4.106.4.1.1 Identification.</b> The service panel or subpanel circuit directory shall identify the overcurrent protective device space(s) reserved for future EV charging as "EV CAPABLE". The raceway termination location shall be permanently and visibly marked as "EV CAPABLE".

Y	NA	RESPON. PARTY	<b>4.106.4.2 New multifamily dwellings, hotels and motels and new residential parking facilities.</b>
			When parking is provided, parking spaces for new multifamily dwellings, hotels and motels shall meet the requirements of Sections 4.106.4.2.1 and 4.106.4.2.2. Calculations for spaces shall be rounded up to the nearest whole number. A parking space served by electric vehicle supply equipment or designed as a future EV charging space shall count as at least one standard automobile parking space only for the purpose of complying with any applicable minimum parking space requirements established by a local jurisdiction. See Vehicle Code Section 22511.2 for further details.
			<b>4.106.4.2 Multifamily development projects with less than 20 dwelling units; and hotels and motels with less than 20 sleeping units or guest rooms.</b>
			The number of dwelling units, sleeping units or guest rooms shall be based on all buildings on a project site subject to this section.
			<b>1.EV Capable.</b> Ten (10) percent of the total number of parking spaces on a building site, provided for all types of parking facilities, shall be electric vehicle charging spaces (EV spaces) capable of supporting future Level 2 EVSE. Electrical load calculations shall demonstrate that the electrical panel service capacity and electrical system, including any on-site distribution transformer(s), have sufficient capacity to simultaneously charge all EVs at all required EV spaces at a minimum of 40 amperes.
			The service panel or subpanel circuit directory shall identify the overcurrent protective device space(s) reserved for future EV charging purposes as "EV CAPABLE" in accordance with the California Electrical Code.
			<b>Exceptions:</b>
			1. When EV chargers (Level 2 EVSE) are installed in a number equal to or greater than the required number of EV capable spaces.
			2. When EV chargers (Level 2 EVSE) are installed in a number less than the required number of EV capable spaces, the number of EV capable spaces required may be reduced by a number equal to the number of EV chargers installed.
			<b>Notes:</b>
			a. Construction documents are intended to demonstrate the project's capability and capacity for facilitating future EV charging.
			b. There is no requirement for EV spaces to be constructed or available until receptacles for EV charging or EV chargers are installed for use.
			<b>2.EV Ready.</b> Twenty-five (25) percent of the total number of parking spaces shall be equipped with low power Level 2 EV charging receptacles. For multifamily parking facilities, no more than one receptacle is required per dwelling unit when more than one parking space is provided for use by a single dwelling unit.
			<b>Exception:</b> Areas of parking facilities served by parking lifts.
X		ARCH&ENGR	<b>4.106.4.2.2 Multifamily development projects with 20 or more dwelling units, hotels and motels with 20 or more sleeping units or guest rooms.</b>
			The number of dwelling units, sleeping units or guest rooms shall be based on all buildings on a project site subject to this section.
			<b>1.EV Capable.</b> Ten (10) percent of the total number of parking spaces on a building site, provided for all types of parking facilities, shall be electric vehicle charging spaces (EV spaces) capable of supporting future Level 2 EVSE. Electrical load calculations shall demonstrate that the electrical panel service capacity and electrical system, including any on-site distribution transformer(s), have sufficient capacity to simultaneously charge all EVs at all required EV spaces at a minimum of 40 amperes.
			The service panel or subpanel circuit directory shall identify the overcurrent protective device space(s) reserved for future EV charging purposes as "EV CAPABLE" in accordance with the California Electrical Code.
			<b>Exception:</b> When EV chargers (Level 2 EVSE) are installed in a number greater than five (5) percent of parking spaces required by Section 4.106.4.2.2, Item 3, the number of EV capable spaces required may be reduced by a number equal to the number of EV chargers installed over the five (5) percent required.
			<b>Notes:</b>
			a. Construction documents shall show locations of future EV spaces.
			b. There is no requirement for EV spaces to be constructed or available until receptacles for EV charging or EV chargers are installed for use.
			<b>2.EV Ready.</b> Twenty-five (25) percent of the total number of parking spaces shall be equipped with low power Level 2 EV charging receptacles. For multifamily parking facilities, no more than one receptacle is required per dwelling unit when more than one parking space is provided for use by a single dwelling unit.
			<b>Exception:</b> Areas of parking facilities served by parking lifts.
			<b>3.EV Chargers.</b> Five (5) percent of the total number of parking spaces shall be equipped with Level 2 EVSE. Where common use parking is provided, at least one EV charger shall be located in the common use parking area and shall be available for use by all residents or guests.
			When low power Level 2 EV charging receptacles or Level 2 EVSE are installed beyond the minimum required, an automatic load management system (ALMS) may be used to reduce the maximum required electrical capacity to each space served by the ALMS. The electrical system and any on-site distribution transformers shall have sufficient capacity to deliver at least 3.3 kW simultaneously to each EV charging station (EVCS) served by the ALMS. The branch circuit shall have a minimum capacity of 40 amperes, and installed EVSE shall have a capacity of not less than 30 amperes. ALMS shall not be used to reduce the minimum required electrical capacity to the required EV capable spaces.
			<b>4.106.4.2.2.1 Electric vehicle charging stations (EVCS).</b>
			Electric vehicle charging stations required by Section 4.106.4.2.2, Item 3, shall comply with Section 4.106.4.2.2.1.
			<b>Exception:</b> Electric vehicle charging stations serving public accommodations, public housing, motels and hotels shall not be required to comply with this section. See California Building Code, Chapter 11B, for applicable requirements.
			<b>4.106.4.2.2.1.1 Location.</b>
			EVCS shall comply with at least one of the following options:
			1. The charging space shall be located adjacent to an accessible parking space meeting the requirements of the California Building Code, Chapter 11A, to allow use of the EV charger from the accessible parking space.
			2. The charging space shall be located on an accessible route, as defined in the California Building Code, Chapter 2, to the building.
			<b>Exception:</b> Electric vehicle charging stations designed and constructed in compliance with the California Building Code, Chapter 11B, are not required to comply with Section 4.106.4.2.2.1.1 and Section 4.106.4.2.2.1.2, Item 3.
			<b>4.106.4.2.2.1.2 Electric vehicle charging stations (EVCS) dimensions.</b>
			The charging spaces shall be designed to comply with the following:
			1. The minimum length of each EV space shall be 18 feet (5486 mm).
			2. The minimum width of each EV space shall be 9 feet (2743 mm).
			3. One in every 25 charging spaces, but not less than one, shall also have an 8-foot (2438 mm) wide minimum aisle. A 5-foot (1524 mm) wide minimum aisle shall be permitted provided the minimum width of the EV space is 12 feet (3658 mm).
			a. Surface slope for this EV space and the aisle shall not exceed 1 unit vertical in 48 units horizontal (2.083 percent slope) in any direction.
			<b>4.106.4.2.2.1.3 Accessible EV spaces.</b>
			In addition to the requirements in Sections 4.106.4.2.2.1.1 and 4.106.4.2.2.1.2, all EVSE, when installed, shall comply with the accessibility provisions for EV chargers in the California Building Code, Chapter 11B. EV ready spaces and EVCS in multifamily developments shall comply with California Building Code, Chapter 11A, Section 1109A.
			<b>4.106.4.2.3 EV space requirements.</b>
			1. Single EV space required. Install a listed raceway capable of accommodating a 208/240-volt dedicated branch circuit. The raceway shall not be less than trade size 1 (nominal 1-inch inside diameter). The raceway shall originate at the main service or subpanel and shall terminate into a listed cabinet, box or enclosure in close proximity to the location of the proposed location of the EV space. Construction documents shall identify the raceway termination point, receptacle or charger location, as applicable. The service panel and/or subpanel shall have a 40-ampere minimum dedicated branch circuit, including branch circuit overcurrent protective device installed, or space(s) reserved to permit installation of a branch circuit overcurrent protective device.
			<b>Exception:</b> A raceway is not required if a minimum 40-ampere 208/240-volt dedicated EV branch circuit is installed in close proximity to the location or the proposed location of the EV space, at the time of original construction in accordance with the California Electrical Code.
			2. Multiple EV spaces required. Construction documents shall indicate the raceway termination point and the location of installed or future EV spaces, receptacles or EV chargers. Construction documents shall also provide information on amperage of installed or future receptacles or EVSE, raceway method(s), wiring schematics and electrical load calculations. Plan design shall be based upon a 40-ampere minimum branch circuit. Required raceways and related components that are planned to be installed underground, enclosed, inaccessible or in concealed areas and spaces shall be installed at the time of original construction.

Y	NA	RESPON. PARTY	<b>Exception:</b> A raceway is not required if a minimum 40-ampere 208/240-volt dedicated EV branch circuit is installed in close proximity to the location or the proposed location of the EV space at the time of original construction in accordance with the California Electrical Code.
			<b>4.106.4.2.4 Identification.</b>
			The service panel or subpanel circuit directory shall identify the overcurrent protective device space(s) reserved for future EV charging purposes as "EV CAPABLE" in accordance with the California Electrical Code.
			<b>4.106.4.2.5 Electric Vehicle Ready Space Signage.</b>
			Electric vehicle ready spaces shall be identified by signage or pavement markings, in compliance with Caltrans Traffic Operations Policy Directive 13-01 (Zero Emission Vehicle Signs and Pavement Markings) or its successor(s).
			<b>4.106.4.3 Electric vehicle charging for additions and alterations of parking facilities serving existing multifamily buildings.</b>
			When new parking facilities are added, or electrical systems or lighting of existing parking facilities are added or altered and the work requires a building permit, ten (10) percent of the total number of parking spaces added or altered shall be electric vehicle charging spaces (EV spaces) capable of supporting future Level 2 EVSE.
			<b>Notes:</b>
			1. Construction documents are intended to demonstrate the project's capability and capacity for facilitating future EV charging.
			2. There is no requirement for EV spaces to be constructed or available until EV chargers are installed for use.
			<b>DIVISION 4.2 ENERGY EFFICIENCY</b>
			<b>4.201 GENERAL</b>
			<b>4.201.1 SCOPE.</b> For the purposes of mandatory energy efficiency standards in this code, the California Energy Commission will continue to adopt mandatory standards.
			<b>DIVISION 4.3 WATER EFFICIENCY AND CONSERVATION</b>
			<b>4.303 INDOOR WATER USE</b>
			<b>4.303.1 WATER CONSERVING PLUMBING FIXTURES AND FITTINGS.</b> Plumbing fixtures (water closets and urinals) and fittings (faucets and showerheads) shall comply with the sections 4.303.1.1, 4.303.1.2, 4.303.1.3, and 4.303.4.4.
			<b>Note:</b> All noncompliant plumbing fixtures in any residential real property shall be replaced with water-conserving plumbing fixtures. Plumbing fixture replacement is required prior to issuance of a certificate of final completion, certificate of occupancy, or final permit approval by the local building department. See Civil Code Section 1101.1, et seq., for the definition of a noncompliant plumbing fixture, types of residential buildings affected and other important enactment dates.
			<b>4.303.1.1 Water Closets.</b> The effective flush volume of all water closets shall not exceed 1.28 gallons per flush. Tank-type water closets shall be certified to the performance criteria of the U.S. EPA WaterSense Specification for Tank-type Toilets.
			<b>Note:</b> The effective flush volume of dual flush toilets is defined as the composite, average flush volume of two reduced flushes and one full flush.
			<b>4.303.1.2 Urinals.</b> The effective flush volume of wall mounted urinals shall not exceed 0.125 gallons per flush. The effective flush volume of all other urinals shall not exceed 0.5 gallons per flush.
			<b>4.303.1.3 Showerheads.</b>
			<b>4.303.1.3.1 Single Showerhead.</b> Showerheads shall have a maximum flow rate of not more than 1.8 gallons per minute at 80 psi. Showerheads shall be certified to the performance criteria of the U.S. EPA WaterSense Specification for Showerheads.
			<b>4.303.1.3.2 Multiple showerheads serving one shower.</b> When a shower is served by more than one showerhead, the combined flow rate of all the showerheads and/or other shower outlets controlled by a single valve shall not exceed 1.8 gallons per minute at 80 psi, or the shower shall be designed to only allow one shower outlet to be in operation at a time.
			<b>Note:</b> A hand-held shower shall be considered a showerhead.
			<b>4.303.1.4 Faucets.</b>
			<b>4.303.1.4.1 Residential Lavatory Faucets.</b> The maximum flow rate of residential lavatory faucets shall not exceed 1.2 gallons per minute at 60 psi. The minimum flow rate of residential lavatory faucets shall not be less than 0.8 gallons per minute at 20 psi.
			<b>4.303.1.4.2 Lavatory Faucets in Common and Public Use Areas.</b> The maximum flow rate of lavatory faucets installed in common and public use areas (outside of dwellings or sleeping units) in residential buildings shall not exceed 0.5 gallons per minute at 60 psi.
			<b>4.303.1.4.3 Metering Faucets.</b> Metering faucets when installed in residential buildings shall not deliver more than 0.2 gallons per cycle.
			<b>4.303.1.4.4 Kitchen Faucets.</b> The maximum flow rate of kitchen faucets shall not exceed 1.8 gallons per minute at 60 psi. Kitchen faucets may temporarily increase the flow above the maximum rate, but not to exceed 2.2 gallons per minute at 60 psi, and must default to a maximum flow rate of 1.8 gallons per minute at 60 psi.
			<b>Note:</b> Where complying faucets are unavailable, aerators or other means may be used to achieve reduction.
			<b>4.303.1.4.5 Pre-rinse spray valves.</b>
			When installed, shall meet the requirements in the California Code of Regulations, Title 20 (Appliance Efficiency Regulations), Sections 1605.1 (h)(4) Table H-2, Section 1605.3 (h)(4)(A), and Section 1607 (d)(7) and shall be equipped with an integral automatic shutoff.
			<b>FOR REFERENCE ONLY:</b> The following table and code section have been reprinted from the California Code of Regulations, Title 20 (Appliance Efficiency Regulations), Section 1605.1 (h)(4) and Section 1605.3 (h)(4)(A).
			<b>TABLE H-2</b>
			<b>STANDARDS FOR COMMERCIAL PRE-RINSE SPRAY VALVES MANUFACTURED ON OR AFTER JANUARY 28, 2019</b>
			<b>PRODUCT CLASS [spray force in ounce force (ozf)]</b>
			<b>MAXIMUM FLOW RATE (gpm)</b>
			Product Class 1 (≤ 5.0 ozf)
			1.00
			Product Class 2 (> 5.0 ozf and ≤ 8.0 ozf)
			1.20
			Product Class 3 (> 8.0 ozf)
			1.28
			Title 20 Section 1605.3 (h)(4)(A). Commercial pre-rinse spray valves manufactured on or after January 1, 2006, shall have a minimum spray force of not less than 4.0 ounces-force (ozf) [113 grams-force (gf)]
			<b>4.303.2 Submeters for multifamily buildings and dwelling units in mixed-use residential-commercial buildings.</b>
			Submeters shall be installed to measure water usage of individual rental dwelling units in accordance with the California Plumbing Code.
			<b>4.303.3 Standards for plumbing fixtures and fittings.</b> Plumbing fixtures and fittings shall be installed in accordance with the California Plumbing Code, and shall meet the applicable standards referenced in Table 1701.1 of the California Plumbing Code.
			<b>NOTE:</b> THIS TABLE COMPILES THE DATA IN SECTION 4.303.1, AND IS INCLUDED AS A CONVENIENCE FOR THE USER.
			<b>TABLE - MAXIMUM FIXTURE WATER USE</b>
			<b>FIXTURE TYPE</b>
			<b>FLOW RATE</b>
			SHOWER HEADS (RESIDENTIAL)
			1.8 GMP @ 80 PSI
			LAVATORY FAUCETS (RESIDENTIAL)
			MAX. 1.2 GPM @ 60 PSI MIN. 0.8 GPM @ 20 PSI
			LAVATORY FAUCETS IN COMMON & PUBLIC USE AREAS
			0.5 GPM @ 60 PSI
			KITCHEN FAUCETS
			1.8 GPM @ 60 PSI
			METERING FAUCETS
			0.2 GAL/CYCLE
			WATER CLOSET
			1.28 GAL/FLUSH
			URINALS
			0.125 GAL/FLUSH

Y	NA	RESPON. PARTY	<b>4.304 OUTDOOR WATER USE</b>
			<b>4.304.1 OUTDOOR POTABLE WATER USE IN LANDSCAPE AREAS.</b> Residential developments shall comply with a local water efficient landscape ordinance or the current California Department of Water Resources' Model Water Efficient Landscape Ordinance (MWELO), whichever is more stringent.
			<b>NOTES:</b>
			1. The Model Water Efficient Landscape Ordinance (MWELO) is located in the California Code Regulations, Title 23, Chapter 2.7, Division 2. MWELO and supporting documents, including water budget calculator, are available at: <a href="https://www.water.ca.gov/">https://www.water.ca.gov/</a>







Sharon Block

**Homes 3705 Haven**

**3705 Haven**  
30003805 - LEED v4 BD+C Multifamily Midrise

Summary Details Team Payments Setup Incomplete

All LEED v4 BD+C and ID+C projects (including residential adaptations of BD+C) registering after the system update scheduled for 9 pm ET on March 1, 2024, will be required to adhere to updated energy credit and prerequisite language. Learn more about this update.

**Project details**

Name	3705 Haven
Registration date	14 Jun 2022
Rating system	LEED v4 BD+C Multifamily Midrise
Building type	Multi-Family Mid-Rise (4+ stories)
Country/Region	United States
Address 1	3705 Haven Avenue
City	Menlo Park
State/Province	California
Postal code	94025
Geo location	37.465322, -122.18229

**Homes provider** Bright Green Strategies Inc.  
**Green rater** Sharon Block  
**Gross floor area** 157418 sq ft  
**Conditioned area** 118050 sq ft  
**Number of units** 112  
**Number of stories** 8  
**Market classification** Market Rate  
**Builder name** March Capital Management  
**Private** Yes  
**Historic registry** No

**Owner** March Capital Management  
**Owner's representative (Employee or Officer of Owner)** Oliver Davis  
**Owner type** Profit Organization  
**Owner Country/Region** United States  
**Phone** 415-874-9893  
**Email** oliver@marchcapitalfund.com

If the Owner's representative, Owner type or owner email fields need to be edited, please Contact Us.

**Terms and conditions**  
Certification Agreement

Did the owner sign the Certification agreement? If not, please submit the **Confirmation of agent's authority** form to confirm the agent's authority to accept the Certification agreement for the Owner. If the completed form indicates the name originally entered for the Owner was incorrect and needs to be revised, please Contact Us.  
**Confirmation of agent's authority** Download  
Upload agent's authority

Has the project owner changed? If so, please download, complete, and upload the **Change of owner agreement** to assign this project application or certification to the new owner. After you've uploaded the form, please Contact Us so that we can review and revise the Owner information accordingly.  
**Change of owner agreement** Download  
Upload change of owner agreement

Are there multiple owners for the Project? If so, please submit the **Confirmation of primary owner's authority** form to designate one owner to accept the Certification agreement and administer the application. If the completed form indicates the name originally entered for the Owner was incorrect and needs to be revised, please Contact Us.  
**Confirmation of primary owner's authority** Download  
Upload primary owner's authority

**BRIGHT GREEN STRATEGIES**

Mailing address: 1717 Seabright Ave, Suite 4, Santa Cruz, CA 95062  
820 Delaware Street, Berkeley, CA 94710  
831.454.9956 • [www.brightgreenstrategies.com](http://www.brightgreenstrategies.com)

July 28, 2022

Community Development Department, Planning Division  
701 Laurel Street  
Menlo Park, CA 94025  
Attn: Ori Paz, [oripaz@menlopark.org](mailto:oripaz@menlopark.org)

RE: 3705 Haven Avenue, Menlo Park, CA 94025 – Planning Application

Dear Ori,

I am the LEED for Homes AP for the 3705 Haven Avenue Project. My qualifications include LEED for Homes QAD, (Quality Assurance Designee) (2018), LEED for Homes AP (2011) and LEED for Homes Green Rater (2008). My company, Bright Green Strategies is a LEED for Homes Provider. As a LEED for Homes Provider, we oversee the LEED certification process. We collect and submit all final documents to the Green Building Certification Institute (GBCI) for LEED certification. We also provide quality assurance overseeing over 10 other LEED for Homes Green Raters throughout California and Canada.

Bright Green Strategies consists of seven individuals trained specifically in LEED for Homes and GreenPoint Rated certification, HERS testing and energy modeling to exceed Title-24 energy efficiency standards. I have personally certified multi-family projects from 100 units to over 400 units.

I have prepared the LEED for Homes checklist for this project and have relayed pertinent information to the project team with regards to LEED for Home prerequisites and credits. The project has been registered with the LEED Online. The project will be LEED Gold certified with LEED for Homes Midrise being the intended path for compliance. The Preliminary LEED checklist estimates 60 points, which is a Gold rating. LEED for Homes Midrise is part of the LEED BD&C family of rating systems.

Let me know if you need any further information. Please contact me at 510-863-1109, ext. 1011 or at my email: [sharon@brightgreenstrategies.com](mailto:sharon@brightgreenstrategies.com) with any questions.

Sincerely,

  
Sharon Block, Director of Sustainability  
Bright Green Strategies Inc.  
[sharon@brightgreenstrategies.com](mailto:sharon@brightgreenstrategies.com)

Attachment: LEED for Homes scorecard/checklist



LEED BD+C Multifamily Midrise v4 - LEED v4  
**3705 Haven Scorecard**  
Location: 3705 Haven Avenue, Menlo Park, CA 94025, United States

Note: The information on this tab is READ-ONLY. To edit this information, see the Credit Category site.

Category	Subcategory	Requirement	Points	Score	Weight	Target	Current	Max
Integrative Process	IPc	Integrative Process	2 of 2	1	1	2	2	2
	<b>Location and Transportation</b> Preliminary Y 12 of 15 Verified 0							
	LTP	Floodplain Avoidance	Required					Verified
<b>Performance Path</b>								
LTC	LEED for Neighborhood Development		0 of 15	0				
<b>Prescriptive Path</b>								
LTC	Site Selection		8 of 8	1				
LTC	Compact Development		3 of 3	0				
LTC	Community Resources		1 of 2	1				
LTC	Access to Transit		0 of 2	1				
Sustainable Sites	SSp	Construction Activity Pollution Prevention	Required					Not Verified
	SSp	No Invasive Plants	Required					Not Verified
	SSc	Heat Island Reduction		1 of 2	1			
	SSc	Rainwater Management		0 of 3	1			
	SSc	Nontoxic Pest Control		2 of 2	0			
Water Efficiency	WEp	Water Metering	Required					Not Verified
	<b>Performance Path</b>							
	WEc	Total Water Use		0 of 12	0			
	<b>Prescriptive Path</b>							
WEc	Indoor Water Use		6 of 6	0				
WEc	Outdoor Water Use		4 of 4	0				
Energy and Atmosphere	EAp	Minimum Energy Performance	Required					Not Verified
	EAp	Energy Metering	Required					Not Verified
	EAp	Education of the Homeowner, Tenant or Building Manager	Required					Not Verified
	EAc	Annual Energy Use		11 of 30	0			11
	EAc	Efficient Hot Water Distribution System		0 of 5	0			
	EAc	Advanced Utility Tracking		1 of 2	0			
Materials and Resources	MRp	Certified Tropical Wood	Required					Not Verified
	MRp	Durability Management	Required					Not Verified
	M Rc	Durability Management Verification		1 of 1	0			
	M Rc	Environmentally Preferable Products		3 of 5	0			
	M Rc	Construction Waste Management		2 of 3	0			

Levy Design Partners Page 1

Category	Subcategory	Requirement	Points	Score	Weight	Target	Current	Max
Indoor Environmental Quality	EQp	Ventilation	Required					Not Verified
	EQp	Combustion Venting	Required					Not Verified
	EQp	Garage Pollutant Protection	Required					Not Verified
	EQp	Radon-Resistant Construction	Required					Verified
	EQp	Air Filtration	Required					Not Verified
	EQp	Environmental Tobacco Smoke	Required					Not Verified
	EQp	Compartimentalization	Required					Not Verified
	EQc	Enhanced Ventilation		1 of 3	0			
	EQc	Contaminant Control		1 of 2	0			
	EQc	Balancing of Heating and Cooling Distribution Systems		3 of 3	0			
	EQc	Enhanced Compartimentalization		0 of 3	0			
EQc	Combustion Venting		2 of 2	0				
EQc	Enhanced Garage Pollutant Protection		1 of 1	0				
EQc	Low-Emitting Products		2 of 3	0				
EQc	No Environmental Tobacco Smoke		1 of 1	0				
Innovation	INp	Preliminary Rating	Required					Not Verified
	INc	Innovation		4 of 5	0			
	INc	LEED Accredited Professional		1 of 1	0			
Regional Priority	RPc	Regional Priority		4 of 4	0			
<b>Point Floors</b>								
The project earned at least 6 points total in Location and Transportation and Energy and Atmosphere								
The project earned at least 3 points in Water Efficiency								
The project earned at least 3 points in Indoor Environmental Quality								
<b>Total</b> Preliminary Y 65 of 110 Verified 11								
Certification Thresholds Certified: 40-49, Silver: 50-59, Gold: 60-79, Platinum: 80-110								

Levy Design Partners Page 2

**ENERGY STAR PortfolioManager**

3705 Haven  
3705 Haven Avenue, Menlo Park, CA 94025  
Portfolio Manager Property ID: 24204302  
Year Built: 2024

Current: N/A  
Baseline: N/A

Summary | Debits | Energy | Water | Waste & Materials | Goals | Design

Return to see Source EUI Trend

Metrics Summary

Metric	Not Available (Energy Star)	Not Available (Energy Current)	Change
LEED® LEED Score (1-100)	Not Available	Not Available	N/A
Energy Star Rating	Not Available	Not Available	N/A
Energy Star Score	Not Available	Not Available	N/A
Total GHG Emissions (kgCO2e)	Not Available	Not Available	N/A
Water Use (gal per person per day)	Not Available	Not Available	N/A
Total GHG Emissions (kgCO2e)	Not Available	Not Available	N/A
Total GHG Emissions (kgCO2e)	Not Available	Not Available	N/A

Date Quality Checker

Check for Prerequisite Errors

Sharing this Property

More About Shading

Follow Us

**LD P**  
ARCHITECTURE

NOTICE:  
THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY AND COPYRIGHT OF LEVY DESIGN PARTNERS, INC. (LDP ARCHITECTURE) AND SHALL NOT BE USED EXCEPT BY WRITTEN AGREEMENT WITH LEVY DESIGN PARTNERS.

3705 HAVEN AVE  
MENLO PARK, CA



3705 HAVEN AVE  
MENLO PARK, CA

PROJECT NO. 21-07  
PARCEL NO. 055170240

REV	DATE	DESCRIPTION
	04-14-2023	PLANNING & SB330 REV 2
	09-22-2023	PLANNING & SB330 REV 3
	03-20-2024	PLANNING & SB330 REV 4
	06-13-2024	PLANNING & SB330 REV 5
	07-26-2024	PLANNING & SB330 REV 6

CONTACT: TOBY LEVY

(415) 777-0561 P  
(415) 777-5117 F

SCALE:  
AS NOTED

GREEN BUILDING DOCUMENTS

G0.01C



3705 HAVEN

MENLO PARK MUNICIPAL CODE 16.45.130

BUILDING TO COMPLY WITH MENLO PARK MUNICIPAL CODE CHAPTER 16.45.130

16.45.130 Green and sustainable building.

(1) Green Building.

(A) Any new construction to comply with Tables 16.45.130(1)(B) - Building designed to meet LEED Gold BD+C. Electric Vehicle Charging Spaces to meet requirements in Section 16.72.010. See LEED submittal documents for more information.

(2) Energy.

(A) For all new construction, the project will meet one hundred percent (100%) of energy demand (electricity and natural gas) through any combination of the following measures:

(i) On-site energy generation;

(ii) Purchase of one hundred percent (100%) renewable electricity through Peninsula Clean Energy or Pacific Gas and Electric Company in an amount equal to the annual energy demand of the project;

(iii) Purchase and installation of local renewable energy generation within the city of Menlo Park in an amount equal to the annual energy demand of the project;

(iv) Purchase of certified renewable energy credits and/or certified renewable energy offsets annually in an amount equal to the annual energy demand of the project.

**Solar zone has been indicated on roof plan.**

(3) Water Use Efficiency and Recycled Water.

(A) Single pass cooling systems shall be prohibited in all new buildings.

**To be verified at the building permit stage.**

(B) All new buildings shall be built and maintained without the use of well water.

**Building will not use well water.**

(C) Applicants for a new building more than one hundred thousand (100,000) square feet or more of gross floor area shall prepare and submit a proposed water budget and accompanying calculations following the methodology approved by the city.

**Water budget has been provided.**

(D) All new buildings shall be dual plumbed for the internal use of recycled water.

**Applicant is seeking a concession/incentive per State Density Bonus Law to not be dual plumbed.**

(E) All new buildings two hundred fifty thousand (250,000) square feet or more in gross floor area shall use an alternate water source for all city approved nonpotable applications. An alternate water source may include, but is not limited to, treated nonpotable water such as graywater. An alternate water source assessment shall be submitted that describes the alternative water source and proposed nonpotable application. Approval of the alternate water source assessment, the alternative water source and its proposed uses shall be approved by the city's public works director and community development director. If the Menlo Park Municipal Water District has not designated a recycled water purveyor and/or municipal recycled water source is not available prior to planning project approval, applicants may propose conservation measures to meet the requirements of this section subject to approval of the city council. The conservation measures shall achieve a reduction in potable water use equivalent to the projected demand of city approved nonpotable applications, but in no case shall the reduction be less than thirty percent

(30%) compared to the water budget in subsection (3)(C) of this section. The conservation measures may include on-site measures, off-site measures or a combination thereof.

**N/A**

(F) Potable water shall not be used for dust control on construction projects.

**Noted.**

(G) Potable water shall not be used for decorative features, unless the water recirculates.

**No decorative features using water are proposed on this project.**

(4) Hazard mitigation and sea level rise resiliency.

(A) The first floor elevation of all new buildings shall be twenty-four (24) inches above the Federal Emergency Management Agency base flood elevation (BFE) to account for sea level rise. Where no BFE exists, the first floor (bottom of floor beams) elevation shall be twenty-four (24) inches above the existing grade. Notwithstanding the foregoing, for projects on sites of two (2) acres or less, the first floor elevation shall be the maximum height reasonably practicable as determined by the city, but in no case less than six (6) inches above BFE or existing grade where no BFE exists. The building design and protective measures shall not create adverse impacts on adjacent sites as determined by the city.

**First floor elevation complies.**

(B) Prior to building permit issuance, all new buildings shall pay any required fee or proportionate fair share for the funding of sea level rise projects, if applicable.

**Noted.**

(5) Waste Management.

(A) Applicants shall submit a zero-waste management plan to the city, which will cover how the applicant plans to minimize waste to landfill and incineration in accordance with all applicable state and local regulations. Applicants shall show in their zero-waste plan how they will reduce, recycle and compost wastes from the demolition, construction and occupancy phases of the building. For the purposes of this chapter, "zero waste" is defined as ninety percent (90%) overall diversion of nonhazardous materials from landfill and incineration, wherein discarded materials are reduced, reused, recycled, or composted. Zero-waste plan elements shall include the property owner's assessment of the types of waste to be generated during demolition, construction and occupancy, and a plan to collect, sort and transport materials to uses other than landfill and incineration.

**Zero waste management plan provided.**

(6) Bird-Friendly Design.

(A) No more than ten percent (10%) of facade surface area shall have non-bird-friendly glazing.

(B) Bird-friendly glazing includes, but is not limited to, opaque glass, covering the outside surface of clear glass with patterns, paned glass with fenestration, frit or etching patterns, and external screens over nonreflective glass. Highly reflective glass is not permitted.

(C) Occupancy sensors or other switch control devices shall be installed on nonemergency lights and shall be programmed to shut off during nonwork hours and between ten (10) p.m. and sunrise.

(D) Placement of buildings shall avoid the potential funneling of flight paths towards a building facade.

(E) Glass skyways or walkways, freestanding (see-through) glass walls and handrails, and transparent building corners shall not be allowed.

(F) Transparent glass shall not be allowed at the rooflines of buildings, including in conjunction with roof decks, patios and green roofs.

(G) Use of rodenticides shall not be allowed.

(H) A project may receive a waiver from one (1) or more of the items listed in subsections (6)(A) to (F) of this section, subject to the submittal of a site specific evaluation from a qualified biologist and review and approval by the planning commission. (Ord. 1050 § 10, 2018; Ord. 1026 § 3 (part), 2016). **Project shall comply with all items noted above per plans and elevations.**

3705 HAVEN

REACH CODES

BUILDING TO COMPLY WITH REACH CODES & MENLO PARK MUNICIPAL CODE CHAPTER 12.16

BUILDING TO BE FULLY ELECTRIC

SOLAR READY ZONE, SEE A2.09. BUILDING TO COMPLY WITH ONE OF THE SOLAR ZONE OPTIONS NOTED BELOW:

SECTION 110.10 (a) (3) high-rise multifamily buildings with ten habitable stories or fewer shall comply with the requirements of Section 110.10(b) through 110.10(d) and Table 2.

SECTION 1010.10 Table 2: Solar panel requirements for all new nonresidential and high rise residential buildings Building greater than or equal to 10,000 SF to provide min. 5-kilowatt PV systems

b) Solar Zone.

1. Minimum Solar Zone Area. The solar zone shall have a minimum total area as described below. The solar zone shall comply with access, pathway, smoke ventilation, and spacing requirements as specified in Title 24, Part 9 or other Parts of Title 24 or in any requirements adopted by a local jurisdiction. The solar zone total area shall be comprised of areas that have no dimension less than five feet and are no less than 80 square feet each for buildings with roof areas less than or equal to 10,000 square feet or no less than 160 square feet each for buildings with roof areas greater than 10,000 square feet.

B. Low-rise and High-rise Multifamily Buildings, Hotel/Motel Occupancies, and Nonresidential Buildings. The solar zone shall be located on the roof or overhang of the building or on the roof or overhang of another structure located within 250 feet of the building or on covered parking installed with the building project, and shall have a total area no less than 15 percent of the total roof area of the building excluding any skylight area. The solar zone requirement is applicable to the entire building, including mixed occupancy.

EXCEPTION 1 to Section 110.10(b)1B: High-rise Multifamily Buildings, Hotel/Motel Occupancies, and Nonresidential Buildings with a permanently installed solar electric system having a nameplate DC power rating, measured under Standard Test Conditions, of no less than one watt per square foot of roof area.

EXCEPTION 2 to Section 110.10(b)1B: High-rise multifamily buildings, hotel/motel occupancies with a permanently installed domestic solar water-heating system complying with Section 150.1(c)8Biii and an additional collector area of 40 square feet.

EXCEPTION 3 to Section 110.10(b)1B: Buildings with a designated solar zone area that is no less than 50 percent of the potential solar zone area. The potential solar zone area is the total area of any low-sloped roofs where the annual solar access is 70 percent or greater and any steep-sloped roofs oriented between 90 degrees and 300 degrees of true north where the annual solar access is 70 percent or greater. Solar access is the ratio of solar insolation including shade to the solar insolation without shade. Shading from obstructions located on the roof or any other part of the building shall not be included in the determination of annual solar access.

EXCEPTION 4 to Section 110.10(b)1B: Low-rise and high-rise multifamily buildings with all thermostats in each dwelling unit are demand response controls that comply with Section 110.12(a), and are capable of receiving and responding to Demand Response Signals prior to granting of an occupancy permit by the enforcing agency. In addition, either A or B below:

A. In each dwelling unit, comply with one of the following measures:

a. Install a dishwasher that meets or exceeds the ENERGY STAR Program requirements with either a refrigerator that meets or exceeds the ENERGY STAR Program requirements or a whole house fan driven by an electronically commutated motor; or

b. Install a home automation system that complies with Section 110.12(a) and is capable of, at a minimum, controlling the appliances and lighting of the dwelling and responding to demand response signals; or

c. Install alternative plumbing piping to permit the discharge from the clothes washer and all showers and bathtubs to be used for an irrigation system in compliance with the California Plumbing Code and any applicable local ordinances; or

d. Install a rainwater catchment system designed to comply with the California Plumbing Code and any applicable local ordinances, and that uses rainwater flowing from at least 65 percent of the available roof area.

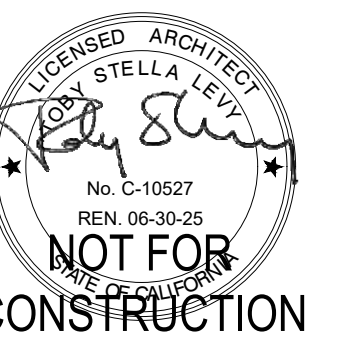
B. Meet the Title 24, Part 11, Section A4.106.8.2 requirements for electric vehicle charging spaces.

c) Interconnection Pathways.

1. The construction documents shall indicate a location reserved for inverters and metering equipment and a pathway reserved for routing of conduit from the solar zone to the point of interconnection with the electrical service.

2. For single family residences and central water-heating systems, the construction documents shall indicate a pathway for routing of plumbing from the solar zone to the water-heating system.

(b) Documentation. A copy of the construction documents or a comparable document indicating the information from Sections 110.10(b) through 110.10(c) shall be provided to the occupant.



3705 HAVEN AVE  
MENLO PARK, CA

PROJECT NO. 21-07  
PARCEL NO. 055170240

REV | DATE | DESCRIPTION

REV	DATE	DESCRIPTION
	04-14-2023	PLANNING & SB330 REV 2
	09-22-2023	PLANNING & SB330 REV 3
	03-20-2024	PLANNING & SB330 REV 4
	06-13-2024	PLANNING & SB330 REV 5
	07-26-2024	PLANNING & SB330 REV 6

CONTACT: TOBY LEVY

(415) 777-0561 P  
(415) 777-5117 F

SCALE:  
**AS NOTED**

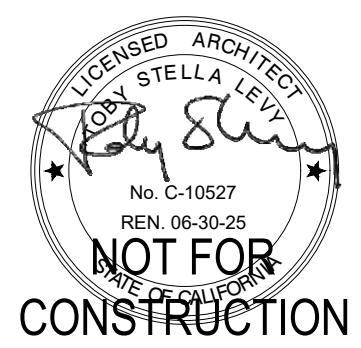
**GREEN BUILDING  
DOCUMENTS**

**G0.01D**



NOTICE:  
THESE DRAWINGS AND SPECIFICATIONS ARE  
THE PROPERTY AND COPYRIGHT OF LEVY  
DESIGN PARTNERS, INC. (LDP ARCHITECTURE)  
AND SHALL NOT BE USED EXCEPT BY WRITTEN  
AGREEMENT WITH LEVY DESIGN PARTNERS.

**3705 HAVEN AVE  
MENLO PARK, CA**



3705 HAVEN AVE  
MENLO PARK, CA

PROJECT NO. 21-07  
PARCEL NO. 055170240

REV	DATE	DESCRIPTION
	04-14-2023	PLANNING & SB330 REV 2
	09-22-2023	PLANNING & SB330 REV 3
	03-20-2024	PLANNING & SB330 REV 4
	06-13-2024	PLANNING & SB330 REV 5
	07-26-2024	PLANNING & SB330 REV 6

CONTACT: TOBY LEVY

(415) 777-0561 P  
(415) 777-5117 F

SCALE:  
**AS NOTED**

**EXISTING  
SITE CONDITIONS**

**G0.02A**



1. VIEW FROM HAVEN AVENUE (SOUTH)



2. VIEW FROM HAVEN AVENUE (SOUTH)



3. VIEW FROM HAVEN AVENUE (SOUTH), SW CORNER OF SITE



4. VIEW FROM HAVEN AVENUE (EAST)



5. VIEW FROM HAVEN AVENUE (EAST)



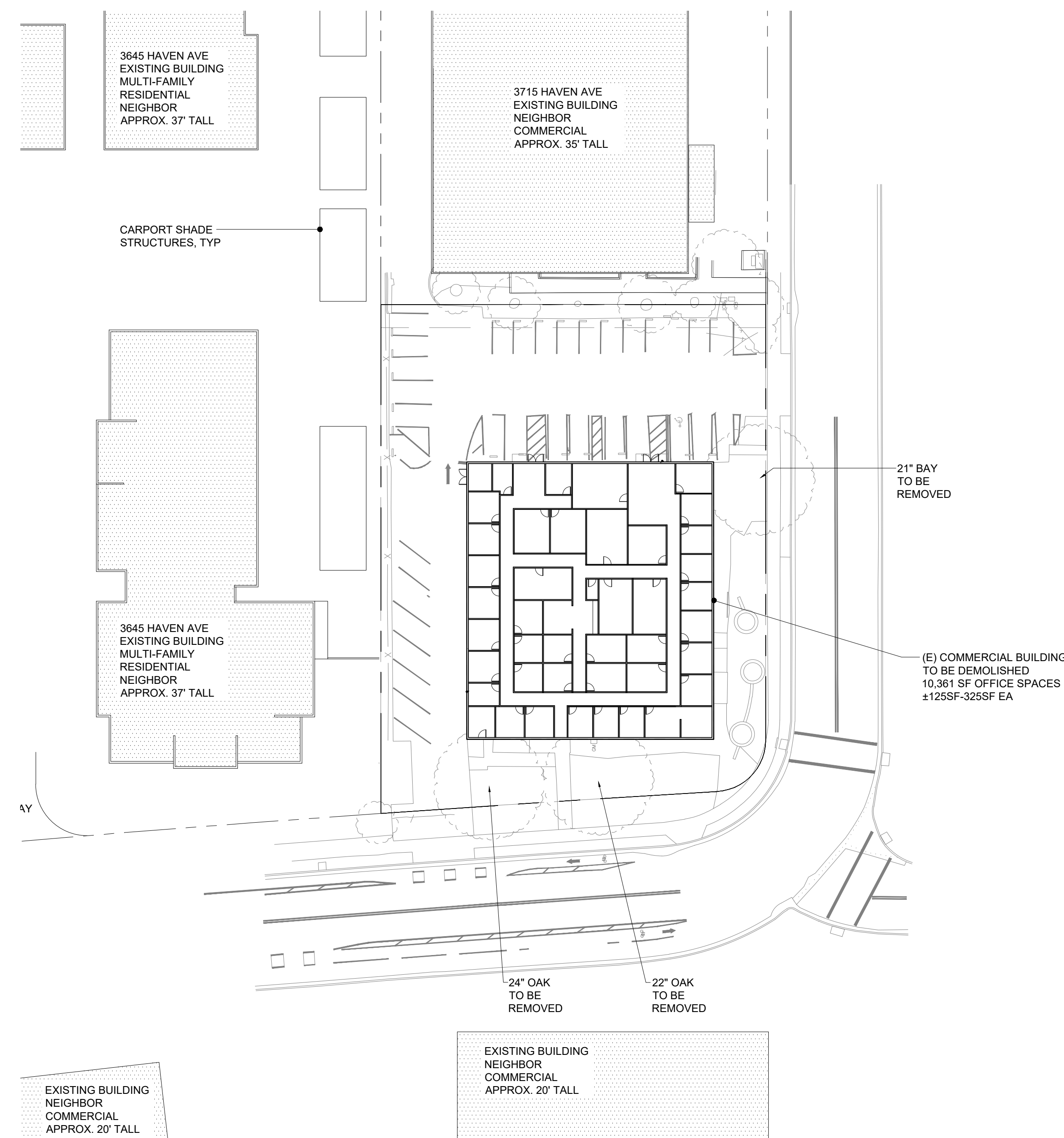
6. VIEW FROM HAVEN AVENUE (EAST), SE CORNER OF SITE



7. VIEW FROM NORTH PROPERTY LINE LOOKING SOUTH INTO SITE



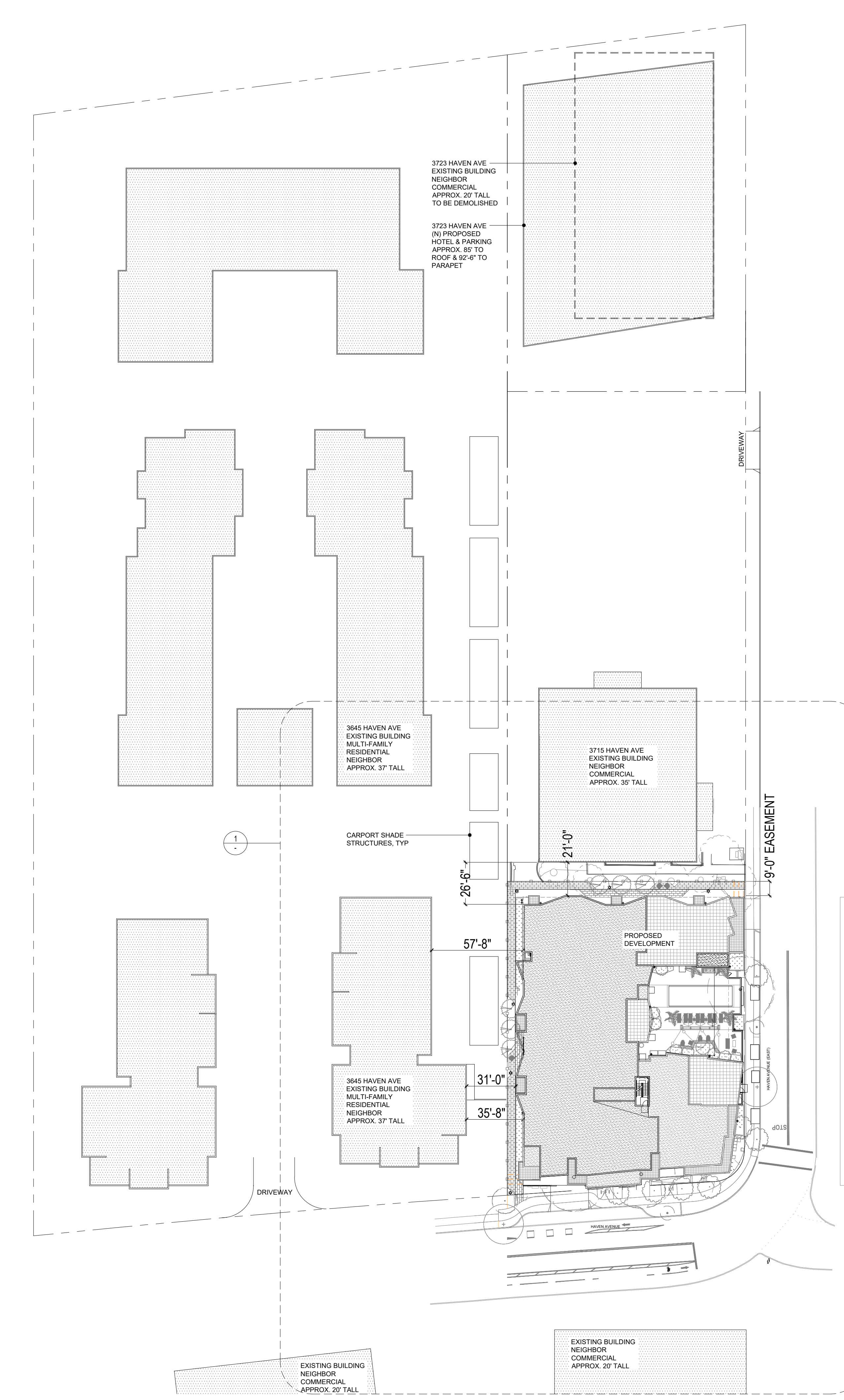
8. VIEW FROM NW PORTION LOOKING SW



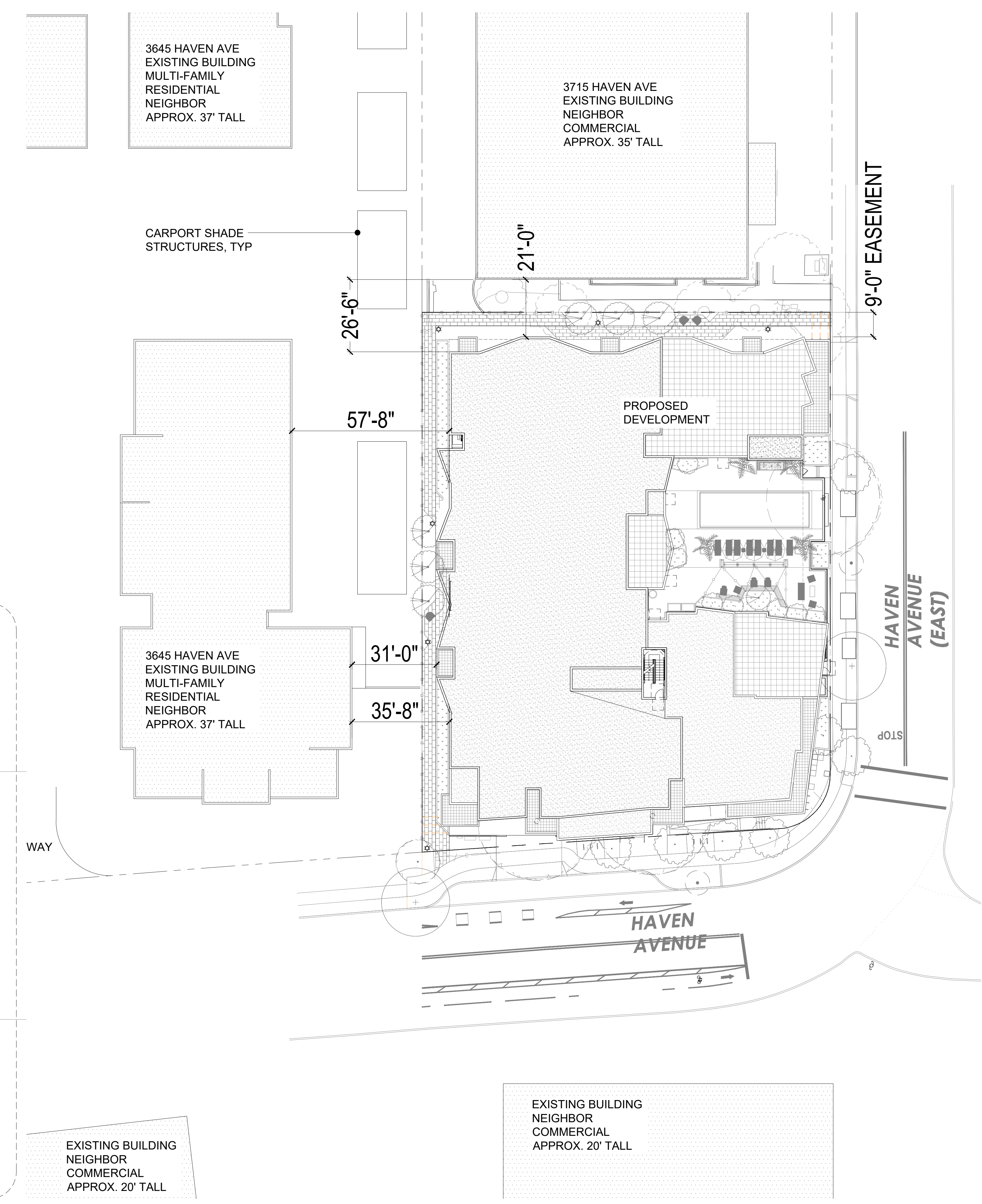
**2** EXISTING PLAN  
1/32" = 1'-0"

**1** EXISTING SITE CONDITIONS  
N.T.S.





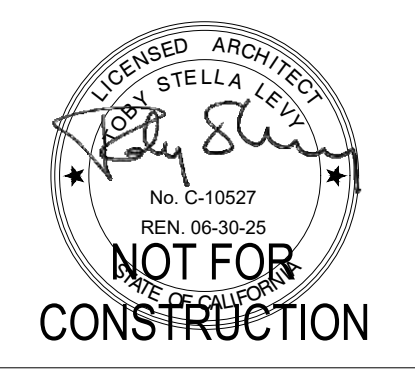
2 AREA PLAN  
1" = 40'-0"



1 AREA PLAN  
1" = 20'-0"

NOTICE: THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY AND COPYRIGHT OF LEVY DESIGN PARTNERS, INC. (LDP ARCHITECTURE) AND SHALL NOT BE USED EXCEPT BY WRITTEN AGREEMENT WITH LEVY DESIGN PARTNERS.

3705 HAVEN AVE  
MENLO PARK, CA



3705 HAVEN AVE  
MENLO PARK, CA  
PROJECT NO. 21-07  
PARCEL NO. 055170240

REV	DATE	DESCRIPTION
	04-14-2023	PLANNING & SB330 REV 2
	09-22-2023	PLANNING & SB330 REV 3
	03-20-2024	PLANNING & SB330 REV 4
	06-13-2024	PLANNING & SB330 REV 5
	07-26-2024	PLANNING & SB330 REV 6

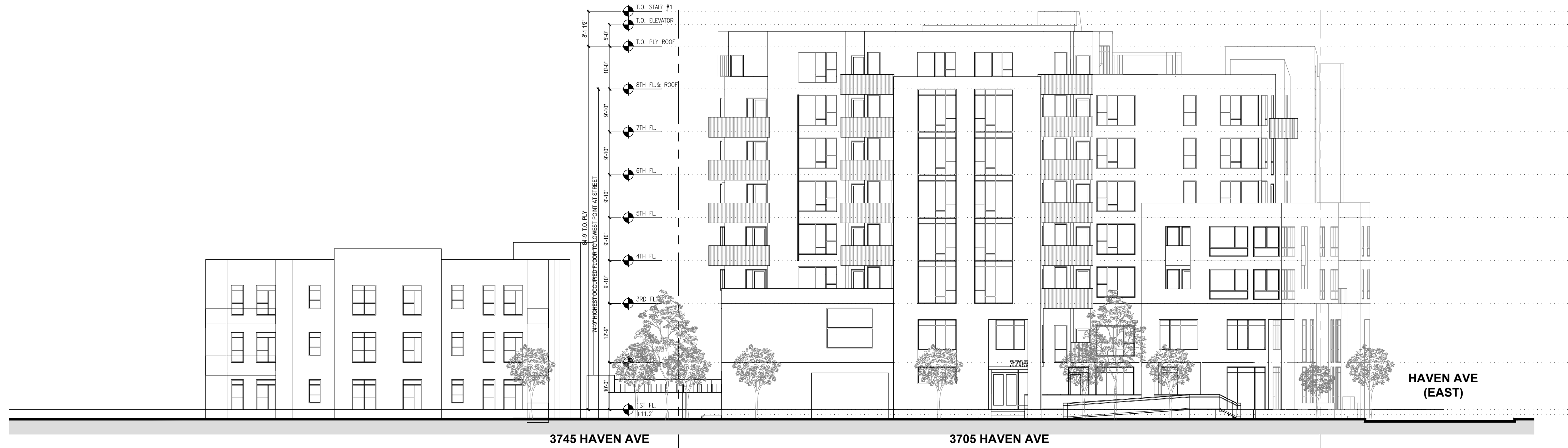
CONTACT: TOBY LEVY

(415) 777-0561 P  
(415) 777-5117 F

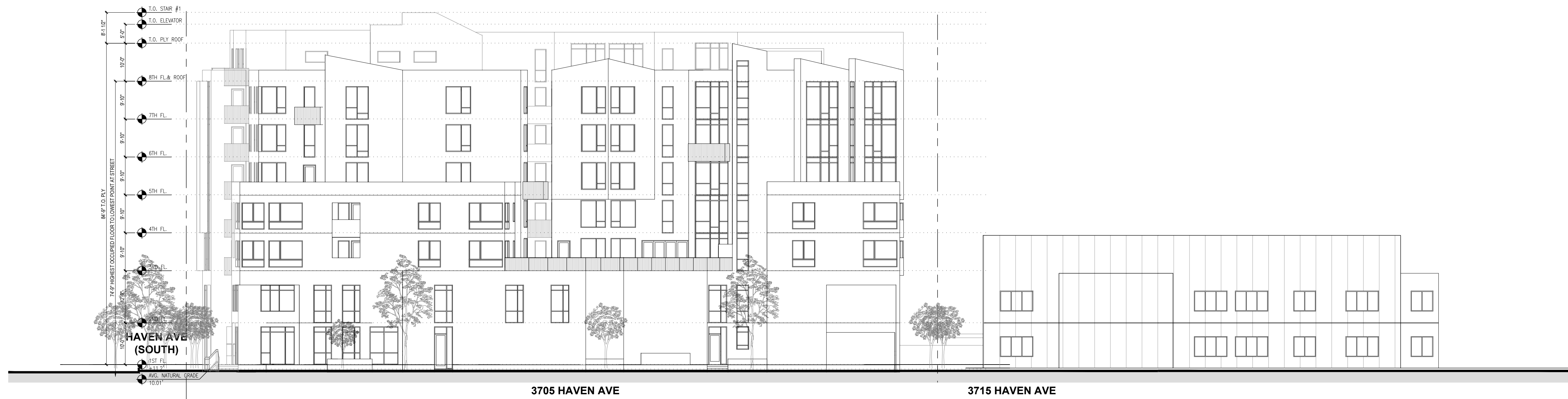
SCALE: AS NOTED

AREA PLAN



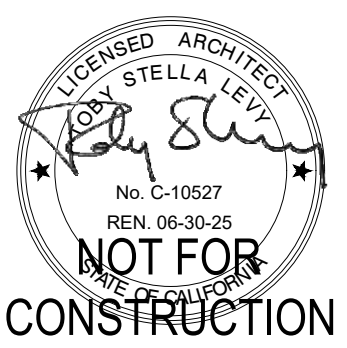


**2** STREETScape ELEVATION - HAVEN AVE - SOUTH ELEVATION  
1/16" = 1'-0"



**1** STREETScape ELEVATION - HAVEN AVE - EAST ELEVATION  
1/16" = 1'-0"

**3705 HAVEN AVE**  
**MENLO PARK, CA**



3705 HAVEN AVE  
MENLO PARK, CA

PROJECT NO. 21-07  
PARCEL NO. 055170240

REV | DATE | DESCRIPTION

04-14-2023	PLANNING & SB330 REV 2
09-22-2023	PLANNING & SB330 REV 3
03-20-2024	PLANNING & SB330 REV 4
06-13-2024	PLANNING & SB330 REV 5
07-26-2024	PLANNING & SB330 REV 6

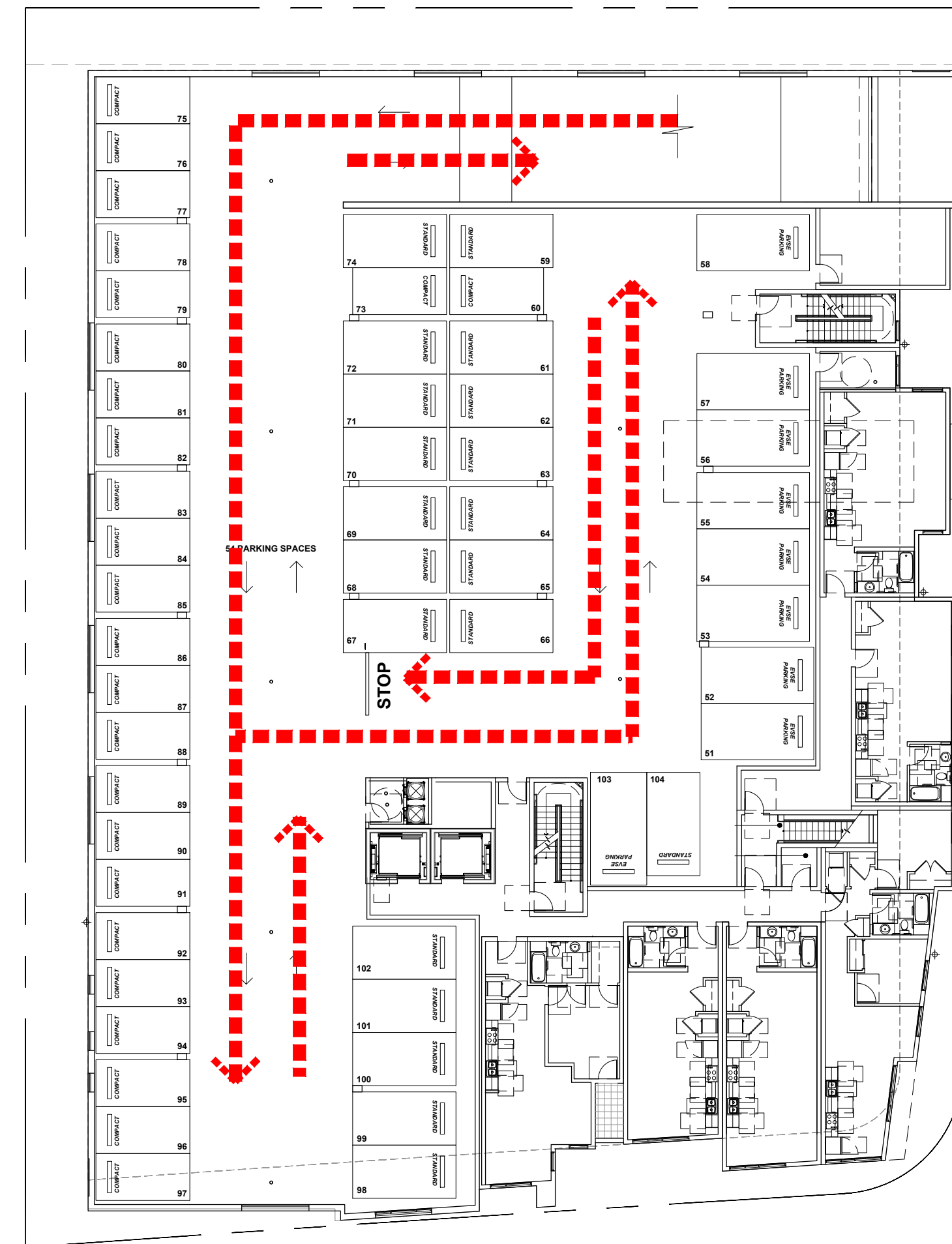
CONTACT: TOBY LEVY

(415) 777-0561 P  
(415) 777-5117 F

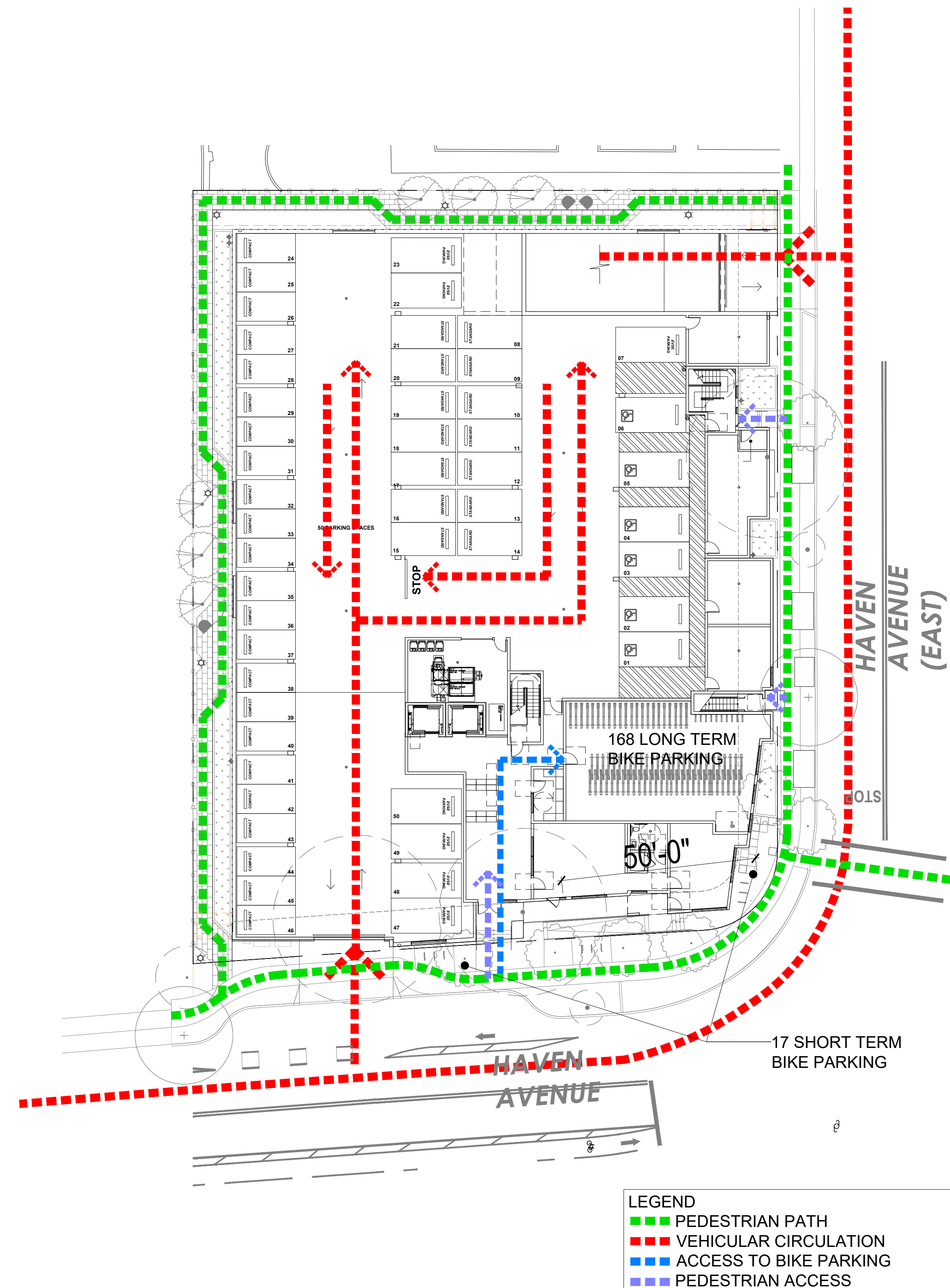
SCALE:  
AS NOTED

STREETSCAPE  
ELEVATIONS

**G0.02C**



**2** CIRCULATION PLAN : FLOOR 2  
1" = 20'-0"



**1** CIRCULATION PLAN : FLOOR 1  
1" = 20'-0"

**3705 HAVEN AVE  
MENLO PARK, CA**



3705 HAVEN AVE  
MENLO PARK, CA

PROJECT NO. 21-07  
PARCEL NO. 055170240

REV	DATE	DESCRIPTION
04-14-2023	PLANNING & SB330 REV 2	
09-22-2023	PLANNING & SB330 REV 3	
03-20-2024	PLANNING & SB330 REV 4	
06-13-2024	PLANNING & SB330 REV 5	
07-26-2024	PLANNING & SB330 REV 6	

CONTACT: TOBY LEVY

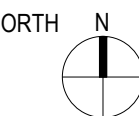
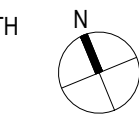
(415) 777-0561 P  
(415) 777-5117 F

SCALE:  
**AS NOTED**







**CIRCULATION  
PLAN**

**G0.02D**

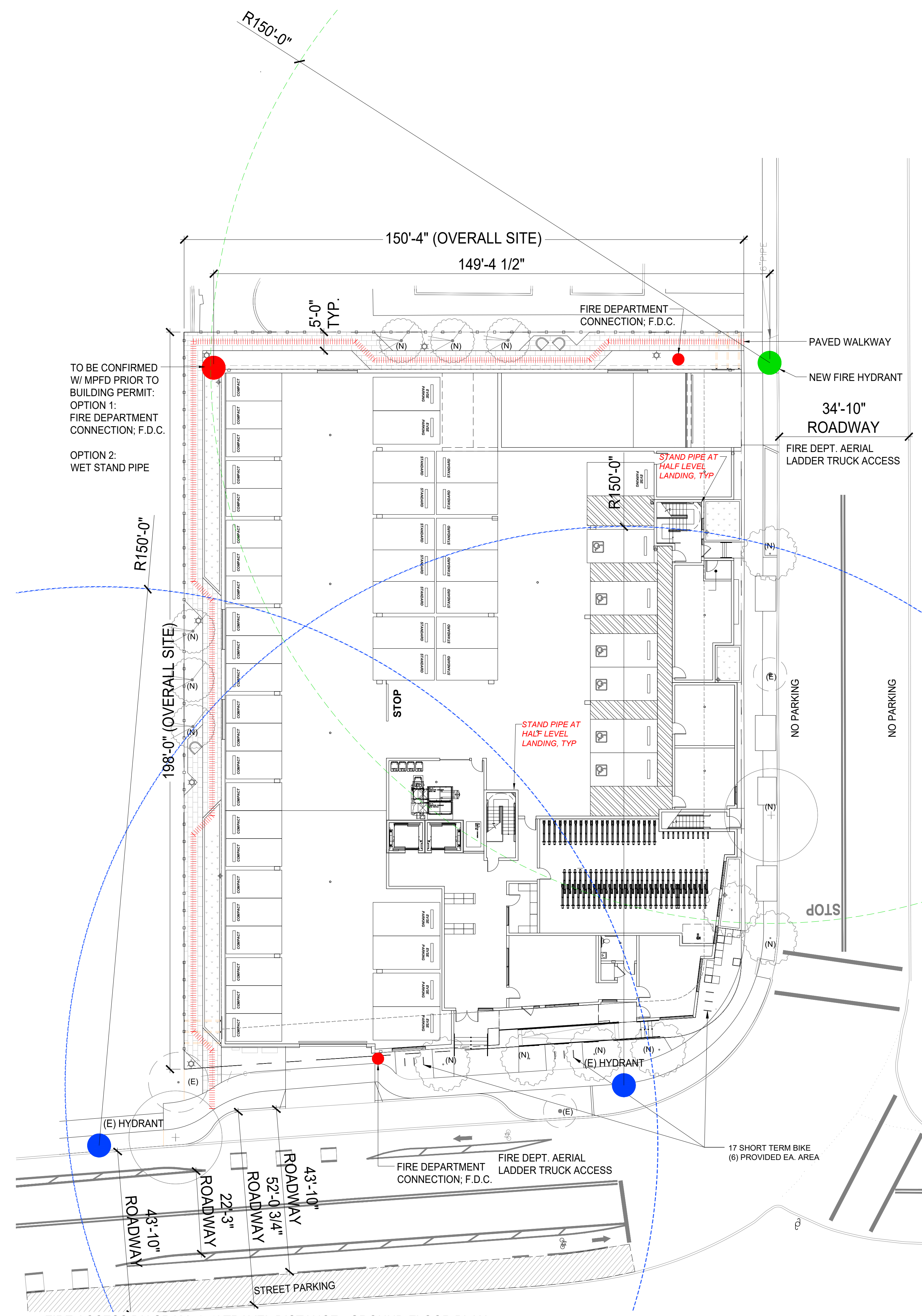


PROJECT NORTH  TRUE NORTH 

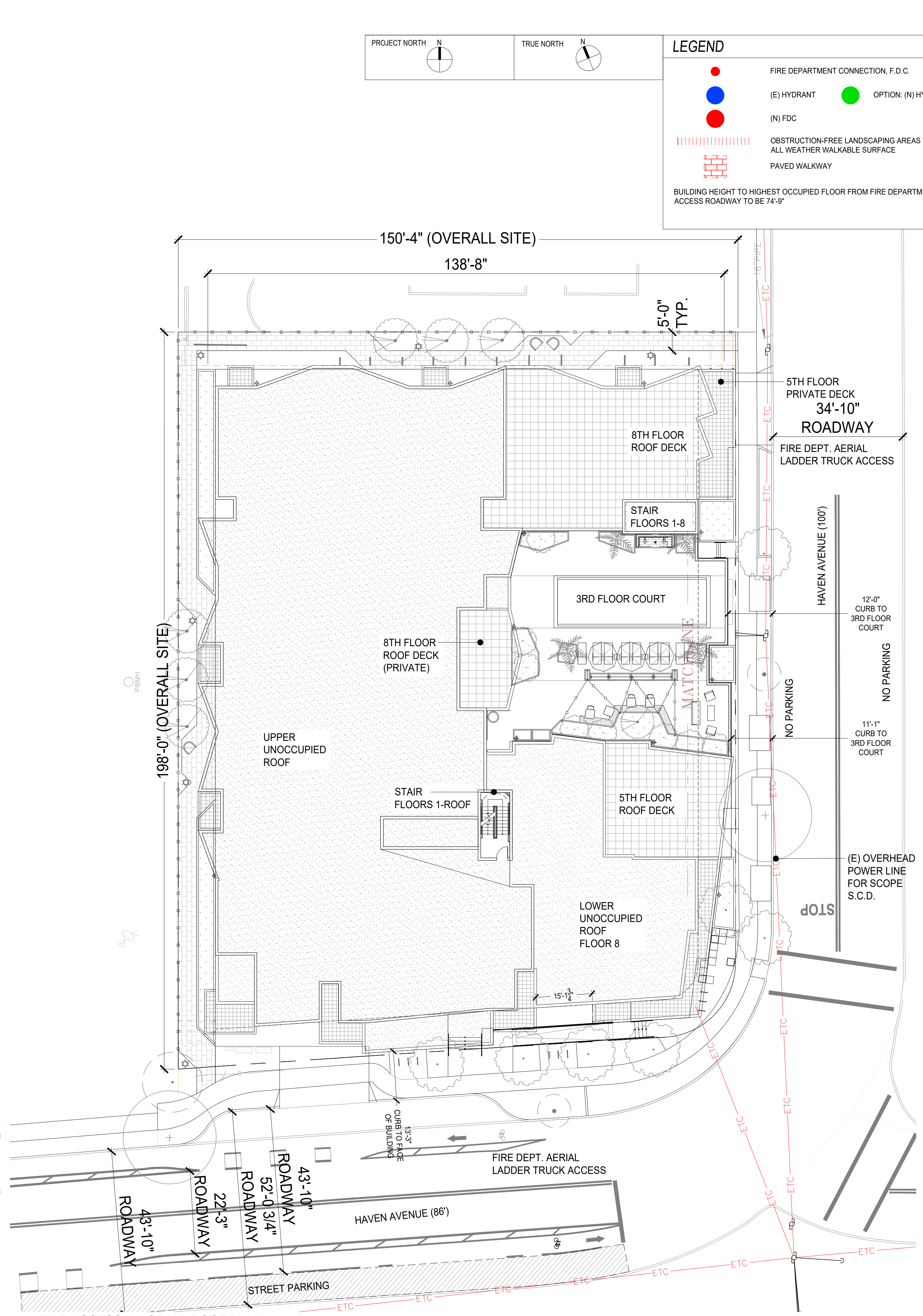
**LEGEND**

-  FIRE DEPARTMENT CONNECTION, F.D.C.
-  (E) HYDRANT
-  (N) FDC
-  OPTION: (N) HYDRANT
-  OBSTRUCTION-FREE LANDSCAPING AREAS WITH ALL WEATHER WALKABLE SURFACE
-  PAVED WALKWAY

BUILDING HEIGHT TO HIGHEST OCCUPIED FLOOR FROM FIRE DEPARTMENT ACCESS ROADWAY TO BE 74'-9"



**1** FIRE ACCESS DIAGRAM: 150' TRAVEL DISTANCE - GROUND FLOOR PLAN  
1/16" = 1'-0"



**2** FIRE ACCESS DIAGRAM: ROOF PLAN  
1/16" = 1'-0"

**3705 HAVEN AVE  
MENLO PARK, CA**



3705 HAVEN AVE  
MENLO PARK, CA  
PROJECT NO. 21-07  
PARCEL NO. 055170240

REV	DATE	DESCRIPTION
04-14-2023	PLANNING & SB330	REV 2
09-22-2023	PLANNING & SB330	REV 3
03-20-2024	PLANNING & SB330	REV 4
06-13-2024	PLANNING & SB330	REV 5
07-26-2024	PLANNING & SB330	REV 6

CONTACT: TOBY LEVY

(415) 777-0561 P  
(415) 777-5117 F

SCALE: AS NOTED

FIRE DIAGRAMS

**G0.03A**





**Menlo Park Fire Protection District  
Fire Prevention Bureau**  
170 Middlefield Road  
Menlo Park, CA 94025  
Website: [www.menlofire.org](http://www.menlofire.org)

Date: March 23, 2023

Applicant: March Capital  
Phone: (510) 506-9888

Project: New 8 level (99 unit) Apartment Building  
Address: 3705 Haven Ave  
City: Menlo Park

Accepted X W/Conditions

Scope: Planning-Site Review – Multi-Family Residential Building

Reviewed by: Stuart Blakesley, William Saxton Permit#: MPR23-0110

Planning application for proposed construction of a new Multi-Family/Commercial building. The project is to comply with the 2022 CA Building / Fire Codes and local amendments. The following planning review comments are applicable to this submittal:

**Access:**

Fire Apparatus Access is to be provided along Haven Ave & Haven Ave East, these to meet public access for covered and open parking. Aerial Ladder Access to be established along roadway fronting subject project where overhead electrical wiring shall not be located, the aerial ladder placement shall meet the prescriptive distance requirements outlined in CFC Appendix D105. The following are general access requirements that apply to subject project:

- Overhead Electrical Obstruction – Overhead Electrical Utility power lines shall not be located over the aerial fire apparatus access road or between the aerial fire apparatus road and the building.
- Fire apparatus roadways, including public and private streets and in some cases, driveways used for vehicle access, shall be capable of supporting the imposed weight of a 75,000-pound (34,050 kg) fire apparatus and shall be provided with an all-weather driving surface. Only paved or concrete surfaces are considered to be all weather driving surfaces. CFC 2022, Appendix D.
- NOTE ON FIELD PLAN: All curbing located within the complex that has not been assigned as onsite parking shall be designated as “No Parking Fire Lane”. All fire lanes to comply with MPFD standard for “Designation and Marking of Fire Lane” Provide a complete no parking-fire lane striping plan on Civil Sheet specifying the no parking along entire Haven Ave frontage with no parking signage in accordance to MPFD standard on subsequent submittal:
  - Required no parking signage installed at an approved location.
- NOTE ON FIELD PLAN: Fire apparatus roadways, including public or private streets or roads used for vehicle access shall be installed and in service prior to construction. Fire protection water serving all hydrants shall be provided as soon as combustible material arrives on the site:

- PRIOR TO COMBUSTIBLE MATERIAL ARRIVING ON THE SITE, CONTACT THE MENLO PARK FIRE PROTECTION DISTRICT TO SCHEDULE AN INSPECTION OF ROADWAYS AND FIRE HYDRANTS. CFC 2022.
- For buildings 30 feet (9144 mm) and over in height (plan illustrates building height at 74’9” above natural grade, the required fire apparatus access roadway shall be a minimum of 26 feet (7925 mm) in width, and shall be positioned parallel to at least one entire side of the building, and the fire lane shall be located within a minimum of 15feet (4572 mm) and a maximum of 30 feet (9144 mm) from the building. CFC 2022, Appendix D105:
  - Provided plan illustrates Haven Ave as the aerial ladder access roadway which meets necessary requirements listed above for aerial ladder access to upper floors, however the 8<sup>th</sup> level which is located to rear of project adjacent to two neighboring properties where aerial ladder access cannot be provided from Haven Ave or Haven Ave East and there is no private access road illustrated on plans, due to this issue there may be additional requirements that would include increasing stairwells to meet high-rise standard for a pressurized stairwell. This specific issue will be addressed at building permit review, as per the discretion of the Fire Marshal.
- Traffic Opticom Signal Preemption System required for all traffic intersections controlled with a traffic signal. An encroachment permit shall accompany these installations.

**Water Supply:**

- Applicant to provide fire flow information through a separate engineering modeling report with plan sheets showing how this is to be achieved. This document shall be submitted to Menlo Park Fire Protection District for review and approval prior to issuance of grading and building permits. CFC 2022, Sec. 507.5.1 Appendix B Section 105.2 & Table 105.1:
  - The established fire flow for this project is as follows:
    - Type IA Construction, levels 1-3, 3 level enclosed parking at 68,369 sq ft  
Type IA Construction, 4,000 gpm @ 4 hours based on 144,601 sq ft  
4,000 gpm @ 47.2% = 1,888 gpm @ 2 hours
    - Type IIIA Construction, levels 4-8, 5 level apartment at 76,232 sq ft  
Type IIIA Construction, 5,500 gpm @ 4 hours based on 144,601 sq ft  
5,500 gpm @ 52.7% = 2,898.5 gpm @ 3 hours
 Total Fire Flow: 1,888 gpm + 2,989.5 = 4,786.5 gpm @ 4-hour flow duration.  
MPFD permits a 50% reduction = **2,393.25 gpm @ 2 hours flow duration.**
  - The Fire Flow Modeling Report shall verify the existing fire mains pipe size so illustrated on the Civil Utility Sheet C-4.0, any difference from the approved fire flow modeling report shall require changes to the Utility Sheet.
- The Public hydrants illustrated on C-4.0 meet MPFD and CFC for location and spacing. All new and existing public fire hydrants to comply to the following:
  - All fire hydrants shall be wet barrel standard steamer type with 1-4 1/2” (114.3 mm) and 2-2 1/2” (63.5 mm) outlets. MPFPD CFC Sec. 507.5.1 Appendix C
- Fire hydrants and fire appliances (fire department connections and post indicator valves) shall be clearly accessible and free from obstruction.

**Deferred Submittal's shall include the following: (Note on Plans)**

- Fire Suppression System, NFPA 13 (2022 edition).
- Class I Standpipe System, NFPA 14 (2019 edition).
- Fire Pump, NFPA 20 (2019 edition). (if applicable)
- Water Tank(s), NFPA 22 (2018 edition). (if applicable)
- Private Underground Fire Service Main, NFPA 24 (2019 edition).

- One-hour fire rated walls are provided to separate the car stacker areas from any other areas in the garage.
- One-hour fired rated walls are not required in the driveway areas. For the hydraulic calculation, flow from all sprinklers, upright or pendant sprinklers at ceiling and all sidewall sprinklers at all levels, located in the area of application shall be included in the calculation.
- For low-rise building, if the city main cannot provide the required flow at 20 psi, a primary water supply tank and fire pump must be provided. The capacity of the tank shall meet the above requirements and the requirements of NFPA 13 and 14.
- An approved (manual and automatic) fire alarm system is required. A minimum of two sets of plans, specifications and other information pertinent to the system must be submitted to the Menlo Park Fire Protection District for review and approval prior to installation. A separate plan review fee will be collected upon review of these plans:
  - Fire alarm systems shall be U.L. Certificated, Certificate of Completion and other documentation listed the National Fire Alarm Code shall be provided for all new fire alarm system installations.
- A wet chemical extinguisher shall be provided for protection of all commercial cooking equipment and the Type I Hood Exhaust System in conjunction with UL 300 (wet) pre-engineered systems and shall be installed within 30 feet (9,144 mm) of commercial food heat-processing equipment, as measured along an unobstructed path of travel:
  - Automatic fire extinguishing systems protecting commercial cooking equipment shall be interconnected to the fuel and electrical supply for the cooking operation, and arranged to automatically shut off all gas and electric equipment under the hood when the system is actuated. Shutoff valves or switches shall be of a type that require manual operation to reset. Automatic fire extinguishing systems shall be connected to the fire alarm system and zoned accordingly. Deep Fat Fryer require a Type K Extinguisher.
- Approved numbers or addresses shall be placed on all new and existing buildings in such a position as to be plainly visible and legible from the street or road fronting the property. Said numbers shall contrast with their background. Individual suite numbers shall be permanently posted on the main entrance doors of tenant spaces. If rear outside doors to tenant spaces are installed, they shall include the installation of numerical address numbers corresponding to front addressing. Numbers on new occupancies shall comply with the following:
  - Structures over 50 feet (15240 mm) high shall have addresses with a min. 2.5 inch (63.5 mm) stroke wide by min. 12 inches (304.8 mm) high.
- CFC Section 511, Firefighter Air Systems. When required by the fire code official, a firefighter air system shall be installed in new buildings four or more stories in height and in existing buildings greater than 75 feet in height, not later than December 31, 2005, and any underground structures that are two or more floors below grade. Installation shall be in accordance with this ordinance and Menlo Park Fire Protection District Standard, “Firefighter Air Systems,” see Chapter 80.  
**Exception:** R-3 Occupancies.
- CFC Section 510, Emergency Responder Radio Coverage. When required by the fire code official, all new buildings shall have approved radio coverage for emergency responders within the building based upon the existing coverage levels of the public safety communication systems within MPFD at the exterior of the building. This section shall not require improvements of the existing public safety communication systems.  
**Exceptions:**
  - Where it is determined by the fire code official that the radio coverage system is not needed. MPFD requires a construction permit for the installation or modification to emergency responder radio coverage system as provisioned in CFC Section 105.7.5. A separate plan review fee will be collected

- Fire Alarm System, NFPA 72 (2022 edition).
- Generator - Stationary, CFC Section 1203 (2022 edition).
- PV Systems, CFC Section 1204 (2022 edition).
- Emergency Responder Radio Coverage, CFC Section 510 (2022 edition).

**Commercial Building:**

- For single story buildings or structures with an interior height of up to 18 feet as measured from the finished floor to the underside of ceiling, the minimum sprinkler design shall be 0.18 gpm over the most remote 3,000 sq. ft. area plus 500 gpm hose stream included at the base of the riser. For buildings or structures with an interior height of over 18 feet from finished floor to the underside of the ceiling, the minimum sprinkler design shall be 0.33 gpm over the most remote 3,000 sq. ft. area plus 500 gpm for hose streams included at the base of the riser. With written approval from the fire code official, schools, churches and similar occupancies which have few hazards and are unlikely to change may use lesser sprinkler design densities allowed by NFPA 13 and Chapter 9 of the Fire Code.
- An approved Combination Fire Sprinkler/Class I Standpipe System shall be installed throughout this structure. Systems in new office buildings shall include a safety factor in the piping system, and plugged branch line piping allowing for future modifications. In new office buildings shell the sprinkler system shall be designed to .18 gpm/ 3,000 square foot of coverage area. In new garage area the automatic fire sprinkler system shall be designed to .20 gpm/ 2,000 square feet of coverage area. In multi-family buildings the sprinkler system shall be designed to .15gpm/1500 square feet of coverage area. Fire sprinkler system to comply with NFPA 13 2022 edition and Menlo Park Fire Protection District Standards. A separate plan review fee will be collected upon review of these plans:
  - Each floor level shall have a dedicated sprinkler riser assembly installed enabling fire department personnel direct access. The buildings 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup>, 4<sup>th</sup>, 5<sup>th</sup>, 6<sup>th</sup>, 7<sup>th</sup>, & 8<sup>th</sup> floors sprinkler riser assembly to be located in all stairwell providing access to the roof. A 2-1/2” Standpipe Outlet required in each stairwell on the main landing, therefore, relocate Standpipe outlets from the intermediate landing to the main landing.
  - The Standpipe Outlet shall be located on main floor landing and shall reach all portions of the floor served at a 150-foot distance from the Outlet.
  - Each floor level shall have a dedicated sprinkler riser assembly installed enabling fire department personnel direct access.
  - Roof access shall have two standpipe outlets, and most remote standpipe shall be calculated at 500gpm, and additional 250gpm added to outlet below totaling 750gpm. Include in fire flow calculation.
- (if applicable) To establish requirements for sprinkler protection of vehicle car stackers not specifically addressed in NFPA 13. The following shall apply:
  - Parking garage areas containing car stackers shall be protected by an automatic wet-pipe sprinkler system designed to Extra Hazard Group 1. In addition, non-extended coverage standard sidewall sprinklers listed for Ordinary Hazard shall be provided under each parking level, including the bottom level if the stacker is provided with a pit. Each sidewall sprinkler shall cover an area of 80 sq. ft. or less.
  - The area of application may be reduced from the required 2500 sq. ft. to as low as 1500 sq. ft. if:
    - 1-hour fire rated walls are provided to separate the car stacker areas from the standard parking stalls,
    - The car stacker areas are divided up into 1500 sq. ft. areas via 1-hour fire rated walls, and

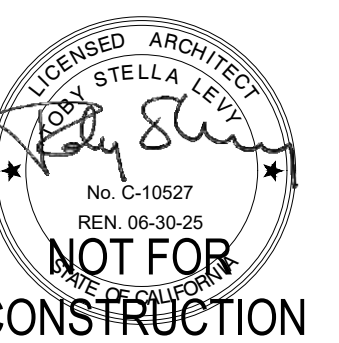
- upon review of these plans.
- Elevators shall conform to the provisions of listed in Section 607 of the CBC 2022. At least one elevator shall be of a size that will accommodate one gurney (max 24 inches by 84 inches [610 mm by 2134 mm]) and three attendants.
- A minimum 2A 10BC rated fire extinguisher shall be located at or near exits and shall be placed so that the travel distance to a fire extinguisher shall not to exceed 75 feet. Verify with Fire Inspector at time of rough inspection to assist with placement of extinguisher(s).
- Exit signs, emergency lighting, address posting, fire lane, marking, fire extinguishers and Knox Box location to be field verified by Fire Inspector.
- Means of egress components to include exit pathway throughout use, exit stairwells, exit enclosure providing access to exit doors, door hardware, exit signs, exit illumination and emergency lighting shall comply to CFC/CBC Chapter Ten.
- The single man door providing direct access to the Sprinkler Riser Assembly (for each building) shall require signage on the door accessing riser stating- “Riser Room” or agreed upon language.
- Approved plans and approval letter must be on site at the time of inspection.
- Final acceptance of this project is subject to field inspection.

Nothing in this review is intended to authorize or approve any aspects of the design or installation which do not strictly comply with all applicable codes and standards. Menlo Park Fire Protection District is not responsible for inadvertent errors or omissions pertaining to his review and/or subsequent field inspection(s) i.e., additional comments may be added during subsequent drawing review or field inspection. Please call with any questions.



NOTICE:  
THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY AND COPYRIGHT OF LEVY DESIGN PARTNERS, INC. (LDP ARCHITECTURE) AND SHALL NOT BE USED EXCEPT BY WRITTEN AGREEMENT WITH LEVY DESIGN PARTNERS.

3705 HAVEN AVE  
MENLO PARK, CA



3705 HAVEN AVE  
MENLO PARK, CA

PROJECT NO. 21-07  
PARCEL NO. 055170240

REV	DATE	DESCRIPTION
	04-14-2023	PLANNING & SB330 REV 2
	09-22-2023	PLANNING & SB330 REV 3
	03-20-2024	PLANNING & SB330 REV 4
	06-13-2024	PLANNING & SB330 REV 5
	07-26-2024	PLANNING & SB330 REV 6

CONTACT: TOBY LEVY

(415) 777-0561 P  
(415) 777-5117 F

SCALE:  
AS NOTED

FIRE  
CONDITIONS  
OF APPROVAL

G0.03B



NOTICE:  
THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY AND COPYRIGHT OF LEVY DESIGN PARTNERS, INC. (LDP ARCHITECTURE) AND SHALL NOT BE USED EXCEPT BY WRITTEN AGREEMENT WITH LEVY DESIGN PARTNERS.

3705 Haven Avenue, Menlo Park  
Building Area Calculations  
2019 CBC 506.2.3 Single-Occupancy, Multistory Buildings

3705 Haven Ave (Type I-A) BLDG 01	
Allowed Area per 2019 CBC	
Unlimited area per floor (CBC T506.2)	
Proposed Area GSF	
1st Floor	24,619 SF
2nd Floor	23,835 SF
3rd Floor	21,122 SF
<b>Total Bldg. Area</b>	<b>69,576 SF</b>

3705 Haven Ave (Type IIIA) BLDG 02	
Allowed Area per 2019 CBC	
Frontage Increase	
Width (W)	30
Perimeter (P)	0
Street Frontage/Open Space (F)	0
$If = [F/P - 0.25]W/30$	0.000

Building Area Modification	
Area (At), SM w/o height (T506.2)	24,000 SF
NS (T506.2)	24,000 SF
Sprinkler Increase (Sa)	2

$Aa = [At + (NS \times If)] \times Sa$  **48,000 SF**

Aa with Sa = 1 per 506.2.3; No indiv. Story shall exceed this value **24,000 SF**

Proposed Area GSF	
1st Floor	SEE BLDG 01
2nd Floor	SEE BLDG 01
3rd Floor	SEE BLDG 01
4th Floor	10,509 SF
5th Floor	10,264 SF
6th Floor	10,219 SF
7th Floor	10,119 SF
8th Floor	7,374 SF
<b>Total Bldg. Area</b>	<b>48,487 SF</b>

Building Area < Aa **NO**

3705 Haven Ave (Type IIIA) BLDG 03	
Allowed Area per 2019 CBC	
Frontage Increase	
Width (W)	30
Perimeter (P)	0
Street Frontage/Open Space (F)	0
$If = [F/P - 0.25]W/30$	0.000

Building Area Modification	
Area (At), SM w/o height (T506.2)	24,000 SF
NS (T506.2)	24,000 SF
Sprinkler Increase (Sa)	2

$Aa = [At + (NS \times If)] \times Sa$  **48,000 SF**

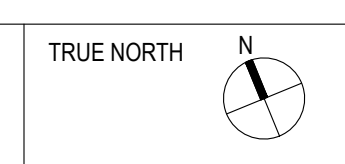
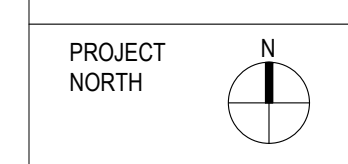
Aa with Sa = 1 per 506.2.3; No indiv. Story shall exceed this value **24,000 SF**

Proposed Area GSF	
1st Floor	SEE BLDG 01
2nd Floor	SEE BLDG 01
3rd Floor	SEE BLDG 01
4th Floor	10,517 SF
5th Floor	9,266 SF
6th Floor	9,266 SF
7th Floor	9,124 SF
8th Floor	5,898 SF
<b>Total Bldg. Area</b>	<b>44,071 SF</b>

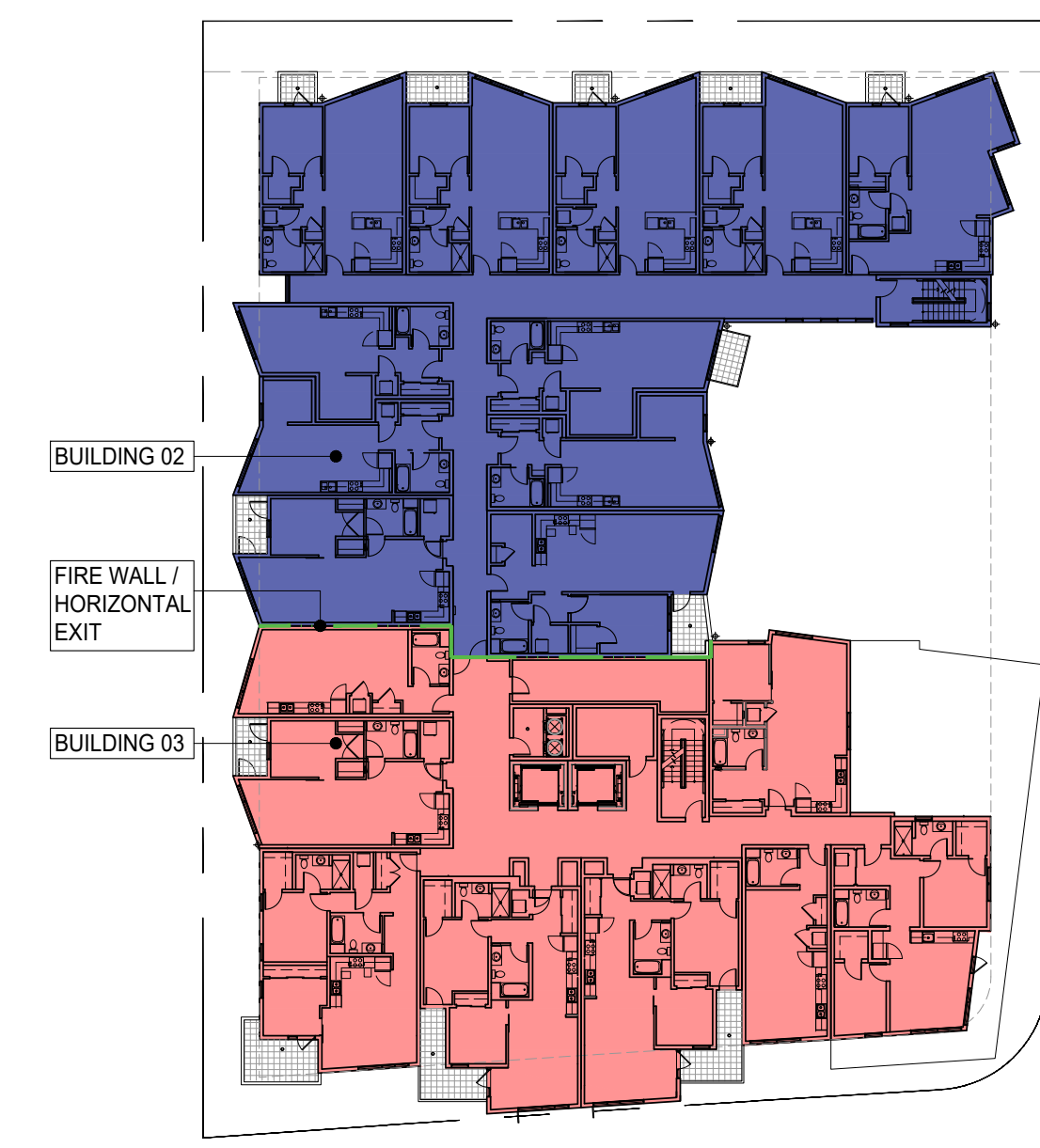
Building Area < Aa **YES**

**LEGEND**

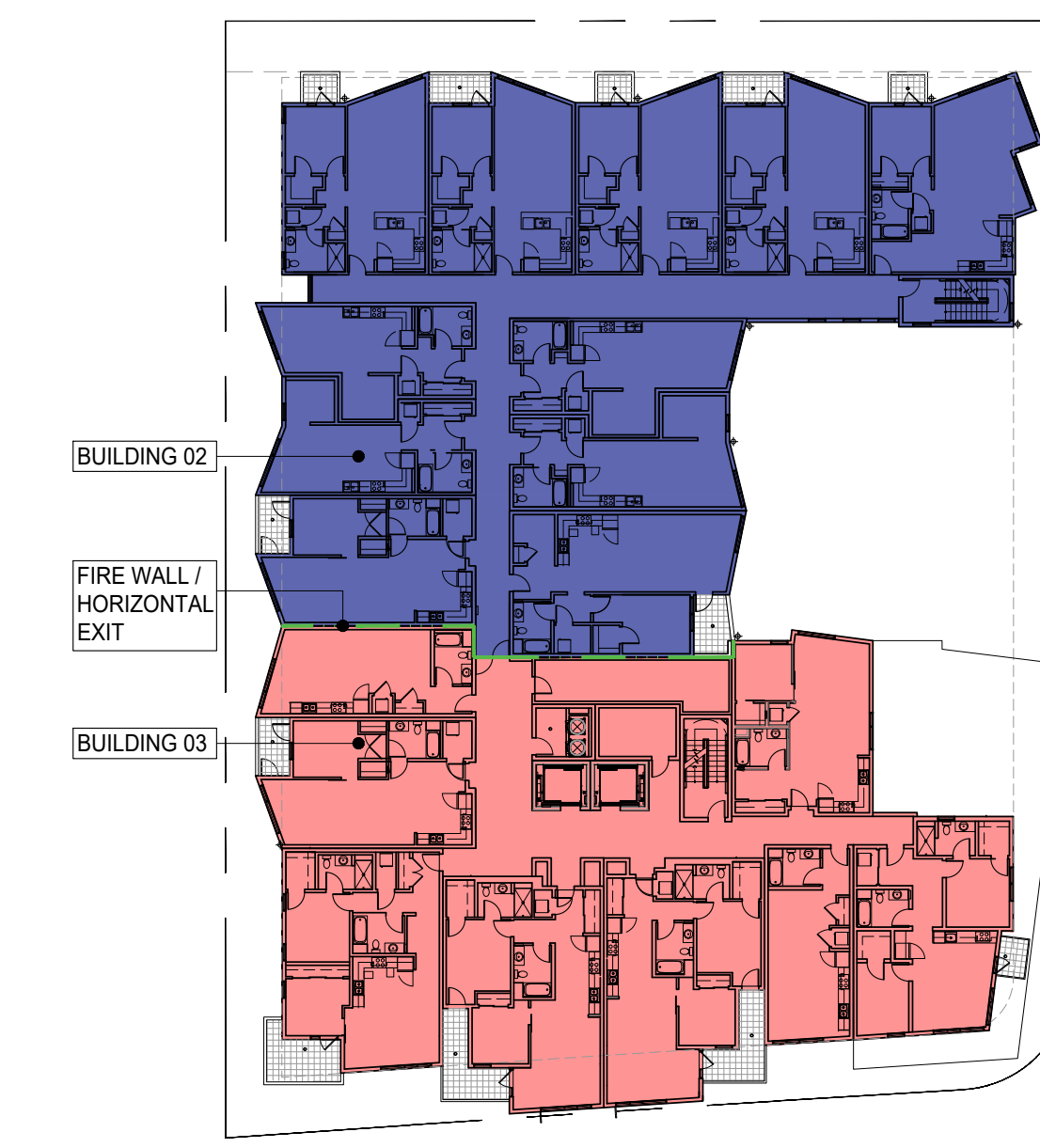
- BUILDING 01 (TYPE I-A)
- BUILDING 02 (TYPE III-A)
- BUILDING 03 (TYPE III-A)



**5** BUILDING AREA: FIFTH FLOOR  
1/32" = 1'-0"



**6** BUILDING AREA: SIXTH FLOOR  
1/32" = 1'-0"



**7** BUILDING AREA: SEVENTH FLOOR  
1/32" = 1'-0"



**8** BUILDING AREA: ROOF  
1/32" = 1'-0"



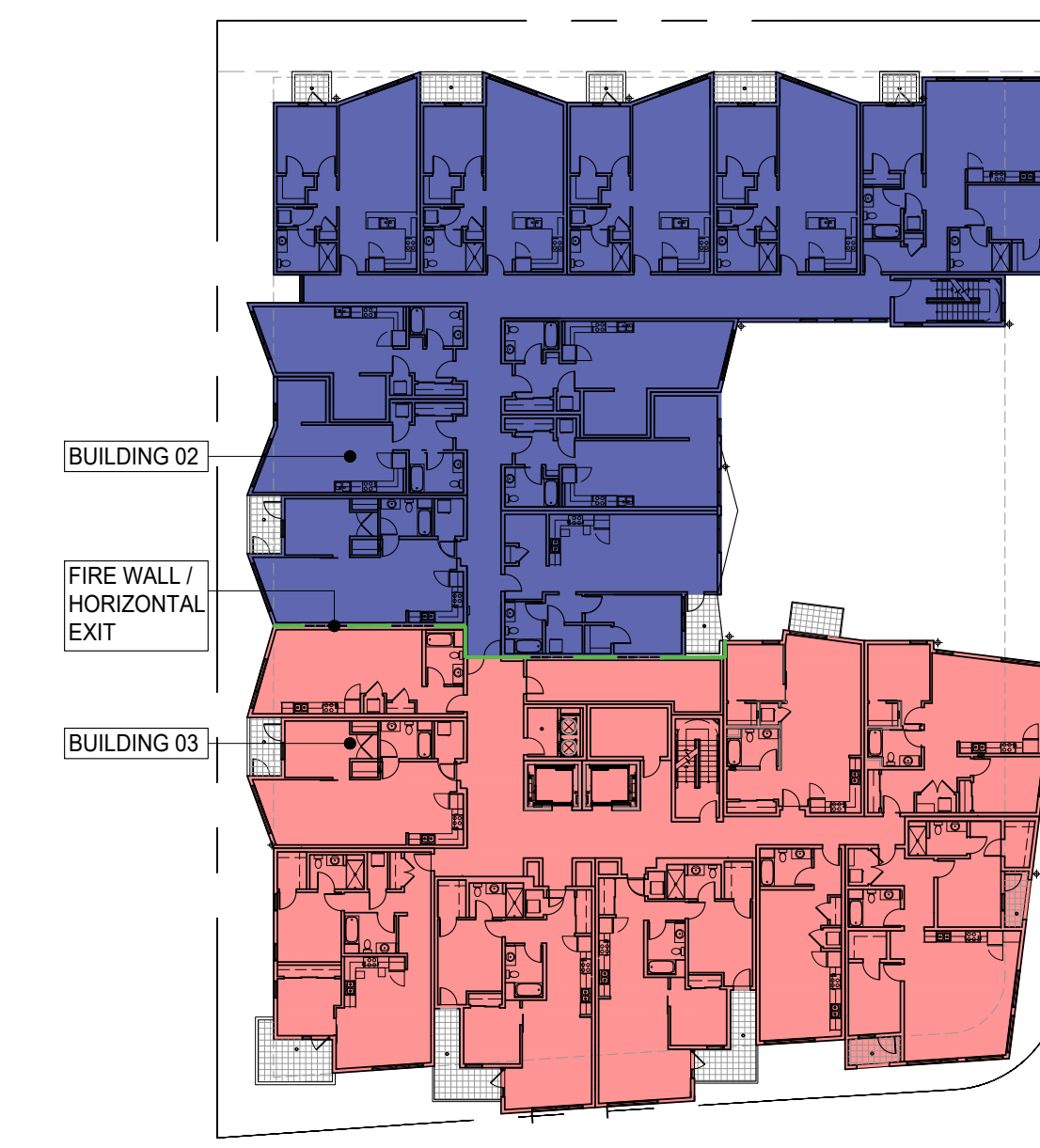
**1** BUILDING AREA: GROUND FLOOR  
1/32" = 1'-0"



**2** BUILDING AREA: SECOND FLOOR  
1/32" = 1'-0"



**3** BUILDING AREA: THIRD FLOOR  
1/32" = 1'-0"



**4** BUILDING AREA: FOURTH FLOOR  
1/32" = 1'-0"

3-HOUR HORIZONTAL SEPARATION BETWEEN FLOORS 3 & 4

**3705 HAVEN AVE  
MENLO PARK, CA**



3705 HAVEN AVE  
MENLO PARK, CA  
PROJECT NO. 21-07  
PARCEL NO. 055170240

REV	DATE	DESCRIPTION
	04-14-2023	PLANNING & SB330 REV 2
	09-22-2023	PLANNING & SB330 REV 3
	03-20-2024	PLANNING & SB330 REV 4
	06-13-2024	PLANNING & SB330 REV 5
	07-26-2024	PLANNING & SB330 REV 6

CONTACT: TOBY LEVY

(415) 777-0561 P  
(415) 777-5117 F

SCALE: AS NOTED

**BUILDING AREA  
CALCULATIONS**

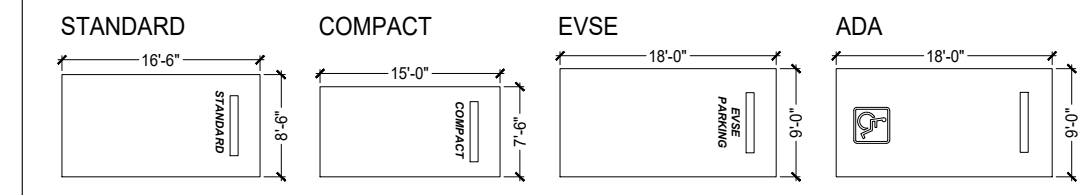
**G0.05A**



	REQUIRED	PROPOSED
<b>BICYCLE PARKING</b>	<b>RESIDENTIAL:</b> 168 SPACES (1.5 LONG TERM/ UNIT) 17 SPACES (10% ADDITIONAL SHORT-TERM FOR GUESTS, MUST BE WITHIN 50' OF LOBBY)	168 SPACES LONG TERM SPACES LOCATED AT THE GROUND FLOOR 17 SPACES SHORT-TERM FOR GUESTS LOCATED AT GROUND FLOOR WITHIN 50' OF THE LOBBY
<b>VEHICLE PARKING - RESIDENTIAL UNITS</b>	1 SPACE/UNIT - 1.5 SPACES / UNIT MAX. (112-168 MAX.)	104 UNASSIGNED PARKING SPACES (5% ADA REQUIRED)* 6 ACCESSIBLE PARKING SPACES (INCLUDES 1 VAN PARKING SPACE) PARKING OCCURS AT FLOORS 1 & 2, 34 STANDARD SIZE SPACES AND 48 COMPACT SIZE SPACES UNLESS OTHERWISE NOTED.
<b>ELECTRIC VEHICLE PARKING</b>	PER 4.106.4.2.1., 15% SHALL BE EVCS / EVSE EQUIPPED WITH ELECTRIC VEHICLE SUPPLY EQUIPMENT WITH MINIMUM OF LEVEL 2 EV READY.  15% OF 104 = 16 SPACES ELECTRIC VEHICLE SUPPLY EQUIPMENT (WHICH INCLUDES 1 EVSE SPACE WITH 8' AISLE)	16 EVSE (ELECTRIC VEHICLE SUPPLY EQUIPMENT, INCLUDES 1 EVSE SPACE WITH 8' WIDE LOADING AISLE)  ALL REMAINING PARKING SPACES SHALL HAVE A LOW POWER LEVEL 2 EV READY SPACE PER 4.106.4.2.1

\*See requested density bonus and waivers pursuant to State Density Bonus Law (Gov. Code § 65915)

**LEGEND**



	REQUIRED	PROPOSED
<b>OPEN SPACE</b>	25% OF SITE: 7,202 SF 25% OPEN SPACE PUBLICLY ACCESSIBLE: 1,801 SF 100 SF / UNIT COMMON OPEN SPACE - OR - 80 SF / UNIT PRIVATE OPEN SPACE PRIVATE OPEN SPACE: MIN. DIMENSION 6' X 6'	PROJECT IS COMPLIANT & MEETS 25% OF REQ'D OPEN SPACE FOR RESIDENTIAL. 4,670 SF AT GRADE PUBLICLY ACCESSIBLE OCCURS ALONG NORTH AND WEST SIDES OF BUILDING WITH FEATURE GATEWAYS WITH LIGHTING, WALKWAYS ENHANCED WITH LIGHTING AND SCULPTURAL SEATING. CORNER PLAZA WITH MODULAR STACKED SEATING AND PLANTERS, DECORATIVE BIKE RACKS, AND PAVERS AT CORNER OF HAVEN. COMMON OPEN SPACE INCLUDES 3,200 SF AT COURTYARD, 895 AT 5TH FLOOR ROOF DECK, AND 1,995 AT ROOF DECK. ADDITIONAL PRIVATE DECKS PROVIDED, SEE G0.05B, C & D. PRIVATE DECKS INCLUDE: 36 - NON-COMPLIANT PRIVATE OPEN SPACE 16 - PARTIALLY COMPLIANT PRIVATE OPEN SPACE, MEETS 6'X6' MIN, BUT DOES NOT MEET 80 SF. 20 - COMPLIANT COMMON PRIVATE OPEN SPACE, 6'X6' MIN & 80 SF

Floor	Gross Floor Area Per Menlo Park Code 16.04.325 (outside face of exterior walls, centerline at interior walls)										
	Included in FAR					Not included in FAR					
	BMR Unit Resid. Unit	Common Area / Circulation	Lobby / Amenity	BOH/ Utilities Mainten. / IT	Utilities (Excluded)	Trash/ Shafts	Parking (Bicycle)	Parking (Vehicle)	Outdoor Common	Deck - Private	Deck - Private Non-Compliant
1	-	621	2,153	295	1,061	487	1,546	17,566	4,670	-	43
2	4,046	1,535	-	121	386	80	-	17,660	-	-	43
3	14,527	3,026	2,457	91	-	109	-	-	3,200	390	452
4	16,768	2,883	-	460	-	109	-	-	-	358	571
5	15,278	2,883	-	460	-	109	-	899	886	430	430
6	15,278	2,883	-	460	-	109	-	-	358	484	473
7	15,278	2,883	-	460	-	109	-	-	358	260	260
8	10,391	2,169	-	377	-	120	-	-	1,995	578	260
<b>Roof</b>	-	-	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>91,564</b>	<b>18,883</b>	<b>4,610</b>	<b>2,724</b>	<b>1,447</b>	<b>1,232</b>	<b>1,546</b>	<b>35,226</b>	<b>10,764</b>	<b>2,928</b>	<b>2,713</b>

AREA TO BE PUBLICLY ACCESSIBLE (LOCATED AT GRADE) \*1% of 225% FAR = 28,808\*2.25 = 64,818 \* 1% = 648 SF \*3% of 225% FAR = 28,808\*2.25 = 64,818 \* 3% = 1,945 SF

Floor	Unit Type	Unit Type	Unit #	Units/ Floor	BOMA Unit Net Sq. Ft.	BOMA Total Net Sq. Ft.
Floor 2	Studio	A.1	202	1	525	525
	Studio	A.1'	203	1	596	596
	Studio	A.7	205	1	508	508
	Studio	A.8	206	1	582	582
	2 Bed / 1 Ba	A.6	204	1	815	815
	1 Bedroom	B.4	201	1	750	750
<b>Per Floor</b>				<b>6</b>	<b>3,776</b>	<b>3,776</b>

Floor 3	Studio	A.1	315	1	525	525
	Studio	A.1'	309	1	570	570
	Studio	A.2	306	1	581	581
	Studio	A.3	307	1	569	569
	1 Bedroom	B.1	302-5	4	802	3,208
	1 Bedroom	C	308, 310	2	769	1,538
	1 Bed + Den	D	314	1	752	752
	2 Bed / 1 Ba	H	316	1	918	918
	2 Bed / 2 Ba	E.1	311	1	1,008	1,008
	2 Bed / 2 Ba	F.1	312	1	957	957
2 Bed / 2 Ba	F.2	313	1	1,001	1,001	
2 Bed / 2 Ba	J	301	1	1,144	1,144	
2 Bed / 2 Ba	K.1	317	1	1,177	1,177	
<b>Per Floor</b>				<b>17</b>	<b>13,946</b>	<b>13,946</b>

Floor 4	Studio	A.1	418	1	525	525
	Studio	A.1'	412	1	570	570
	Studio	A.2	406	1	581	581
	Studio	A.4	407	1	654	654
	Studio	A.3	408	1	569	569
	Studio	A.5'	409	1	625	625
	1 Bedroom	B.1	402-5	4	802	3,208
	1 Bedroom	C	410,413	2	769	1,538
	1 Bed + Den	B.2	411	1	906	906
	1 Bed + Den	D	417	1	752	752
	2 Bed / 1 Ba	H	419	1	901	901
	2 Bed / 2 Ba	E.1	414	1	1,008	1,008
	2 Bed / 2 Ba	F.1	415	1	957	957
	2 Bed / 2 Ba	F.2	416	1	1,001	1,001
	2 Bed / 2 Ba	J	401	1	1,144	1,144
2 Bed / 2 Ba	K.1	420	1	1,177	1,177	
<b>Per Floor</b>				<b>20</b>	<b>16,116</b>	<b>16,116</b>

Floors 5-7	Studio	A.1	X18	1	525	525
	Studio	A.1'	X12	1	570	570
	Studio	A.2	X06	1	581	581
	Studio	A.3	X07	1	596	596
	Studio	A.4	X08	1	654	654
	Studio	A.5	X09	1	642	642
	1 Bedroom	B.1	X02-5	4	802	3,208
	1 Bedroom	C	X10,13	2	769	1,538
	1 Bedroom	G	X01	1	843	843
	1 Bed + Den	B.3	X11	1	927	927
	1 Bed + Den	D	X17	1	752	752
	2 Bed / 2 Ba	E.1	X14	1	1,008	1,008
	2 Bed / 2 Ba	F.1	X15	1	957	957
	2 Bed / 2 Ba	F.2	X16	1	1,001	1,001
	2 Bed / 2 Ba	K.2	X19	1	918	918
<b>Per Floor</b>				<b>19</b>	<b>14,720</b>	<b>14,720</b>

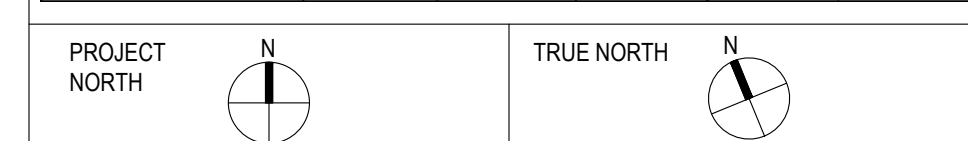
Studio	A.1'	808	1	570	570	
Studio	A.2	803	1	581	581	
Studio	A.3	805	1	569	569	
Studio	A.4'	804	1	686	686	
1 Bed / 1 Ba	B.1	801	1	802	802	
1 Bed / 1 Ba	F.3	811	1	820	820	
1 Bed / 1 Ba	F.4	812	1	833	833	
1 Bed / 1 Ba	C	806, 809	2	769	1,538	
1 Bed + Den	E.2	810	1	870	870	
2 Bed / 2 Ba	M	807	1	1,104	1,104	
3 Bed / 2.5 Ba	L	802	1	1,583	1,583	
<b>Per Floor</b>				<b>12</b>	<b>9,956</b>	<b>9,956</b>

<b>Building Summary</b>			<b># of Units</b>	<b>112</b>	<b>BOMA Total Net Sq. Ft.</b>	<b>87,954</b>
-------------------------	--	--	-------------------	------------	-------------------------------	---------------

Floor	GSF (outside face of walls & ext. to ext. walls) (SF)	GFA (excl. non-FAR areas) (SF)
1	23,729	3,069
2	23,828	5,702
3	20,210	20,101
4	20,218	20,109
5	18,730	18,621
6	18,730	18,621
7	18,730	18,621
8	13,057	12,937
<b>Total</b>	<b>167,232</b>	<b>117,781</b>

<b>Site Area</b>	<b>28,808</b>
<b>FAR</b>	<b>409%</b>

Unit	Unit Type	Unit #	SF	FLOOR	BMR Cat.
Studio	A.1	202	525	2	Moderate
Studio	A.1	315	525	3	Very Low
Studio	A.1'	412	570	4	Very Low
Studio	A.1	518	525	5	Moderate
Studio	A.1	618	525	6	Very Low
2-Bedroom	A.6	204	880	2	Very Low
1 Bedroom	B.4	201	750	2	Very Low
1 Bedroom	C	513	769	5	Very Low
1 Bed + Den	D	314	752	3	Very Low
1 Bed + Den	D	417	752	4	Very Low
1 Bed + Den	D	517	752	5	Very Low
1 Bed + Den	D	617	752	6	Moderate
2 Bed / 2 Ba	F.1	312	957	3	Very Low
2 Bed / 2 Ba	F.2	416	1,001	4	Moderate
<b>Total:</b>		<b>14</b>	<b>10,035</b>		

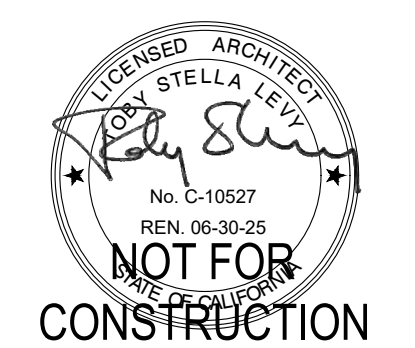


**1 BUILDING AREA: GROUND FLOOR**  
1/16" = 1'-0"



**2 BUILDING AREA: SECOND FLOOR**  
1/16" = 1'-0"

**3705 HAVEN AVE  
MENLO PARK, CA**



3705 HAVEN AVE  
MENLO PARK, CA  
PROJECT NO. 21-07  
PARCEL NO. 055170240

REV	DATE	DESCRIPTION
	04-14-2023	PLANNING & SB330 REV 2
	09-22-2023	PLANNING & SB330 REV 3
	03-20-2024	PLANNING & SB330 REV 4
	06-13-2024	PLANNING & SB330 REV 5
	07-26-2024	PLANNING & SB330 REV 6

CONTACT: TOBY LEVY

(415) 777-0561 P  
(415) 777-5117 F

SCALE: AS NOTED

**BUILDING AREA  
CALCULATIONS  
PLANNING**

**G0.05B**



04-14-2023	PLANNING & SB330 REV 2
09-22-2023	PLANNING & SB330 REV 3
03-20-2024	PLANNING & SB330 REV 4
06-13-2024	PLANNING & SB330 REV 5
07-26-2024	PLANNING & SB330 REV 6

LEGEND											
Gross Floor Area Per Menlo Park Code 16.04.325 (outside face of exterior walls, centerline at interior walls)											
Included in FAR											
Floor	BMR Unit Resid. Unit	Common Area / Circulation	Lobby / Amenity	BOH/ Utilities / Mainten. / IT	Utilities (Excluded)	Trash/ Shafts	Parking (Bicycle)	Parking (Vehicle)	Outdoor Common	Deck - Private	Deck - Private Non-Compliant
1	-	621	2,153	295	1,061	487	1,546	17,566	4,670	-	43
2	4,046	1,535	-	121	386	80	-	17,660	-	-	-
3	14,527	3,026	2,457	91	-	109	-	-	3,200	390	452
4	16,768	2,883	-	460	-	109	-	-	-	358	571
5	15,278	2,883	-	460	-	109	-	-	899	886	430
6	15,278	2,883	-	460	-	109	-	-	-	358	484
7	15,278	2,883	-	460	-	109	-	-	-	358	473
8	10,391	2,169	-	377	-	120	-	-	1,995	578	260
Roof	-	-	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>91,564</b>	<b>18,883</b>	<b>4,610</b>	<b>2,724</b>	<b>1,447</b>	<b>1,232</b>	<b>1,546</b>	<b>35,226</b>	<b>10,764</b>	<b>2,928</b>	<b>2,713</b>

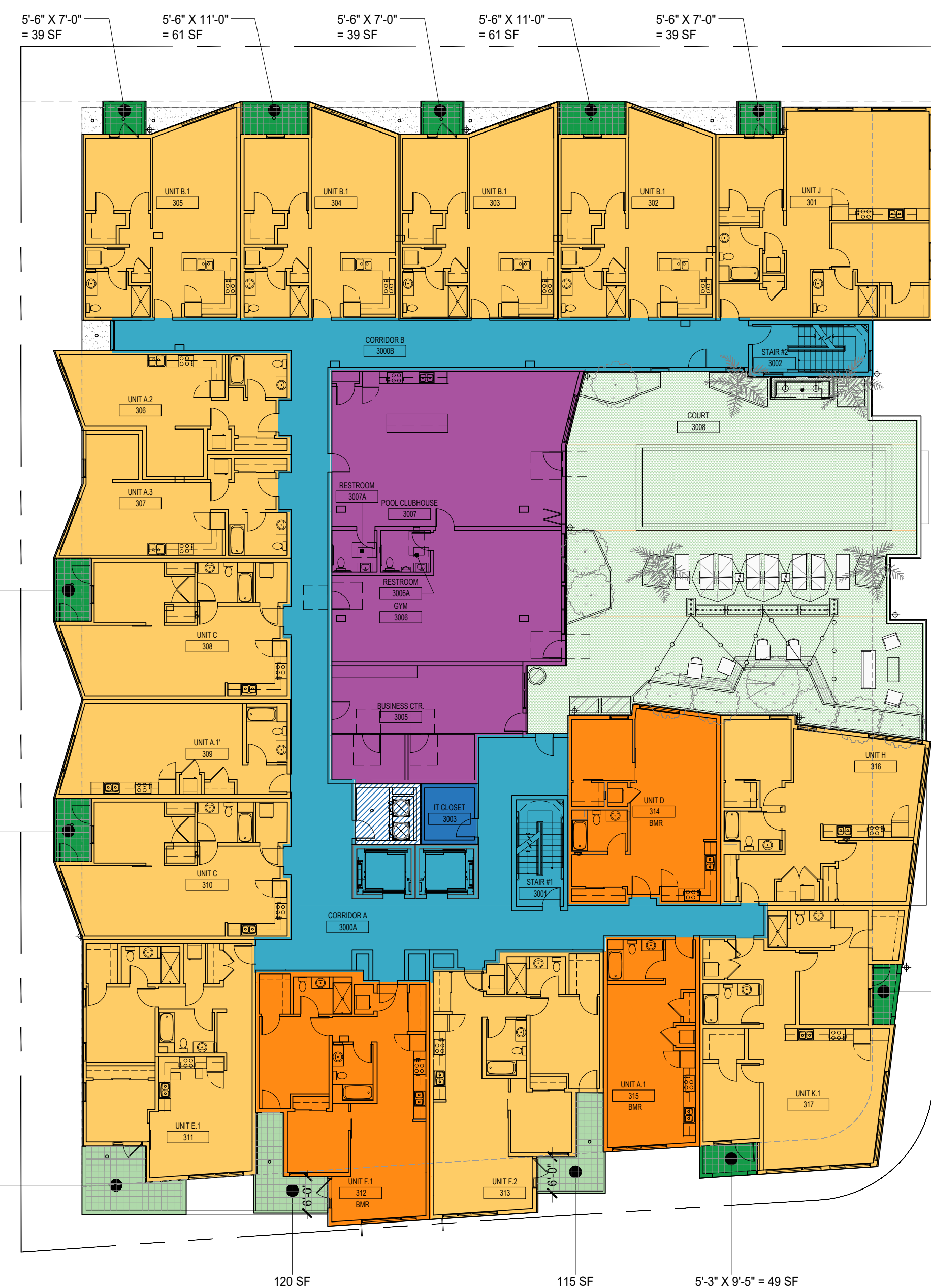
\*1% of 225% FAR = 28,808 \* 2.25 = 64,818 \* 1% = 648 SF  
\*3% of 225% FAR = 28,808 \* 2.25 = 64,818 \* 3% = 1,945 SF

Floor	Unit Type	Unit #	Units/ Floor	BOMA Unit Net Sq. Ft.	BOMA Total Net Sq. Ft.	
Floor 2	Studio	A.1	202	1	525	
	Studio	A.1'	203	1	596	
	Studio	A.7	205	1	508	
	Studio	A.8	206	1	582	
	2 Bed / 1 Ba	A.6	204	1	815	
1 Bedroom	B.4	201	1	750		
<b>Per Floor</b>			<b>6</b>		<b>3,776</b>	
Floor 3	Studio	A.1	315	1	525	
	Studio	A.1'	309	1	570	
	Studio	A.2	306	1	581	
	Studio	A.3	307	1	569	
	1 Bedroom	B.1	302-5	4	802	
	1 Bedroom	C	308, 310	2	769	
	1 Bed + Den	D	314	1	752	
	2 Bed / 1 Ba	H	316	1	918	
	2 Bed / 2 Ba	E.1	311	1	1,008	
	2 Bed / 2 Ba	F.1	312	1	957	
	2 Bed / 2 Ba	F.2	313	1	1,001	
	2 Bed / 2 Ba	J	301	1	1,144	
2 Bed / 2 Ba	K.1	317	1	1,177		
<b>Per Floor</b>			<b>17</b>		<b>13,946</b>	
Floor 4	Studio	A.1	418	1	525	
	Studio	A.1'	412	1	570	
	Studio	A.2	406	1	581	
	Studio	A.4	407	1	654	
	Studio	A.3	408	1	569	
	Studio	A.5'	409	1	625	
	1 Bedroom	B.1	402-5	4	825	
	1 Bedroom	C	410, 413	2	769	
	1 Bed + Den	B.2	411	1	906	
	1 Bed + Den	D	417	1	752	
	2 Bed / 1 Ba	H	419	1	901	
	2 Bed / 2 Ba	E.1	414	1	1,008	
	2 Bed / 2 Ba	F.1	415	1	957	
	2 Bed / 2 Ba	F.2	416	1	1,001	
	2 Bed / 2 Ba	J	401	1	1,144	
2 Bed / 2 Ba	K.1	420	1	1,177		
<b>Per Floor</b>			<b>20</b>		<b>16,116</b>	
Floors 5-7	Studio	A.1	X18	1	525	
	Studio	A.1'	X12	1	570	
	Studio	A.2	X06	1	581	
	Studio	A.3	X07	1	596	
	Studio	A.4	X08	1	654	
	Studio	A.5	X09	1	642	
	1 Bedroom	B.1	X02-5	4	802	
	1 Bedroom	C	X10, 13	2	769	
	1 Bedroom	G	X01	1	843	
	1 Bed + Den	B.3	X11	1	927	
	1 Bed + Den	D	X17	1	752	
	2 Bed / 2 Ba	E.1	X14	1	1,008	
	2 Bed / 2 Ba	F.1	X15	1	957	
	2 Bed / 2 Ba	F.2	X16	1	1,001	
	2 Bed / 2 Ba	K.2	X19	1	918	
	<b>Per Floor</b>			<b>19</b>		<b>14,720</b>
	Floor 8	Studio	A.1'	808	1	570
		Studio	A.2	803	1	581
		Studio	A.3	805	1	569
Studio		A.4'	804	1	686	
1 Bed / 1 Ba		B.1	801	1	802	
1 Bed / 1 Ba		F.3	811	1	820	
1 Bed / 1 Ba		F.4	812	1	833	
1 Bed / 1 Ba	C	806, 809	2	769		
1 Bed + Den	E.2	810	1	870		
2 Bed / 2 Ba	M	807	1	1,104		
3 Bed / 2.5 Ba	L	802	1	1,583		
<b>Per Floor</b>			<b>12</b>		<b>9,956</b>	
<b>Building Summary</b>			<b># of Units</b>		<b>BOMA Total Net Sq. Ft.</b>	
			112		87,954	

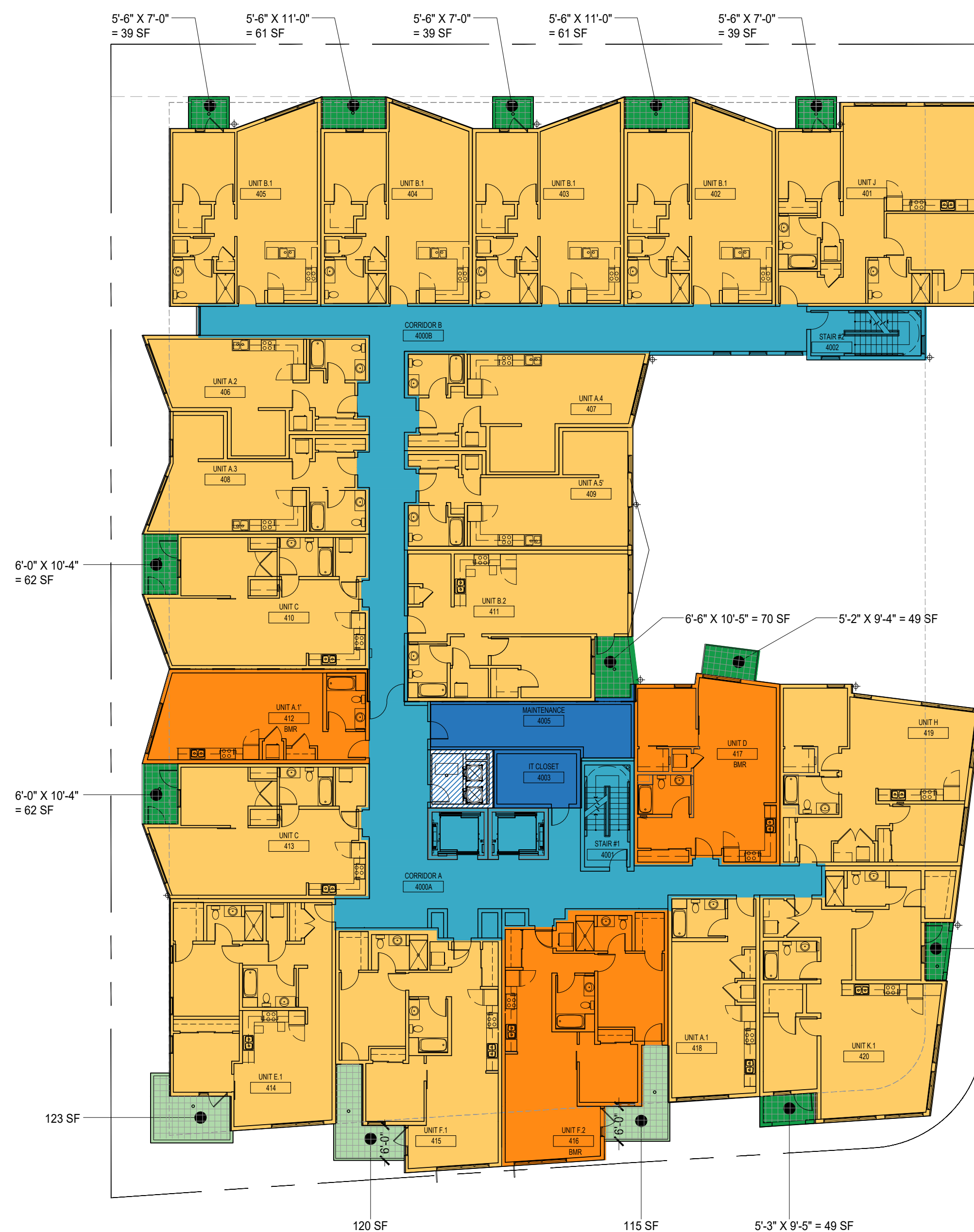
Floor	GSF (outside face of walls & ext. to ext. walls) (SF)	GFA (excl. non-FAR areas) (SF)
1	23,729	3,069
2	23,828	5,702
3	20,210	20,101
4	20,218	20,109
5	18,730	18,621
6	18,730	18,621
7	18,730	18,621
8	13,057	12,937
<b>Total</b>	<b>167,232</b>	<b>117,781</b>

<b>Site Area</b>	28,808
<b>FAR</b>	409%

Unit	Unit Type	Unit #	SF	FLOOR	BMR Cat.
Studio	A.1	202	525	2	Moderate
Studio	A.1	315	525	3	Very Low
Studio	A.1'	412	570	4	Very Low
Studio	A.1	518	525	5	Moderate
Studio	A.1	618	525	6	Very Low
2-Bedroom	A.6	204	880	2	Very Low
1 Bedroom	B.4	201	750	2	Very Low
1 Bedroom	C	513	769	5	Very Low
1 Bed + Den	D	314	752	3	Very Low
1 Bed + Den	D	417	752	4	Very Low
1 Bed + Den	D	517	752	5	Very Low
1 Bed + Den	D	617	752	6	Moderate
2 Bed / 2 Ba	F.1	312	957	3	Very Low
2 Bed / 2 Ba	F.2	416	1,001	4	Moderate
<b>Total:</b>		14	10,035		



1 BUILDING AREA: THIRD FLOOR  
1/16" = 1'-0"

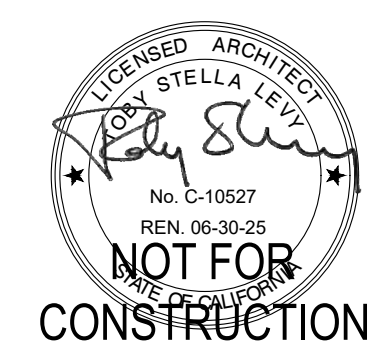


2 BUILDING AREA: FOURTH FLOOR  
1/16" = 1'-0"



NOTICE: THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY AND COPYRIGHT OF LEVY DESIGN PARTNERS, INC. (LDP ARCHITECTURE) AND SHALL NOT BE USED EXCEPT BY WRITTEN AGREEMENT WITH LEVY DESIGN PARTNERS.

**3705 HAVEN AVE  
MENLO PARK, CA**



3705 HAVEN AVE  
MENLO PARK, CA  
PROJECT NO. 21-07  
PARCEL NO. 055170240

REV	DATE	DESCRIPTION
04-14-2023	PLANNING & SB330 REV 2	
09-22-2023	PLANNING & SB330 REV 3	
03-20-2024	PLANNING & SB330 REV 4	
06-13-2024	PLANNING & SB330 REV 5	
07-26-2024	PLANNING & SB330 REV 6	

CONTACT: TOBY LEVY

(415) 777-0561 P  
(415) 777-5117 F

SCALE: **AS NOTED**

**BUILDING AREA  
CALCULATIONS  
PLANNING**

**G0.05D**

Gross Floor Area Per Menlo Park Code 16.04.325 (outside face of exterior walls, centerline at interior walls)											
Floor	Included in FAR					Not included in FAR					
	BMR Unit Resid. Unit	Common Area / Circulation	Lobby / Amenity	BOH/ Utilities / Mainten. / IT	Utilities (Excluded)	Trash/ Shafts	Parking (Bicycle)	Parking (Vehicle)	Outdoor Common	Deck - Private	Deck - Private Non-Compliant
1	-	621	2,153	295	1,061	487	1,546	17,566	4,670	-	43
2	4,046	1,535	-	121	386	80	-	17,660	-	-	43
3	14,527	3,026	2,457	91	-	109	-	-	3,200	390	452
4	16,768	2,883	-	460	-	109	-	-	-	358	571
5	15,278	2,883	-	460	-	109	-	-	899	886	430
6	15,278	2,883	-	460	-	109	-	-	-	358	484
7	15,278	2,883	-	460	-	109	-	-	-	358	473
8	10,391	2,169	-	377	-	120	-	-	1,995	578	260
<b>Roof</b>	-	-	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>91,564</b>	<b>18,883</b>	<b>4,610</b>	<b>2,724</b>	<b>1,447</b>	<b>1,232</b>	<b>1,546</b>	<b>35,226</b>	<b>10,764</b>	<b>2,928</b>	<b>2,713</b>

\*1% of 225% FAR = 28,808 \* 2.25 = 64,818 \* 1% = **648 SF**  
 \*3% of 225% FAR = 28,808 \* 2.25 = 64,818 \* 3% = **1,945 SF**

MINIMUM SETBACK - The horizontal distance a building's upper stories must be set back above the base height.  
 10 feet for a minimum of 75% of the building face along public streets. A maximum of 25% of building face along public streets may be excepted.

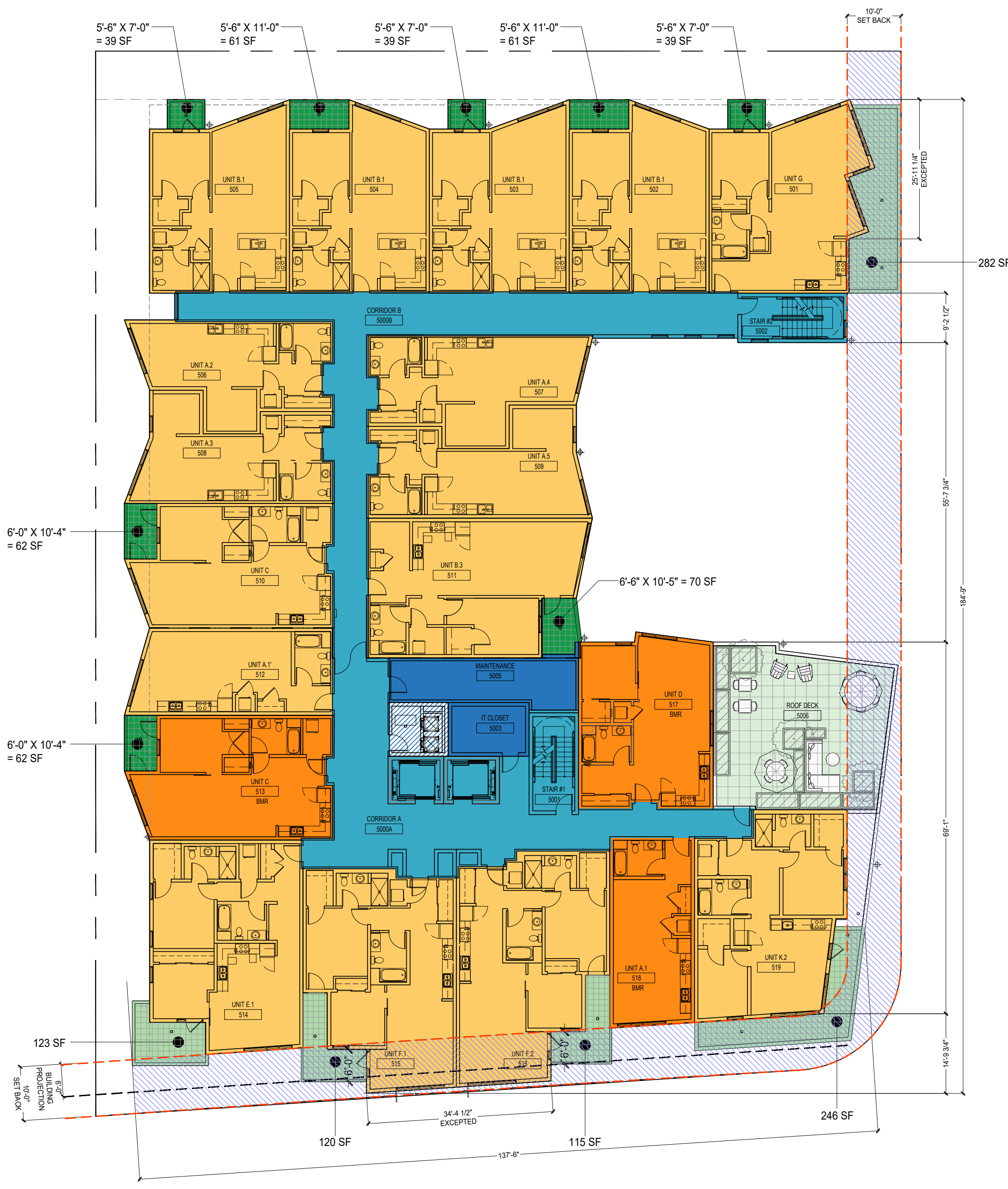
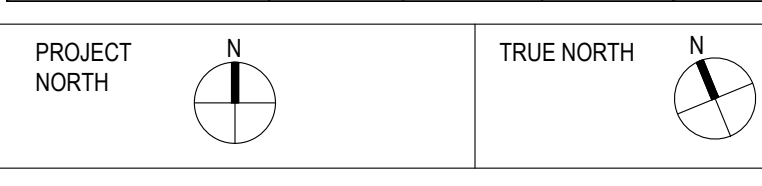
STEPPED BACK PORTION OF BUILDING

Floor	Unit Type	Unit Type	Unit #	Units/Floor	BOMA Unit Net Sq. Ft.	BOMA Total Net Sq. Ft.
Floor 2	Studio	A.1	202	1	525	525
	Studio	A.1'	203	1	596	596
	Studio	A.7	205	1	508	508
	Studio	A.8	206	1	582	582
	2 Bed / 1 Ba	A.6	204	1	815	815
1 Bedroom	B.4	201	1	750	750	
<b>Per Floor</b>				<b>6</b>		<b>3,776</b>
Floor 3	Studio	A.1	315	1	525	525
	Studio	A.1'	309	1	570	570
	Studio	A.2	306	1	581	581
	Studio	A.3	307	1	569	569
	1 Bedroom	B.1	302-5	4	802	3,208
	1 Bedroom	C	308, 310	2	769	1,538
	1 Bed + Den	D	314	1	752	752
	2 Bed / 1 Ba	H	316	1	918	918
	2 Bed / 2 Ba	E.1	311	1	1,008	1,008
	2 Bed / 2 Ba	F.1	312	1	957	957
2 Bed / 2 Ba	F.2	313	1	1,001	1,001	
2 Bed / 2 Ba	J	301	1	1,144	1,144	
2 Bed / 2 Ba	K.1	317	1	1,177	1,177	
<b>Per Floor</b>				<b>17</b>		<b>13,946</b>
Floor 4	Studio	A.1	418	1	525	525
	Studio	A.1'	412	1	570	570
	Studio	A.2	406	1	581	581
	Studio	A.4	407	1	654	654
	Studio	A.3	408	1	569	569
	Studio	A.5'	409	1	625	625
	1 Bedroom	B.1	402-5	4	802	3,208
	1 Bedroom	C	410, 413	2	769	1,538
	1 Bed + Den	B.2	411	1	906	906
	1 Bed + Den	D	417	1	752	752
	2 Bed / 1 Ba	H	419	1	901	901
	2 Bed / 2 Ba	E.1	414	1	1,008	1,008
	2 Bed / 2 Ba	F.1	415	1	957	957
2 Bed / 2 Ba	F.2	416	1	1,001	1,001	
2 Bed / 2 Ba	J	401	1	1,144	1,144	
2 Bed / 2 Ba	K.1	420	1	1,177	1,177	
<b>Per Floor</b>				<b>20</b>		<b>16,116</b>
Floors 5-7	Studio	A.1	X18	1	525	525
	Studio	A.1'	X12	1	570	570
	Studio	A.2	X06	1	581	581
	Studio	A.3	X07	1	596	596
	Studio	A.4	X08	1	654	654
	Studio	A.5	X09	1	642	642
	1 Bedroom	B.1	X02-5	4	802	3,208
	1 Bedroom	C	X10, 13	2	769	1,538
	1 Bedroom	G	X01	1	843	843
	1 Bed + Den	B.3	X11	1	927	927
	1 Bed + Den	D	X17	1	752	752
	2 Bed / 2 Ba	E.1	X14	1	1,008	1,008
	2 Bed / 2 Ba	F.1	X15	1	957	957
	2 Bed / 2 Ba	F.2	X16	1	1,001	1,001
2 Bed / 2 Ba	K.2	X19	1	918	918	
<b>Per Floor</b>				<b>19</b>		<b>14,720</b>
Floor 8	Studio	A.1'	808	1	570	570
	Studio	A.2	803	1	581	581
	Studio	A.3	805	1	569	569
	Studio	A.4'	804	1	686	686
	1 Bed / 1 Ba	B.1	801	1	802	802
	1 Bed / 1 Ba	F.3	811	1	820	820
	1 Bed / 1 Ba	F.4	812	1	833	833
1 Bed + Den	C	806, 809	2	769	1,538	
1 Bed + Den	E.2	810	1	870	870	
2 Bed / 2 Ba	M	807	1	1,104	1,104	
3 Bed / 2.5 Ba	L	802	1	1,583	1,583	
<b>Per Floor</b>				<b>12</b>		<b>9,956</b>
<b>Building Summary</b>				<b># of Units</b>		<b>BOMA Total Net Sq. Ft.</b>
				<b>112</b>		<b>87,954</b>

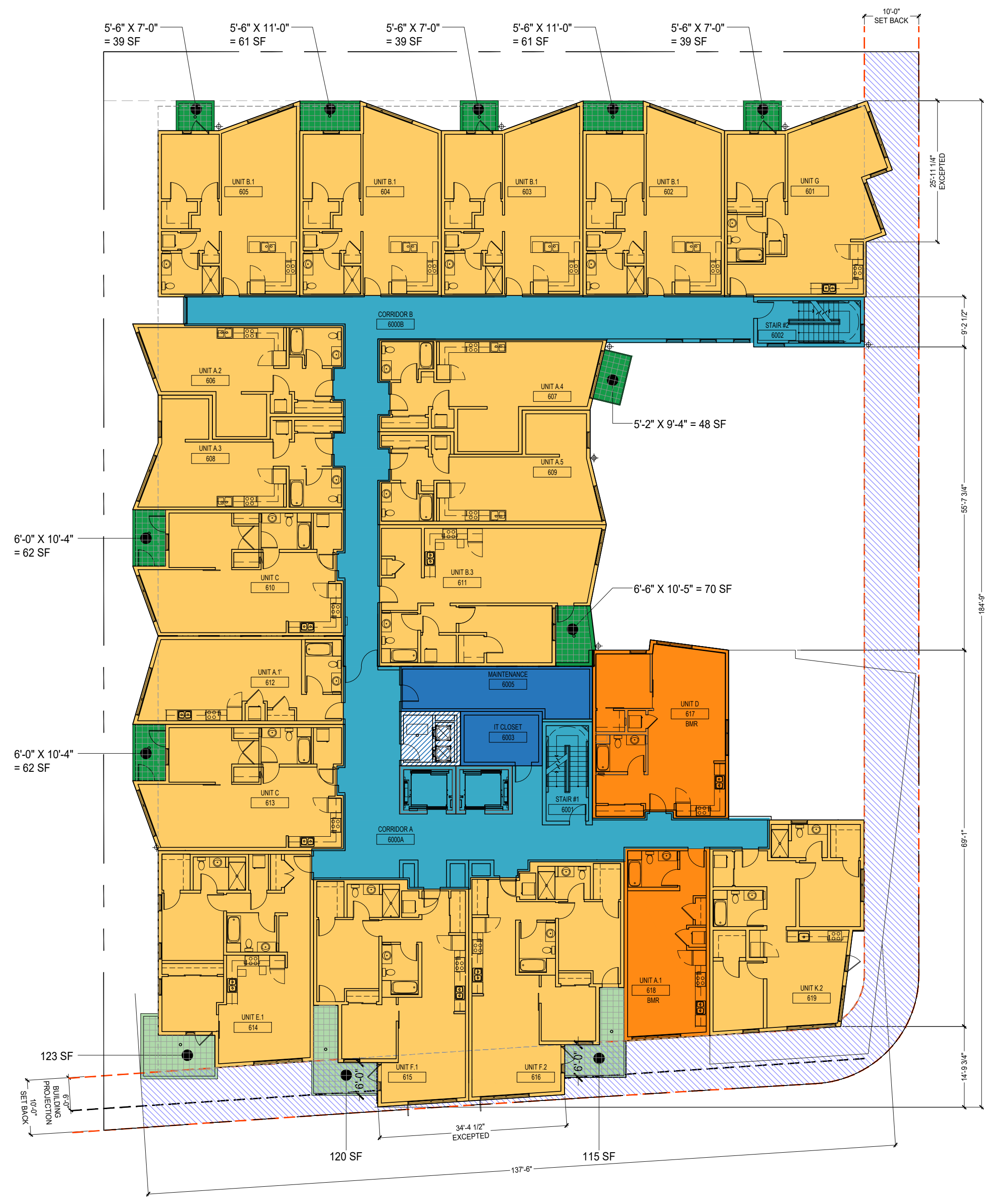
Floor	GSF (outside face of walls & ext. to ext. walls) (SF)	GFA (excl. non-FAR areas) (SF)
1	23,729	3,069
2	23,828	5,702
3	20,210	20,101
4	20,218	20,109
5	18,730	18,621
6	18,730	18,621
7	18,730	18,621
8	13,057	12,937
<b>Total</b>	<b>157,232</b>	<b>117,781</b>

<b>Site Area</b>	<b>28,808</b>
<b>FAR</b>	<b>409%</b>

Unit	Unit Type	Unit #	SF	FLOOR	BMR Cat.
Studio	A.1	202	525	2	Moderate
Studio	A.1	315	525	3	Very Low
Studio	A.1'	412	570	4	Very Low
Studio	A.1	518	525	5	Moderate
Studio	A.1	618	525	6	Very Low
2-Bedroom	A.6	204	880	2	Very Low
1 Bedroom	B.4	201	750	2	Very Low
1 Bedroom	C	513	769	5	Very Low
1 Bed + Den	D	314	752	3	Very Low
1 Bed + Den	D	417	752	4	Very Low
1 Bed + Den	D	517	752	5	Very Low
1 Bed + Den	D	617	752	6	Moderate
2 Bed / 2 Ba	F.1	312	957	3	Very Low
2 Bed / 2 Ba	F.2	416	1,001	4	Moderate
<b>Total:</b>		<b>14</b>	<b>10,035</b>		



**1 BUILDING AREA: FIFTH FLOOR**  
1/16" = 1'-0"

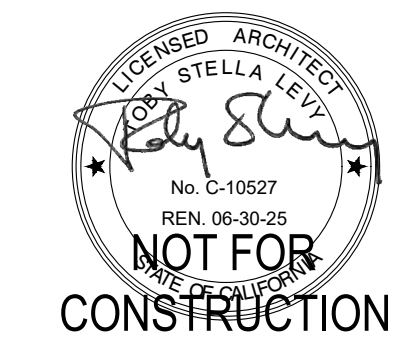


**2 BUILDING AREA: SIXTH FLOOR**  
1/16" = 1'-0"



NOTICE: THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY AND COPYRIGHT OF LEVY DESIGN PARTNERS, INC. (LDP ARCHITECTURE) AND SHALL NOT BE USED EXCEPT BY WRITTEN AGREEMENT WITH LEVY DESIGN PARTNERS.

**3705 HAVEN AVE  
MENLO PARK, CA**



3705 HAVEN AVE  
MENLO PARK, CA  
PROJECT NO. 21-07  
PARCEL NO. 055170240

REV | DATE | DESCRIPTION

04-14-2023	PLANNING & SB330 REV 2
09-22-2023	PLANNING & SB330 REV 3
03-20-2024	PLANNING & SB330 REV 4
06-13-2024	PLANNING & SB330 REV 5
07-26-2024	PLANNING & SB330 REV 6

CONTACT: TOBY LEVY

(415) 777-0561 P  
(415) 777-5117 F

SCALE: AS NOTED

**BUILDING AREA  
CALCULATIONS  
PLANNING**

**G0.05E**

Gross Floor Area Per Menlo Park Code 16.04.325 (outside face of exterior walls, centerline at interior walls)											
Floor	Included in FAR					Not included in FAR					
	BMR Unit Resid. Unit	Common Area / Circulation	Lobby / Amenity	BOH/ Utilities / Mainten. / IT	Utilities (Excluded)	Trash/ Shafts	Parking (Bicycle)	Parking (Vehicle)	Outdoor Common	Deck - Private	Deck - Private Non-Compliant
1	-	621	2,153	295	1,061	487	1,546	17,566	4,670	-	43
2	4,046	1,535	-	121	386	80	-	17,660	-	-	-
3	14,527	3,026	2,457	91	-	109	-	-	3,200	390	452
4	16,768	2,883	-	460	-	109	-	-	-	358	571
5	15,278	2,883	-	460	-	109	-	-	899	886	430
6	15,278	2,883	-	460	-	109	-	-	-	358	484
7	15,278	2,883	-	460	-	109	-	-	-	358	473
8	10,391	2,169	-	377	-	120	-	-	1,995	578	260
Roof	-	-	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>91,564</b>	<b>18,883</b>	<b>4,610</b>	<b>2,724</b>	<b>1,447</b>	<b>1,232</b>	<b>1,546</b>	<b>35,226</b>	<b>10,764</b>	<b>2,928</b>	<b>2,713</b>

\*1% of 225% FAR = 28,808 \* 2.25 = 64,818 \* 1% = 648 SF  
\*3% of 225% FAR = 28,808 \* 2.25 = 64,818 \* 3% = 1,945 SF

MINIMUM SETBACK - The horizontal distance a building's upper stories must be set back above the base height. 10 feet for a minimum of 75% of the building face along public streets. A maximum of 25% of building face along public streets may be excepted.

STEPPED BACK PORTION OF BUILDING

Floor	Unit Type	Unit #	Units/Floor	BOMA Unit Net Sq. Ft.	BOMA Total Net Sq. Ft.	
Floor 2	Studio	A.1	202	1	525	525
	Studio	A.1'	203	1	596	596
	Studio	A.7	205	1	508	508
	Studio	A.8	206	1	582	582
	2 Bed / 1 Ba	A.6	204	1	815	815
1 Bedroom	B.4	201	1	750	750	
<b>Per Floor</b>			<b>6</b>		<b>3,776</b>	

Floor 3	Studio	A.1	315	1	525	525
	Studio	A.1'	309	1	570	570
	Studio	A.2	306	1	581	581
	Studio	A.3	307	1	569	569
	1 Bedroom	B.1	302-5	4	802	3,208
	1 Bedroom	C	308, 310	2	769	1,538
	1 Bed + Den	D	314	1	752	752
	2 Bed / 1 Ba	H	316	1	918	918
	2 Bed / 2 Ba	E.1	311	1	1,008	1,008
	2 Bed / 2 Ba	F.1	312	1	957	957
2 Bed / 2 Ba	F.2	313	1	1,001	1,001	
2 Bed / 2 Ba	J	301	1	1,144	1,144	
2 Bed / 2 Ba	K.1	317	1	1,177	1,177	
<b>Per Floor</b>			<b>17</b>		<b>13,946</b>	

Floor 4	Studio	A.1	418	1	525	525
	Studio	A.1'	412	1	570	570
	Studio	A.2	406	1	581	581
	Studio	A.4	407	1	654	654
	Studio	A.3	408	1	569	569
	Studio	A.5'	409	1	625	625
	1 Bedroom	B.1	402-5	4	802	3,208
	1 Bedroom	C	410, 413	2	769	1,538
	1 Bed + Den	B.2	411	1	906	906
	1 Bed + Den	D	417	1	752	752
2 Bed / 1 Ba	H	419	1	901	901	
2 Bed / 2 Ba	E.1	414	1	1,008	1,008	
2 Bed / 2 Ba	F.1	415	1	957	957	
2 Bed / 2 Ba	F.2	416	1	1,001	1,001	
2 Bed / 2 Ba	J	401	1	1,144	1,144	
2 Bed / 2 Ba	K.1	420	1	1,177	1,177	
<b>Per Floor</b>			<b>20</b>		<b>16,116</b>	

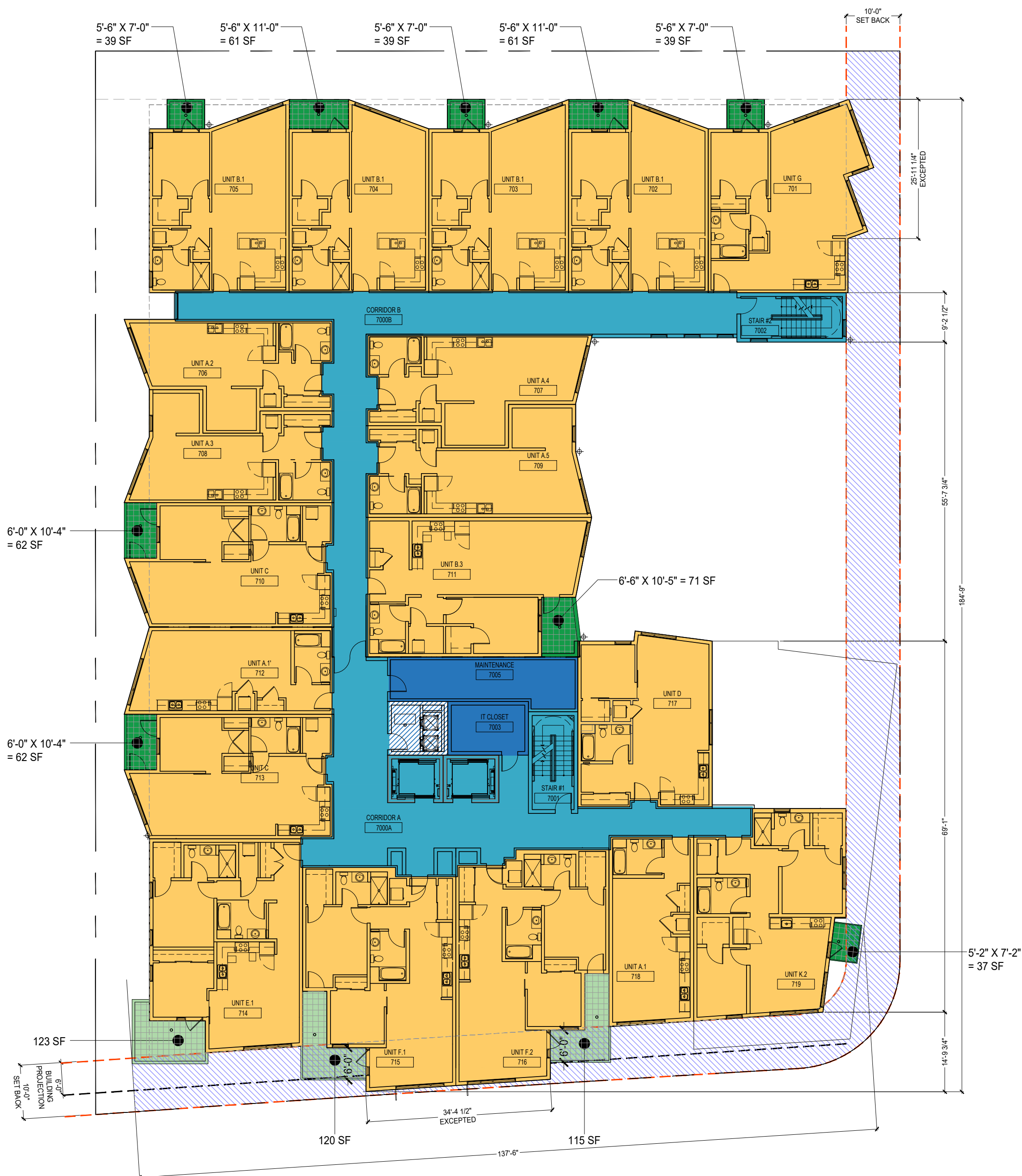
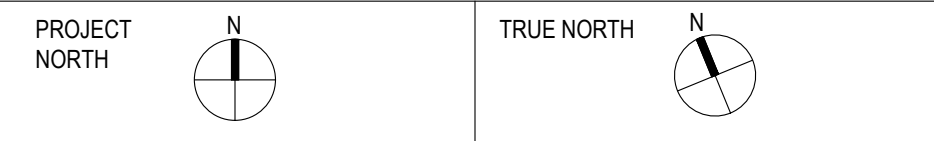
Floors 5-7	Studio	A.1	X18	1	525	525
	Studio	A.1'	X12	1	570	570
	Studio	A.2	X06	1	581	581
	Studio	A.3	X07	1	596	596
	Studio	A.4	X08	1	654	654
	Studio	A.5	X09	1	642	642
	1 Bedroom	B.1	X02-5	4	802	3,208
	1 Bedroom	C	X10, 13	2	769	1,538
	1 Bedroom	G	X01	1	843	843
	1 Bed + Den	B.3	X11	1	927	927
	1 Bed + Den	D	X17	1	752	752
	2 Bed / 2 Ba	E.1	X14	1	1,008	1,008
	2 Bed / 2 Ba	F.1	X15	1	957	957
2 Bed / 2 Ba	F.2	X16	1	1,001	1,001	
2 Bed / 2 Ba	K.2	X19	1	918	918	
<b>Per Floor</b>			<b>19</b>		<b>14,720</b>	

Floor 8	Studio	A.1'	808	1	570	570
	Studio	A.2	803	1	581	581
	Studio	A.3	805	1	569	569
	Studio	A.4'	804	1	686	686
	1 Bed / 1 Ba	B.1	801	1	802	802
	1 Bed / 1 Ba	F.3	811	1	820	820
	1 Bed / 1 Ba	F.4	812	1	833	833
	1 Bed / 1 Ba	C	806, 809	2	769	1,538
	1 Bed + Den	E.2	810	1	870	870
	2 Bed / 2 Ba	M	807	1	1,104	1,104
3 Bed / 2.5 Ba	L	802	1	1,583	1,583	
<b>Per Floor</b>			<b>12</b>		<b>9,956</b>	

<b>Building Summary</b>		<b># of Units</b>	112	<b>BOMA Total Net Sq. Ft.</b>	87,954
-------------------------	--	-------------------	-----	-------------------------------	--------

Floor	GSF (outside face of walls & ext. to ext. walls) (SF)	GFA (excl. non-FAR areas) (SF)
1	23,729	3,069
2	23,828	5,702
3	20,210	20,101
4	20,218	20,109
5	18,730	18,621
6	18,730	18,621
7	18,730	18,621
8	13,057	12,937
<b>Total</b>	<b>167,232</b>	<b>117,781</b>

Unit	Unit Type	Unit #	SF	FLOOR	BMR Cat.
Studio	A.1	202	525	2	Moderate
Studio	A.1	315	525	3	Very Low
Studio	A.1'	412	570	4	Very Low
Studio	A.1	518	525	5	Moderate
Studio	A.1	618	525	6	Very Low
2-Bedroom	A.6	204	880	2	Very Low
1 Bedroom	B.4	201	750	2	Very Low
1 Bedroom	C	513	769	5	Very Low
1 Bed + Den	D	314	752	3	Very Low
1 Bed + Den	D	417	752	4	Very Low
1 Bed + Den	D	517	752	5	Very Low
1 Bed + Den	D	617	752	6	Moderate
1 Bed / 2 Ba	F.1	312	957	3	Very Low
2 Bed / 2 Ba	F.2	416	1,001	4	Moderate
<b>Total:</b>		<b>14</b>	<b>10,035</b>		



**1 BUILDING AREA: SEVENTH FLOOR**  
1/16" = 1'-0"



**2 BUILDING AREA: EIGHTH FLOOR**  
1/16" = 1'-0"



LEGEND	DESCRIPTION	PORTION OF BUILDING	FOOTPRINT (SF)	BUILDING HEIGHT (FT)	FOOTPRINT X BUILDING HEIGHT
	STAIR PENTHOUSE	A	184	94.07	17,309
	UPPER ROOF	B	13,089	85.94	1,124,869
	LOWER ROOF, ROOF DECK, FLR 8 DECKS	C	5,989	73.11	437,856
	FLOOR 7 DECKS	D	265	63.27	16,767
	FLOOR 6 DECK	E	48	53.43	2,565
	FLOOR 5 ROOF DECK, DECKS	F	1,587	43.61	69,209
	FLOOR 4 DECK	G	48	35.77	1,717
	3RD FLOOR COURTYARD	H	3,332	23.94	79,768
<b>FOOTPRINT X BUILDING HEIGHT TOTAL</b>					<b>1,750,059</b>
<b>FOOTPRINT TOTAL</b>					<b>24,630</b>
<b>AVERAGE HEIGHT</b>					<b>71.1</b>

MUNICIPAL CODE 16.45.120 - Height Limit Required

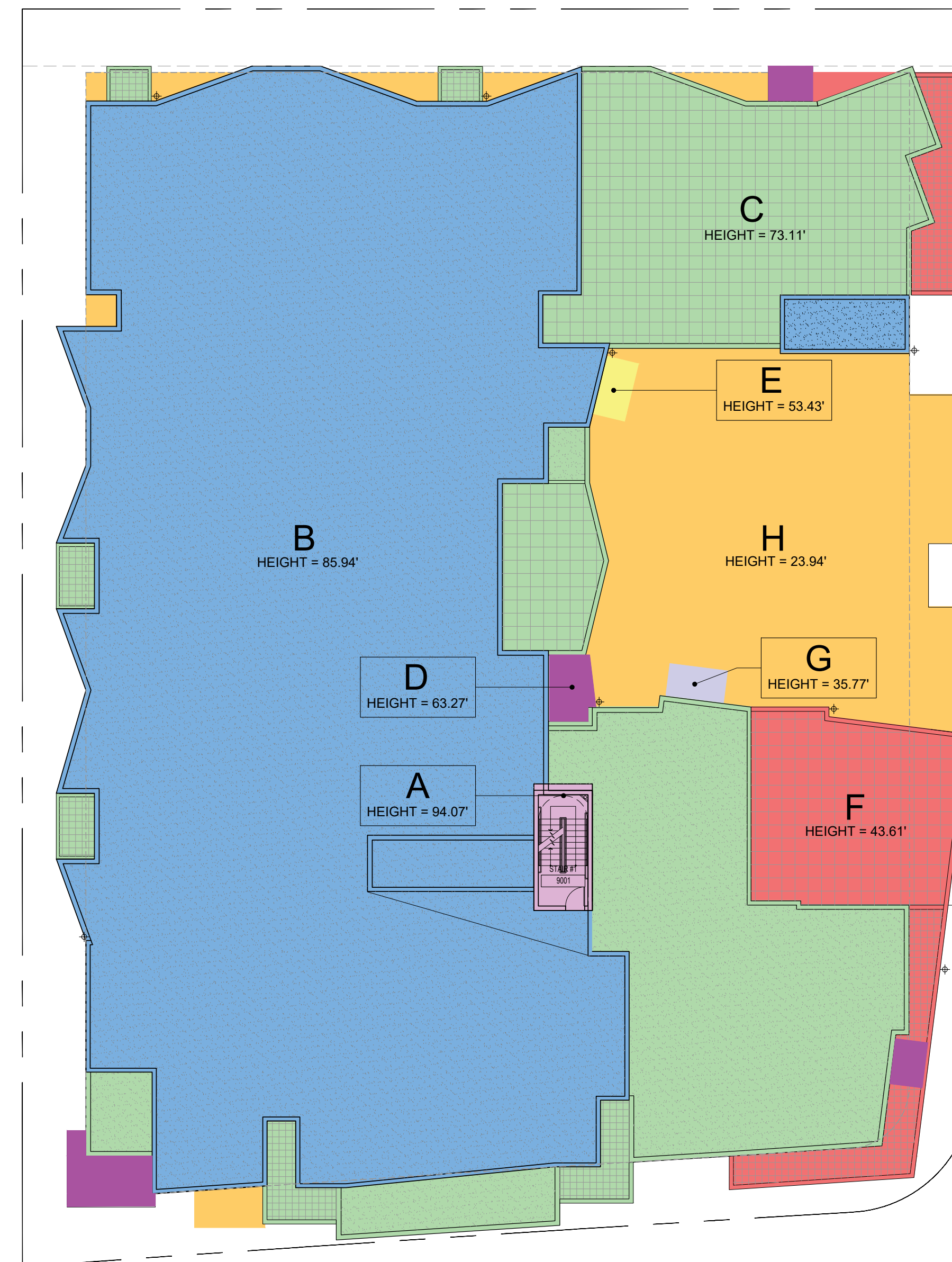
Properties w/ in floor zone are allowed 10' increase in height.  
Maximum height 70'-0" + 10'-0" = 80'-0"  
(Screen for mech. equip. +14', elevator towers & equip. +20')

Proposed  
74'-9" Highest occupiable floor level  
84'-9" Top of roof sheathing

Building height for this diagram measured from average natural grade: 10.01'



NOTICE:  
THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY AND COPYRIGHT OF LEVY DESIGN PARTNERS, INC. (LDP ARCHITECTURE) AND SHALL NOT BE USED EXCEPT BY WRITTEN AGREEMENT WITH LEVY DESIGN PARTNERS.



**1 BUILDING HEIGHT**  
1/16" = 1'-0"

3705 HAVEN AVE  
MENLO PARK, CA



3705 HAVEN AVE  
MENLO PARK, CA

PROJECT NO. 21-07  
PARCEL NO. 055170240

REV	DATE	DESCRIPTION
04-14-2023	PLANNING & SB330 REV 2	
09-22-2023	PLANNING & SB330 REV 3	
03-20-2024	PLANNING & SB330 REV 4	
06-13-2024	PLANNING & SB330 REV 5	
07-26-2024	PLANNING & SB330 REV 6	

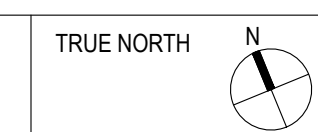
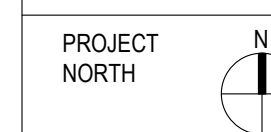
CONTACT: TOBY LEVY

(415) 777-0561 P  
(415) 777-5117 F

SCALE:  
AS NOTED

BUILDING  
HEIGHT

**G0.05F**





GROUND FLOOR						
OCCUPANT LOAD						
Building 01						
Zone	Room ID	Room Name	Area	Function	Load Factor	# of Occupants
A1.1	1000-1001, 1004	Lobby/Mail/Stair	1,356	Residential	200	7
A1.2	1003	Trash Rm.	488	Accessory Storage/Equipment	300	2
A1.3	1005	Resident Amenity	452	Unconcentrated Assembly	15	31
A1.4	1007	Bike Room	1,554	Accessory Storage/Equipment	300	6
A1.5	1005A-B, 1008	Office/Restroom	573	Business Areas	100	6
A1.6	1009	Utility	296	Accessory Storage/Equipment	300	1
A1.7	1010	Utility	295	Accessory Storage/Equipment	300	1
A1.8	1011, 1013	Utility & Fire Ctrl.	479	Accessory Storage/Equipment	300	2
A1.9	1012	Utility	320	Accessory Storage/Equipment	300	2
A1.10	1002, G-1000	Garage	16,715	Accessory Storage/Equipment	300	56
<b>Total Occupant Load for Building 01</b>						<b>114</b>
EXITING CALCULATIONS						
Building 01						
Occupant Load						114
Exits Required						2
Exits Provided						2
Egress Width Required (inch)						17.10
Corridor Width Required						36"
Corridor Width Provided						36"
Min Door Clr. Width Required						32"
Min Door Clr. Width Provided						32"
Stair Width Required (inch)						44"
Stair Width Provided						44"
Max. Building Diagonal						210'-10"
Required Dist. Between Exits						70'-4"
Provided Dist. Between Exits						132'-4"
Max. Allowed Common Path of Egress Travel (2022 CBC 1006.2)						125'-0"
Max. Provided Common Path of Egress Travel						N/A
Max. Allowed Exit Access Travel Distance (2022 CBC 1017.2)						250'-0"
Provided Travel Distance						207'-5"

SECOND FLOOR						
OCCUPANT LOAD						
Building 01						
Zone	Room ID	Room Name	Area	Function	Load Factor	# of Occupants
A2.1	204	Residential Units, Etc	3,913	Residential	200	20
A2.2	2000B, 2006, 205-206	Residential Units, Etc	1,642	Residential	200	9
A2.3	2008	Pool Equipment	90	Accessory Storage/Equipment	300	1
A2.4	2009	Utilities	326	Accessory Storage/Equipment	300	2
A2.5		Trash	81	Accessory Storage/Equipment	300	1
A2.6	G-2000	Garage	17,848	Accessory Storage/Equipment	300	60
<b>Total Occupant Load for Building 01</b>						<b>93</b>
EXITING CALCULATIONS						
Building 01						
Occupant Load						93
Exits Required						2
Exits Provided						3
Egress Width Required (inch)						13.95
Corridor Width Required						36"
Corridor Width Provided						38"
Min Door Clr. Width Required						32"
Min Door Clr. Width Provided						32"
Stair Width Required (inch)						44"
Stair Width Provided						44"
Max. Building Diagonal						211'-7"
Required Dist. Between Exits						70'-7"
Provided Dist. Between Exits						105'-0"
Max. Allowed Common Path of Egress Travel (2022 CBC 1006.2)						125'-0"
Max. Provided Common Path of Egress Travel						N/A
Max. Allowed Exit Access Travel Distance (2022 CBC 1017.2)						250'-0"
Provided Travel Distance						161'-0"

**HORIZONTAL EXIT DESCRIPTION AND CALCULATION**

HORIZONTAL EXITS: HORIZONTAL EXIT IS BEING USED AS AN ACCESSIBLE MEANS OF EGRESS FOR PERSONS WITH DISABILITIES IN LIEU OF PROVIDING AN ELEVATOR AS PERMITTED BY 2022 CBC 1009.2.1 EXCEPTION #1

- THE ARRANGEMENT OF EACH HORIZONTAL EXIT PROVIDES EXIT ENCLOSURES ON EACH SIDE OF THE HORIZONTAL EXIT THAT ARE CAPABLE OF ACCOMMODATING THE TOTAL OCCUPANT LOAD OF EACH FLOOR
  - THE HORIZONTAL EXIT WILL BE REQUIRED EXCLUSIVELY FOR DISABLED OCCUPANTS
    - EACH SIDE OF THE HORIZONTAL EXIT CONTAINS SPACE FOR MULTIPLE WHEEL CHAIR USERS WITH A CLEAR AREA OF 30"x42" ADJACENT TO THE 2-WAY EMERGENCY COMMUNICATION DEVICE.
- CALCULATIONS:
- FOR OCCUPANT LOAD PER FLOOR SEE MATRICES
  - FOR REQUIRED AND PROVIDED STAIR WIDTH SEE MATRICES FOR EACH FLOOR

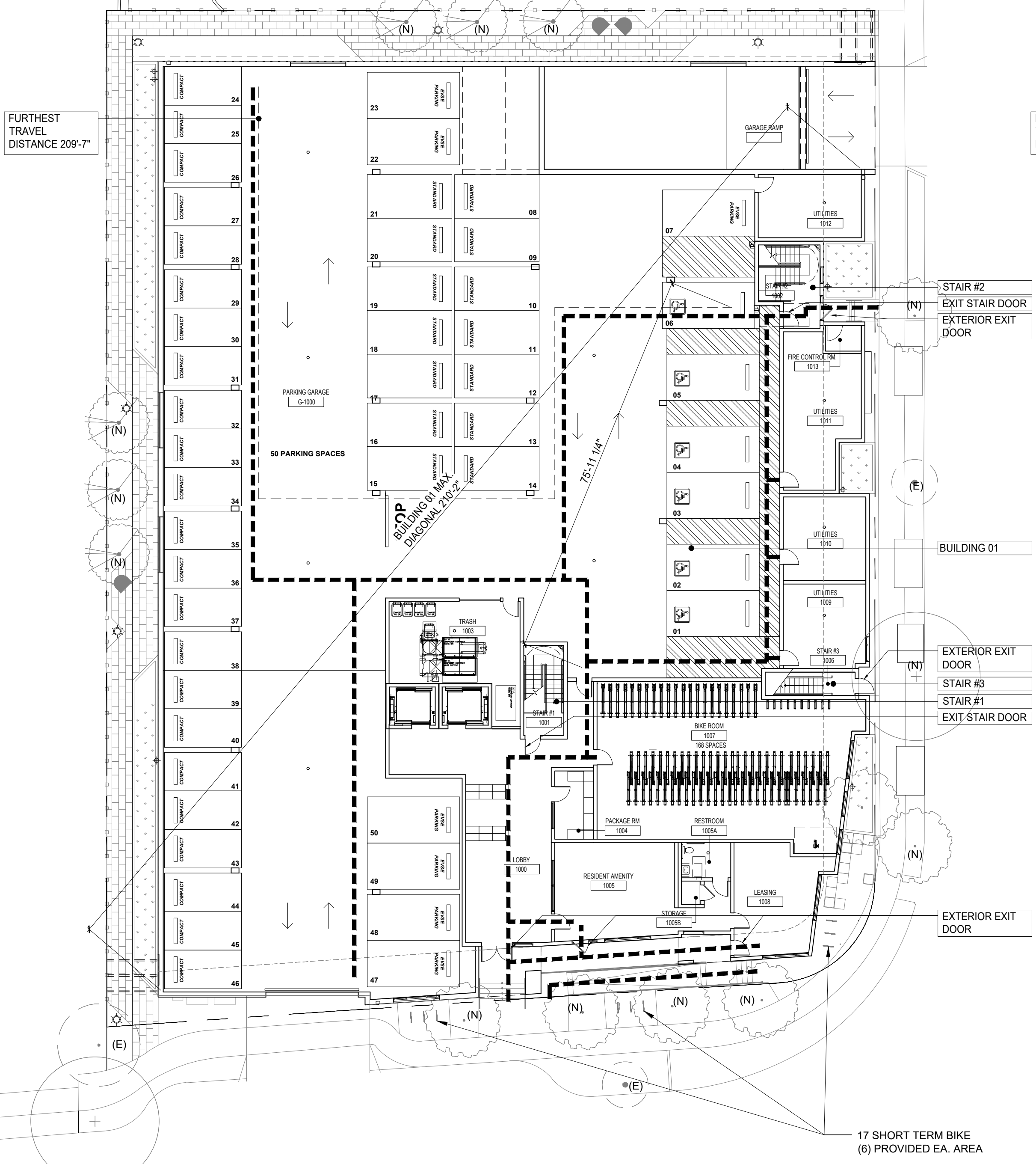
**HORIZONTAL EXIT STANDPIPE**

PER 2022 CBC 905.4 EXCEPTION #2 WHERE FLOOR AREAS ADJACENT TO A HORIZONTAL EXIT ARE REACHABLE FROM AN INTERIOR EXIT STAIR HOSE CONNECTION BY A 30-FOOT HOSE STREAM FROM A NOZZLE ATTACHED TO 100 FEET OF HOSE AS MEASURED ALONG THE PATH OF TRAVEL, A HOSE CONNECTION SHALL NOT BE REQUIRED AT THE HORIZONTAL EXIT.

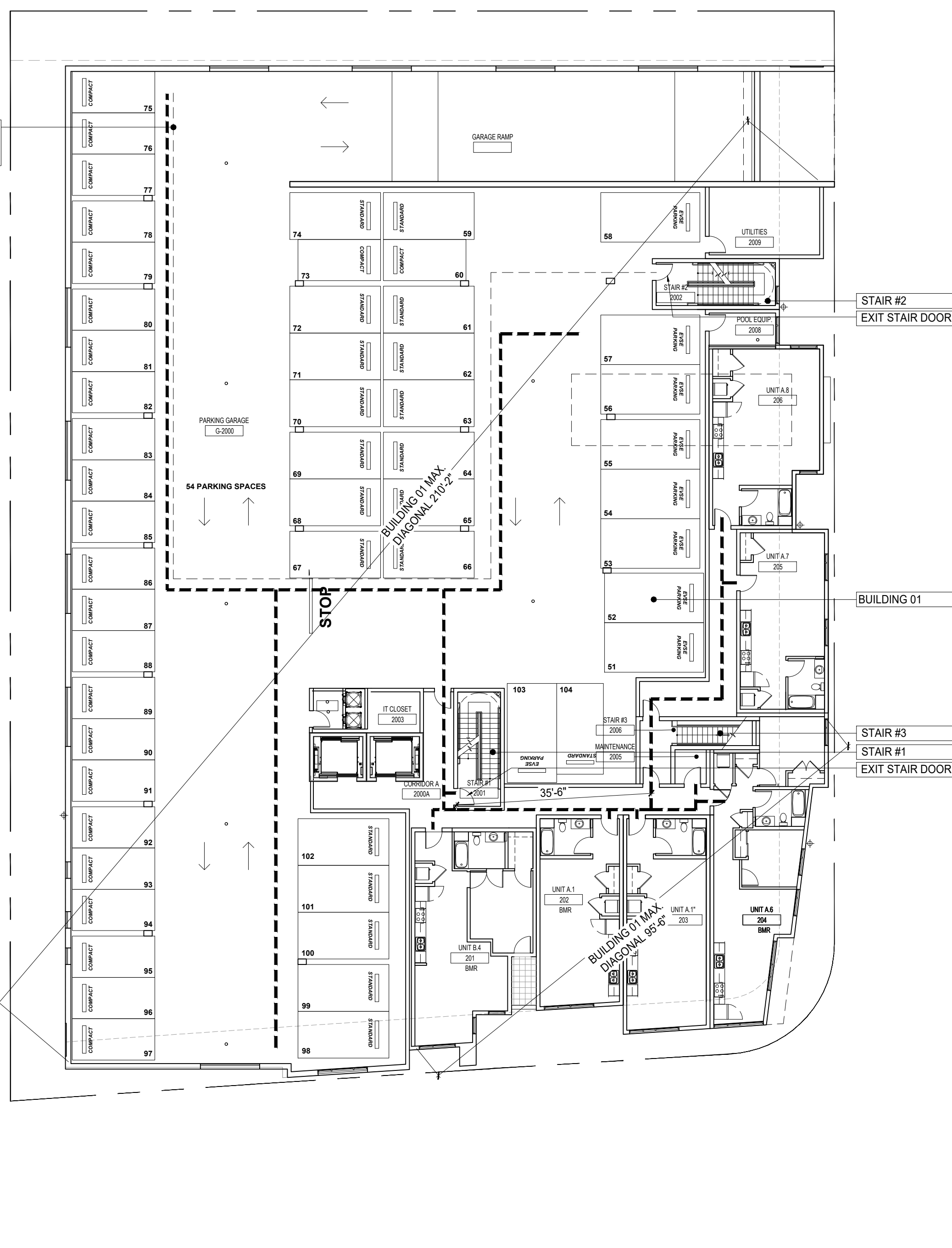
PROPOSED PROJECT MEETS THAT EXCEPTION.

**LEGEND**

- TRAVEL DISTANCE BY BUILDING
- EGRESS PATH
- FIRE WALL / HORIZONTAL EXIT
- CORRIDOR BUILDING 02
- CORRIDOR BUILDING 03



**1** EGRESS PLAN: GROUND FLOOR  
1/16" = 1'-0"

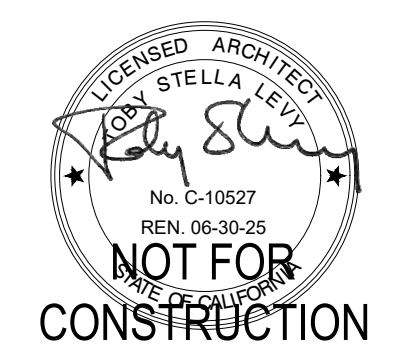


**2** EGRESS PLAN: SECOND FLOOR  
1/16" = 1'-0"



NOTICE: THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY AND COPYRIGHT OF LEVY DESIGN PARTNERS, INC. (LDP ARCHITECTURE) AND SHALL NOT BE USED EXCEPT BY WRITTEN AGREEMENT WITH LEVY DESIGN PARTNERS.

**3705 HAVEN AVE  
MENLO PARK, CA**



3705 HAVEN AVE  
MENLO PARK, CA

PROJECT NO. 21-07  
PARCEL NO. 055170240

REV	DATE	DESCRIPTION
	04-14-2023	PLANNING & SB330 REV 2
	09-22-2023	PLANNING & SB330 REV 3
	03-20-2024	PLANNING & SB330 REV 4
	06-13-2024	PLANNING & SB330 REV 5
	07-26-2024	PLANNING & SB330 REV 6

CONTACT: TOBY LEVY

(415) 777-0561 P  
(415) 777-5117 F

SCALE: AS NOTED

EGRESS PLANS

**G0.06A**





THIRD FLOOR OCCUPANT LOAD						
Building 01						
Zone	Room ID	Room Name	Area	Function	Load Factor	# of Occupants
A3.1	3000A, 3001-3003, 301-317	Residential Units, Etc	18,576	Residential	200	93
A3.2	3005	Business Center	567	Business Area	150	4
A3.3	3006/A, 3007A	Gym & Restrooms	854	Exercise Room	50	18
A3.4	3007/A	Pool Clubhouse	906	Unconcentrated Assembly	15	61
A3.5	3008	Court	2,049	Unconcentrated Assembly	15	137
A3.6	3008	Pool	480	Pool	50	10
<b>Total Occupant Load for Building 01</b>						<b>323</b>
EXITING CALCULATIONS						
Building 01						
Occupant Load			323			
Exits Required			2			
Exits Provided			2			
Egress Width Required (inch)			48.45			
Corridor Width Required			44"			
Corridor Width Provided			48"			
Min Door Clr. Width Required			32"			
Min Door Clr. Width Provided			32"			
Stair Width Required (inch)			44"			
Stair Width Provided			44"			
Max. Building Diagonal			227'-9"			
Required Dist. Between Exits			75'-11"			
Provided Dist. Between Exits			192'-4"			
Max. Allowed Common Path of Egress Travel (2022 CBC 1006.2)			125'-0"			
Max. Provided Common Path of Egress Travel			86'-9"			
Max. Allowed Exit Access Travel Distance (2022 CBC 1017.2)			250'-0"			
Provided Travel Distance			133'-4"			

FOURTH FLOOR OCCUPANT LOAD						
Building 02						
Zone	Room ID	Room Name	Area	Function	Load Factor	# of Occupants
B4.1	4000B, 401-411	Residential Units, Etc	10,540	Residential	200	53
<b>Total Occupant Load for Building 02</b>						<b>53</b>
Building 03						
Zone	Room ID	Room Name	Area	Function	Load Factor	# of Occupants
C4.1	4000A, 4003, 4005, 412-420	Residential Units, Etc	10,611	Residential	200	54
<b>Total Occupant Load for Building 03</b>						<b>54</b>
<b>Total Horizontal Exit Refuge Area Occupant Load for Buildings 02+03</b>						<b>107</b>
EXITING CALCULATIONS						
Building 02				Building 03		
Occupant Load			53	Occupant Load		54
Exits Required			2	Exits Required		2
Exits Provided			2	Exits Provided		2
Egress Width Required (inch)			7.95	Egress Width Required (inch)		8.10
Corridor Width Required			44"	Corridor Width Required		44"
Corridor Width Provided			48"	Corridor Width Provided		48"
Min Door Clr. Width Required			32"	Min Door Clr. Width Required		32"
Min Door Clr. Width Provided			32"	Min Door Clr. Width Provided		32"
Stair Width Required (inch)			44"	Stair Width Required (inch)		44"
Stair Width Provided			44"	Stair Width Provided		44"
Max. Building Diagonal			168'-0"	Max. Building Diagonal		159'-3"
Required Dist. Between Exits			56'-0"	Required Dist. Between Exits		53'-1"
Provided Dist. Between Exits			129'-10"	Provided Dist. Between Exits		62'-2"
Max. Allowed Common Path of Egress Travel (2022 CBC 1006.2)			125'-0"	Max. Allowed Common Path of Egress Travel (2022 CBC 1006.2)		125'-0"
Max. Provided Common Path of Egress Travel			61'-5"	Max. Provided Common Path of Egress Travel		86'-9"
Max. Allowed Exit Access Travel Distance (2022 CBC 1017.2)			250'-0"	Max. Allowed Exit Access Travel Distance (2022 CBC 1017.2)		250'-0"
Provided Travel Distance			126'-4"	Provided Travel Distance		102'-4"

**HORIZONTAL EXIT DESCRIPTION AND CALCULATION**

HORIZONTAL EXITS: HORIZONTAL EXIT IS BEING USED AS AN ACCESSIBLE MEANS OF EGRESS FOR PERSONS WITH DISABILITIES IN LIEU OF PROVIDING AN ELEVATOR AS PERMITTED BY 2022 CBC 1009.2.1 EXCEPTION #1

- THE ARRANGEMENT OF EACH HORIZONTAL EXIT PROVIDES EXIT ENCLOSURES ON EACH SIDE OF THE HORIZONTAL EXIT THAT ARE CAPABLE OF ACCOMMODATING THE TOTAL OCCUPANT LOAD OF EACH FLOOR
  - THE HORIZONTAL EXIT WILL BE REQUIRED EXCLUSIVELY FOR DISABLED OCCUPANTS
    - A EACH SIDE OF THE HORIZONTAL EXIT CONTAINS SPACE FOR MULTIPLE WHEEL CHAIR USERS WITH A CLEAR AREA OF 30"x42" ADJACENT TO THE 2-WAY EMERGENCY COMMUNICATION DEVICE.
- CALCULATIONS:
- FOR OCCUPANT LOAD PER FLOOR SEE MATRICES
  - FOR REQUIRED AND PROVIDED STAIR WIDTH SEE MATRICES FOR EACH FLOOR

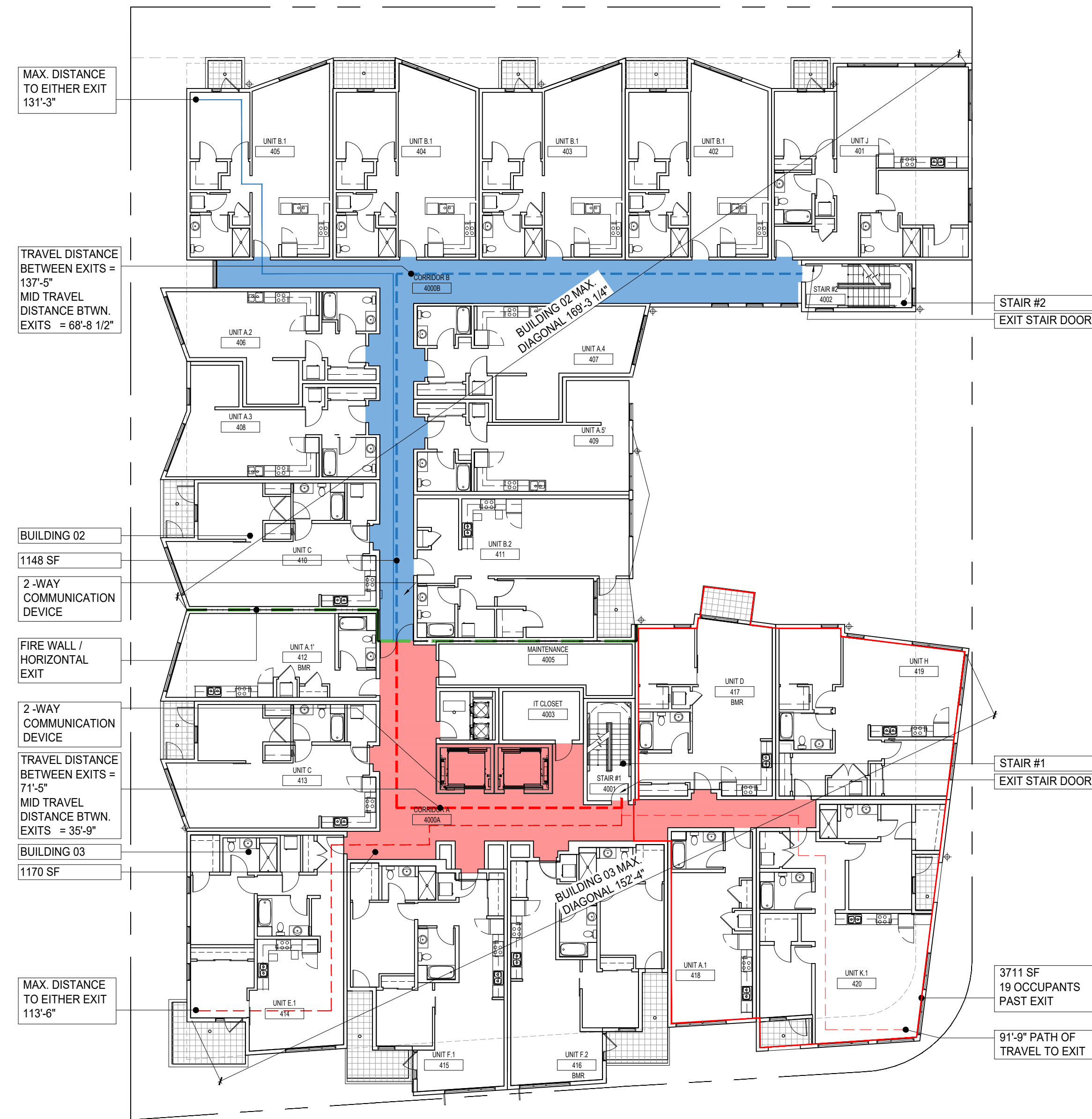
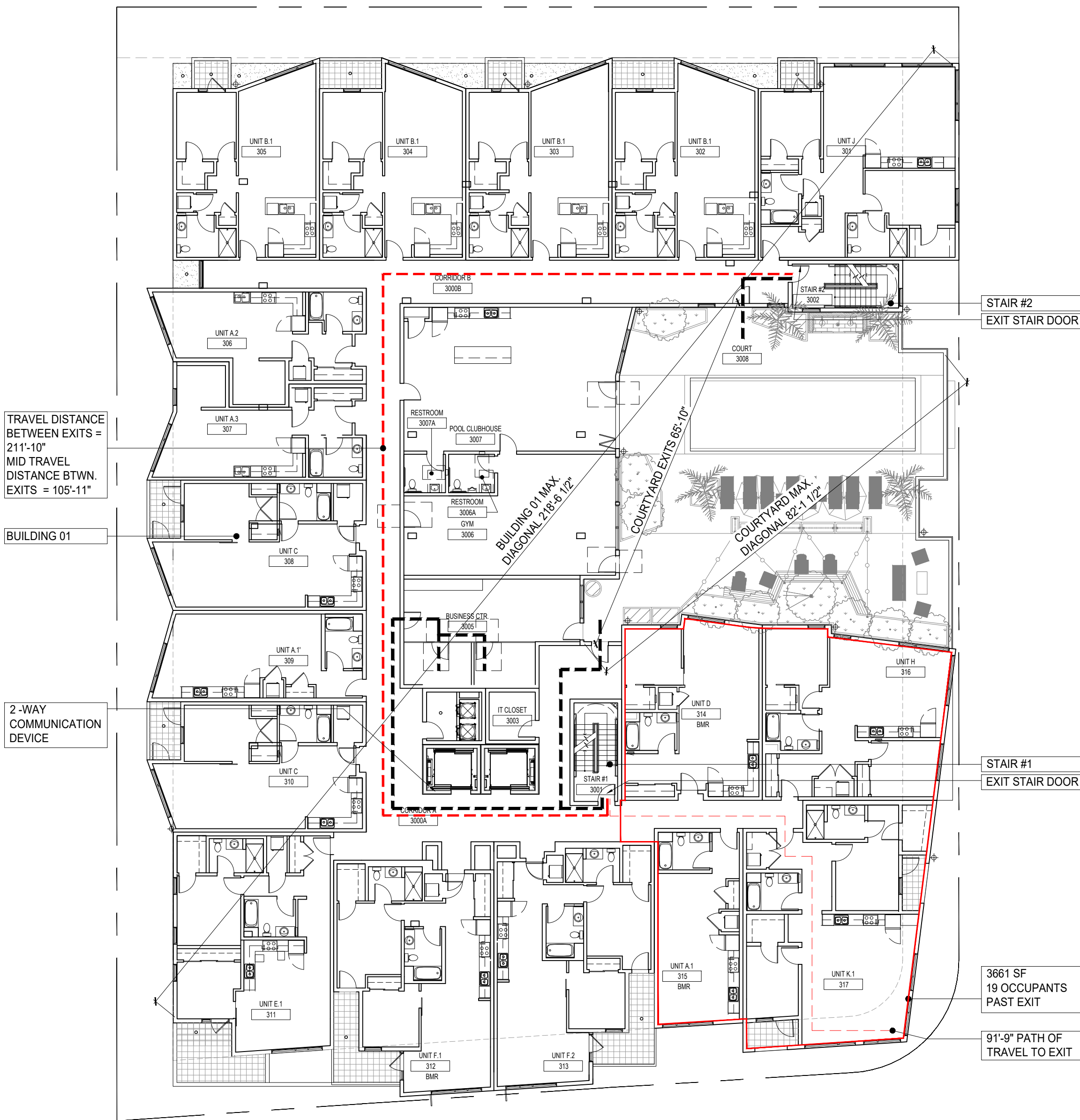
**HORIZONTAL EXIT STANDPIPE**

PER 2022 CBC 905.4 EXCEPTION #2 WHERE FLOOR AREAS ADJACENT TO A HORIZONTAL EXIT ARE REACHABLE FROM AN INTERIOR EXIT STAIR HOSE CONNECTION BY A 30-FOOT HOSE STREAM FROM A NOZZLE ATTACHED TO 100 FEET OF HOSE AS MEASURED ALONG THE PATH OF TRAVEL. A HOSE CONNECTION SHALL NOT BE REQUIRED AT THE HORIZONTAL EXIT.

PROPOSED PROJECT MEETS THAT EXCEPTION.

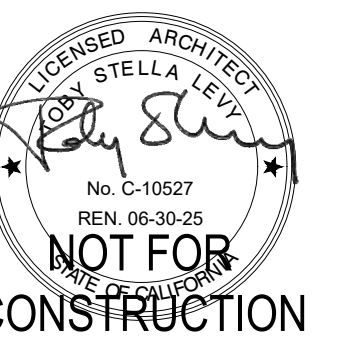
**LEGEND**

- TRAVEL DISTANCE BY BUILDING
- EGRESS PATH
- FIRE WALL / HORIZONTAL EXIT
- CORRIDOR BUILDING 02
- CORRIDOR BUILDING 03



NOTICE: THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY AND COPYRIGHT OF LEVY DESIGN PARTNERS, INC. (LDP ARCHITECTURE) AND SHALL NOT BE USED EXCEPT BY WRITTEN AGREEMENT WITH LEVY DESIGN PARTNERS.

3705 HAVEN AVE  
MENLO PARK, CA



3705 HAVEN AVE  
MENLO PARK, CA

PROJECT NO. 21-07  
PARCEL NO. 055170240

REV	DATE	DESCRIPTION
	04-14-2023	PLANNING & SB330 REV 2
	09-22-2023	PLANNING & SB330 REV 3
	03-20-2024	PLANNING & SB330 REV 4
	06-13-2024	PLANNING & SB330 REV 5
	07-26-2024	PLANNING & SB330 REV 6

CONTACT: TOBY LEVY

(415) 777-0561 P  
(415) 777-5117 F

SCALE: AS NOTED

EGRESS PLANS

G0.06B

1 EGRESS PLAN: THIRD FLOOR  
1/16" = 1'-0"

2 EGRESS PLAN: FOURTH FLOOR  
1/16" = 1'-0"





FIFTH FLOOR						
OCCUPANT LOAD						
Building 02						
Zone	Room ID	Room Name	Area	Function	Load Factor	# of Occupants
B5.1	5000B, 5002, 501-511	Residential Units, Etc	10,546	Residential	200	53
<b>Total Occupant Load for Building 02</b>						<b>53</b>
Building 03						
Zone	Room ID	Room Name	Area	Function	Load Factor	# of Occupants
CS.1	5000A, 5003, 5005, 512-519	Residential Units, Etc	9,616	Residential	200	49
CS.2	5006	Roof Deck	668	Unconcentrated Assembly	15	45
<b>Total Occupant Load for Building 03</b>						<b>94</b>
<b>Total Horizontal Exit Refuge Area Occupant Load for Buildings 02+03</b>						<b>147</b>
EXITING CALCULATIONS						
Building 02			Building 03			
Occupant Load			53	Occupant Load	94	
Exits Required			2	Exits Required	2	
Exits Provided			2	Exits Provided	2	
Egress Width Required (inch)			7.95	Egress Width Required (inch)	14.10	
Corridor Width Required			44"	Corridor Width Required	44"	
Corridor Width Provided			48"	Corridor Width Provided	48"	
Min Door Clr. Width Required			32"	Min Door Clr. Width Required	32"	
Min Door Clr. Width Provided			32"	Min Door Clr. Width Provided	32"	
Stair Width Required (inch)			44"	Stair Width Required (inch)	44"	
Stair Width Provided			44"	Stair Width Provided	44"	
Max. Building Diagonal			168'-4"	Max. Building Diagonal	159'-2"	
Required Dist. Between Exits			56'-2"	Required Dist. Between Exits	53'-1"	
Provided Dist. Between Exits			129'-10"	Provided Dist. Between Exits	62'-2"	
Max. Allowed Common Path of Egress Travel (2022 CBC 1006.2)			125'-0"	Max. Allowed Common Path of Egress Travel (2022 CBC 1006.2)	125'-0"	
Max. Provided Common Path of Egress Travel			61'-5"	Max. Provided Common Path of Egress Travel	76'-0"	
Max. Allowed Exit Access Travel Distance (2022 CBC 1017.2)			250'-0"	Max. Allowed Exit Access Travel Distance (2022 CBC 1017.2)	250'-0"	
Provided Travel Distance			126'-4"	Provided Travel Distance	102'-4"	

SIXTH FLOOR						
OCCUPANT LOAD						
Building 02						
Zone	Room ID	Room Name	Area	Function	Load Factor	# of Occupants
B6.1	6000B, 6002, 601-611	Residential Units, Etc	10,295	Residential	200	52
<b>Total Occupant Load for Building 02</b>						<b>52</b>
Building 03						
Zone	Room ID	Room Name	Area	Function	Load Factor	# of Occupants
C6.1	6000A, 6001, 6003, 6005, 612-619	Residential Units, Etc	9,264	Residential	200	47
<b>Total Occupant Load for Building 03</b>						<b>47</b>
<b>Total Horizontal Exit Refuge Area Occupant Load for Buildings 02+03</b>						<b>99</b>
EXITING CALCULATIONS						
Building 02			Building 03			
Occupant Load			52	Occupant Load	47	
Exits Required			2	Exits Required	2	
Exits Provided			2	Exits Provided	2	
Egress Width Required (inch)			7.80	Egress Width Required (inch)	7.05	
Corridor Width Required			44"	Corridor Width Required	44"	
Corridor Width Provided			48"	Corridor Width Provided	48"	
Min Door Clr. Width Required			32"	Min Door Clr. Width Required	32"	
Min Door Clr. Width Provided			32"	Min Door Clr. Width Provided	32"	
Stair Width Required (inch)			44"	Stair Width Required (inch)	44"	
Stair Width Provided			44"	Stair Width Provided	44"	
Max. Building Diagonal			160'-10"	Max. Building Diagonal	142'-5"	
Required Dist. Between Exits			53'-8"	Required Dist. Between Exits	47'-6"	
Provided Dist. Between Exits			129'-10"	Provided Dist. Between Exits	62'-2"	
Max. Allowed Common Path of Egress Travel (2022 CBC 1006.2)			125'-0"	Max. Allowed Common Path of Egress Travel (2022 CBC 1006.2)	125'-0"	
Max. Provided Common Path of Egress Travel			61'-5"	Max. Provided Common Path of Egress Travel	76'-0"	
Max. Allowed Exit Access Travel Distance (2022 CBC 1017.2)			250'-0"	Max. Allowed Exit Access Travel Distance (2022 CBC 1017.2)	250'-0"	
Provided Travel Distance			126'-4"	Provided Travel Distance	102'-4"	

**HORIZONTAL EXIT DESCRIPTION AND CALCULATION**

HORIZONTAL EXITS: HORIZONTAL EXIT IS BEING USED AS AN ACCESSIBLE MEANS OF EGRESS FOR PERSONS WITH DISABILITIES IN LIEU OF PROVIDING AN ELEVATOR AS PERMITTED BY 2022 CBC 1009.2.1 EXCEPTION #1

- THE ARRANGEMENT OF EACH HORIZONTAL EXIT PROVIDES EXIT ENCLOSURES ON EACH SIDE OF THE HORIZONTAL EXIT THAT ARE CAPABLE OF ACCOMMODATING THE TOTAL OCCUPANT LOAD OF EACH FLOOR
  - THE HORIZONTAL EXIT WILL BE REQUIRED EXCLUSIVELY FOR DISABLED OCCUPANTS
    - EACH SIDE OF THE HORIZONTAL EXIT CONTAINS SPACE FOR MULTIPLE WHEEL CHAIR USERS WITH A CLEAR AREA OF 30"x42" ADJACENT TO THE 2-WAY EMERGENCY COMMUNICATION DEVICE.
- CALCULATIONS:
- FOR OCCUPANT LOAD PER FLOOR SEE MATRICES
  - FOR REQUIRED AND PROVIDED STAIR WIDTH SEE MATRICES FOR EACH FLOOR

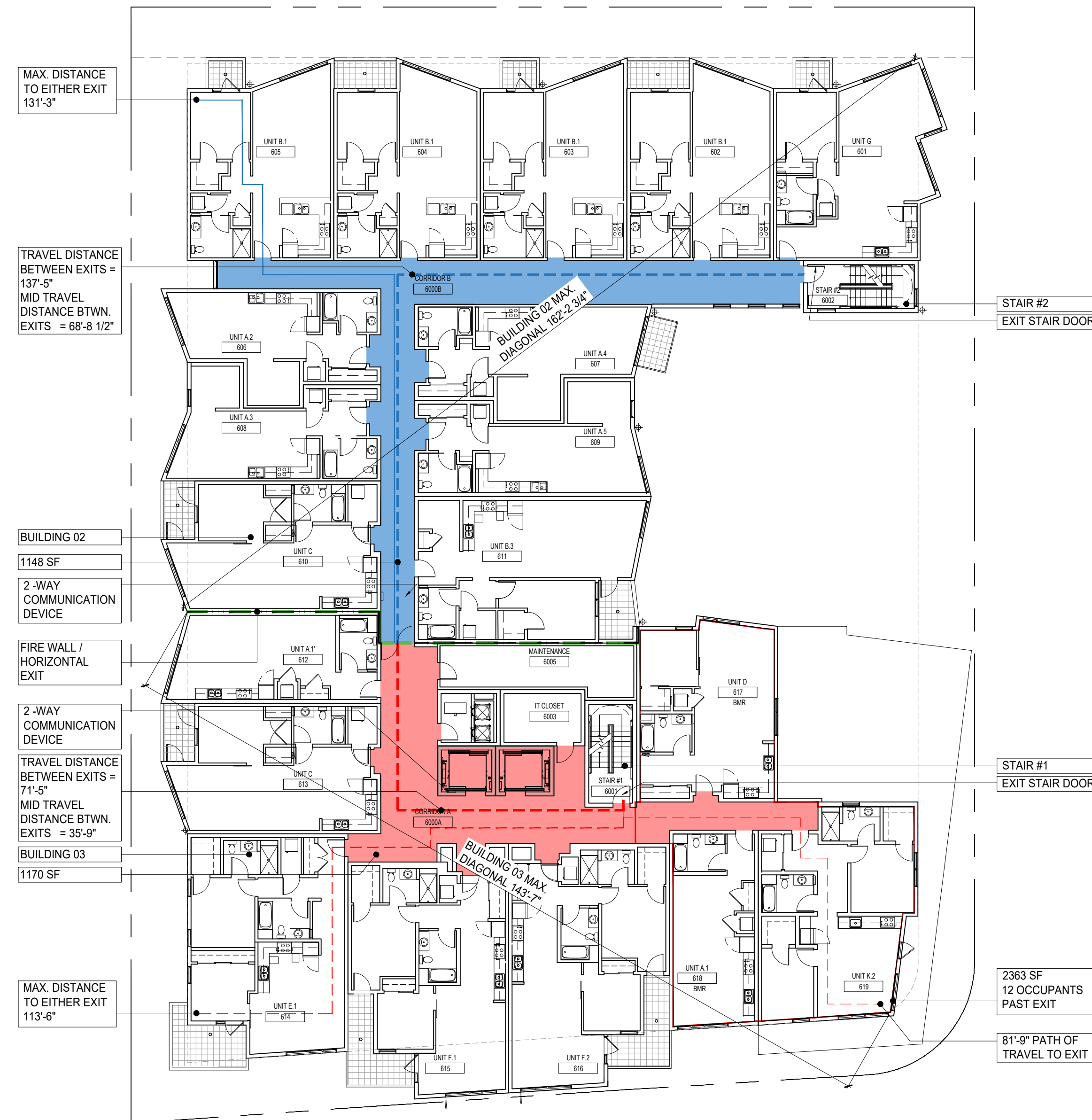
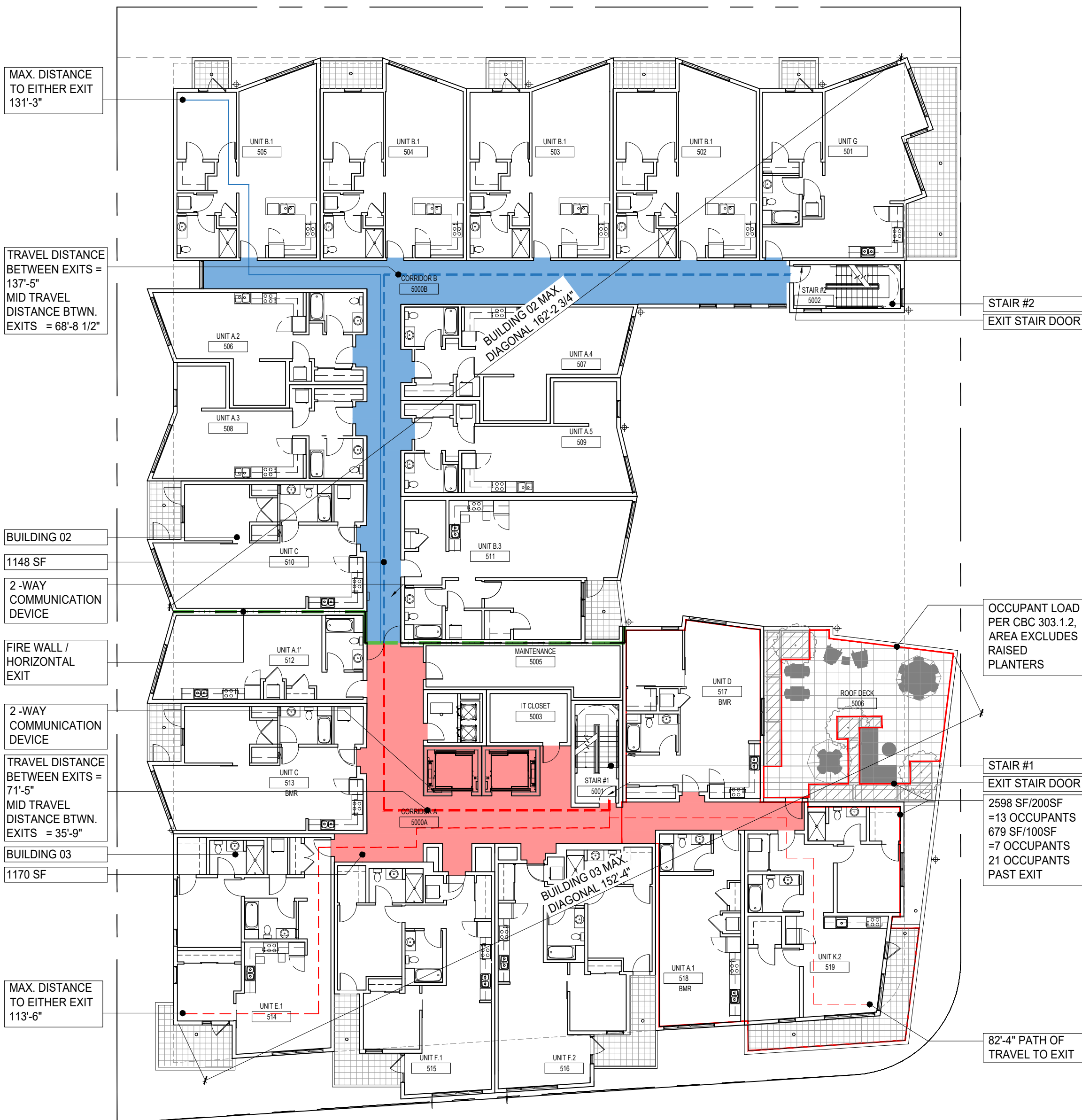
**HORIZONTAL EXIT STANDPIPE**

PER 2022 CBC 905.4 EXCEPTION #2 WHERE FLOOR AREAS ADJACENT TO A HORIZONTAL EXIT ARE REACHABLE FROM AN INTERIOR EXIT STAIR HOSE CONNECTION BY A 30-FOOT HOSE STREAM FROM A NOZZLE ATTACHED TO 100 FEET OF HOSE AS MEASURED ALONG THE PATH OF TRAVEL, A HOSE CONNECTION SHALL NOT BE REQUIRED AT THE HORIZONTAL EXIT.

PROPOSED PROJECT MEETS THAT EXCEPTION.

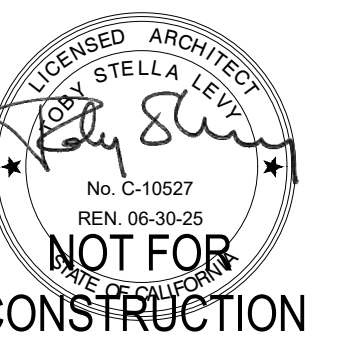
**LEGEND**

- TRAVEL DISTANCE BY BUILDING
- EGRESS PATH
- FIRE WALL / HORIZONTAL EXIT
- CORRIDOR BUILDING 02
- CORRIDOR BUILDING 03



NOTICE: THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY AND COPYRIGHT OF LEVY DESIGN PARTNERS, INC. (LDP ARCHITECTURE) AND SHALL NOT BE USED EXCEPT BY WRITTEN AGREEMENT WITH LEVY DESIGN PARTNERS.

3705 HAVEN AVE  
MENLO PARK, CA



3705 HAVEN AVE  
MENLO PARK, CA

PROJECT NO. 21-07  
PARCEL NO. 055170240

REV	DATE	DESCRIPTION
	04-14-2023	PLANNING & SB330 REV 2
	09-22-2023	PLANNING & SB330 REV 3
	03-20-2024	PLANNING & SB330 REV 4
	06-13-2024	PLANNING & SB330 REV 5
	07-26-2024	PLANNING & SB330 REV 6

CONTACT: TOBY LEVY

(415) 777-0561 P  
(415) 777-5117 F

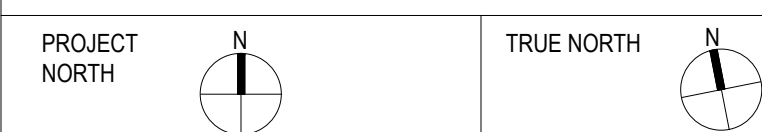
SCALE: AS NOTED

EGRESS PLANS

G0.06C

1 EGRESS PLAN: FIFTH FLOOR  
1/16" = 1'-0"

2 EGRESS PLAN: SIXTH FLOOR  
1/16" = 1'-0"





SEVENTH FLOOR						
OCCUPANT LOAD						
Building 02						
Zone	Room ID	Room Name	Area	Function	Load Factor	# of Occupants
B7.1	7000B, 7002, 701-711	Residential Units, Etc	10,250	Residential	200	52
<b>Total Occupant Load for Building 02</b>						<b>52</b>
Building 03						
Zone	Room ID	Room Name	Area	Function	Load Factor	# of Occupants
C7.1	7000A, 7001, 7003, 7005, 712-719	Residential Units, Etc	9,298	Residential	200	47
<b>Total Occupant Load for Building 03</b>						<b>47</b>
<b>Total Horizontal Exit Refuge Area Occupant Load for Buildings 02+03</b>						<b>99</b>
EXITING CALCULATIONS						
Building 02			Building 03			
Occupant Load			52	Occupant Load	47	
Exits Required			2	Exits Required	2	
Exits Provided			2	Exits Provided	2	
Egress Width Required (inch)			7.80	Egress Width Required (inch)	7.05	
Corridor Width Required			44"	Corridor Width Required	44"	
Corridor Width Provided			48"	Corridor Width Provided	48"	
Min Door Clr. Width Required			32"	Min Door Clr. Width Required	32"	
Min Door Clr. Width Provided			32"	Min Door Clr. Width Provided	32"	
Stair Width Required (inch)			44"	Stair Width Required (inch)	44"	
Stair Width Provided			44"	Stair Width Provided	44"	
Max. Building Diagonal			160'-7"	Max. Building Diagonal	144'-8"	
Required Dist. Between Exits			53'-7"	Required Dist. Between Exits	48'-3"	
Provided Dist. Between Exits			129'-10"	Provided Dist. Between Exits	62'-2"	
Max. Allowed Common Path of Egress Travel (2022 CBC 1006.2)			125'-0"	Max. Allowed Common Path of Egress Travel (2022 CBC 1006.2)	125'-0"	
Max. Provided Common Path of Egress Travel			61'-5"	Max. Provided Common Path of Egress Travel	76'-0"	
Max. Allowed Exit Access Travel Distance (2022 CBC 1017.2)			250'-0"	Max. Allowed Exit Access Travel Distance (2022 CBC 1017.2)	250'-0"	
Provided Travel Distance			126'-4"	Provided Travel Distance	102'-4"	

EIGHTH FLOOR						
OCCUPANT LOAD						
Building 02						
Zone	Room ID	Room Name	Area	Function	Load Factor	# of Occupants
B8.1	8000B, 801-807	Residential Units, Etc	7,837	Residential	200	40
B8.2	8006	Roof Deck	1,607	Unconcentrated Assembly	15	108
<b>Total Occupant Load for Building 02</b>						<b>148</b>
Building 03						
Zone	Room ID	Room Name	Area	Function	Load Factor	# of Occupants
C8.1	8000A, 8001, 8003, 8005, 808-812	Residential Units, Etc.	6,134	Residential	200	31
<b>Total Occupant Load for Building 03</b>						<b>31</b>
<b>Total Horizontal Exit Refuge Area Occupant Load for Buildings 02+03</b>						<b>179</b>
EXITING CALCULATIONS						
Building 02			Building 03			
Occupant Load			148	Occupant Load	31	
Exits Required			2	Exits Required	2	
Exits Provided			2	Exits Provided	2	
Egress Width Required (inch)			22.20	Egress Width Required (inch)	4.65	
Corridor Width Required			44"	Corridor Width Required	44"	
Corridor Width Provided			48"	Corridor Width Provided	48"	
Min Door Clr. Width Required			32"	Min Door Clr. Width Required	32"	
Min Door Clr. Width Provided			32"	Min Door Clr. Width Provided	32"	
Stair Width Required (inch)			44"	Stair Width Required (inch)	44"	
Stair Width Provided			44"	Stair Width Provided	44"	
Max. Building Diagonal			160'-7"	Max. Building Diagonal	117'-3"	
Required Dist. Between Exits			53'-7"	Required Dist. Between Exits	39'-1"	
Provided Dist. Between Exits			SEE PLN	Provided Dist. Between Exits	62'-2"	
Max. Allowed Common Path of Egress Travel (2022 CBC 1006.2)			125'-0"	Max. Allowed Common Path of Egress Travel (2022 CBC 1006.2)	125'-0"	
Max. Provided Common Path of Egress Travel			65'-3"	Max. Provided Common Path of Egress Travel	N/A	
Max. Allowed Exit Access Travel Distance (2022 CBC 1017.2)			250'-0"	Max. Allowed Exit Access Travel Distance (2022 CBC 1017.2)	250'-0"	
Provided Travel Distance			131'-1"	Provided Travel Distance	88'-11"	

**HORIZONTAL EXIT DESCRIPTION AND CALCULATION**

HORIZONTAL EXITS: HORIZONTAL EXIT IS BEING USED AS AN ACCESSIBLE MEANS OF EGRESS FOR PERSONS WITH DISABILITIES IN LIEU OF PROVIDING AN ELEVATOR AS PERMITTED BY 2022 CBC 1009.2.1 EXCEPTION #1

- THE ARRANGEMENT OF EACH HORIZONTAL EXIT PROVIDES EXIT ENCLOSURES ON EACH SIDE OF THE HORIZONTAL EXIT THAT ARE CAPABLE OF ACCOMMODATING THE TOTAL OCCUPANT LOAD OF EACH FLOOR
  - THE HORIZONTAL EXIT WILL BE REQUIRED EXCLUSIVELY FOR DISABLED OCCUPANTS
    - EACH SIDE OF THE HORIZONTAL EXIT CONTAINS SPACE FOR MULTIPLE WHEEL CHAIR USERS WITH A CLEAR AREA OF 30"x42" ADJACENT TO THE 2-WAY EMERGENCY COMMUNICATION DEVICE.
- CALCULATIONS:
- FOR OCCUPANT LOAD PER FLOOR SEE MATRICES
  - FOR REQUIRED AND PROVIDED STAIR WIDTH SEE MATRICES FOR EACH FLOOR

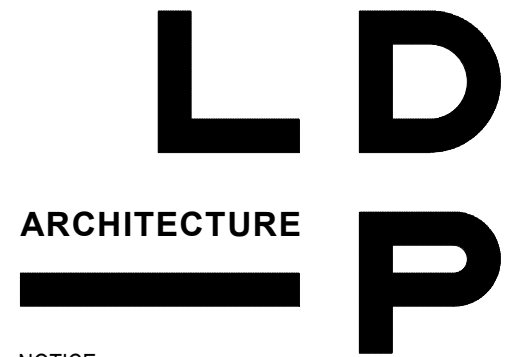
**HORIZONTAL EXIT STANDPIPE**

PER 2022 CBC 905.4 EXCEPTION #2 WHERE FLOOR AREAS ADJACENT TO A HORIZONTAL EXIT ARE REACHABLE FROM AN INTERIOR EXIT STAIR HOSE CONNECTION BY A 30-FOOT HOSE STREAM FROM A NOZZLE ATTACHED TO 100 FEET OF HOSE AS MEASURED ALONG THE PATH OF TRAVEL. A HOSE CONNECTION SHALL NOT BE REQUIRED AT THE HORIZONTAL EXIT.

PROPOSED PROJECT MEETS THAT EXCEPTION.

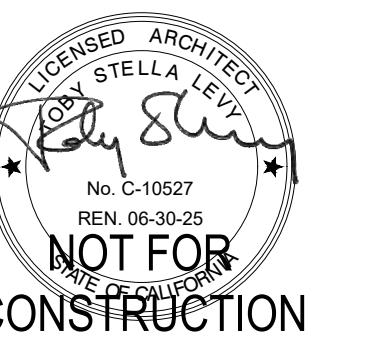
**LEGEND**

- TRAVEL DISTANCE BY BUILDING
- EGRESS PATH
- FIRE WALL / HORIZONTAL EXIT
- CORRIDOR BUILDING 02
- CORRIDOR BUILDING 03



NOTICE: THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY AND COPYRIGHT OF LEVY DESIGN PARTNERS, INC. (LDP ARCHITECTURE) AND SHALL NOT BE USED EXCEPT BY WRITTEN AGREEMENT WITH LEVY DESIGN PARTNERS.

3705 HAVEN AVE  
MENLO PARK, CA



3705 HAVEN AVE  
MENLO PARK, CA

PROJECT NO. 21-07  
PARCEL NO. 055170240

REV	DATE	DESCRIPTION
	04-14-2023	PLANNING & SB330 REV 2
	09-22-2023	PLANNING & SB330 REV 3
	03-20-2024	PLANNING & SB330 REV 4
	06-13-2024	PLANNING & SB330 REV 5
	07-26-2024	PLANNING & SB330 REV 6

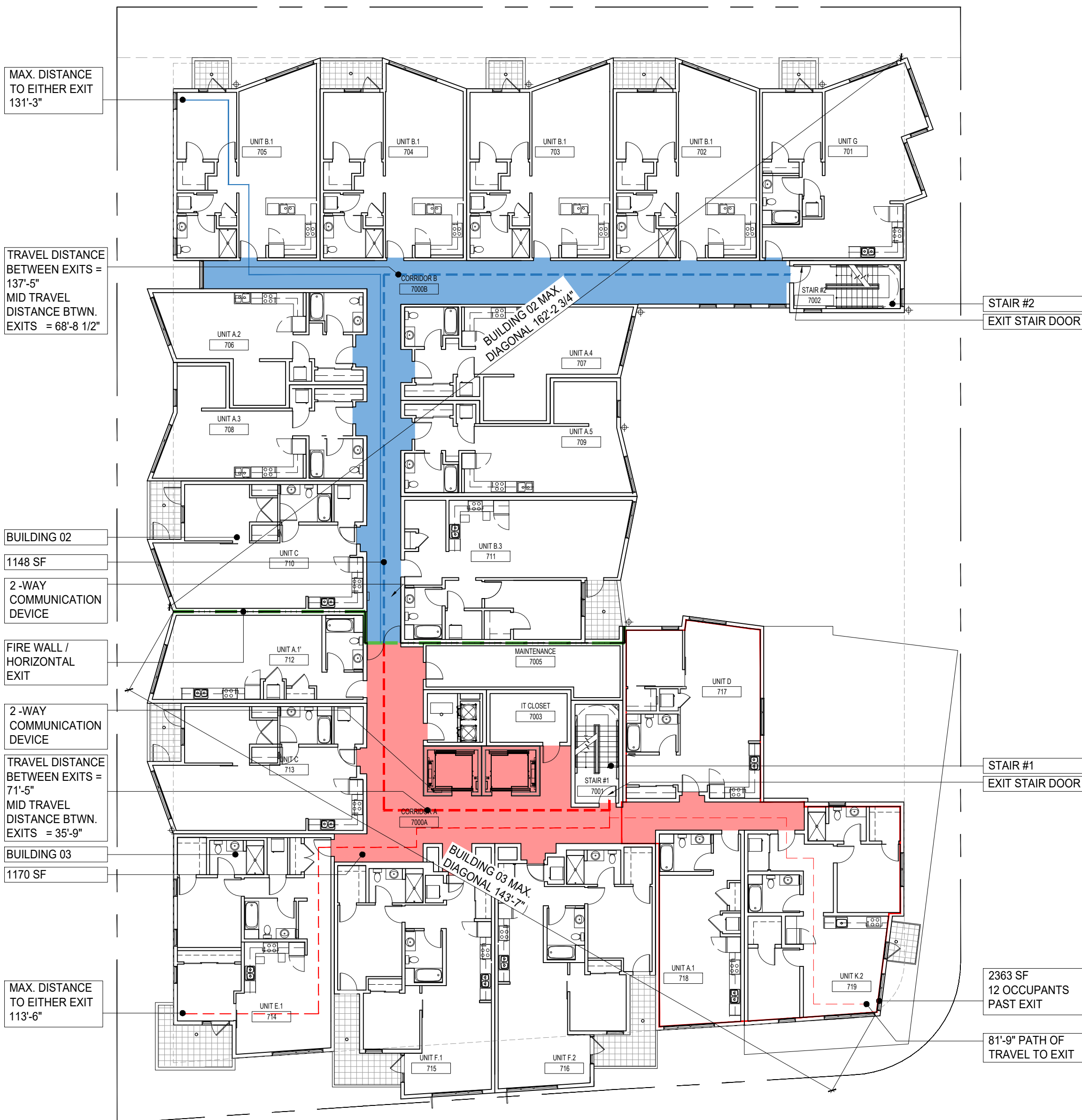
CONTACT: TOBY LEVY

(415) 777-0561 P  
(415) 777-5117 F

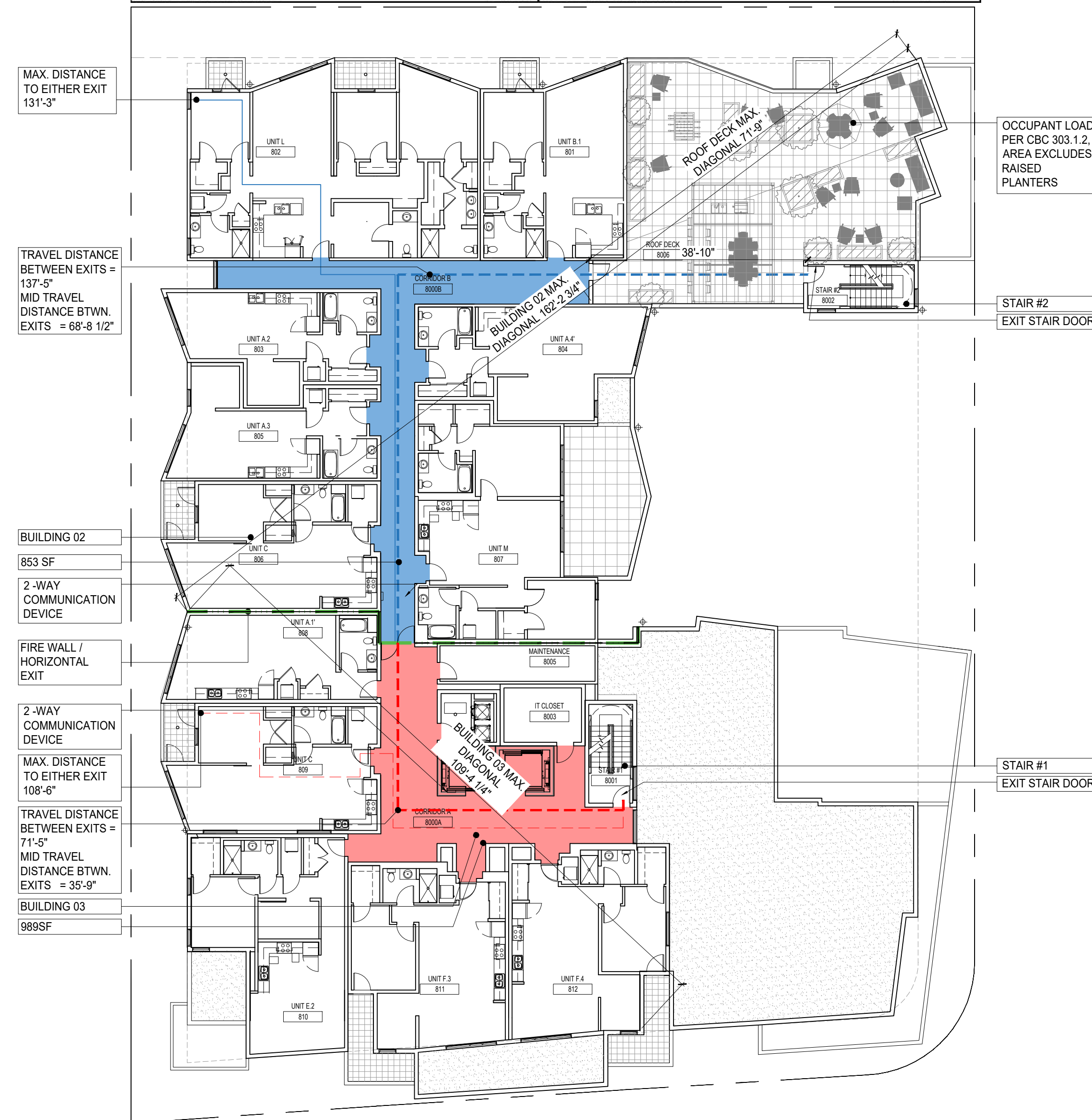
SCALE: AS NOTED

EGRESS PLANS

G0.06D



1 EGRESS PLAN: SEVENTH FLOOR  
1/16" = 1'-0"



2 EGRESS PLAN: EIGHTH FLOOR  
1/16" = 1'-0"



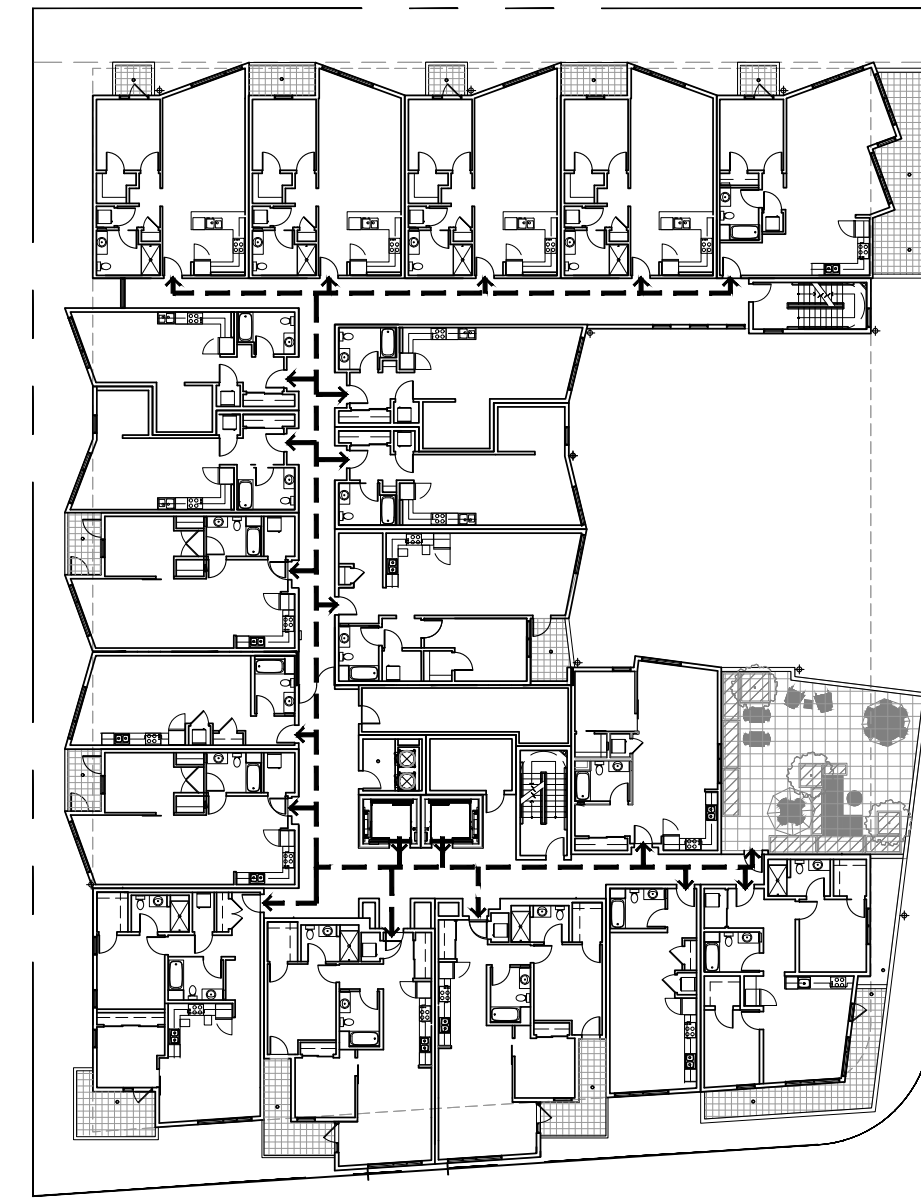
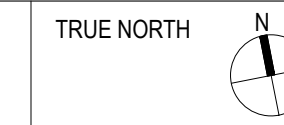
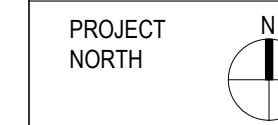


**ACCESSIBILITY NOTES**

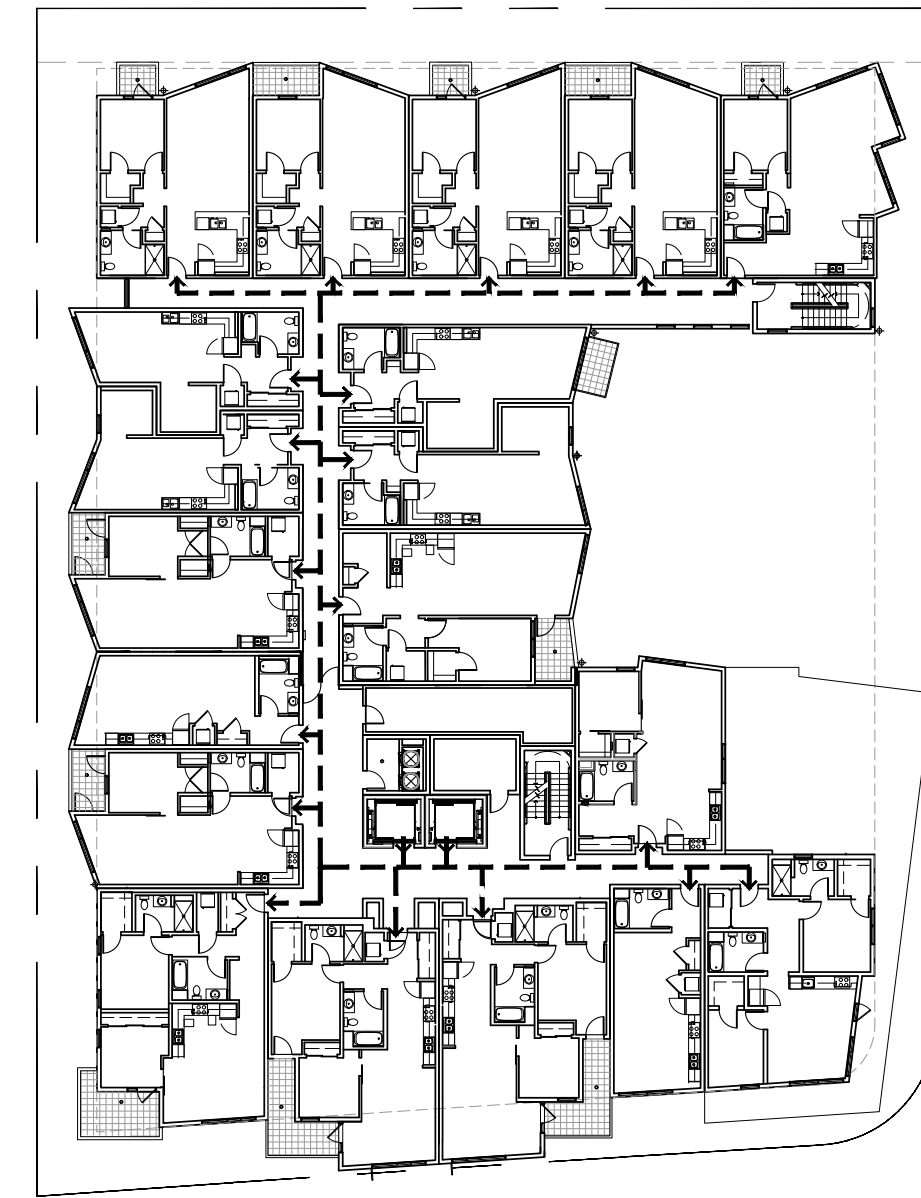
1. ACCESSIBLE PATH OF TRAVEL (P.O.T.) AS INDICATED ON PLANS IS A BARRIER FREE ACCESS ROUTE WITHOUT ANY ABRUPT LEVEL CHANGES EXCEEDING 1/2" IF BEVELED AT 1:2 MAX. SLOPE, OR VERTICAL LEVEL CHANGES NOT EXCEEDING 1/4" MAX. ALL ACCESSIBLE ROUTES OF TRAVEL TO BE AT LEAST 44" WIDE. SURFACE IS STABLE, FIRM & SLIP RESISTANT. CROSS SLOPE DOES NOT EXCEED 2% AND SLOPE IN THE DIRECTION OF TRAVEL IS LESS THAN 5% U.O.N.
2. WHEN THE SLOPE IN THE DIRECTION OF TRAVEL OF ANY WALK EXCEED 1:20, IT SHALL COMPLY WITH THE PROVISIONS FOR PEDESTRIAN RAMPS.
3. WALKS, SIDEWALKS AND PEDESTRIAN WAYS SHALL BE FREE OF GRATINGS WHERE EVER POSSIBLE. FOR GRATINGS LOCATED IN THE SURFACE OF THESE AREAS, GRID OPENINGS SHALL BE LIMITED TO 1/2" IN THE DIRECTION OF TRAVEL FLOW.
4. SURFACES WITH A SLOPE OF LESS THAN 6% GRADIENT SHALL BE AT LEAST AS SLIP-RESISTANT AS THAT DESCRIBED AS A MEDIUM SALT FINISH AND HEAVY BROOM FINISH FOR SLOPES GREATER THAN 6%.
5. ACCESSIBLE ROUTES OF TRAVEL SHALL BE MAINTAINED FREE OF OVERHANGING OBSTRUCTIONS TO 80" MINIMUM AND PROTRUDING OBJECTS GREATER THAN 4" PROJECTION FROM WALL AND ABOVE 27" AND LESS THAN 80".
6. SEE G1 SERIES FOR TYPICAL ACCESSIBILITY DETAILS.
7. ALL REQUIRED ACCESSIBLE DOORS TO HAVE A 32" CLEAR OPENING MEASURED WITH THE DOOR POSITIONED AT AN ANGLE OF 90 DEGREES FROM ITS CLOSED POSITION.

**LEGEND**

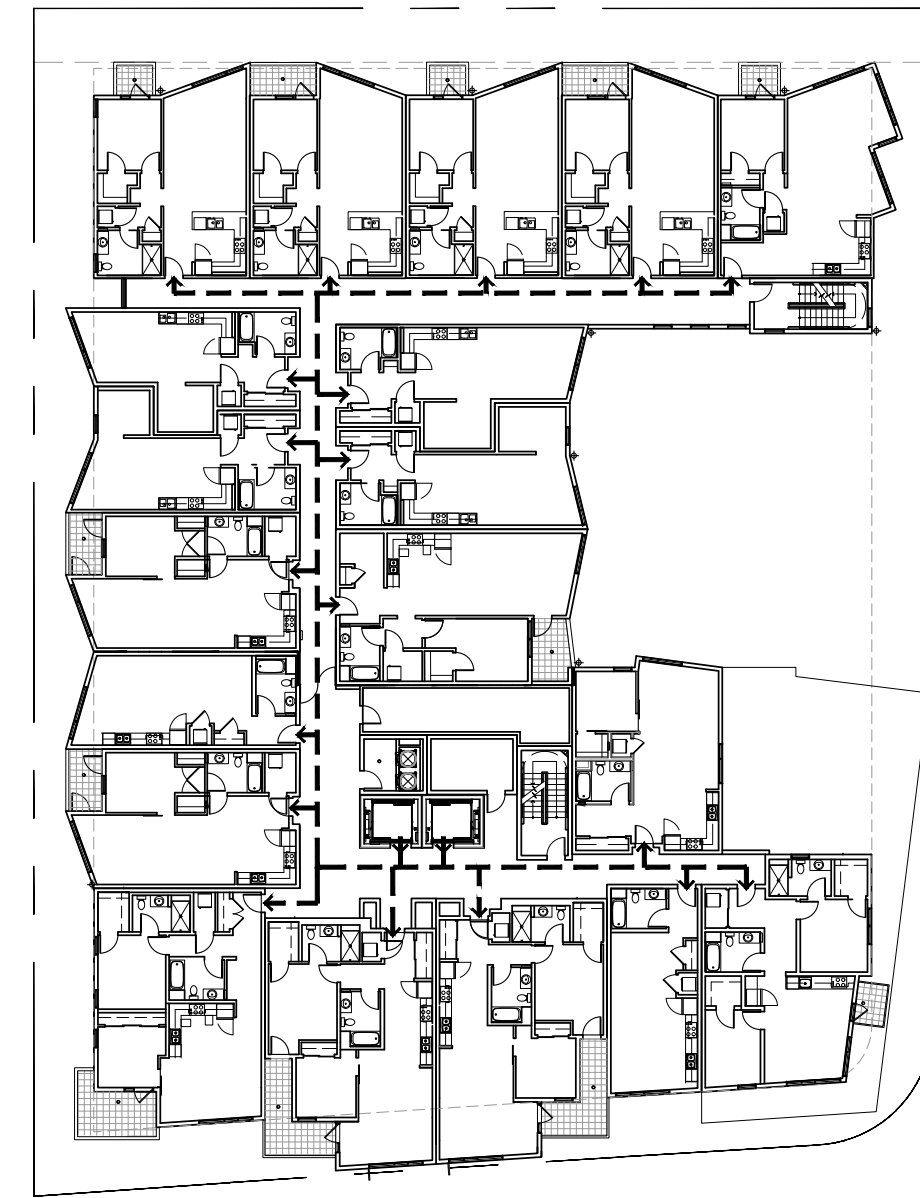
- PROPERTY LINE
- - - - - ACCESSIBLE PATH OF TRAVEL (P.O.T.)



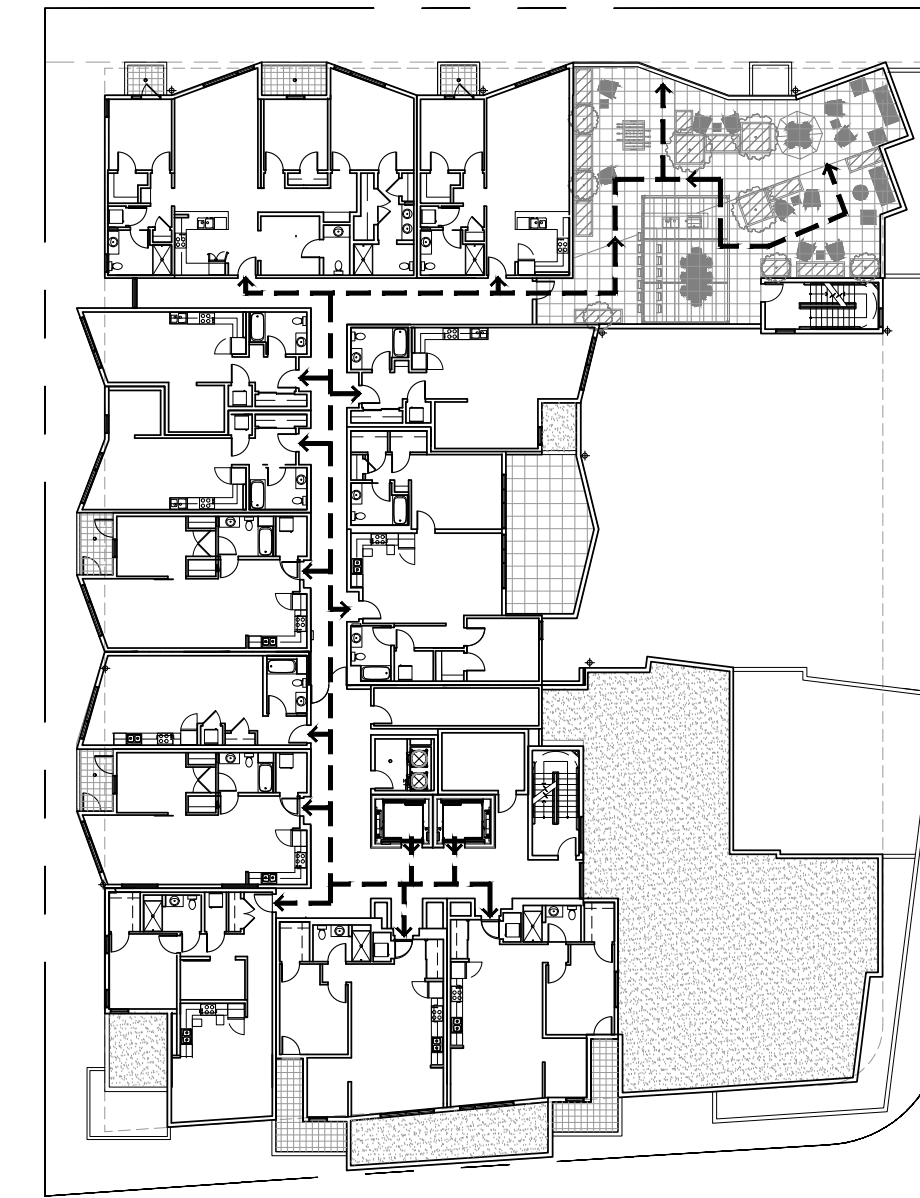
**5** BUILDING AREA: FIFTH FLOOR  
1/32" = 1'-0"



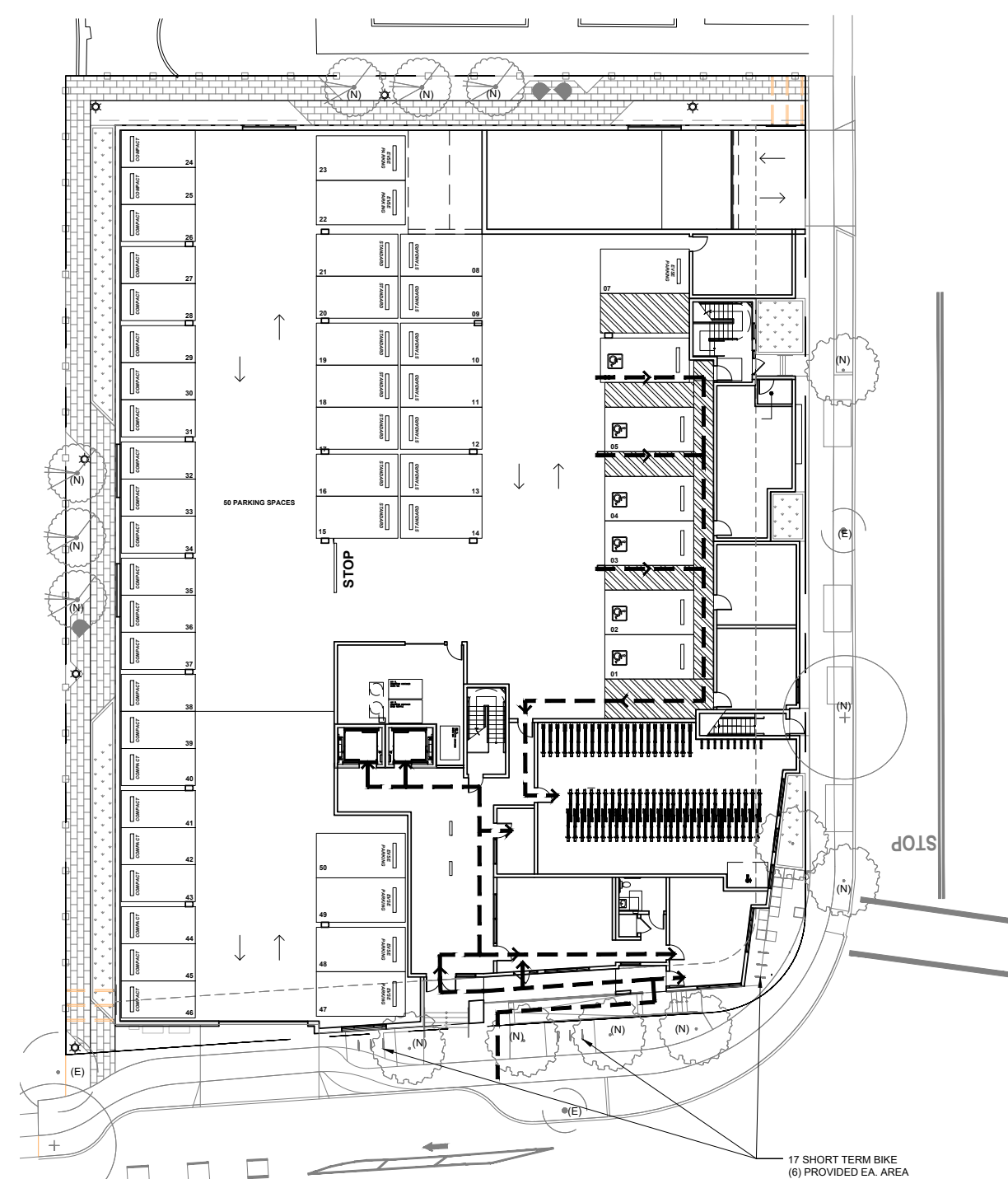
**6** BUILDING AREA: SIXTH FLOOR  
1/32" = 1'-0"



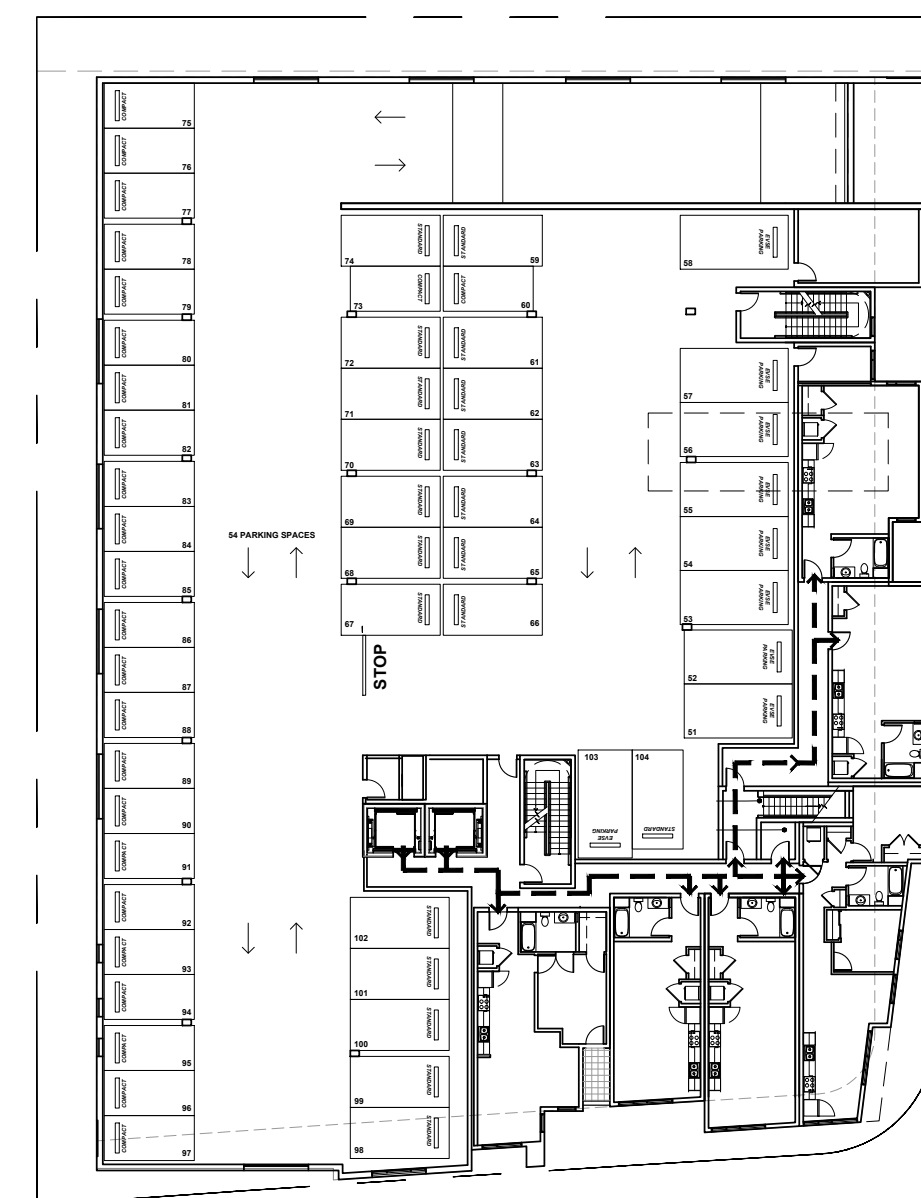
**7** BUILDING AREA: SEVENTH FLOOR  
1/32" = 1'-0"



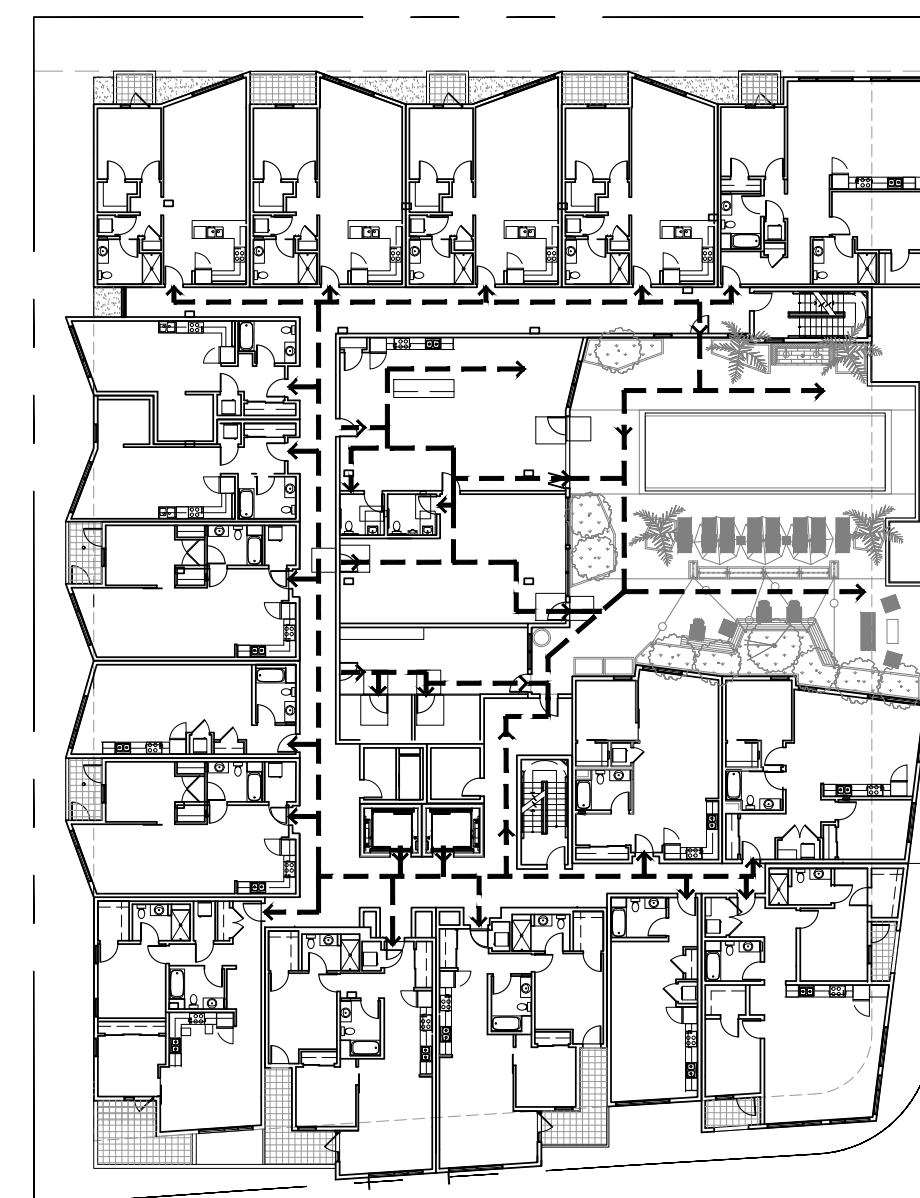
**8** BUILDING AREA: ROOF  
1/32" = 1'-0"



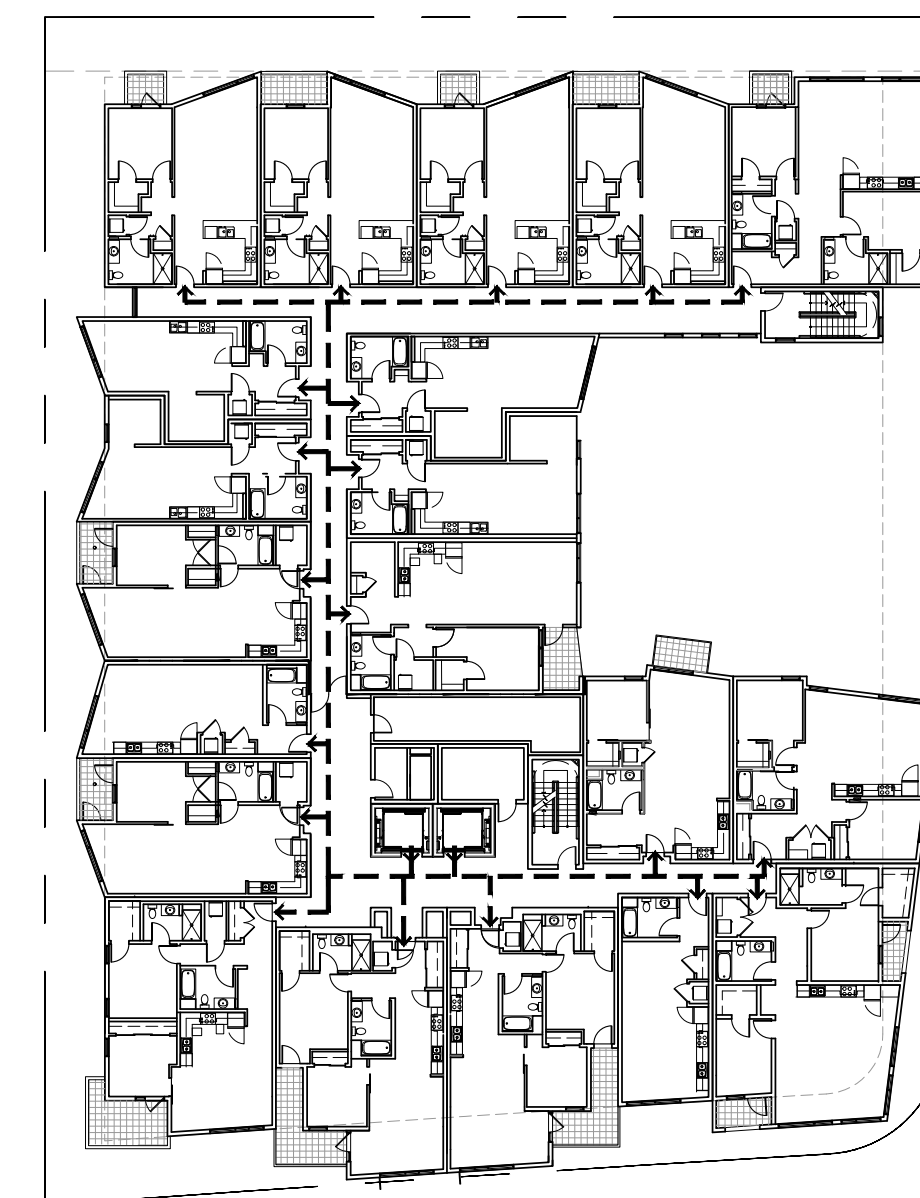
**1** BUILDING AREA: GROUND FLOOR  
1/32" = 1'-0"



**2** BUILDING AREA: SECOND FLOOR  
1/32" = 1'-0"



**3** BUILDING AREA: THIRD FLOOR  
1/32" = 1'-0"



**4** BUILDING AREA: FOURTH FLOOR  
1/32" = 1'-0"

**3705 HAVEN AVE  
MENLO PARK, CA**



3705 HAVEN AVE  
MENLO PARK, CA

PROJECT NO. 21-07  
PARCEL NO. 055170240

REV	DATE	DESCRIPTION
	04-14-2023	PLANNING & SB330 REV 2
	09-22-2023	PLANNING & SB330 REV 3
	03-20-2024	PLANNING & SB330 REV 4
	06-13-2024	PLANNING & SB330 REV 5
	07-26-2024	PLANNING & SB330 REV 6

CONTACT: TOBY LEVY

(415) 777-0561 P  
(415) 777-5117 F

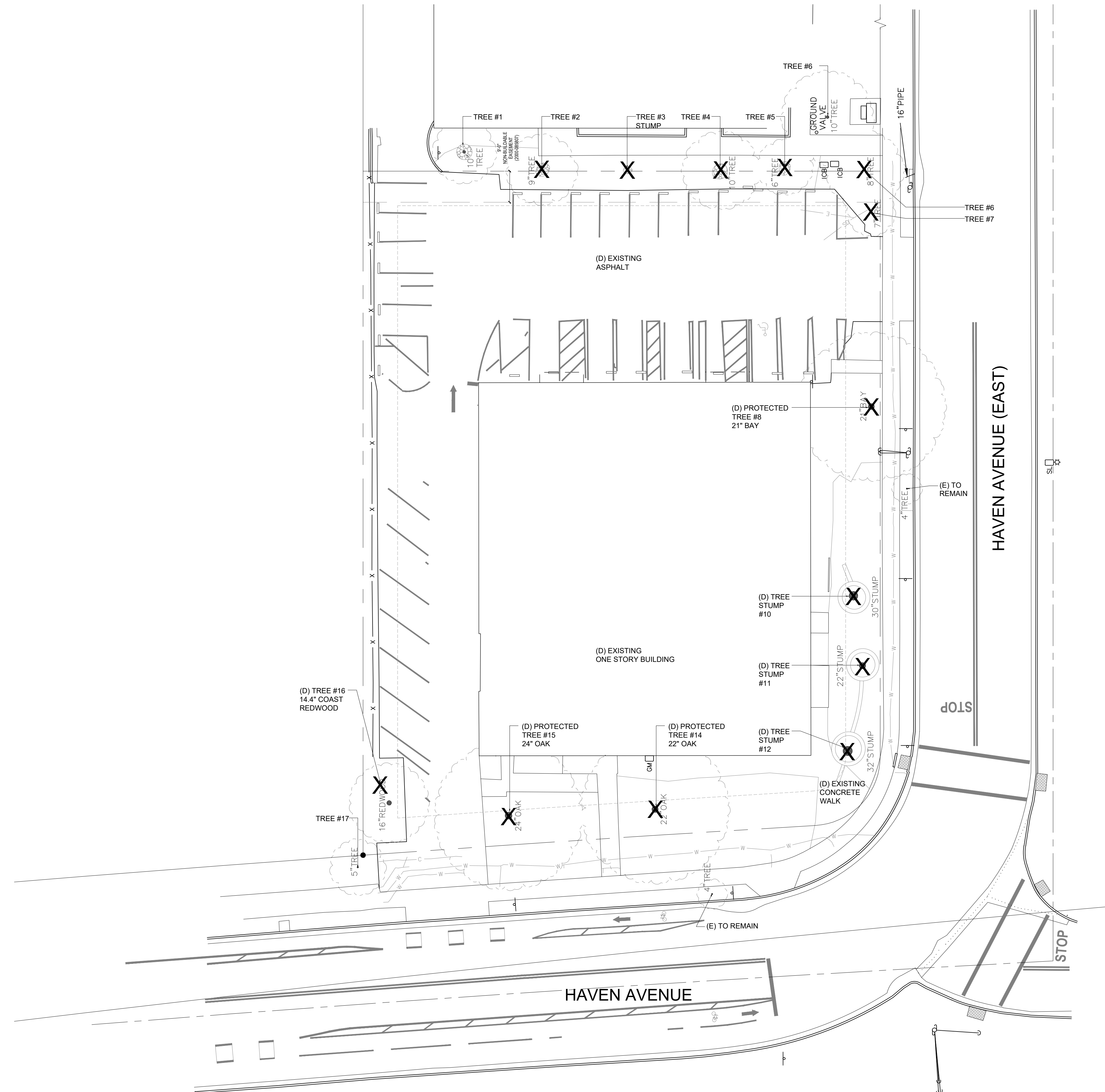
SCALE:  
**AS NOTED**

**ACCESS  
PLANS**

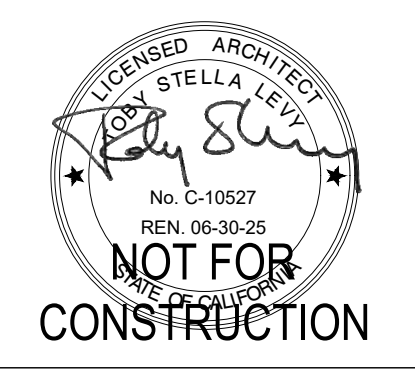
**G0.07A**

**GENERAL NOTES**

1. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL AND/OR PROTECTION OF THE EXISTING ITEMS AS NOTED IN THIS PLAN.
2. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO AVOID PROPERTY DAMAGE TO ADJACENT PROPERTIES DURING THE CONSTRUCTION PHASES OF THIS PROJECT. THE CONTRACTOR WILL BE HELD SOLELY RESPONSIBLE FOR ANY AND ALL DAMAGES.
3. CONTRACTOR IS TO DISPOSE OF ALL MATERIAL RESULTING FROM PREVIOUS AND CURRENT DEMOLITION IN ACCORDANCE WITH ALL LOCAL, STATE, AND/OR FEDERAL LAWS.
4. THE CONTRACTOR IS CAUTIONED TO LOCATE ALL EXISTING UTILITIES AND CONFLICTS. CONTRACTOR SHALL CONTACT THE APPROPRIATE UTILITY COMPANY AT LEAST 72 HOURS BEFORE ANY CONSTRUCTION ACTIVITY IN ORDER TO FIELD VERIFY EXISTING UTILITY INFORMATION.
5. LOCATION OF EXISTING ON-SITE UNDERGROUND UTILITIES HAVE NOT BEEN SURVEYED. EXACT LOCATIONS OF ALL UTILITIES MUST BE LOCATED IN THE FIELD BY THE CONTRACTOR. PROTECT ALL EXISTING UTILITIES IN PLACE.
6. CONTRACTOR TO CAP EXISTING WATER LINES AT THE PROPERTY LINE FOR FUTURE USE. CONTRACTOR TO VERIFY LOCATION, SIZE AND DEPTH AND PROVIDE TO ENGINEER.
7. CONTRACTOR TO PROTECT EXISTING STREET LIGHTS & POSTS, TRAFFIC SIGNALS & POSTS, TRAFFIC CONTROL DEVICES, SIGNS AND UTILITY BOXES IN THE SIDEWALK, UNLESS OTHERWISE NOTED.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING DEMOLITION PERMITS AS REQUIRED FROM THE CITY OF OAKLAND, OR ANY OTHER AGENCY HAVING JURISDICTION.
9. CONTRACTOR SHALL FOLLOW ALL JURISDICTIONAL AIR QUALITY AND WASTE/RECYCLING REQUIREMENTS.



**3705 HAVEN AVE  
MENLO PARK, CA**



3705 HAVEN AVE  
MENLO PARK, CA  
PROJECT NO. 21-07  
PARCEL NO. 055170240

REV	DATE	DESCRIPTION
	04-14-2023	PLANNING & SB330 REV 2
	09-22-2023	PLANNING & SB330 REV 3
	03-20-2024	PLANNING & SB330 REV 4
	06-13-2024	PLANNING & SB330 REV 5
	07-26-2024	PLANNING & SB330 REV 6

CONTACT: TOBY LEVY

(415) 777-0561 P  
(415) 777-5117 F

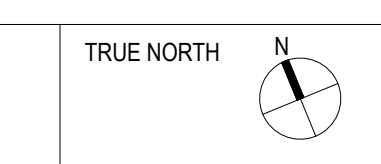
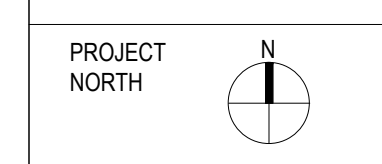
SCALE: AS NOTED

**SITE PLAN  
EXISTING /  
DEMOLITION**

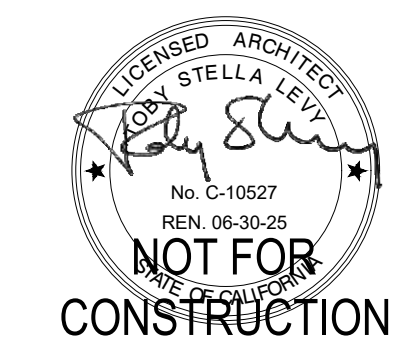
**A1.00**

**LEGEND**

- x - x - x - x - x - FENCE
- - - - - PROPERTY LINE
- X TREE TO BE REMOVED, SEE L-4 FOR MORE INFORMATION







3705 HAVEN AVE  
MENLO PARK, CA

PROJECT NO. 21-07  
PARCEL NO. 055170240

REV | DATE | DESCRIPTION

04-14-2023	PLANNING & SB330 REV 2
09-22-2023	PLANNING & SB330 REV 3
03-20-2024	PLANNING & SB330 REV 4
06-13-2024	PLANNING & SB330 REV 5
07-26-2024	PLANNING & SB330 REV 6

CONTACT: TOBY LEVY

(415) 777-0561 P  
(415) 777-5117 F

SCALE:  
**AS NOTED**

**SITE PLAN  
PROPOSED**

**A1.01**

**GENERAL NOTES**

- SEE CIVIL, LANDSCAPE, MECHANICAL, PLUMBING, ELECTRICAL & STRUCTURAL DRAWINGS FOR ADDITIONAL SCOPE OF WORK.
- SEE G1 SERIES FOR ADDITIONAL CLEARANCES & DETAIL NOT SHOWN
- SEE A3 SERIES FOR LOCATION OF EXTERIOR WALL FINISH TRANSITIONS
- SEE A5 SERIES FOR UNIT DIMENSIONS, UNIT WALL TYPES, UNIT DOOR TAGS AND UNIT REFLECTED CEILING PLANS
- SEE A8 SERIES FOR WALL, FLOOR & ROOF ASSEMBLIES
- SEE A9 SERIES FOR DOOR, WINDOW & FINISH SCHEDULES
- SEE A10 SERIES FOR TYPICAL FOUNDATION DETAILS
- SEE A11 SERIES FOR GENERAL ACOUSTICAL DETAILS
- PROVIDE 1 HOUR CONSTRUCTION WITH SOUND INSULATION BETWEEN RESIDENTIAL UNITS AND BETWEEN RESIDENTIAL UNITS AND PUBLIC AREAS (50 STC MIN.) PER 2016 CBC SECTION 1206.
- CONTRACTOR TO PROVIDE SOLID & CONTINUOUS BACKING FOR ALL WALL MTD. FIXTURES, ACCESSORIES, MILLWORK, EQUIPMENT RACKS, SHELVING, ETC. ALL BLOCKING TO BE SAME GAUGE AS FRAMING OR GREATER.
- EXHAUST SHAFTS SHALL COMPLY WITH 2022 CBC SECTION 713, PROTECTED BY APPROVED FIRE DAMPERS, S.M.D. FOR MORE INFORMATION.
- ALL PENETRATIONS SHALL CONFORM PER 2022 CBC SECTION 714; SEE SHEET A11 SERIES FOR MORE INFORMATION
- ALL HABITABLE ROOMS SHALL BE HEATED PER 2022 CBC 1203
- ALL UNITS TO HAVE UNIT ENTRY SIGNAGE
- PROVIDE FLOOR DRAINS, SLOPE 1/4" FOOT.
- PAINT ALL EXPOSED MECHANICAL, PLUMBING, ELECTRICAL AND FIRE LINES THROUGHOUT
- ALL STRUCTURAL COLUMNS & POSTS, AND THEIR CONNECTION TO OTHER STRUCTURAL MEMBERS, ARE TO BE FIRE RATED. IF COLUMNS & POSTS ARE WITHIN WALLS, COLUMNS & POSTS TO BE INDIVIDUALLY ENCASED IN GYP. BD. IF COLUMNS & POSTS ARE EXPOSED, COLUMNS & POSTS TO BE SPRAYED WITH INTUMESCENT PAINT. SEE A8 SERIES FOR ADDITIONAL DETAILS.
- 5 LB. CLASS ABC FIRE EXTINGUISHER SPACED SO THAT EVERY INTERIOR SPACE IS WITHIN 75' TO AN EXTINGUISHER. CABINET TO NOT PROTRUDE MORE THAN 4" INTO WALKWAYS. SEE A11 SERIES FOR RECESS CABINET INSTALLATION DETAIL
- BUILDING IS REQUIRED TO MEET 2022 CBC SECTION 1206 SOUND TRANSMISSION REQUIREMENTS.

**SHEET NOTES**

- REPLACE (E) SIDEWALK CONCRETE, CURB & GUTTER; S.C.D. & S.L.D.
- PROPERTY LINE; S.C.D.
- (N) CURB CUT; S.C.D.
- (N) STREET TREE; S.L.D.
- (E) STREET TREE TO REMAIN; S.L.D.
- (N) PAVING; TYP. THROUGHOUT, S.L.D.
- (N) LANDSCAPING; TYP. THROUGHOUT, S.L.D.
- (N) FENCING; TYP. THROUGHOUT, S.L.D.
- BUILDING INTERCOM SYSTEM; S.E.D.
- (N) ENTRY STAIRS & RAMP; S.L.D.
- SHORT TERM BIKE PARKING; S.L.D.
- LONG TERM BIKE PARKING; S.L.D.
- 42" GUARD
- FLOOR/ROOF ABOVE, TYP.
- BUILDING EDGE BELOW, TYP.
- ROOF, SLOPE MIN. 1/4" PER FT TO DRAIN; SEE A8 SERIES
- NO ROOF OPENINGS WITHIN 4' OF FIREWALL. ALL ROOF SHEATHING WITHIN 4' OF FIREWALL TO BE FRT
- OCCUPIABLE DECK; S.L.D.
- NON-OCCUPIABLE ROOF
- MECHANICAL & PLUMBING EQUIPMENT; S.M.D. & S.P.D.
- ELECTRICAL METERS; S.E.D.
- GSM GUTTER, PAINT; S.P.D.
- GSM DOWNSPOUT, PAINT; S.P.D.
- RECESSED FIRE EXTINGUISHER 5LB, CLASS ABC, SEE DETAIL 19/A11.04
- 2-WAY EMERGENCY COMMUNICATION SYSTEM; WIRING IN 2 HR. RATED CONDUIT
- MAILBOX AND PACKAGE SYSTEM

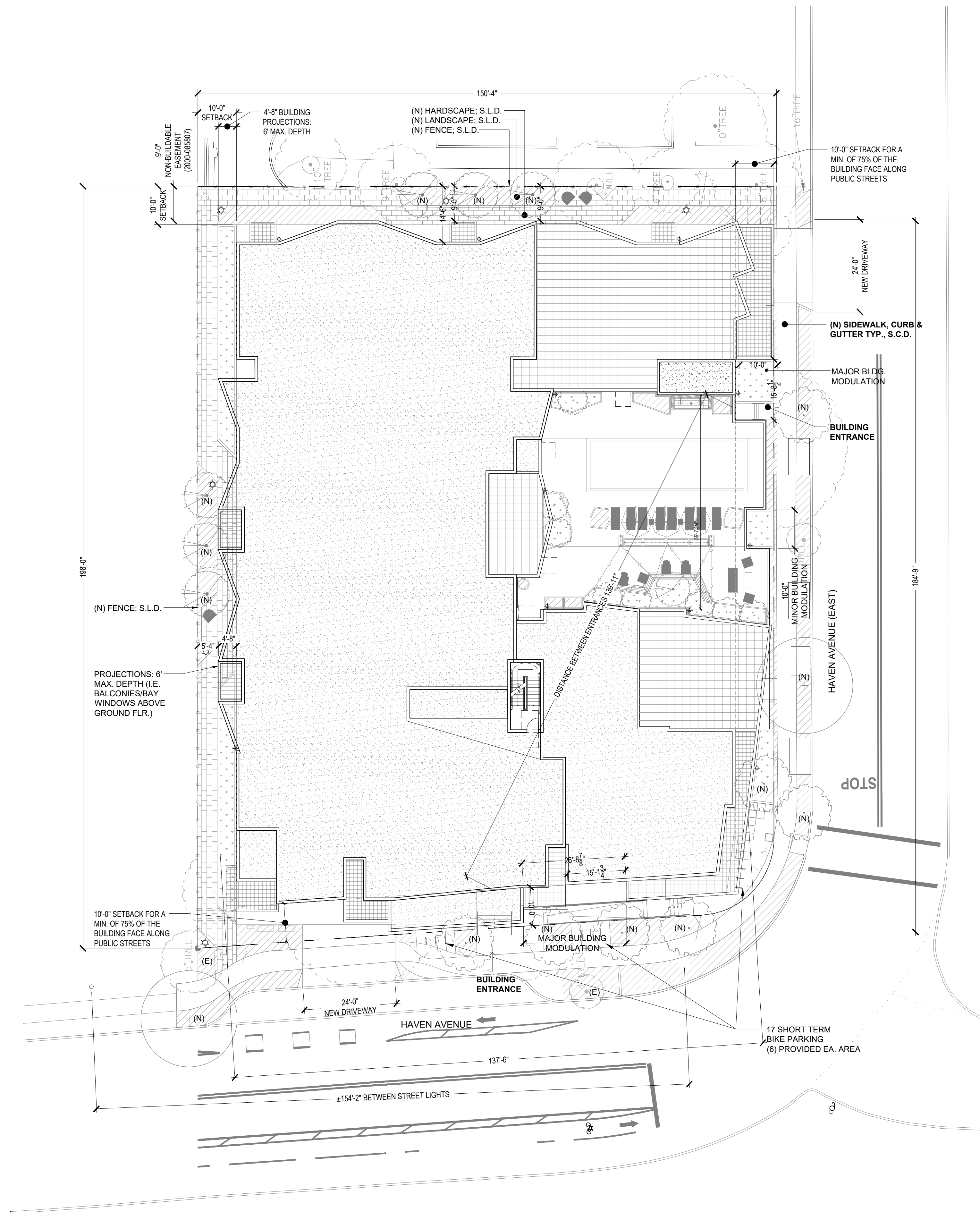
**LEGEND**

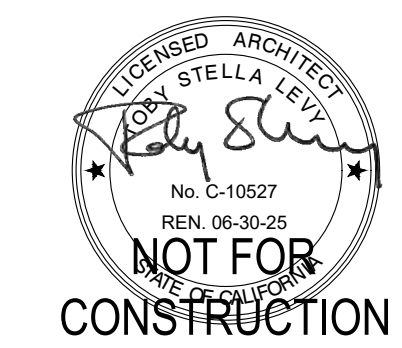
---	PROPERTY LINE	○	DRAIN
---	1-HR. FIRE RATED WALL	⊕	DOWNSPOUT
---	2-HR. FIRE RATED WALL	→	ROOF SLOPE
---	3-HR. FIRE RATED WALL	⊠	WALL ASSEMBLY, SEE A8 SERIES
---	NON-OCCUPIABLE ROOF		
---	ROOF PAVERS, OCCUPIED ROOF; SEE A2 SERIES		
---	HARDSCAPE AREA, S.L.D.	---	ACCESSIBLE DRIVE AISLE, 8'-2" MIN. VERTICAL CLR.
---	LANDSCAPE AREA, S.L.D.		

**DIMENSION NOTES**

- WALL FRAMING: ALL DIMENSIONS ARE TO FACE OF STUD, U.O.N.
- SEE ENLARGED PLANS/DETAILS FOR DIMENSIONS NOT SHOWN HERE.

PROJECT NORTH		TRUE NORTH	
---------------	--	------------	--





3705 HAVEN AVE  
MENLO PARK, CA

PROJECT NO. 21-07  
PARCEL NO. 055170240

REV | DATE | DESCRIPTION

04-14-2023	PLANNING & SB330 REV 2
09-22-2023	PLANNING & SB330 REV 3
03-20-2024	PLANNING & SB330 REV 4
06-13-2024	PLANNING & SB330 REV 5
07-26-2024	PLANNING & SB330 REV 6

CONTACT: TOBY LEVY

(415) 777-0561 P  
(415) 777-5117 F

SCALE: AS NOTED

**GROUND FLOOR PLAN**

**A2.01**

**GENERAL NOTES**

- SEE CIVIL, LANDSCAPE, MECHANICAL, PLUMBING, ELECTRICAL & STRUCTURAL DRAWINGS FOR ADDITIONAL SCOPE OF WORK.
- SEE G1 SERIES FOR ADDITIONAL CLEARANCES & DETAIL NOT SHOWN
- SEE A3 SERIES FOR LOCATION OF EXTERIOR WALL FINISH TRANSITIONS
- SEE A5 SERIES FOR UNIT DIMENSIONS, UNIT WALL TYPES, UNIT DOOR TAGS AND UNIT REFLECTED CEILING PLANS
- SEE A8 SERIES FOR WALL, FLOOR & ROOF ASSEMBLIES
- SEE A9 SERIES FOR DOOR, WINDOW & FINISH SCHEDULES
- SEE A10 SERIES FOR TYPICAL FOUNDATION DETAILS
- SEE A11 SERIES FOR GENERAL ACOUSTICAL DETAILS
- PROVIDE 1 HOUR CONSTRUCTION WITH SOUND INSULATION BETWEEN RESIDENTIAL UNITS AND BETWEEN RESIDENTIAL UNITS AND PUBLIC AREAS (50 STC MIN.) PER 2016 CBC SECTION 1206.
- CONTRACTOR TO PROVIDE SOLID & CONTINUOUS BACKING FOR ALL WALL MTD. FIXTURES, ACCESSORIES, MILLWORK, EQUIPMENT RACKS, SHELVING, ETC. ALL BLOCKING TO BE SAME GAUGE AS FRAMING OR GREATER.
- EXHAUST SHAFTS SHALL COMPLY WITH 2022 CBC SECTION 713, PROTECTED BY APPROVED FIRE DAMPERS, S.M.D. FOR MORE INFORMATION.
- ALL PENETRATIONS SHALL CONFORM PER 2022 CBC SECTION 714; SEE SHEET A11 SERIES FOR MORE INFORMATION
- ALL HABITABLE ROOMS SHALL BE HEATED PER 2022 CBC 1203
- ALL UNITS TO HAVE UNIT ENTRY SIGNAGE
- PROVIDE FLOOR DRAINS, SLOPE 1/4" FOOT.
- PAINT ALL EXPOSED MECHANICAL, PLUMBING, ELECTRICAL AND FIRE LINES THROUGHOUT
- ALL STRUCTURAL COLUMNS & POSTS, AND THEIR CONNECTION TO OTHER STRUCTURAL MEMBERS, ARE TO BE FIRE RATED. IF COLUMNS & POSTS ARE WITHIN WALLS, COLUMNS & POSTS TO BE INDIVIDUALLY ENCASED IN GYP. BD. IF COLUMN & POSTS ARE EXPOSED, COLUMNS & POSTS TO BE SPRAYED WITH INTUMESCENT PAINT. SEE A8 SERIES FOR ADDITIONAL DETAILS.
- 5 LB. CLASS ABC FIRE EXTINGUISHER SPACED SO THAT EVERY INTERIOR SPACE IS WITHIN 75' TO AN EXTINGUISHER. CABINET TO NOT PROTRUDE MORE THAN 4" INTO WALKWAYS. SEE A11 SERIES FOR RECESS CABINET INSTALLATION DETAIL
- BUILDING IS REQUIRED TO MEET 2022 CBC SECTION 1206 SOUND TRANSMISSION REQUIREMENTS.

**SHEET NOTES**

- REPLACE (E) SIDEWALK CONCRETE, CURB & GUTTER; S.C.D. & S.L.D.
- PROPERTY LINE; S.C.D.
- (N) CURB CUT; S.C.D.
- (N) STREET TREE; S.L.D.
- (E) STREET TREE TO REMAIN; S.L.D.
- (N) PAVING; TYP. THROUGHOUT, S.L.D.
- (N) LANDSCAPING; TYP. THROUGHOUT, S.L.D.
- (N) FENCING; TYP. THROUGHOUT, S.L.D.
- BUILDING INTERCOM SYSTEM; S.E.D.
- (N) ENTRY STAIRS & RAMP; S.L.D.
- SHORT TERM BIKE PARKING; S.L.D.
- LONG TERM BIKE PARKING; S.L.D.
- 42" GUARD
- FLOOR/ROOF ABOVE, TYP.
- BUILDING EDGE BELOW, TYP.
- ROOF, SLOPE MIN. 1/4" PER FT TO DRAIN; SEE A8 SERIES
- NO ROOF OPENINGS WITHIN 4' OF FIREWALL. ALL ROOF SHEATHING WITHIN 4' OF FIREWALL TO BE FRT
- OCCUPIABLE DECK; S.L.D.
- NON-OCCUPIABLE ROOF
- MECHANICAL & PLUMBING EQUIPMENT; S.M.D. & S.P.D.
- ELECTRICAL METERS; S.E.D.
- GSM GUTTER, PAINT; S.P.D.
- GSM DOWNSPOUT, PAINT; S.P.D.
- RECESSED FIRE EXTINGUISHER 5LB. CLASS ABC. SEE DETAIL 19/A11.04
- 2-WAY EMERGENCY COMMUNICATION SYSTEM; WIRING IN 2 HR. RATED CONDUIT
- MAILBOX AND PACKAGE SYSTEM

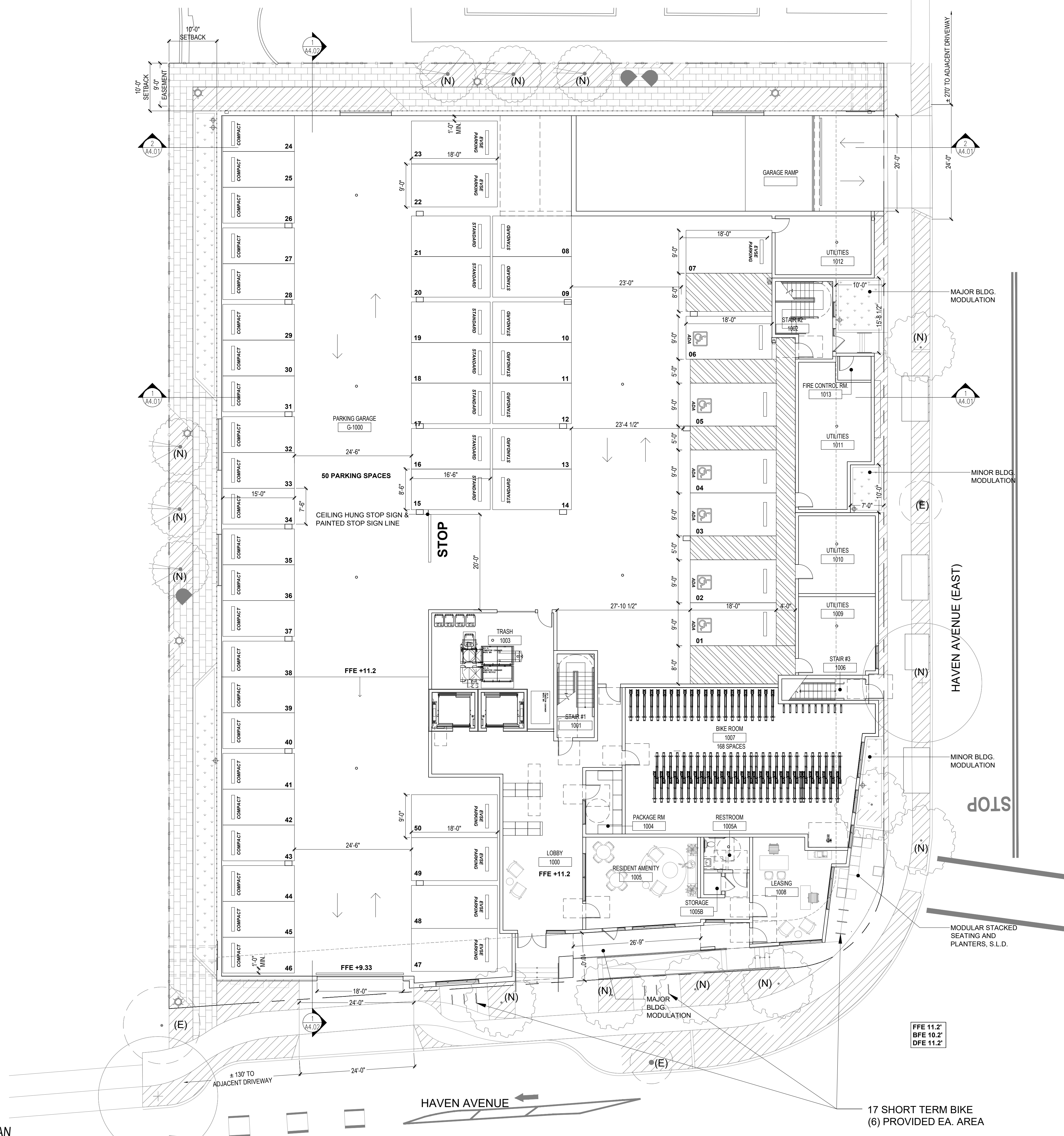
**LEGEND**

---	PROPERTY LINE	○	DRAIN
---	1-HR. FIRE RATED WALL	⊕	DOWNSPOUT
---	2-HR. FIRE RATED WALL	→	ROOF SLOPE
---	3-HR. FIRE RATED WALL	⊠	WALL ASSEMBLY, SEE A8 SERIES
---	NON-OCCUPIABLE ROOF		
---	ROOF PAVERS, OCCUPIED ROOF; SEE A2 SERIES		
---	HARDSCAPE AREA, S.L.D.	---	ACCESSIBLE DRIVE AISLE, 8'-2" MIN. VERTICAL CLR.
---	LANDSCAPE AREA, S.L.D.		

**DIMENSION NOTES**

- WALL FRAMING: ALL DIMENSIONS ARE TO FACE OF STUD, U.O.N.
- SEE ENLARGED PLANS/DETAILS FOR DIMENSIONS NOT SHOWN HERE.

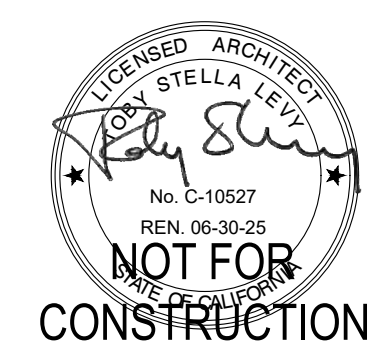
PROJECT NORTH		TRUE NORTH	
---------------	--	------------	--





NOTICE:  
THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY AND COPYRIGHT OF LEVY DESIGN PARTNERS, INC. (LDP ARCHITECTURE) AND SHALL NOT BE USED EXCEPT BY WRITTEN AGREEMENT WITH LEVY DESIGN PARTNERS.

**3705 HAVEN AVE  
MENLO PARK, CA**



3705 HAVEN AVE  
MENLO PARK, CA  
PROJECT NO. 21-07  
PARCEL NO. 055170240

REV	DATE	DESCRIPTION
	04-14-2023	PLANNING & SB330 REV 2
	09-22-2023	PLANNING & SB330 REV 3
	03-20-2024	PLANNING & SB330 REV 4
	06-13-2024	PLANNING & SB330 REV 5
	07-26-2024	PLANNING & SB330 REV 6

CONTACT: TOBY LEVY

(415) 777-0561 P  
(415) 777-5117 F

SCALE:  
**AS NOTED**

**SECOND FLOOR PLAN**

**A2.02**

**GENERAL NOTES**

- SEE CIVIL, LANDSCAPE, MECHANICAL, PLUMBING, ELECTRICAL & STRUCTURAL DRAWINGS FOR ADDITIONAL SCOPE OF WORK.
- SEE G1 SERIES FOR ADDITIONAL CLEARANCES & DETAIL NOT SHOWN
- SEE A3 SERIES FOR LOCATION OF EXTERIOR WALL FINISH TRANSITIONS
- SEE A5 SERIES FOR UNIT DIMENSIONS, UNIT WALL TYPES, UNIT DOOR TAGS AND UNIT REFLECTED CEILING PLANS
- SEE A8 SERIES FOR WALL, FLOOR & ROOF ASSEMBLIES
- SEE A9 SERIES FOR DOOR, WINDOW & FINISH SCHEDULES
- SEE A10 SERIES FOR TYPICAL FOUNDATION DETAILS
- SEE A11 SERIES FOR GENERAL ACOUSTICAL DETAILS
- PROVIDE 1 HOUR CONSTRUCTION WITH SOUND INSULATION BETWEEN RESIDENTIAL UNITS AND BETWEEN RESIDENTIAL UNITS AND PUBLIC AREAS (50 STC MIN.) PER 2016 CBC SECTION 1206.
- CONTRACTOR TO PROVIDE SOLID & CONTINUOUS BACKING FOR ALL WALL MTD. FIXTURES, ACCESSORIES, MILLWORK, EQUIPMENT RACKS, SHELVING, ETC. ALL BLOCKING TO BE SAME GAUGE AS FRAMING OR GREATER.
- EXHAUST SHAFTS SHALL COMPLY WITH 2022 CBC SECTION 713, PROTECTED BY APPROVED FIRE DAMPERS, S.M.D. FOR MORE INFORMATION.
- ALL PENETRATIONS SHALL CONFORM PER 2022 CBC SECTION 714; SEE SHEET A11 SERIES FOR MORE INFORMATION
- ALL HABITABLE ROOMS SHALL BE HEATED PER 2022 CBC 1203
- ALL UNITS TO HAVE UNIT ENTRY SIGNAGE
- PROVIDE FLOOR DRAINS, SLOPE 1/4" FOOT.
- PAINT ALL EXPOSED MECHANICAL, PLUMBING, ELECTRICAL AND FIRE LINES THROUGHOUT
- ALL STRUCTURAL COLUMNS & POSTS, AND THEIR CONNECTION TO OTHER STRUCTURAL MEMBERS, ARE TO BE FIRE RATED. IF COLUMNS & POSTS ARE WITHIN WALLS, COLUMNS & POSTS TO BE INDIVIDUALLY ENCASED IN GYP. BD. IF COLUMN & POSTS ARE EXPOSED, COLUMNS & POSTS TO BE SPRAYED WITH INTUMESCENT PAINT. SEE A8 SERIES FOR ADDITIONAL DETAILS.
- 5 LB. CLASS ABC FIRE EXTINGUISHER SPACED SO THAT EVERY INTERIOR SPACE IS WITHIN 75' TO AN EXTINGUISHER. CABINET TO NOT PROTRUDE MORE THAN 4" INTO WALKWAYS. SEE A11 SERIES FOR RECESS CABINET INSTALLATION DETAIL
- BUILDING IS REQUIRED TO MEET 2022 CBC SECTION 1206 SOUND TRANSMISSION REQUIREMENTS.

**SHEET NOTES**

- REPLACE (E) SIDEWALK CONCRETE, CURB & GUTTER; S.C.D. & S.L.D.
- PROPERTY LINE; S.C.D.
- (N) CURB CUT; S.C.D.
- (N) STREET TREE; S.L.D.
- (E) STREET TREE TO REMAIN; S.L.D.
- (N) PAVING; TYP. THROUGHOUT, S.L.D.
- (N) LANDSCAPING; TYP. THROUGHOUT, S.L.D.
- (N) FENCING; TYP. THROUGHOUT, S.L.D.
- BUILDING INTERCOM SYSTEM; S.E.D.
- (N) ENTRY STAIRS & RAMP; S.L.D.
- SHORT TERM BIKE PARKING; S.L.D.
- LONG TERM BIKE PARKING; S.L.D.
- 42" GUARD
- FLOOR/ROOF ABOVE, TYP.
- BUILDING EDGE BELOW, TYP.
- ROOF, SLOPE MIN. 1/4" PER FT TO DRAIN. SEE A8 SERIES
- NO ROOF OPENINGS WITHIN 4' OF FIREWALL. ALL ROOF SHEATHING WITHIN 4' OF FIREWALL TO BE FRT
- OCCUPIABLE DECK; S.L.D.
- NON-OCCUPIABLE ROOF
- MECHANICAL & PLUMBING EQUIPMENT; S.M.D. & S.P.D.
- ELECTRICAL METERS; S.E.D.
- GSM GUTTER, PAINT; S.P.D.
- GSM DOWNSPOUT, PAINT; S.P.D.
- RECESSED FIRE EXTINGUISHER 5LB, CLASS ABC, SEE DETAIL 19/A11.04
- 2-WAY EMERGENCY COMMUNICATION SYSTEM; WIRING IN 2 HR. RATED CONDUIT
- MAILBOX AND PACKAGE SYSTEM

**LEGEND**

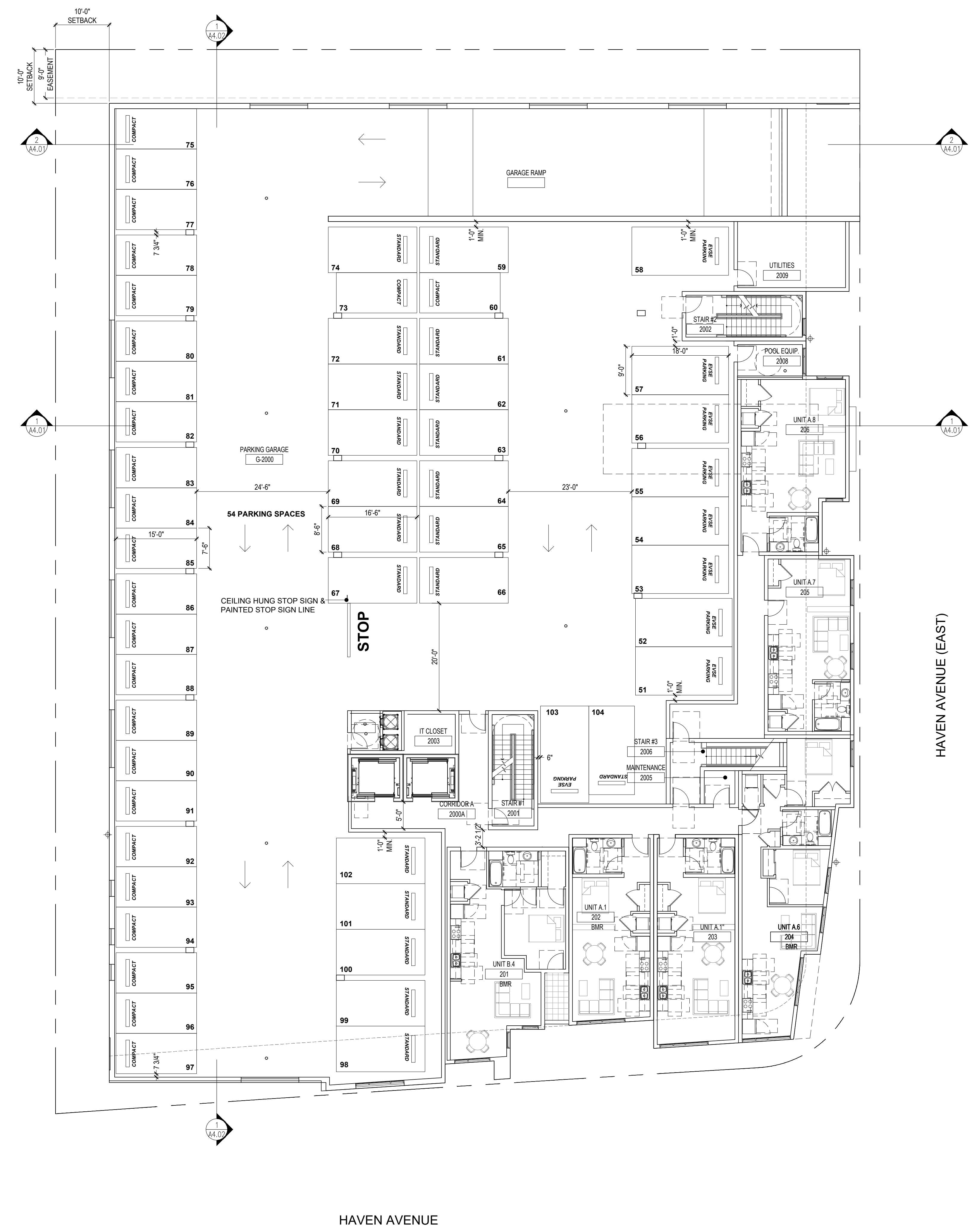
---	PROPERTY LINE	○	DRAIN
---	1-HR. FIRE RATED WALL	⊕	DOWNSPOUT
---	2-HR. FIRE RATED WALL	→	ROOF SLOPE
---	3-HR. FIRE RATED WALL	⊠	WALL ASSEMBLY, SEE A8 SERIES
---	NON-OCCUPIABLE ROOF		
---	ROOF PAVERS, OCCUPIED ROOF; SEE A2 SERIES		
---	HARDSCAPE AREA, S.L.D.	---	ACCESSIBLE DRIVE AISLE, 8'-2" MIN. VERTICAL CLR.
---	LANDSCAPE AREA, S.L.D.		

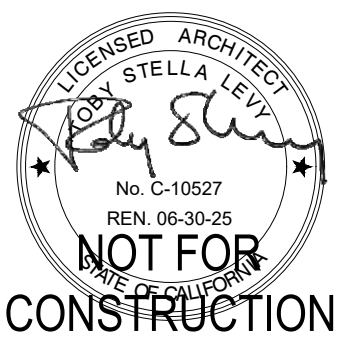
**DIMENSION NOTES**

- WALL FRAMING: ALL DIMENSIONS ARE TO FACE OF STUD, U.O.N.
- SEE ENLARGED PLANS/DETAILS FOR DIMENSIONS NOT SHOWN HERE.

PROJECT NORTH

TRUE NORTH





3705 HAVEN AVE  
MENLO PARK, CA

PROJECT NO. 21-07  
PARCEL NO. 055170240

REV | DATE | DESCRIPTION

04-14-2023	PLANNING & SB330 REV 2
09-22-2023	PLANNING & SB330 REV 3
03-20-2024	PLANNING & SB330 REV 4
06-13-2024	PLANNING & SB330 REV 5
07-26-2024	PLANNING & SB330 REV 6

CONTACT: TOBY LEVY

(415) 777-0561 P  
(415) 777-5117 F

SCALE:  
AS NOTED

THIRD  
FLOOR PLAN

A2.03

GENERAL NOTES

- SEE CIVIL, LANDSCAPE, MECHANICAL, PLUMBING, ELECTRICAL & STRUCTURAL DRAWINGS FOR ADDITIONAL SCOPE OF WORK.
- SEE G1 SERIES FOR ADDITIONAL CLEARANCES & DETAIL NOT SHOWN
- SEE A3 SERIES FOR LOCATION OF EXTERIOR WALL FINISH TRANSITIONS
- SEE A5 SERIES FOR UNIT DIMENSIONS, UNIT WALL TYPES, UNIT DOOR TAGS AND UNIT REFLECTED CEILING PLANS
- SEE A8 SERIES FOR WALL, FLOOR & ROOF ASSEMBLIES
- SEE A9 SERIES FOR DOOR, WINDOW & FINISH SCHEDULES
- SEE A10 SERIES FOR TYPICAL FOUNDATION DETAILS
- SEE A11 SERIES FOR GENERAL ACOUSTICAL DETAILS
- PROVIDE 1 HOUR CONSTRUCTION WITH SOUND INSULATION BETWEEN RESIDENTIAL UNITS AND BETWEEN RESIDENTIAL UNITS AND PUBLIC AREAS (50 STC MIN.) PER 2016 CBC SECTION 1206.
- CONTRACTOR TO PROVIDE SOLID & CONTINUOUS BACKING FOR ALL WALL MTD. FIXTURES, ACCESSORIES, MILLWORK, EQUIPMENT RACKS, SHELVING, ETC. ALL BLOCKING TO BE SAME GAUGE AS FRAMING OR GREATER.
- EXHAUST SHAFTS SHALL COMPLY WITH 2022 CBC SECTION 713, PROTECTED BY APPROVED FIRE DAMPERS, S.M.D. FOR MORE INFORMATION.
- ALL PENETRATIONS SHALL CONFORM PER 2022 CBC SECTION 714; SEE SHEET A11 SERIES FOR MORE INFORMATION
- ALL HABITABLE ROOMS SHALL BE HEATED PER 2022 CBC 1203
- ALL UNITS TO HAVE UNIT ENTRY SIGNAGE
- PROVIDE FLOOR DRAINS, SLOPE 1/4" FOOT.
- PAINT ALL EXPOSED MECHANICAL, PLUMBING, ELECTRICAL AND FIRE LINES THROUGHOUT
- ALL STRUCTURAL COLUMNS & POSTS, AND THEIR CONNECTION TO OTHER STRUCTURAL MEMBERS, ARE TO BE FIRE RATED. IF COLUMNS & POSTS ARE WITHIN WALLS, COLUMNS & POSTS TO BE INDIVIDUALLY ENCASED IN GYP. BD. IF COLUMN & POSTS ARE EXPOSED, COLUMNS & POSTS TO BE SPRAYED WITH INTUMESCENT PAINT. SEE A8 SERIES FOR ADDITIONAL DETAILS.
- 5 LB. CLASS ABC FIRE EXTINGUISHER SPACED SO THAT EVERY INTERIOR SPACE IS WITHIN 75' TO AN EXTINGUISHER. CABINET TO NOT PROTRUDE MORE THAN 4" INTO WALKWAYS. SEE A11 SERIES FOR RECESS CABINET INSTALLATION DETAIL
- BUILDING IS REQUIRED TO MEET 2022 CBC SECTION 1206 SOUND TRANSMISSION REQUIREMENTS.

SHEET NOTES

- REPLACE (E) SIDEWALK CONCRETE, CURB & GUTTER; S.C.D. & S.L.D.
- PROPERTY LINE; S.C.D.
- (N) CURB CUT; S.C.D.
- (N) STREET TREE; S.L.D.
- (E) STREET TREE TO REMAIN; S.L.D.
- (N) PAVING; TYP. THROUGHOUT, S.L.D.
- (N) LANDSCAPING; TYP. THROUGHOUT, S.L.D.
- (N) FENCING; TYP. THROUGHOUT, S.L.D.
- BUILDING INTERCOM SYSTEM; S.E.D.
- (N) ENTRY STAIRS & RAMP; S.L.D.
- SHORT TERM BIKE PARKING; S.L.D.
- LONG TERM BIKE PARKING; S.L.D.
- 4" GUARD
- FLOOR/ROOF ABOVE, TYP.
- BUILDING EDGE BELOW, TYP.
- ROOF, SLOPE MIN. 1/4" PER FT TO DRAIN; SEE A8 SERIES
- NO ROOF OPENINGS WITHIN 4' OF FIREWALL. ALL ROOF SHEATHING WITHIN 4' OF FIREWALL TO BE FR
- OCCUPIABLE DECK; S.L.D.
- NON-OCCUPIABLE ROOF
- MECHANICAL & PLUMBING EQUIPMENT; S.M.D. & S.P.D.
- ELECTRICAL METERS; S.E.D.
- GSM GUTTER, PAINT; S.P.D.
- GSM DOWNSPOUT, PAINT; S.P.D.
- RECESSED FIRE EXTINGUISHER 5LB, CLASS ABC, SEE DETAIL 19/A11.04
- 2-WAY EMERGENCY COMMUNICATION SYSTEM; WIRING IN 2 HR. RATED CONDUIT
- MAILBOX AND PACKAGE SYSTEM

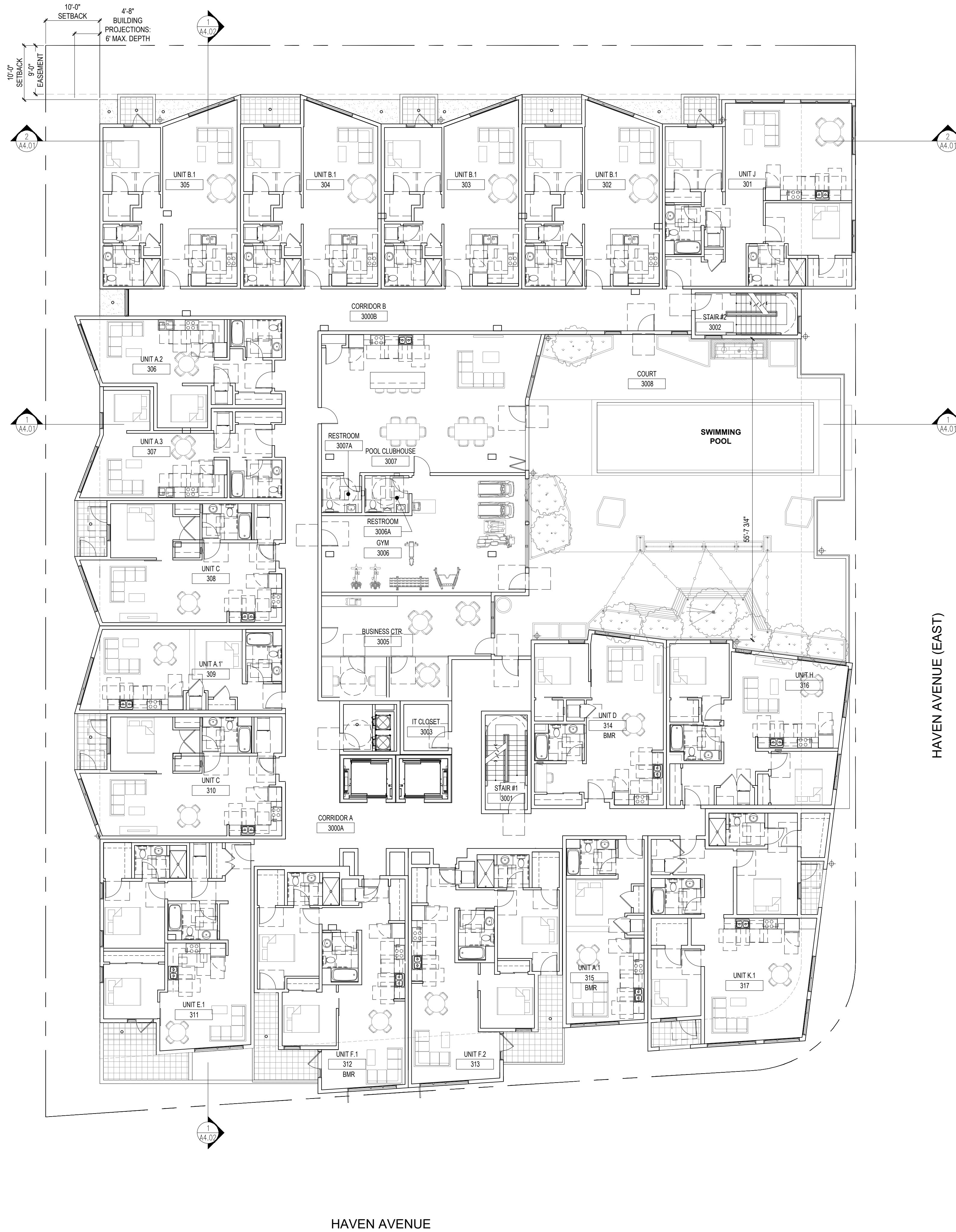
LEGEND

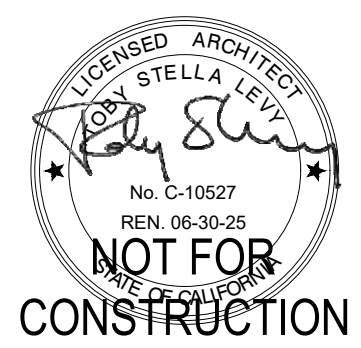
---	PROPERTY LINE	○	DRAIN
---	1-HR. FIRE RATED WALL	⊕	DOWNSPOUT
---	2-HR. FIRE RATED WALL	→	ROOF SLOPE
---	3-HR. FIRE RATED WALL	⊠	WALL ASSEMBLY, SEE A8 SERIES
---	NON-OCCUPIABLE ROOF		
---	ROOF PAVERS, OCCUPIED ROOF; SEE A2 SERIES		
---	HARDSCAPE AREA, S.L.D.	---	ACCESSIBLE DRIVE AISLE, 8'-2" MIN. VERTICAL CLR.
---	LANDSCAPE AREA, S.L.D.		

DIMENSION NOTES

- WALL FRAMING: ALL DIMENSIONS ARE TO FACE OF STUD, U.O.N.
- SEE ENLARGED PLANS/DETAILS FOR DIMENSIONS NOT SHOWN HERE.

PROJECT NORTH		TRUE NORTH	
---------------	--	------------	--





3705 HAVEN AVE  
MENLO PARK, CA

PROJECT NO. 21-07  
PARCEL NO. 055170240

REV | DATE | DESCRIPTION

04-14-2023	PLANNING & SB330 REV 2
09-22-2023	PLANNING & SB330 REV 3
03-20-2024	PLANNING & SB330 REV 4
06-13-2024	PLANNING & SB330 REV 5
07-26-2024	PLANNING & SB330 REV 6

CONTACT: TOBY LEVY

(415) 777-0561 P  
(415) 777-5117 F

SCALE:  
AS NOTED

FOURTH  
FLOOR PLAN

A2.04

GENERAL NOTES

- SEE CIVIL, LANDSCAPE, MECHANICAL, PLUMBING, ELECTRICAL & STRUCTURAL DRAWINGS FOR ADDITIONAL SCOPE OF WORK.
- SEE G1 SERIES FOR ADDITIONAL CLEARANCES & DETAIL NOT SHOWN
- SEE A3 SERIES FOR LOCATION OF EXTERIOR WALL FINISH TRANSITIONS
- SEE A5 SERIES FOR UNIT DIMENSIONS, UNIT WALL TYPES, UNIT DOOR TAGS AND UNIT REFLECTED CEILING PLANS
- SEE A8 SERIES FOR WALL, FLOOR & ROOF ASSEMBLIES
- SEE A9 SERIES FOR DOOR, WINDOW & FINISH SCHEDULES
- SEE A10 SERIES FOR TYPICAL FOUNDATION DETAILS
- SEE A11 SERIES FOR GENERAL ACOUSTICAL DETAILS
- PROVIDE 1 HOUR CONSTRUCTION WITH SOUND INSULATION BETWEEN RESIDENTIAL UNITS AND BETWEEN RESIDENTIAL UNITS AND PUBLIC AREAS (50 STC MIN.) PER 2016 CBC SECTION 1206.
- CONTRACTOR TO PROVIDE SOLID & CONTINUOUS BACKING FOR ALL WALL MTD. FIXTURES, ACCESSORIES, MILLWORK, EQUIPMENT RACKS, SHELVING, ETC. ALL BLOCKING TO BE SAME GAUGE AS FRAMING OR GREATER.
- EXHAUST SHAFTS SHALL COMPLY WITH 2022 CBC SECTION 713, PROTECTED BY APPROVED FIRE DAMPERS. S.M.D. FOR MORE INFORMATION.
- ALL PENETRATIONS SHALL CONFORM PER 2022 CBC SECTION 714; SEE SHEET A11 SERIES FOR MORE INFORMATION
- ALL HABITABLE ROOMS SHALL BE HEATED PER 2022 CBC 1203
- ALL UNITS TO HAVE UNIT ENTRY SIGNAGE
- PROVIDE FLOOR DRAINS, SLOPE 1/8" FOOT.
- PAINT ALL EXPOSED MECHANICAL, PLUMBING, ELECTRICAL AND FIRE LINES THROUGHOUT
- ALL STRUCTURAL COLUMNS & POSTS, AND THEIR CONNECTION TO OTHER STRUCTURAL MEMBERS, ARE TO BE FIRE RATED. IF COLUMNS & POSTS ARE WITHIN WALLS, COLUMNS & POSTS TO BE INDIVIDUALLY ENCASED IN GYP. BD. IF COLUMN & POSTS ARE EXPOSED, COLUMNS & POSTS TO BE SPRAYED WITH INTUMESCENT PAINT. SEE A8 SERIES FOR ADDITIONAL DETAILS.
- 5 LB. CLASS ABC FIRE EXTINGUISHER SPACED SO THAT EVERY INTERIOR SPACE IS WITHIN 75' TO AN EXTINGUISHER. CABINET TO NOT PROTRUDE MORE THAN 4" INTO WALKWAYS. SEE A11 SERIES FOR RECESS CABINET INSTALLATION DETAIL
- BUILDING IS REQUIRED TO MEET 2022 CBC SECTION 1206 SOUND TRANSMISSION REQUIREMENTS.

SHEET NOTES

- REPLACE (E) SIDEWALK CONCRETE, CURB & GUTTER; S.C.D. & S.L.D.
- PROPERTY LINE; S.C.D.
- (N) CURB CUT; S.C.D.
- (N) STREET TREE; S.L.D.
- (E) STREET TREE TO REMAIN; S.L.D.
- (N) PAVING; TYP. THROUGHOUT, S.L.D.
- (N) LANDSCAPING; TYP. THROUGHOUT, S.L.D.
- (N) FENCING; TYP. THROUGHOUT, S.L.D.
- BUILDING INTERCOM SYSTEM; S.E.D.
- (N) ENTRY STAIRS & RAMP; S.L.D.
- SHORT TERM BIKE PARKING; S.L.D.
- LONG TERM BIKE PARKING; S.L.D.
- 42" GUARD
- FLOOR/ROOF ABOVE, TYP.
- BUILDING EDGE BELOW, TYP.
- ROOF, SLOPE MIN. 1/4" PER FT TO DRAIN. SEE A8 SERIES
- NO ROOF OPENINGS WITHIN 4' OF FIREWALL. ALL ROOF SHEATHING WITHIN 4' OF FIREWALL TO BE FRT
- OCCUPIABLE DECK; S.L.D.
- NON-OCCUPIABLE ROOF
- MECHANICAL & PLUMBING EQUIPMENT; S.M.D. & S.P.D.
- ELECTRICAL METERS; S.E.D.
- GSM GUTTER, PAINT; S.P.D.
- GSM DOWNSPOUT, PAINT; S.P.D.
- RECESSED FIRE EXTINGUISHER 5LB, CLASS ABC, SEE DETAIL 19/A11.04
- 2-WAY EMERGENCY COMMUNICATION SYSTEM; WIRING IN 2 HR. RATED CONDUIT
- MAILBOX AND PACKAGE SYSTEM

LEGEND

---	PROPERTY LINE	○	DRAIN
---	1-HR. FIRE RATED WALL	⊕	DOWNSPOUT
---	2-HR. FIRE RATED WALL	→	ROOF SLOPE
---	3-HR. FIRE RATED WALL	⊠	WALL ASSEMBLY, SEE A8 SERIES
---	NON-OCCUPIABLE ROOF		
---	ROOF PAVERS, OCCUPIED ROOF; SEE A2 SERIES		
---	HARDSCAPE AREA, S.L.D.	---	ACCESSIBLE DRIVE AISLE, 8'-2" MIN. VERTICAL CLR.
---	LANDSCAPE AREA, S.L.D.		

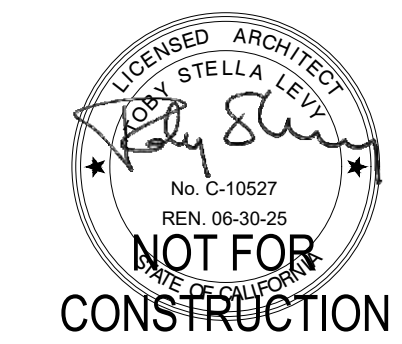
DIMENSION NOTES

- WALL FRAMING: ALL DIMENSIONS ARE TO FACE OF STUD, U.O.N.
- SEE ENLARGED PLANS/DETAILS FOR DIMENSIONS NOT SHOWN HERE.

PROJECT NORTH		TRUE NORTH	
---------------	--	------------	--







3705 HAVEN AVE  
MENLO PARK, CA

PROJECT NO. 21-07  
PARCEL NO. 055170240

REV | DATE | DESCRIPTION

04-14-2023	PLANNING & SB330 REV 2
09-22-2023	PLANNING & SB330 REV 3
03-20-2024	PLANNING & SB330 REV 4
06-13-2024	PLANNING & SB330 REV 5
07-26-2024	PLANNING & SB330 REV 6

CONTACT: TOBY LEVY

(415) 777-0561 P  
(415) 777-5117 F

SCALE:  
AS NOTED

FIFTH  
FLOOR PLAN

A2.05

**GENERAL NOTES**

- SEE CIVIL, LANDSCAPE, MECHANICAL, PLUMBING, ELECTRICAL & STRUCTURAL DRAWINGS FOR ADDITIONAL SCOPE OF WORK.
- SEE G1 SERIES FOR ADDITIONAL CLEARANCES & DETAIL NOT SHOWN
- SEE A3 SERIES FOR LOCATION OF EXTERIOR WALL FINISH TRANSITIONS
- SEE A5 SERIES FOR UNIT DIMENSIONS, UNIT WALL TYPES, UNIT DOOR TAGS AND UNIT REFLECTED CEILING PLANS
- SEE A8 SERIES FOR WALL, FLOOR & ROOF ASSEMBLIES
- SEE A9 SERIES FOR DOOR, WINDOW & FINISH SCHEDULES
- SEE A10 SERIES FOR TYPICAL FOUNDATION DETAILS
- SEE A11 SERIES FOR GENERAL ACOUSTICAL DETAILS
- PROVIDE 1 HOUR CONSTRUCTION WITH SOUND INSULATION BETWEEN RESIDENTIAL UNITS AND BETWEEN RESIDENTIAL UNITS AND PUBLIC AREAS (50 STC MIN.) PER 2016 CBC SECTION 1206.
- CONTRACTOR TO PROVIDE SOLID & CONTINUOUS BACKING FOR ALL WALL MTD. FIXTURES, ACCESSORIES, MILLWORK, EQUIPMENT RACKS, SHELVING, ETC. ALL BLOCKING TO BE SAME GAUGE AS FRAMING OR GREATER.
- EXHAUST SHAFTS SHALL COMPLY WITH 2022 CBC SECTION 713, PROTECTED BY APPROVED FIRE DAMPERS, S.M.D. FOR MORE INFORMATION.
- ALL PENETRATIONS SHALL CONFORM PER 2022 CBC SECTION 714; SEE SHEET A11 SERIES FOR MORE INFORMATION
- ALL HABITABLE ROOMS SHALL BE HEATED PER 2022 CBC 1203
- ALL UNITS TO HAVE UNIT ENTRY SIGNAGE
- PROVIDE FLOOR DRAINS, SLOPE 1/8" FOOT.
- PAINT ALL EXPOSED MECHANICAL, PLUMBING, ELECTRICAL AND FIRE LINES THROUGHOUT
- ALL STRUCTURAL COLUMNS & POSTS, AND THEIR CONNECTION TO OTHER STRUCTURAL MEMBERS, ARE TO BE FIRE RATED. IF COLUMNS & POSTS ARE WITHIN WALLS, COLUMNS & POSTS TO BE INDIVIDUALLY ENCASED IN GYP. BD. IF COLUMN & POSTS ARE EXPOSED, COLUMNS & POSTS TO BE SPRAYED WITH INTUMESCENT PAINT. SEE A8 SERIES FOR ADDITIONAL DETAILS.
- 5 LB. CLASS ABC FIRE EXTINGUISHER SPACED SO THAT EVERY INTERIOR SPACE IS WITHIN 75' TO AN EXTINGUISHER. CABINET TO NOT PROTRUDE MORE THAN 4" INTO WALKWAYS. SEE A11 SERIES FOR RECESS CABINET INSTALLATION DETAIL
- BUILDING IS REQUIRED TO MEET 2022 CBC SECTION 1206 SOUND TRANSMISSION REQUIREMENTS.

**SHEET NOTES**

- REPLACE (E) SIDEWALK CONCRETE, CURB & GUTTER; S.C.D. & S.L.D.
- PROPERTY LINE; S.C.D.
- (N) CURB CUT; S.C.D.
- (N) STREET TREE; S.L.D.
- (E) STREET TREE TO REMAIN; S.L.D.
- (N) PAVING; TYP. THROUGHOUT, S.L.D.
- (N) LANDSCAPING; TYP. THROUGHOUT, S.L.D.
- (N) FENCING; TYP. THROUGHOUT, S.L.D.
- BUILDING INTERCOM SYSTEM; S.E.D.
- (N) ENTRY STAIRS & RAMP; S.L.D.
- SHORT TERM BIKE PARKING; S.L.D.
- LONG TERM BIKE PARKING; S.L.D.
- 4" GUARD
- FLOOR/ROOF ABOVE, TYP.
- BUILDING EDGE BELOW, TYP.
- ROOF, SLOPE MIN. 1/4" PER FT TO DRAIN; SEE A8 SERIES
- NO ROOF OPENINGS WITHIN 4' OF FIREWALL. ALL ROOF SHEATHING WITHIN 4' OF FIREWALL TO BE FR
- OCCUPIABLE DECK; S.L.D.
- NON-OCCUPIABLE ROOF
- MECHANICAL & PLUMBING EQUIPMENT; S.M.D. & S.P.D.
- ELECTRICAL METERS; S.E.D.
- GSM GUTTER, PAINT; S.P.D.
- GSM DOWNSPOUT, PAINT; S.P.D.
- RECESSED FIRE EXTINGUISHER 5LB, CLASS ABC, SEE DETAIL 19/A11.04
- 2-WAY EMERGENCY COMMUNICATION SYSTEM; WIRING IN 2 HR. RATED CONDUIT
- MAILBOX AND PACKAGE SYSTEM

**LEGEND**

---	PROPERTY LINE	○	DRAIN
---	1-HR. FIRE RATED WALL	⊕	DOWNSPOUT
---	2-HR. FIRE RATED WALL	→	ROOF SLOPE
---	3-HR. FIRE RATED WALL	⊠	WALL ASSEMBLY, SEE A8 SERIES
---	NON-OCCUPIABLE ROOF		
---	ROOF PAVERS, OCCUPIED ROOF; SEE A2 SERIES		
---	HARDSCAPE AREA, S.L.D.	---	ACCESSIBLE DRIVE AISLE, 8'-2" MIN. VERTICAL CLR.
---	LANDSCAPE AREA, S.L.D.		

**DIMENSION NOTES**

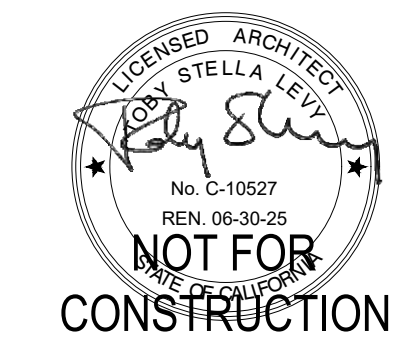
- WALL FRAMING: ALL DIMENSIONS ARE TO FACE OF STUD, U.O.N.
- SEE ENLARGED PLANS/DETAILS FOR DIMENSIONS NOT SHOWN HERE.

PROJECT NORTH		TRUE NORTH	
---------------	--	------------	--



HAVEN AVENUE

HAVEN AVENUE (EAST)



3705 HAVEN AVE  
MENLO PARK, CA

PROJECT NO. 21-07  
PARCEL NO. 055170240

REV | DATE | DESCRIPTION

04-14-2023	PLANNING & SB330 REV 2
09-22-2023	PLANNING & SB330 REV 3
03-20-2024	PLANNING & SB330 REV 4
06-13-2024	PLANNING & SB330 REV 5
07-26-2024	PLANNING & SB330 REV 6

CONTACT: TOBY LEVY

(415) 777-0561 P  
(415) 777-5117 F

SCALE:  
**AS NOTED**

SIXTH  
FLOOR PLAN

**A2.06**

**GENERAL NOTES**

- SEE CIVIL, LANDSCAPE, MECHANICAL, PLUMBING, ELECTRICAL & STRUCTURAL DRAWINGS FOR ADDITIONAL SCOPE OF WORK.
- SEE G1 SERIES FOR ADDITIONAL CLEARANCES & DETAIL NOT SHOWN
- SEE A3 SERIES FOR LOCATION OF EXTERIOR WALL FINISH TRANSITIONS
- SEE A5 SERIES FOR UNIT DIMENSIONS, UNIT WALL TYPES, UNIT DOOR TAGS AND UNIT REFLECTED CEILING PLANS
- SEE A8 SERIES FOR WALL, FLOOR & ROOF ASSEMBLIES
- SEE A9 SERIES FOR DOOR, WINDOW & FINISH SCHEDULES
- SEE A10 SERIES FOR TYPICAL FOUNDATION DETAILS
- SEE A11 SERIES FOR GENERAL ACOUSTICAL DETAILS
- PROVIDE 1 HOUR CONSTRUCTION WITH SOUND INSULATION BETWEEN RESIDENTIAL UNITS AND BETWEEN RESIDENTIAL UNITS AND PUBLIC AREAS (50 STC MIN.) PER 2016 CBC SECTION 1206.
- CONTRACTOR TO PROVIDE SOLID & CONTINUOUS BACKING FOR ALL WALL MTD. FIXTURES, ACCESSORIES, MILLWORK, EQUIPMENT RACKS, SHELVING, ETC. ALL BLOCKING TO BE SAME GAUGE AS FRAMING OR GREATER.
- EXHAUST SHAFTS SHALL COMPLY WITH 2022 CBC SECTION 713, PROTECTED BY APPROVED FIRE DAMPERS, S.M.D. FOR MORE INFORMATION.
- ALL PENETRATIONS SHALL CONFORM PER 2022 CBC SECTION 714; SEE SHEET A11 SERIES FOR MORE INFORMATION
- ALL HABITABLE ROOMS SHALL BE HEATED PER 2022 CBC 1203
- ALL UNITS TO HAVE UNIT ENTRY SIGNAGE
- PROVIDE FLOOR DRAINS, SLOPE 1/4" FOOT.
- PAINT ALL EXPOSED MECHANICAL, PLUMBING, ELECTRICAL AND FIRE LINES THROUGHOUT
- ALL STRUCTURAL COLUMNS & POSTS, AND THEIR CONNECTION TO OTHER STRUCTURAL MEMBERS, ARE TO BE FIRE RATED. IF COLUMNS & POSTS ARE WITHIN WALLS, COLUMNS & POSTS TO BE INDIVIDUALLY ENCASED IN GYP. BD. IF COLUMN & POSTS ARE EXPOSED, COLUMNS & POSTS TO BE SPRAYED WITH INTUMESCENT PAINT. SEE A8 SERIES FOR ADDITIONAL DETAILS.
- 5 LB. CLASS ABC FIRE EXTINGUISHER SPACED SO THAT EVERY INTERIOR SPACE IS WITHIN 75' TO AN EXTINGUISHER. CABINET TO NOT PROTRUDE MORE THAN 4" INTO WALKWAYS. SEE A11 SERIES FOR RECESS CABINET INSTALLATION DETAIL
- BUILDING IS REQUIRED TO MEET 2022 CBC SECTION 1206 SOUND TRANSMISSION REQUIREMENTS.

**SHEET NOTES**

- REPLACE (E) SIDEWALK CONCRETE, CURB & GUTTER; S.C.D. & S.L.D.
- PROPERTY LINE; S.C.D.
- (N) CURB CUT; S.C.D.
- (N) STREET TREE; S.L.D.
- (E) STREET TREE TO REMAIN; S.L.D.
- (N) PAVING; TYP. THROUGHOUT, S.L.D.
- (N) LANDSCAPING; TYP. THROUGHOUT, S.L.D.
- (N) FENCING; TYP. THROUGHOUT, S.L.D.
- BUILDING INTERCOM SYSTEM; S.E.D.
- (N) ENTRY STAIRS & RAMP; S.L.D.
- SHORT TERM BIKE PARKING; S.L.D.
- LONG TERM BIKE PARKING; S.L.D.
- 4" GUARD
- FLOOR/ROOF ABOVE, TYP.
- BUILDING EDGE BELOW, TYP.
- ROOF, SLOPE MIN. 1/4" PER FT TO DRAIN; SEE A8 SERIES
- NO ROOF OPENINGS WITHIN 4' OF FIREWALL. ALL ROOF SHEATHING WITHIN 4' OF FIREWALL TO BE FRT
- OCCUPIABLE DECK; S.L.D.
- NON-OCCUPIABLE ROOF
- MECHANICAL & PLUMBING EQUIPMENT; S.M.D. & S.P.D.
- ELECTRICAL METERS; S.E.D.
- GSM GUTTER, PAINT; S.P.D.
- GSM DOWNSPOUT, PAINT; S.P.D.
- RECESSED FIRE EXTINGUISHER 5LB, CLASS ABC, SEE DETAIL 19/A11.04
- 2-WAY EMERGENCY COMMUNICATION SYSTEM; WIRING IN 2 HR. RATED CONDUIT
- MAILBOX AND PACKAGE SYSTEM

**LEGEND**

---	PROPERTY LINE	○	DRAIN
---	1-HR. FIRE RATED WALL	⊕	DOWNSPOUT
---	2-HR. FIRE RATED WALL	→	ROOF SLOPE
---	3-HR. FIRE RATED WALL	⊠	WALL ASSEMBLY, SEE A8 SERIES
---	NON-OCCUPIABLE ROOF		
---	ROOF PAVERS, OCCUPIED ROOF; SEE A2 SERIES		
---	HARDSCAPE AREA, S.L.D.	---	ACCESSIBLE DRIVE AISLE, 8'-2" MIN. VERTICAL CLR.
---	LANDSCAPE AREA, S.L.D.		

**DIMENSION NOTES**

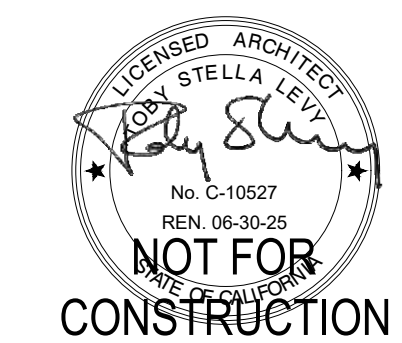
- WALL FRAMING: ALL DIMENSIONS ARE TO FACE OF STUD, U.O.N.
- SEE ENLARGED PLANS/DETAILS FOR DIMENSIONS NOT SHOWN HERE.

PROJECT NORTH		TRUE NORTH	
---------------	--	------------	--



HAVEN AVENUE

HAVEN AVENUE (EAST)



3705 HAVEN AVE  
MENLO PARK, CA

PROJECT NO. 21-07  
PARCEL NO. 055170240

REV | DATE | DESCRIPTION

04-14-2023	PLANNING & SB330 REV 2
09-22-2023	PLANNING & SB330 REV 3
03-20-2024	PLANNING & SB330 REV 4
06-13-2024	PLANNING & SB330 REV 5
07-26-2024	PLANNING & SB330 REV 6

CONTACT: TOBY LEVY

(415) 777-0561 P  
(415) 777-5117 F

SCALE:  
**AS NOTED**

**SEVENTH  
FLOOR PLAN**

**A2.07**

**GENERAL NOTES**

- SEE CIVIL, LANDSCAPE, MECHANICAL, PLUMBING, ELECTRICAL & STRUCTURAL DRAWINGS FOR ADDITIONAL SCOPE OF WORK.
- SEE G1 SERIES FOR ADDITIONAL CLEARANCES & DETAIL NOT SHOWN
- SEE A3 SERIES FOR LOCATION OF EXTERIOR WALL FINISH TRANSITIONS
- SEE A5 SERIES FOR UNIT DIMENSIONS, UNIT WALL TYPES, UNIT DOOR TAGS AND UNIT REFLECTED CEILING PLANS
- SEE A8 SERIES FOR WALL, FLOOR & ROOF ASSEMBLIES
- SEE A9 SERIES FOR DOOR, WINDOW & FINISH SCHEDULES
- SEE A10 SERIES FOR TYPICAL FOUNDATION DETAILS
- SEE A11 SERIES FOR GENERAL ACOUSTICAL DETAILS
- PROVIDE 1 HOUR CONSTRUCTION WITH SOUND INSULATION BETWEEN RESIDENTIAL UNITS AND BETWEEN RESIDENTIAL UNITS AND PUBLIC AREAS (50 STC MIN.) PER 2016 CBC SECTION 1206.
- CONTRACTOR TO PROVIDE SOLID & CONTINUOUS BACKING FOR ALL WALL MTD. FIXTURES, ACCESSORIES, MILLWORK, EQUIPMENT RACKS, SHELVING, ETC. ALL BLOCKING TO BE SAME GAUGE AS FRAMING OR GREATER.
- EXHAUST SHAFTS SHALL COMPLY WITH 2022 CBC SECTION 713, PROTECTED BY APPROVED FIRE DAMPERS. S.M.D. FOR MORE INFORMATION.
- ALL PENETRATIONS SHALL CONFORM PER 2022 CBC SECTION 714; SEE SHEET A11 SERIES FOR MORE INFORMATION
- ALL HABITABLE ROOMS SHALL BE HEATED PER 2022 CBC 1203
- ALL UNITS TO HAVE UNIT ENTRY SIGNAGE
- PROVIDE FLOOR DRAINS, SLOPE 1/4" FOOT.
- PAINT ALL EXPOSED MECHANICAL, PLUMBING, ELECTRICAL AND FIRE LINES THROUGHOUT
- ALL STRUCTURAL COLUMNS & POSTS, AND THEIR CONNECTION TO OTHER STRUCTURAL MEMBERS, ARE TO BE FIRE RATED. IF COLUMNS & POSTS ARE WITHIN WALLS, COLUMNS & POSTS TO BE INDIVIDUALLY ENCASED IN GYP. BD. IF COLUMN & POSTS ARE EXPOSED, COLUMNS & POSTS TO BE SPRAYED WITH INTUMESCENT PAINT. SEE A8 SERIES FOR ADDITIONAL DETAILS.
- 5 LB. CLASS ABC FIRE EXTINGUISHER SPACED SO THAT EVERY INTERIOR SPACE IS WITHIN 75' TO AN EXTINGUISHER. CABINET TO NOT PROTRUDE MORE THAN 4" INTO WALKWAYS. SEE A11 SERIES FOR RECESS CABINET INSTALLATION DETAIL
- BUILDING IS REQUIRED TO MEET 2022 CBC SECTION 1206 SOUND TRANSMISSION REQUIREMENTS.

**SHEET NOTES**

- REPLACE (E) SIDEWALK CONCRETE, CURB & GUTTER; S.C.D. & S.L.D.
- PROPERTY LINE; S.C.D.
- (N) CURB CUT; S.C.D.
- (N) STREET TREE; S.L.D.
- (E) STREET TREE TO REMAIN; S.L.D.
- (N) PAVING; TYP. THROUGHOUT, S.L.D.
- (N) LANDSCAPING; TYP. THROUGHOUT, S.L.D.
- (N) FENCING; TYP. THROUGHOUT, S.L.D.
- BUILDING INTERCOM SYSTEM; S.E.D.
- (N) ENTRY STAIRS & RAMP; S.L.D.
- SHORT TERM BIKE PARKING; S.L.D.
- LONG TERM BIKE PARKING; S.L.D.
- 4" GUARD
- FLOOR/ROOF ABOVE, TYP.
- BUILDING EDGE BELOW, TYP.
- ROOF, SLOPE MIN. 1/4" PER FT TO DRAIN; SEE A8 SERIES
- NO ROOF OPENINGS WITHIN 4' OF FIREWALL. ALL ROOF SHEATHING WITHIN 4' OF FIREWALL TO BE FRT
- OCCUPIABLE DECK; S.L.D.
- NON-OCCUPIABLE ROOF
- MECHANICAL & PLUMBING EQUIPMENT; S.M.D. & S.P.D.
- ELECTRICAL METERS; S.E.D.
- GSM GUTTER, PAINT; S.P.D.
- GSM DOWNSPOUT, PAINT; S.P.D.
- RECESSED FIRE EXTINGUISHER 5LB, CLASS ABC, SEE DETAIL 19/A11.04
- 2-WAY EMERGENCY COMMUNICATION SYSTEM; WIRING IN 2 HR. RATED CONDUIT
- MAILBOX AND PACKAGE SYSTEM

**LEGEND**

---	PROPERTY LINE	○	DRAIN
---	1-HR. FIRE RATED WALL	⊕	DOWNSPOUT
---	2-HR. FIRE RATED WALL	→	ROOF SLOPE
---	3-HR. FIRE RATED WALL	⊠	WALL ASSEMBLY, SEE A8 SERIES
---	NON-OCCUPIABLE ROOF		
---	ROOF PAVERS, OCCUPIED ROOF; SEE A2 SERIES		
---	HARDSCAPE AREA, S.L.D.	---	ACCESSIBLE DRIVE AISLE, 8'-2" MIN. VERTICAL CLR.
---	LANDSCAPE AREA, S.L.D.		

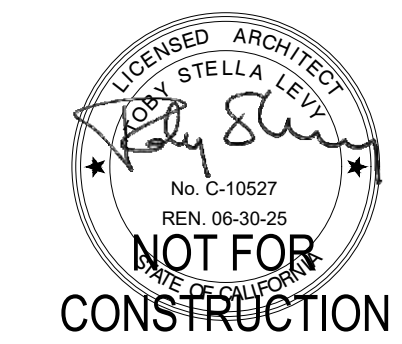
**DIMENSION NOTES**

- WALL FRAMING: ALL DIMENSIONS ARE TO FACE OF STUD, U.O.N.
- SEE ENLARGED PLANS/DETAILS FOR DIMENSIONS NOT SHOWN HERE.

PROJECT NORTH		TRUE NORTH	
---------------	--	------------	--







3705 HAVEN AVE  
MENLO PARK, CA

PROJECT NO. 21-07  
PARCEL NO. 055170240

REV | DATE | DESCRIPTION

04-14-2023	PLANNING & SB330 REV 2
09-22-2023	PLANNING & SB330 REV 3
03-20-2024	PLANNING & SB330 REV 4
06-13-2024	PLANNING & SB330 REV 5
07-26-2024	PLANNING & SB330 REV 6

CONTACT: TOBY LEVY

(415) 777-0561 P  
(415) 777-5117 F

SCALE:  
AS NOTED

EIGHTH  
FLOOR PLAN

A2.08

GENERAL NOTES

- SEE CIVIL, LANDSCAPE, MECHANICAL, PLUMBING, ELECTRICAL & STRUCTURAL DRAWINGS FOR ADDITIONAL SCOPE OF WORK.
- SEE G1 SERIES FOR ADDITIONAL CLEARANCES & DETAIL NOT SHOWN
- SEE A3 SERIES FOR LOCATION OF EXTERIOR WALL FINISH TRANSITIONS
- SEE A5 SERIES FOR UNIT DIMENSIONS, UNIT WALL TYPES, UNIT DOOR TAGS AND UNIT REFLECTED CEILING PLANS
- SEE A8 SERIES FOR WALL, FLOOR & ROOF ASSEMBLIES
- SEE A9 SERIES FOR DOOR, WINDOW & FINISH SCHEDULES
- SEE A10 SERIES FOR TYPICAL FOUNDATION DETAILS
- SEE A11 SERIES FOR GENERAL ACOUSTICAL DETAILS
- PROVIDE 1 HOUR CONSTRUCTION WITH SOUND INSULATION BETWEEN RESIDENTIAL UNITS AND BETWEEN RESIDENTIAL UNITS AND PUBLIC AREAS (50 STC MIN.) PER 2016 CBC SECTION 1206.
- CONTRACTOR TO PROVIDE SOLID & CONTINUOUS BACKING FOR ALL WALL MTD. FIXTURES, ACCESSORIES, MILLWORK, EQUIPMENT RACKS, SHELVING, ETC. ALL BLOCKING TO BE SAME GAUGE AS FRAMING OR GREATER.
- EXHAUST SHAFTS SHALL COMPLY WITH 2022 CBC SECTION 713, PROTECTED BY APPROVED FIRE DAMPERS. S.M.D. FOR MORE INFORMATION.
- ALL PENETRATIONS SHALL CONFORM PER 2022 CBC SECTION 714; SEE SHEET A11 SERIES FOR MORE INFORMATION
- ALL HABITABLE ROOMS SHALL BE HEATED PER 2022 CBC 1203
- ALL UNITS TO HAVE UNIT ENTRY SIGNAGE
- PROVIDE FLOOR DRAINS, SLOPE 1/4" FOOT.
- PAINT ALL EXPOSED MECHANICAL, PLUMBING, ELECTRICAL AND FIRE LINES THROUGHOUT
- ALL STRUCTURAL COLUMNS & POSTS, AND THEIR CONNECTION TO OTHER STRUCTURAL MEMBERS, ARE TO BE FIRE RATED. IF COLUMNS & POSTS ARE WITHIN WALLS, COLUMNS & POSTS TO BE INDIVIDUALLY ENCASED IN GYP. BD. IF COLUMN & POSTS ARE EXPOSED, COLUMNS & POSTS TO BE SPRAYED WITH INTUMESCENT PAINT. SEE A8 SERIES FOR ADDITIONAL DETAILS.
- 5 LB. CLASS ABC FIRE EXTINGUISHER SPACED SO THAT EVERY INTERIOR SPACE IS WITHIN 75' TO AN EXTINGUISHER. CABINET TO NOT PROTRUDE MORE THAN 4" INTO WALKWAYS. SEE A11 SERIES FOR RECESS CABINET INSTALLATION DETAIL
- BUILDING IS REQUIRED TO MEET 2022 CBC SECTION 1206 SOUND TRANSMISSION REQUIREMENTS.

SHEET NOTES

- REPLACE (E) SIDEWALK CONCRETE, CURB & GUTTER; S.C.D. & S.L.D.
- PROPERTY LINE; S.C.D.
- (N) CURB CUT; S.C.D.
- (N) STREET TREE; S.L.D.
- (E) STREET TREE TO REMAIN; S.L.D.
- (N) PAVING; TYP. THROUGHOUT, S.L.D.
- (N) LANDSCAPING; TYP. THROUGHOUT, S.L.D.
- (N) FENCING; TYP. THROUGHOUT, S.L.D.
- BUILDING INTERCOM SYSTEM; S.E.D.
- (N) ENTRY STAIRS & RAMP; S.L.D.
- SHORT TERM BIKE PARKING; S.L.D.
- LONG TERM BIKE PARKING; S.L.D.
- 4" GUARD
- FLOOR/ROOF ABOVE, TYP.
- BUILDING EDGE BELOW, TYP.
- ROOF, SLOPE MIN. 1/4" PER FT TO DRAIN; SEE A8 SERIES
- NO ROOF OPENINGS WITHIN 4' OF FIREWALL. ALL ROOF SHEATHING WITHIN 4' OF FIREWALL TO BE FR
- OCCUPIABLE DECK; S.L.D.
- NON-OCCUPIABLE ROOF
- MECHANICAL & PLUMBING EQUIPMENT; S.M.D. & S.P.D.
- ELECTRICAL METERS; S.E.D.
- GSM GUTTER, PAINT; S.P.D.
- GSM DOWNSPOUT, PAINT; S.P.D.
- RECESSED FIRE EXTINGUISHER 5LB, CLASS ABC, SEE DETAIL 19/A11.04
- 2-WAY EMERGENCY COMMUNICATION SYSTEM; WIRING IN 2 HR. RATED CONDUIT
- MAILBOX AND PACKAGE SYSTEM

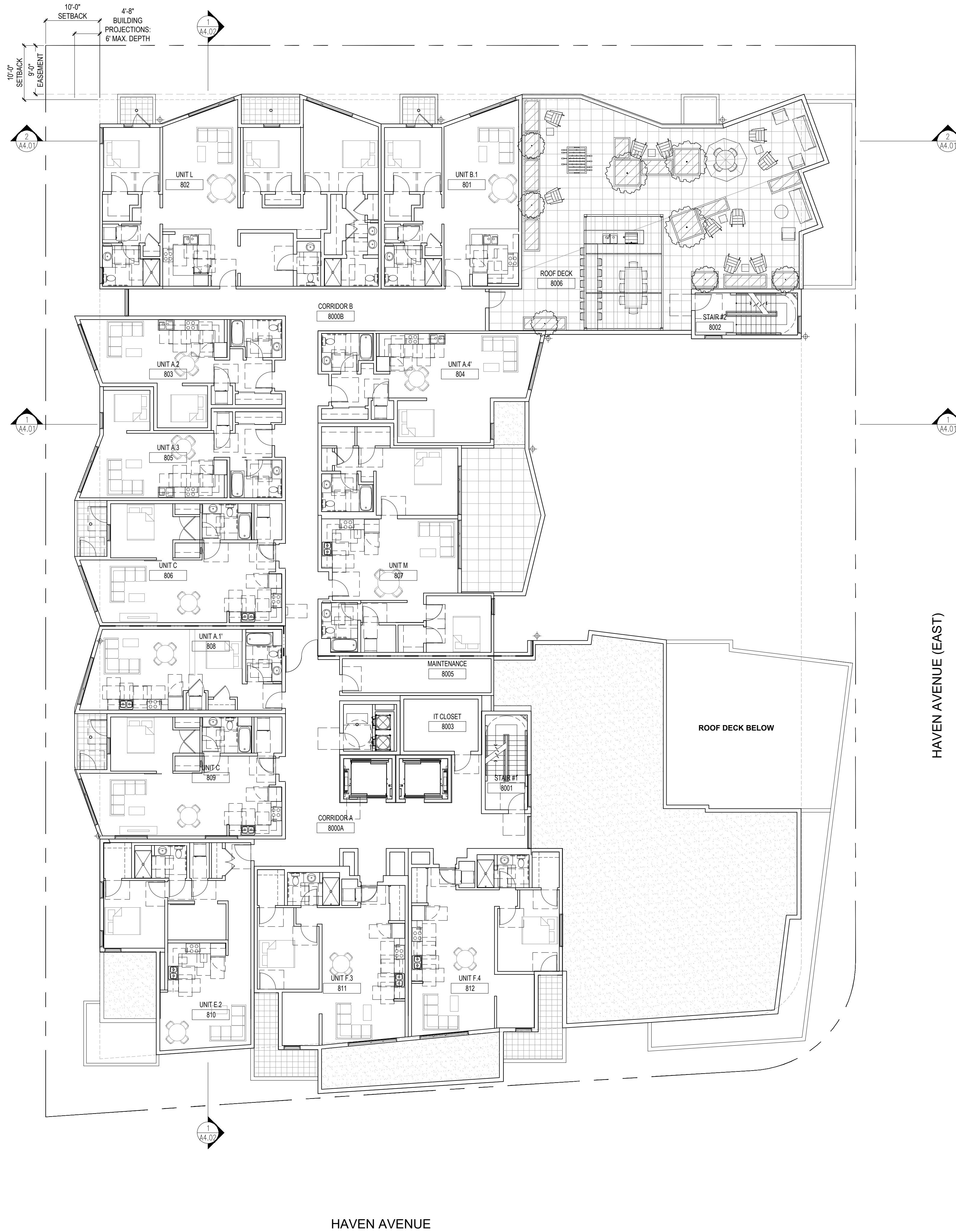
LEGEND

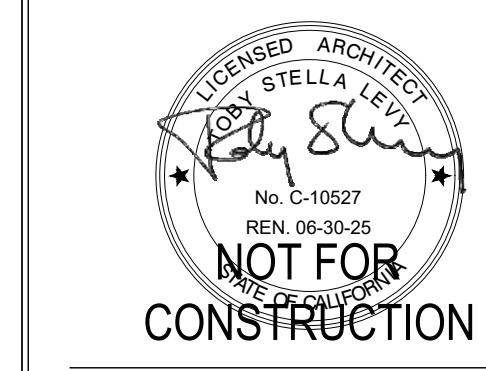
---	PROPERTY LINE	○	DRAIN
---	1-HR. FIRE RATED WALL	⊕	DOWNSPOUT
---	2-HR. FIRE RATED WALL	→	ROOF SLOPE
---	3-HR. FIRE RATED WALL	⊠	WALL ASSEMBLY, SEE A8 SERIES
□	NON-OCCUPIABLE ROOF		
▨	ROOF PAVERS, OCCUPIED ROOF; SEE A2 SERIES		
▩	HARDSCAPE AREA, S.L.D.	▨	ACCESSIBLE DRIVE AISLE, 8'-2" MIN. VERTICAL CLR.
▩	LANDSCAPE AREA, S.L.D.		

DIMENSION NOTES

- WALL FRAMING: ALL DIMENSIONS ARE TO FACE OF STUD, U.O.N.
- SEE ENLARGED PLANS/DETAILS FOR DIMENSIONS NOT SHOWN HERE.

PROJECT NORTH		TRUE NORTH	
---------------	--	------------	--





3705 HAVEN AVE  
MENLO PARK, CA  
PROJECT NO. 21-07  
PARCEL NO. 055170240

REV	DATE	DESCRIPTION
04-14-2023	PLANNING & SB330	REV 2
09-22-2023	PLANNING & SB330	REV 3
03-20-2024	PLANNING & SB330	REV 4
06-13-2024	PLANNING & SB330	REV 5
07-26-2024	PLANNING & SB330	REV 6

CONTACT: TOBY LEVY

(415) 777-0561 P  
(415) 777-5117 F

SCALE: AS NOTED

**ROOF PLAN**

**A2.09**

### GENERAL NOTES

- SEE CIVIL, LANDSCAPE, MECHANICAL, PLUMBING, ELECTRICAL & STRUCTURAL DRAWINGS FOR ADDITIONAL SCOPE OF WORK.
- SEE G1 SERIES FOR ADDITIONAL CLEARANCES & DETAIL NOT SHOWN
- SEE A3 SERIES FOR LOCATION OF EXTERIOR WALL FINISH TRANSITIONS
- SEE A5 SERIES FOR UNIT DIMENSIONS, UNIT WALL TYPES, UNIT DOOR TAGS AND UNIT REFLECTED CEILING PLANS
- SEE A8 SERIES FOR WALL, FLOOR & ROOF ASSEMBLIES
- SEE A9 SERIES FOR DOOR, WINDOW & FINISH SCHEDULES
- SEE A10 SERIES FOR TYPICAL FOUNDATION DETAILS
- SEE A11 SERIES FOR GENERAL ACOUSTICAL DETAILS
- PROVIDE 1 HOUR CONSTRUCTION WITH SOUND INSULATION BETWEEN RESIDENTIAL UNITS AND BETWEEN RESIDENTIAL UNITS AND PUBLIC AREAS (50 STC MIN.) PER 2016 CBC SECTION 1206.
- CONTRACTOR TO PROVIDE SOLID & CONTINUOUS BACKING FOR ALL WALL MTD. FIXTURES, ACCESSORIES, MILLWORK, EQUIPMENT RACKS, SHELVING, ETC. ALL BLOCKING TO BE SAME GAUGE AS FRAMING OR GREATER.
- EXHAUST SHAFTS SHALL COMPLY WITH 2022 CBC SECTION 713, PROTECTED BY APPROVED FIRE DAMPERS. S.M.D. FOR MORE INFORMATION.
- ALL PENETRATIONS SHALL CONFORM PER 2022 CBC SECTION 714; SEE SHEET A11 SERIES FOR MORE INFORMATION
- ALL HABITABLE ROOMS SHALL BE HEATED PER 2022 CBC 1203
- ALL UNITS TO HAVE UNIT ENTRY SIGNAGE
- PROVIDE FLOOR DRAINS, SLOPE 1/4" FOOT.
- PAINT ALL EXPOSED MECHANICAL, PLUMBING, ELECTRICAL AND FIRE LINES THROUGHOUT
- ALL STRUCTURAL COLUMNS & POSTS, AND THEIR CONNECTION TO OTHER STRUCTURAL MEMBERS, ARE TO BE FIRE RATED. IF COLUMNS & POSTS ARE WITHIN WALLS, COLUMNS & POSTS TO BE INDIVIDUALLY ENCASED IN GYP. BD. IF COLUMN & POSTS ARE EXPOSED, COLUMNS & POSTS TO BE SPRAYED WITH INTUMESCENT PAINT. SEE A8 SERIES FOR ADDITIONAL DETAILS.
- 5 LB. CLASS ABC FIRE EXTINGUISHER SPACED SO THAT EVERY INTERIOR SPACE IS WITHIN 75' TO AN EXTINGUISHER. CABINET TO NOT PROTRUDE MORE THAN 4" INTO WALKWAYS. SEE A11 SERIES FOR RECESS CABINET INSTALLATION DETAIL
- BUILDING IS REQUIRED TO MEET 2022 CBC SECTION 1206 SOUND TRANSMISSION REQUIREMENTS.

### SHEET NOTES

- REPLACE (E) SIDEWALK CONCRETE, CURB & GUTTER; S.C.D. & S.L.D.
- PROPERTY LINE; S.C.D.
- (N) CURB CUT; S.C.D.
- (N) STREET TREE; S.L.D.
- (E) STREET TREE TO REMAIN; S.L.D.
- (N) PAVING; TYP. THROUGHOUT, S.L.D.
- (N) LANDSCAPING; TYP. THROUGHOUT, S.L.D.
- (N) FENCING; TYP. THROUGHOUT, S.L.D.
- BUILDING INTERCOM SYSTEM; S.E.D.
- (N) ENTRY STAIRS & RAMP; S.L.D.
- SHORT TERM BIKE PARKING; S.L.D.
- LONG TERM BIKE PARKING; S.L.D.
- 42" GUARD
- FLOOR/ROOF ABOVE, TYP.
- BUILDING EDGE BELOW, TYP.
- ROOF, SLOPE MIN. 1/4" PER FT TO DRAIN; SEE A8 SERIES
- NO ROOF OPENINGS WITHIN 4' OF FIREWALL. ALL ROOF SHEATHING WITHIN 4' OF FIREWALL TO BE FRT
- OCCUPIABLE DECK; S.L.D.
- NON-OCCUPIABLE ROOF
- MECHANICAL & PLUMBING EQUIPMENT; S.M.D. & S.P.D.
- ELECTRICAL METERS; S.E.D.
- GSM GUTTER, PAINT; S.P.D.
- GSM DOWNSPOUT, PAINT; S.P.D.
- RECESSED FIRE EXTINGUISHER 5LB, CLASS ABC, SEE DETAIL 19/A11.04
- 2-WAY EMERGENCY COMMUNICATION SYSTEM; WIRING IN 2 HR. RATED CONDUIT
- MAILBOX AND PACKAGE SYSTEM

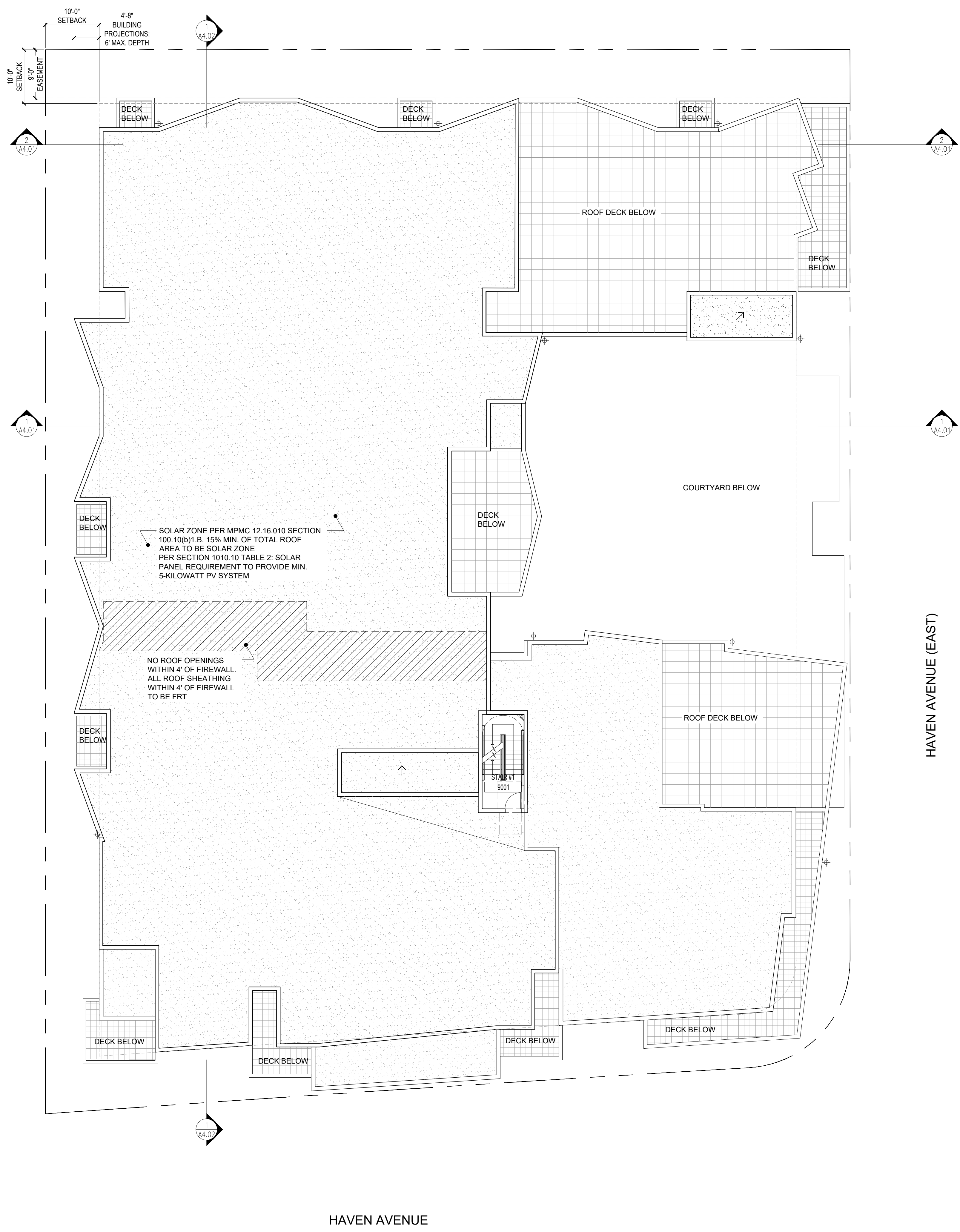
### LEGEND

---	PROPERTY LINE	○	DRAIN
---	1-HR. FIRE RATED WALL	⊕	DOWNSPOUT
---	2-HR. FIRE RATED WALL	→	ROOF SLOPE
---	3-HR. FIRE RATED WALL	⊠	WALL ASSEMBLY, SEE A8 SERIES
□	NON-OCCUPIABLE ROOF		
▨	ROOF PAVERS, OCCUPIED ROOF; SEE A2 SERIES		
▩	HARDSCAPE AREA, S.L.D.	▨	ACCESSIBLE DRIVE AISLE, 8'-2" MIN. VERTICAL CLR.
▩	LANDSCAPE AREA, S.L.D.		

### DIMENSION NOTES

- WALL FRAMING: ALL DIMENSIONS ARE TO FACE OF STUD, U.O.N.
- SEE ENLARGED PLANS/DETAILS FOR DIMENSIONS NOT SHOWN HERE.

PROJECT NORTH		TRUE NORTH	
---------------	--	------------	--





**3705 HAVEN AVE  
MENLO PARK, CA**



3705 HAVEN AVE  
MENLO PARK, CA

PROJECT NO. 21-07  
PARCEL NO. 055170240

REV | DATE | DESCRIPTION

04-14-2023	PLANNING & SB330 REV 2
09-22-2023	PLANNING & SB330 REV 3
03-20-2024	PLANNING & SB330 REV 4
06-13-2024	PLANNING & SB330 REV 5
07-26-2024	PLANNING & SB330 REV 6

CONTACT: TOBY LEVY

(415) 777-0561 P  
(415) 777-5117 F

SCALE:  
**AS NOTED**

**RENDERING**

**A3.00A**



**2** 3D VIEW FROM CORNER OF HAVEN STREET  
N.T.S.



**1** 3D VIEW FROM HAVEN STREET EAST  
N.T.S.

**LEGEND**

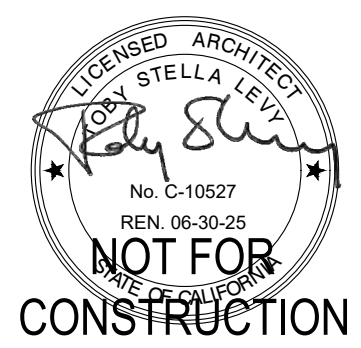
- 1A CEMENT PLASTER, COLOR #1
- 1B CEMENT PLASTER, COLOR #2
- 1C CEMENT PLASTER, COLOR #2
- 2A FIBER CEMENT PANEL, CEMBRIT PATTERN #1
- 2B FIBER CEMENT PANEL, CEMBRIT PATTERN #2
- 3 FIBER CEMENT PANEL, JAMES HARDIE
- 4A METAL PANEL, AEP SPAN FLEX SERIES, PATTERN #1
- 4B METAL PANEL, AEP SPAN FLEX SERIES, PATTERN #2
- 5 WOOD LOOK ALUMINUM SLAT, KNOTWOOD SIDING
- 6 TILE PANEL
- 7 GUARDRAIL, VERTICAL RECTANGULAR METAL PICKET
- 7A GUARDRAIL, OPEN SQUARE METAL WIRE
- 8 SUNSHADE
- 9 FRAMED PERFORATED METAL PANEL
- 10 LANDSCAPING; S.L.D.
- 11 FENCING; S.L.D.
- 12 GARAGE DOOR
- 13 MURAL OR TILE MOSAIC
- 14 LANDSCAPE PORTAL, S.L.D.

**LEGEND**

--- PROPERTY LINE



**3705 HAVEN AVE  
MENLO PARK, CA**



3705 HAVEN AVE  
MENLO PARK, CA

PROJECT NO. 21-07  
PARCEL NO. 055170240

REV	DATE	DESCRIPTION
04-14-2023	PLANNING & SB330 REV 2	
09-22-2023	PLANNING & SB330 REV 3	
03-20-2024	PLANNING & SB330 REV 4	
06-13-2024	PLANNING & SB330 REV 5	
07-26-2024	PLANNING & SB330 REV 6	

CONTACT: TOBY LEVY

(415) 777-0561 P  
(415) 777-5117 F

SCALE:  
**AS NOTED**

**RENDERING**

**A3.00B**

**LEGEND**

- 1A CEMENT PLASTER, COLOR #1
- 1B CEMENT PLASTER, COLOR #2
- 1C CEMENT PLASTER, COLOR #2
- 2A FIBER CEMENT PANEL, CEMBRIT PATTERN #1
- 2B FIBER CEMENT PANEL, CEMBRIT PATTERN #2
- 3 FIBER CEMENT PANEL, JAMES HARDIE
- 4A METAL PANEL, AEP SPAN FLEX SERIES, PATTERN #1
- 4B METAL PANEL, AEP SPAN FLEX SERIES, PATTERN #2
- 5 WOOD LOOK ALUMINUM SLAT, KNOTWOOD SIDING
- 6 TILE PANEL
- 7 GUARDRAIL, VERTICAL RECTANGULAR METAL PICKET
- 7A GUARDRAIL, OPEN SQUARE METAL WIRE
- 8 SUNSHADE
- 9 FRAMED PERFORATED METAL PANEL
- 10 LANDSCAPING; S.L.D.
- 11 FENCING; S.L.D.
- 12 GARAGE DOOR
- 13 MURAL OR TILE MOSAIC
- 14 LANDSCAPE PORTAL, S.L.D.

**LEGEND**

--- PROPERTY LINE



**2** 3D VIEW FROM REAR CORNER OF HAVEN STREET  
N.T.S.



**1** 3D VIEW FROM HAVEN STREET SOUTH  
N.T.S.





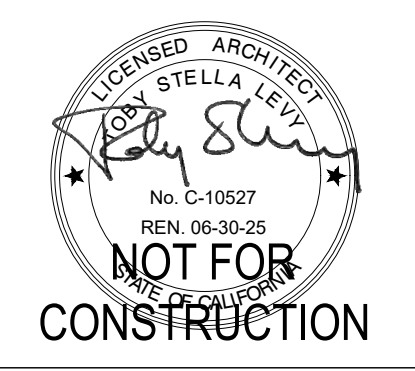
**2 ELEVATION : HAVEN STREET SOUTH**  
3/32" = 1'-0"

ADDRESS SIGNAGE: <15SF TO COMPLY WITH MPMC 16.92 BRUSHED SS, 18" TALL ARIAL BOLD  
 MAJOR BUILDING MODULATIONS: MIN. ONE RECESS OF 15" WIDE X 10" DEEP PER 200' FACADE

**LEGEND**

- 1A CEMENT PLASTER, COLOR #1
- 1B CEMENT PLASTER, COLOR #2
- 1C CEMENT PLASTER, COLOR #2
- 2A FIBER CEMENT PANEL, CEMBRIT PATTERN #1
- 2B FIBER CEMENT PANEL, CEMBRIT PATTERN #2
- 3 FIBER CEMENT PANEL, JAMES HARDIE
- 4A METAL PANEL, AEP SPAN FLEX SERIES, PATTERN #1
- 4B METAL PANEL, AEP SPAN FLEX SERIES, PATTERN #2
- 5 WOOD LOOK ALUMINUM SLAT, KNOTWOOD SIDING
- 6 TILE PANEL
- 7 GUARDRAIL, VERTICAL RECTANGULAR METAL PICKET
- 7A GUARDRAIL, OPEN SQUARE METAL WIRE
- 8 SUNSHADE
- 9 FRAMED PERFORATED METAL PANEL
- 10 LANDSCAPING; S.L.D.
- 11 FENCING; S.L.D.
- 12 GARAGE DOOR
- 13 MURAL OR TILE MOSAIC
- 14 LANDSCAPE PORTAL, S.L.D.

**3705 HAVEN AVE  
MENLO PARK, CA**



3705 HAVEN AVE  
MENLO PARK, CA

PROJECT NO. 21-07  
PARCEL NO. 055170240

REV	DATE	DESCRIPTION
	04-14-2023	PLANNING & SB330 REV 2
	09-22-2023	PLANNING & SB330 REV 3
	03-20-2024	PLANNING & SB330 REV 4
	06-13-2024	PLANNING & SB330 REV 5
	07-26-2024	PLANNING & SB330 REV 6

CONTACT: TOBY LEVY  
  
(415) 777-0561 P  
(415) 777-5117 F

SCALE: AS NOTED

ELEVATIONS

**A3.01**



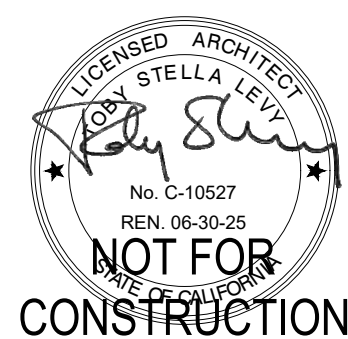
**1 ELEVATION : HAVEN STREET EAST**  
3/32" = 1'-0"

MAJOR BUILDING MODULATIONS: MIN. ONE RECESS OF 15" WIDE X 10" DEEP PER 200' FACADE



NOTICE:  
THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY AND COPYRIGHT OF LEVY DESIGN PARTNERS, INC. (LDP ARCHITECTURE) AND SHALL NOT BE USED EXCEPT BY WRITTEN AGREEMENT WITH LEVY DESIGN PARTNERS.

**3705 HAVEN AVE**  
**MENLO PARK, CA**



**CONSTRUCTION**

3705 HAVEN AVE  
MENLO PARK, CA

PROJECT NO. 21-07  
PARCEL NO. 055170240

REV | DATE | DESCRIPTION

04-14-2023	PLANNING & SB330 REV 2
09-22-2023	PLANNING & SB330 REV 3
03-20-2024	PLANNING & SB330 REV 4
06-13-2024	PLANNING & SB330 REV 5
07-26-2024	PLANNING & SB330 REV 6

CONTACT: TOBY LEVY

(415) 777-0561 P  
(415) 777-5117 F

SCALE:  
**AS NOTED**

**ELEVATIONS**

**A3.02**

**LEGEND**

- 1A CEMENT PLASTER, COLOR #1
- 1B CEMENT PLASTER, COLOR #2
- 1C CEMENT PLASTER, COLOR #3
- 2A FIBER CEMENT PANEL, CEMBRIT PATTERN #1
- 2B FIBER CEMENT PANEL, CEMBRIT PATTERN #2
- 3 FIBER CEMENT PANEL, JAMES HARDIE
- 4A METAL PANEL, AEP SPAN FLEX SERIES, PATTERN #1
- 4B METAL PANEL, AEP SPAN FLEX SERIES, PATTERN #2
- 5 WOOD LOOK ALUMINUM SLAT, KNOTWOOD SIDING
- 6 TILE PANEL
- 7 GUARDRAIL, VERTICAL RECTANGULAR METAL PICKET
- 7A GUARDRAIL, OPEN SQUARE METAL WIRE
- 8 SUNSHADE
- 9 FRAMED PERFORATED METAL PANEL
- 10 LANDSCAPING; S.L.D.
- 11 FENCING; S.L.D.
- 12 GARAGE DOOR
- 13 MURAL OR TILE MOSAIC
- 14 LANDSCAPE PORTAL, S.L.D.



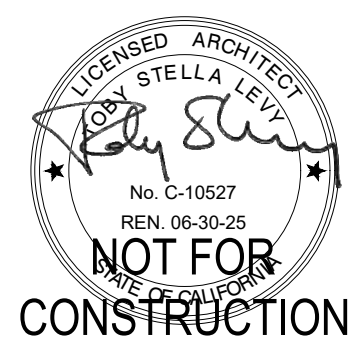
**2 ELEVATION : WEST**  
3/32" = 1'-0"



**1 ELEVATION : NORTH**  
3/32" = 1'-0"



**3705 HAVEN AVE  
MENLO PARK, CA**



3705 HAVEN AVE  
MENLO PARK, CA

PROJECT NO. 21-07  
PARCEL NO. 055170240

REV	DATE	DESCRIPTION
	04-14-2023	PLANNING & SB330 REV 2
	09-22-2023	PLANNING & SB330 REV 3
	03-20-2024	PLANNING & SB330 REV 4
	06-13-2024	PLANNING & SB330 REV 5
	07-26-2024	PLANNING & SB330 REV 6

CONTACT: TOBY LEVY

(415) 777-0561 P  
(415) 777-5117 F

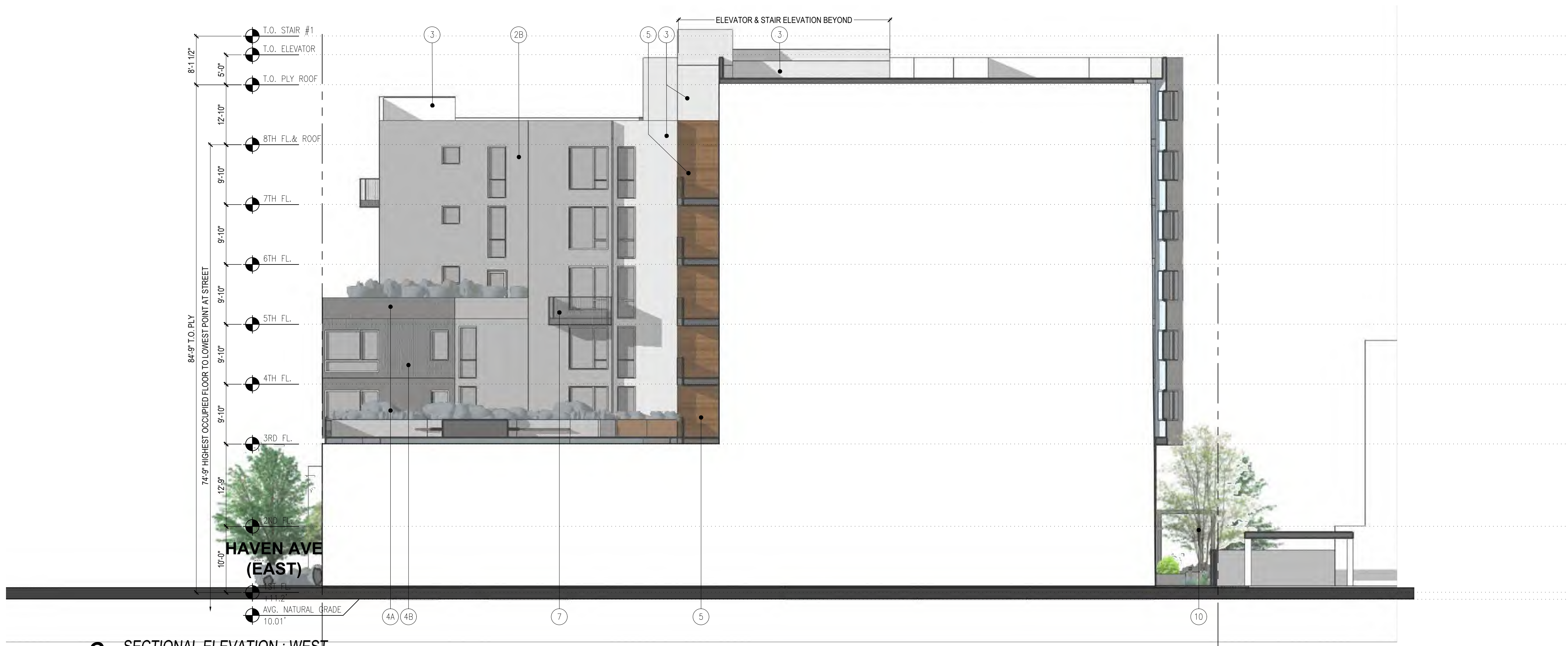
SCALE:  
AS NOTED

ELEVATIONS

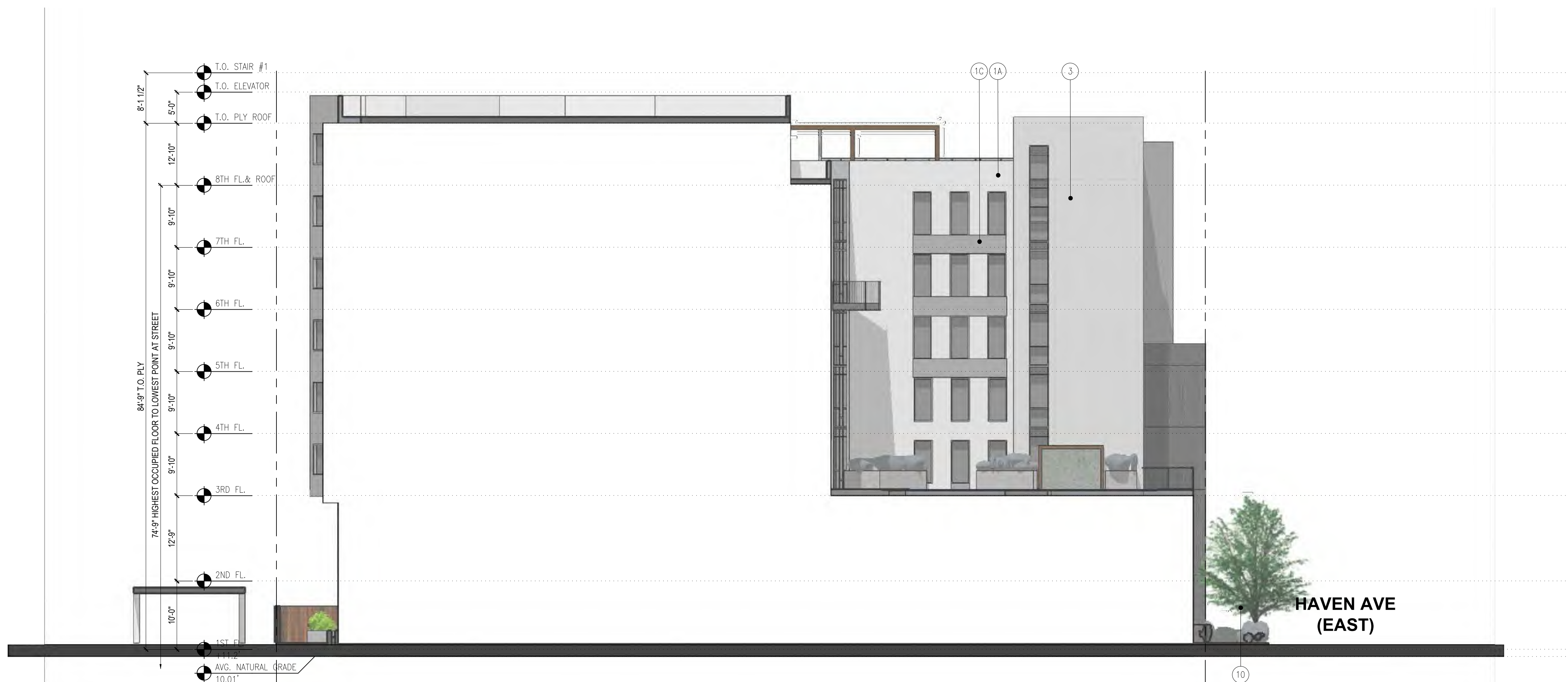
**A3.03**

**LEGEND**

- (1A) CEMENT PLASTER, COLOR #1
- (1B) CEMENT PLASTER, COLOR #2
- (1C) CEMENT PLASTER, COLOR #2
- (2A) FIBER CEMENT PANEL, CEMBRIT PATTERN #1
- (2B) FIBER CEMENT PANEL, CEMBRIT PATTERN #2
- (3) FIBER CEMENT PANEL, JAMES HARDIE
- (4A) METAL PANEL, AEP SPAN FLEX SERIES, PATTERN #1
- (4B) METAL PANEL, AEP SPAN FLEX SERIES, PATTERN #2
- (5) WOOD LOOK ALUMINUM SLAT, KNOTWOOD SIDING
- (6) TILE PANEL
- (7) GUARDRAIL, VERTICAL RECTANGULAR METAL PICKET
- (7A) GUARDRAIL, OPEN SQUARE METAL WIRE
- (8) SUNSHADE
- (9) FRAMED PERFORATED METAL PANEL
- (10) LANDSCAPING; S.L.D.
- (11) FENCING; S.L.D.
- (12) GARAGE DOOR
- (13) MURAL OR TILE MOSAIC
- (14) LANDSCAPE PORTAL, S.L.D.

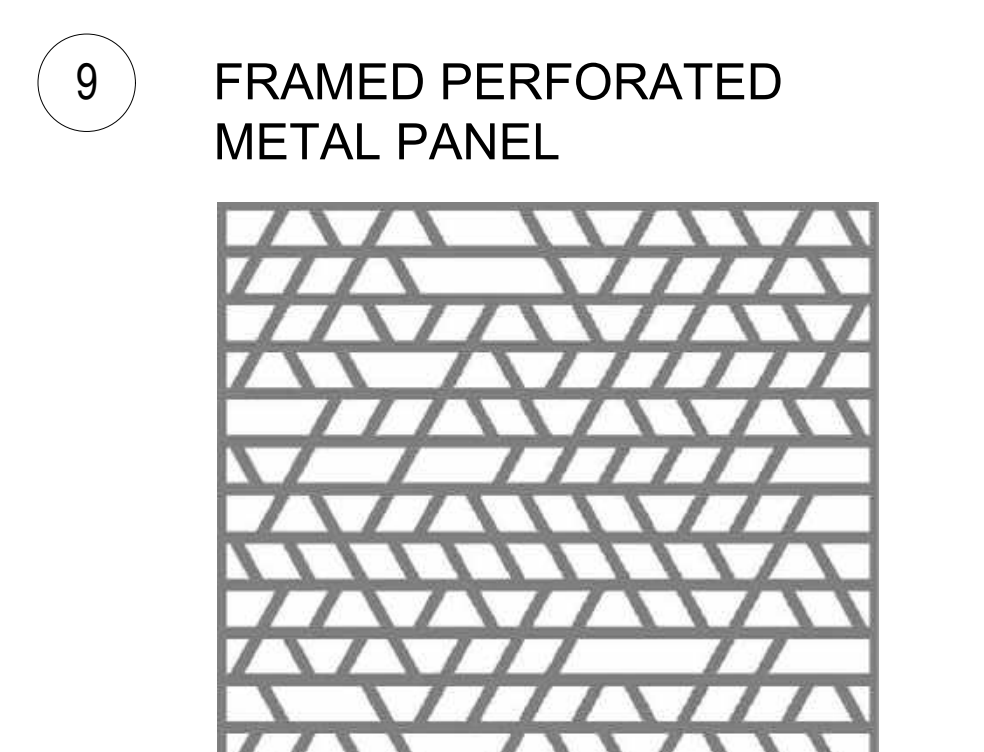
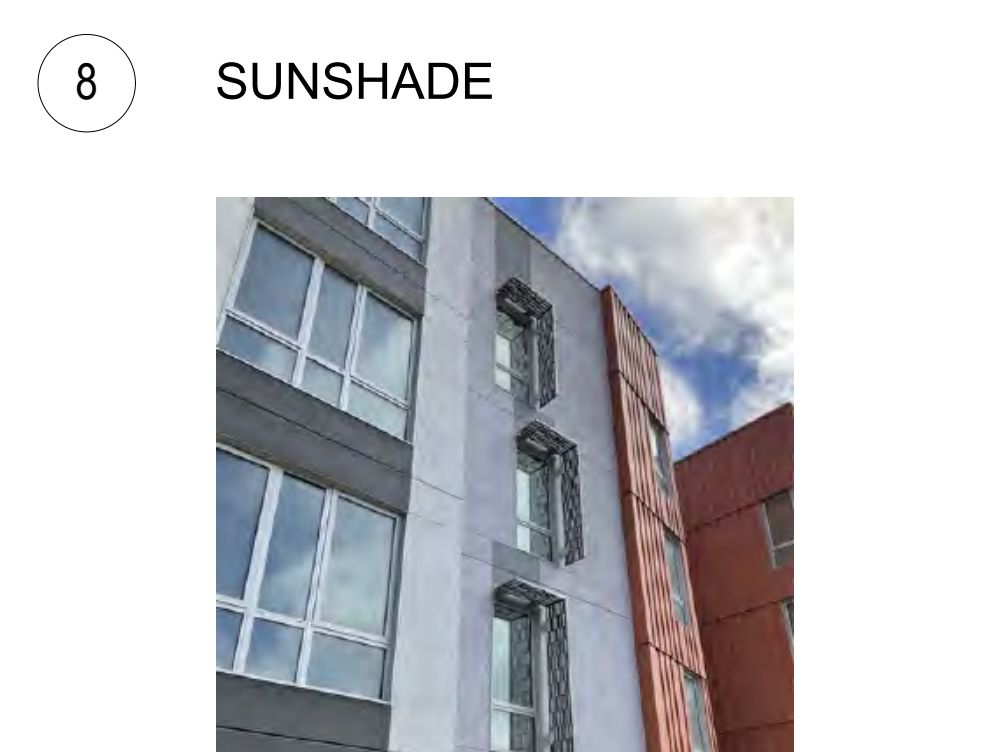
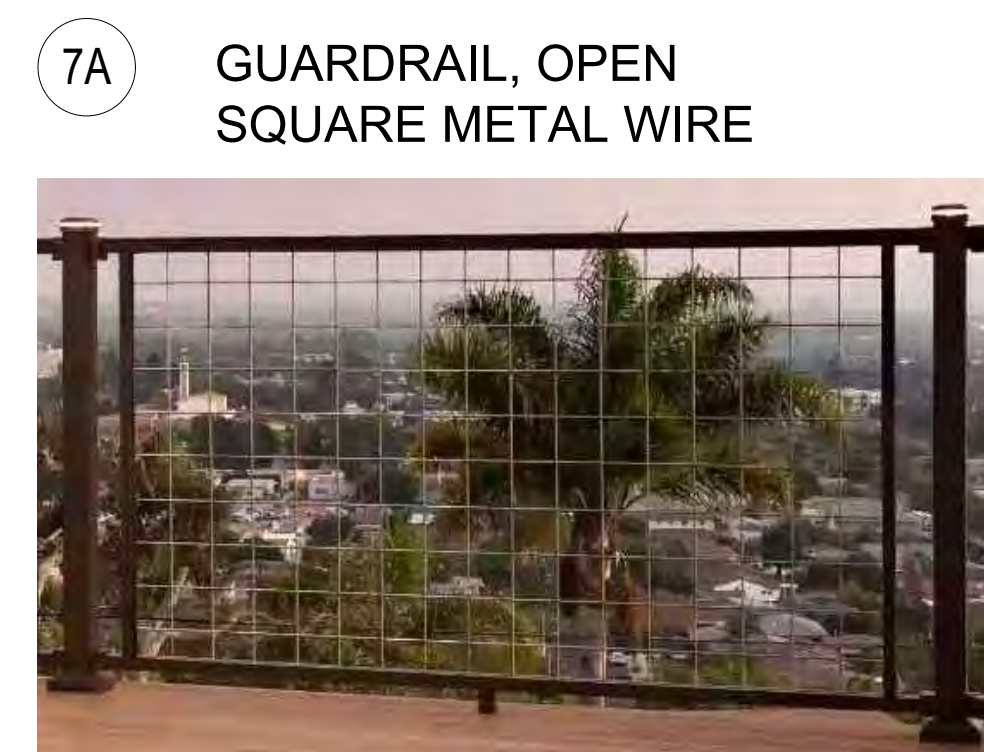
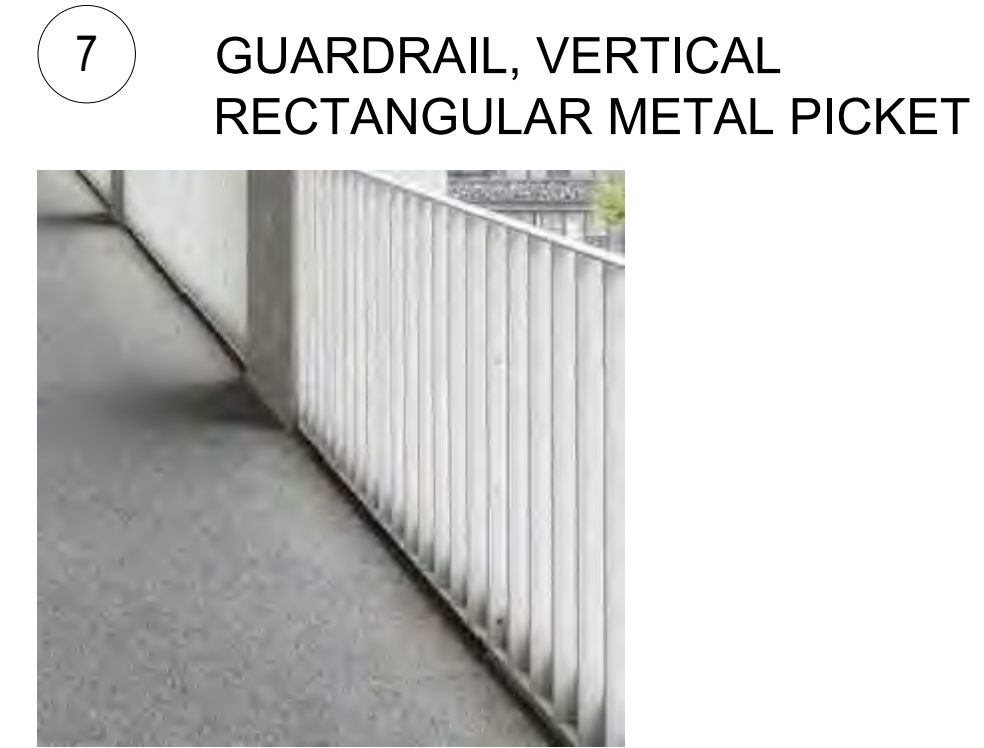
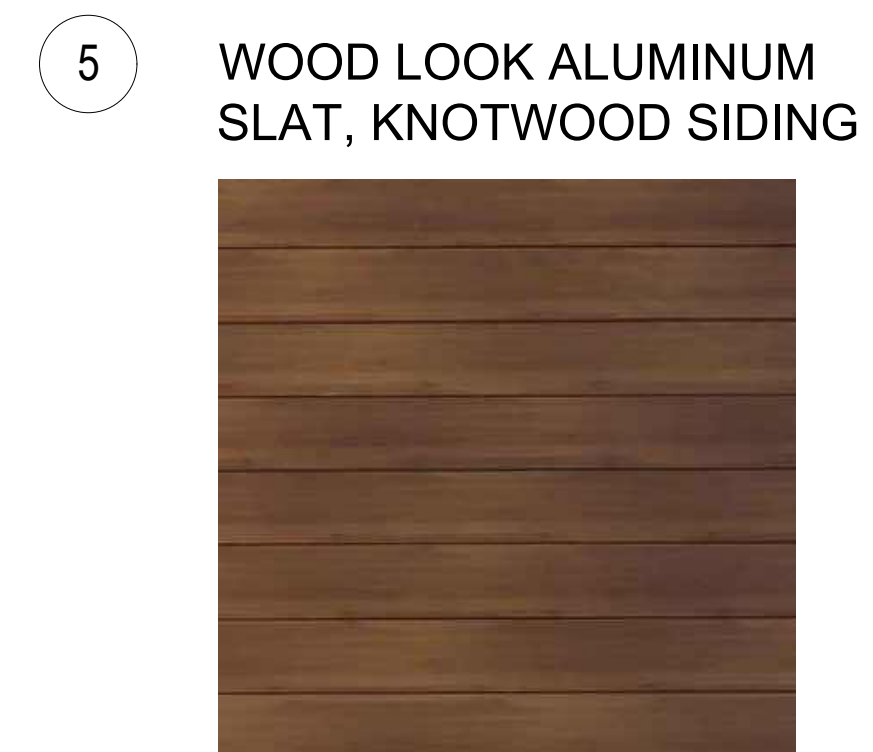
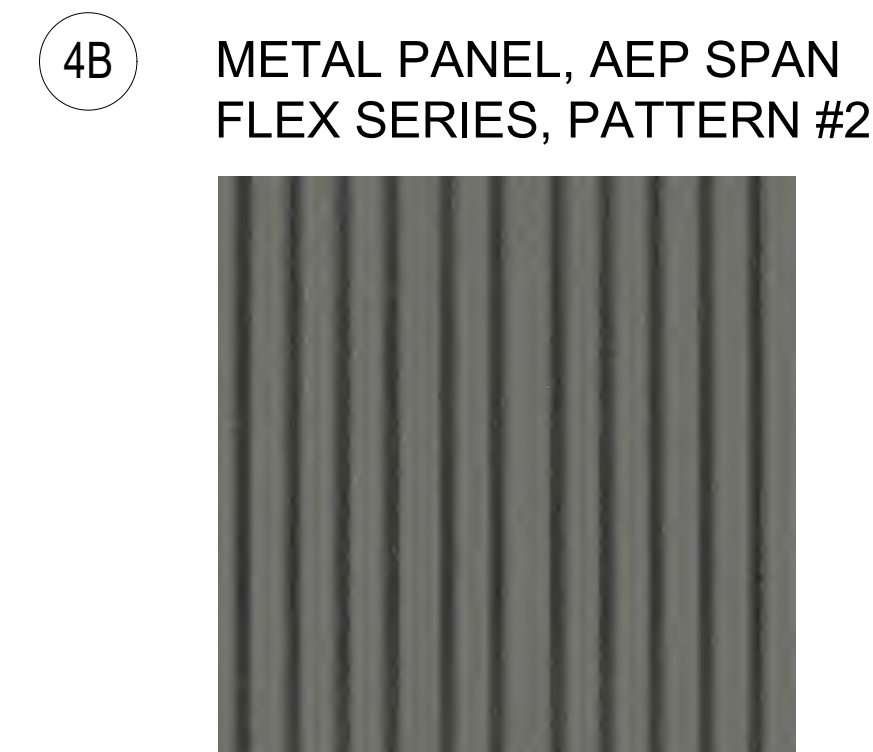
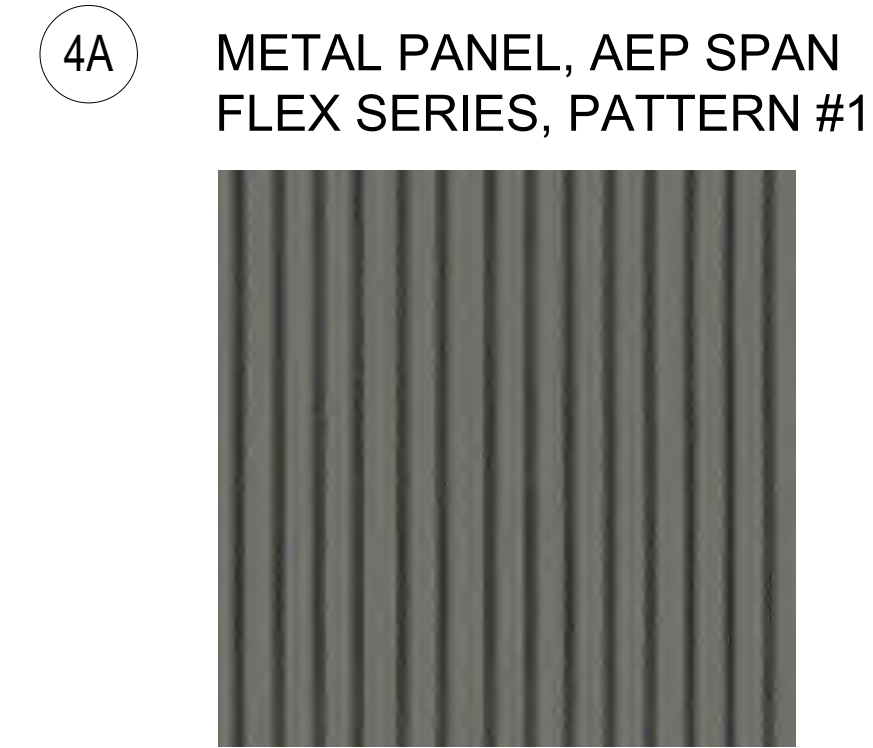
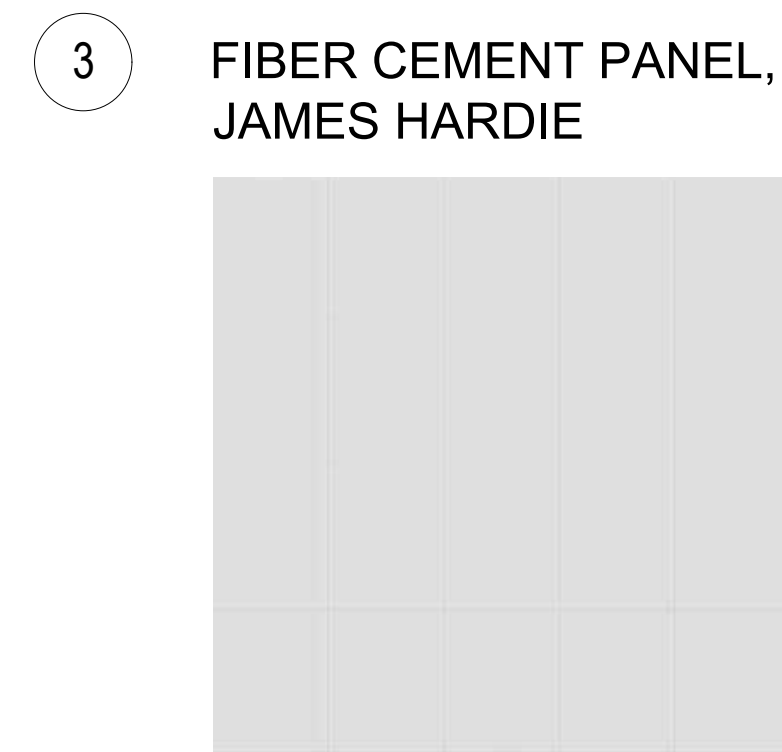
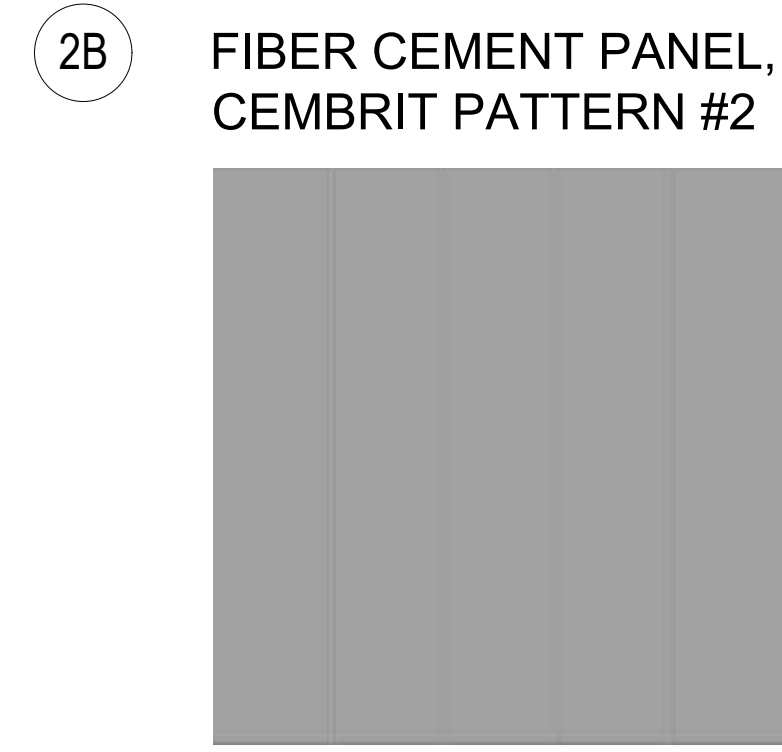
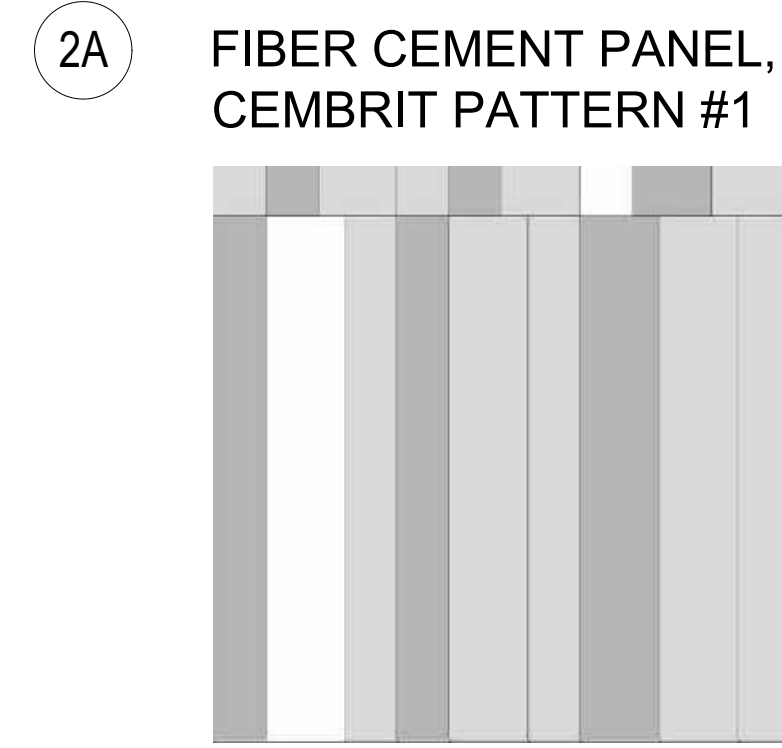
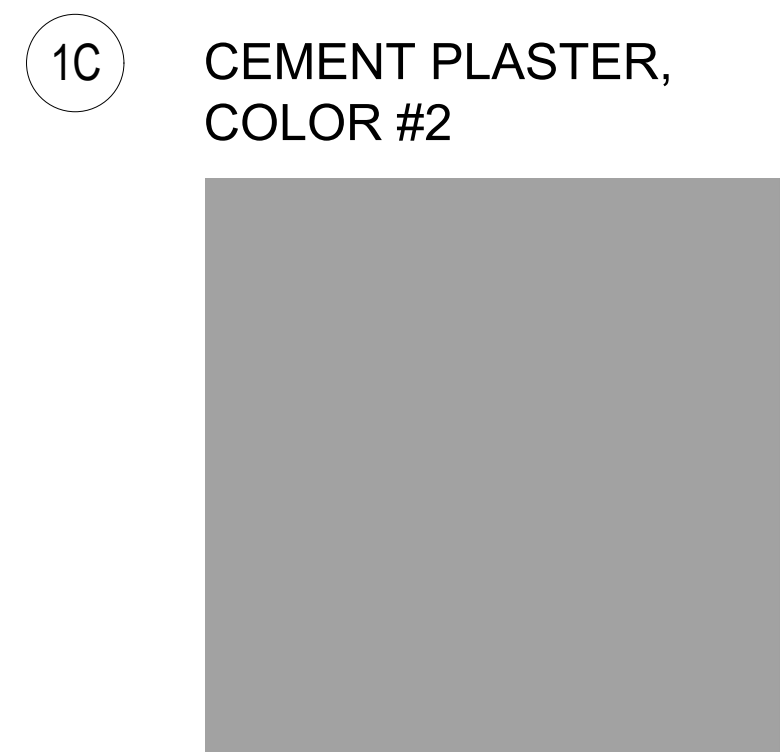
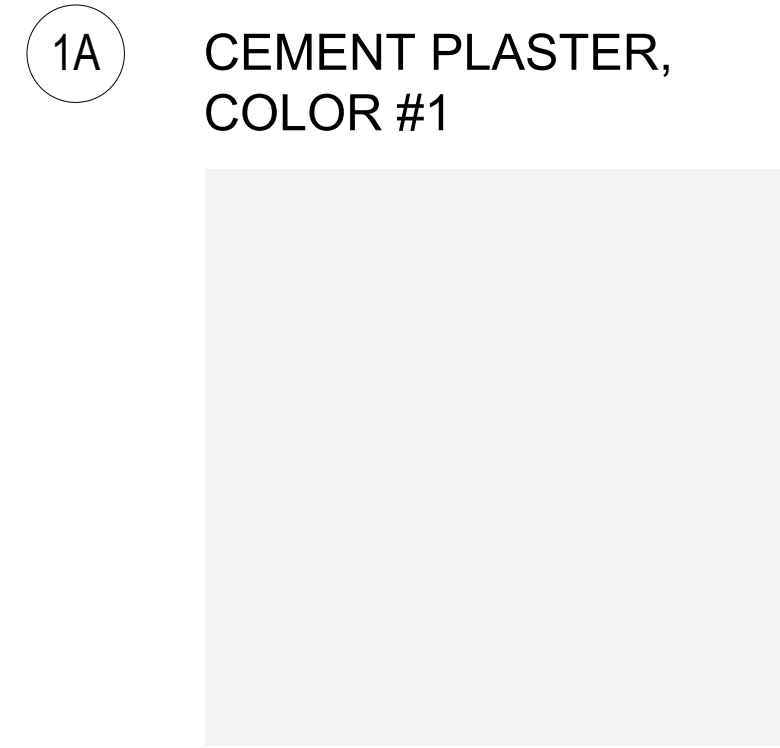


**2** SECTIONAL ELEVATION : WEST  
3/32" = 1'-0"

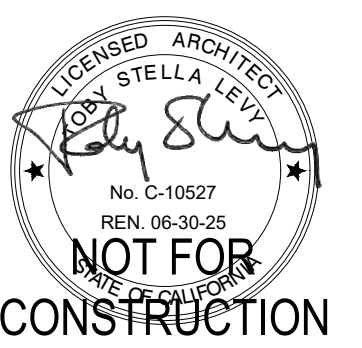
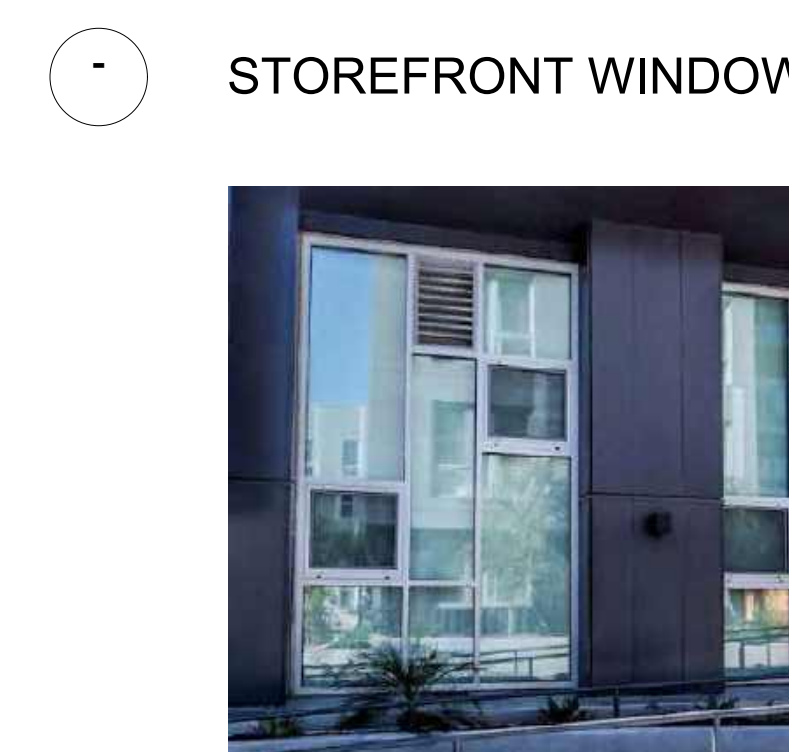
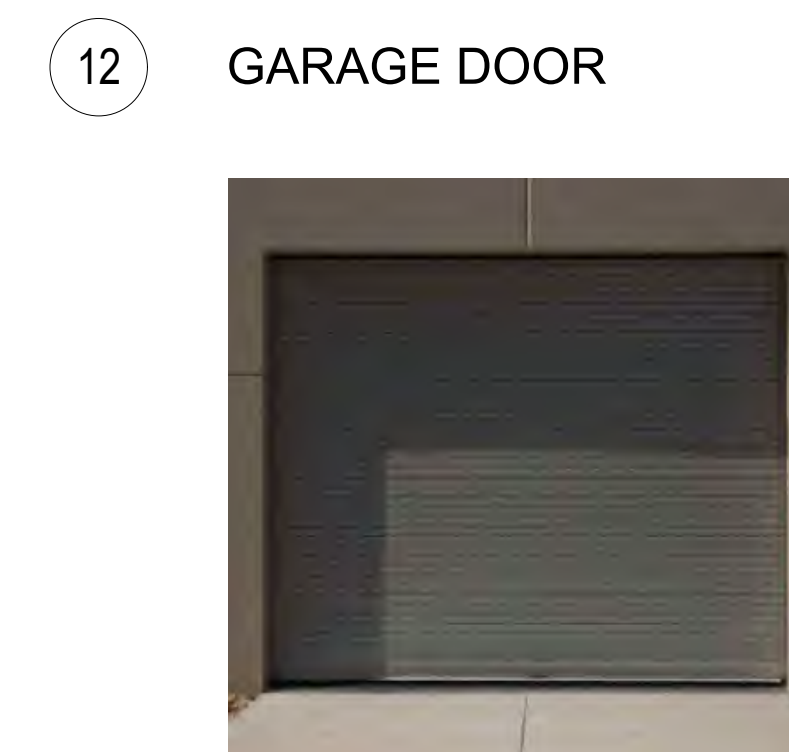


**1** SECTIONAL ELEVATION : NORTH  
3/32" = 1'-0"





10 LANDSCAPING; S.L.D.  
11 FENCING; S.L.D.



3705 HAVEN AVE  
MENLO PARK, CA

PROJECT NO. 21-07  
PARCEL NO. 055170240

REV	DATE	DESCRIPTION
04-14-2023	PLANNING & SB330 REV 2	
09-22-2023	PLANNING & SB330 REV 3	
03-20-2024	PLANNING & SB330 REV 4	
06-13-2024	PLANNING & SB330 REV 5	
07-26-2024	PLANNING & SB330 REV 6	

CONTACT: TOBY LEVY

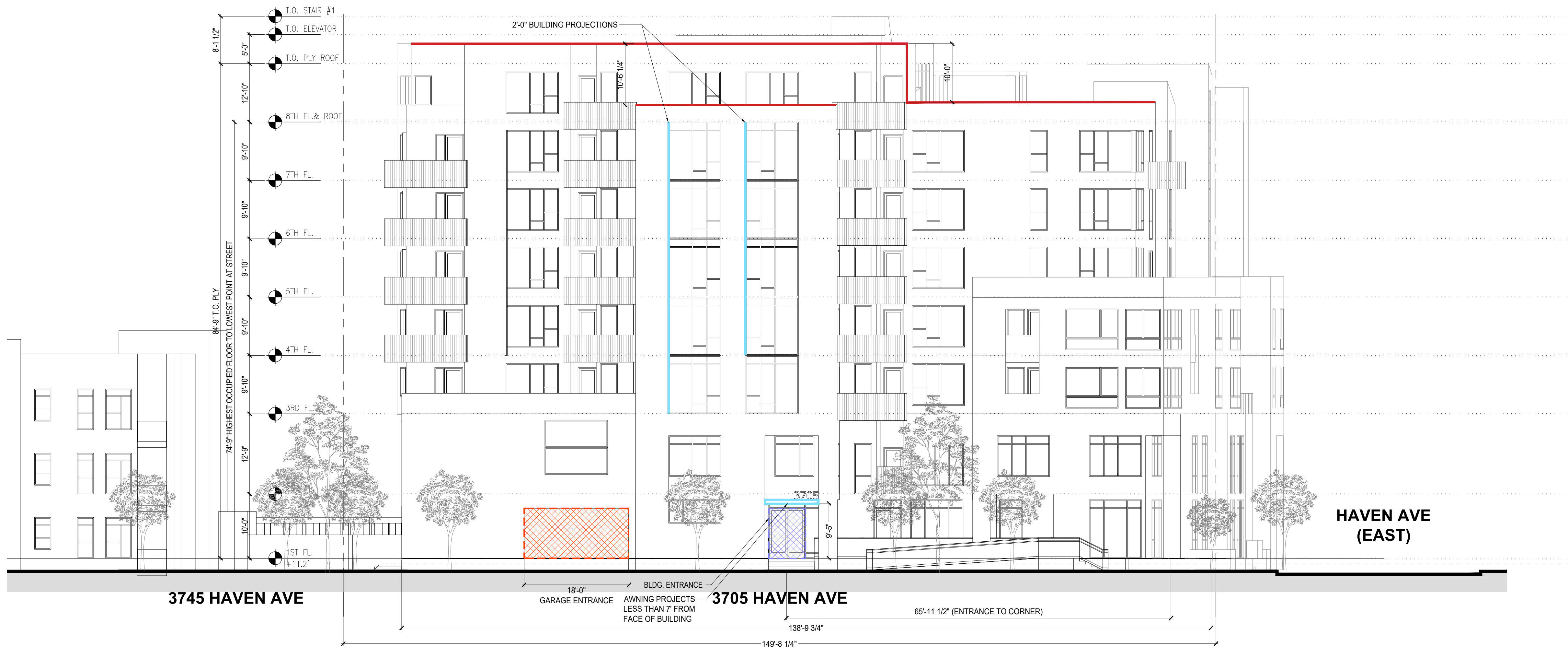
(415) 777-0561 P  
(415) 777-5117 F

SCALE:  
AS NOTED

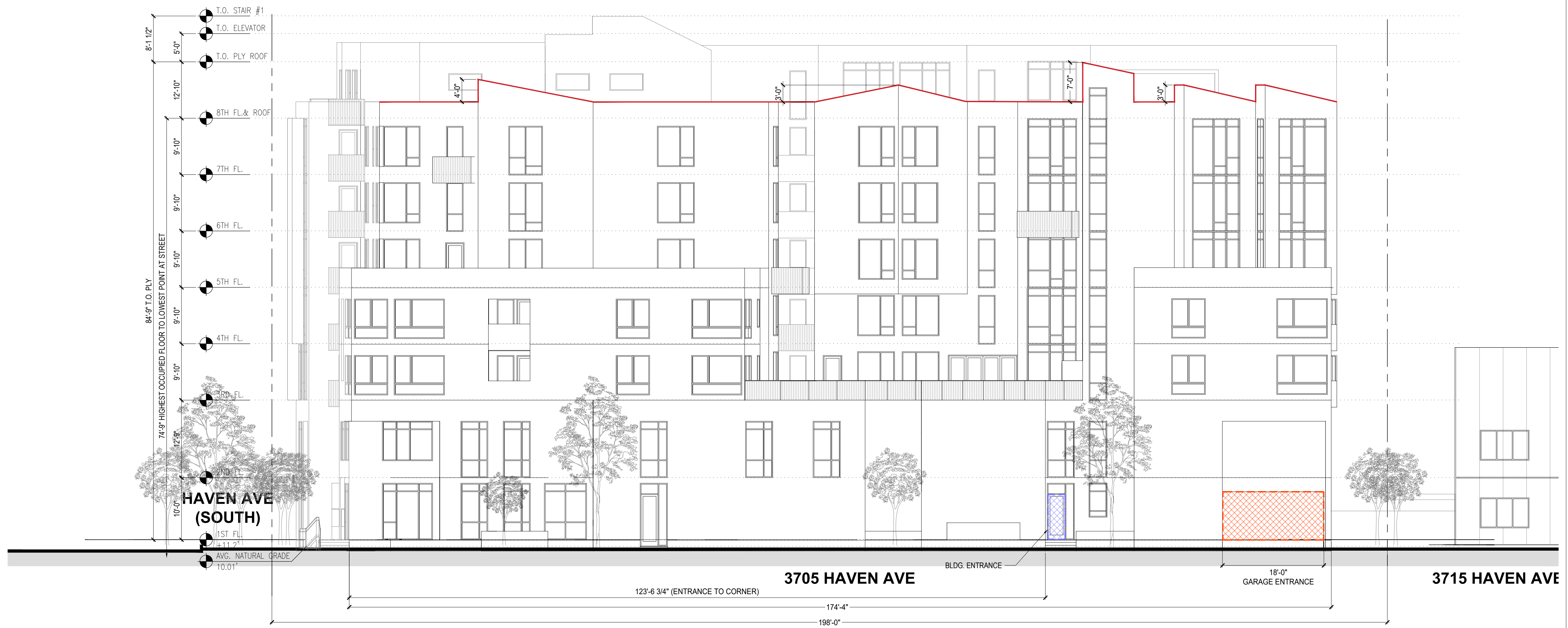
MATERIALS

SEE RENDERINGS & ELEVATIONS FOR ADDITIONAL INFORMATION NOT SHOWN ON THIS SHEET





**2 ELEVATION : HAVEN STREET SOUTH - STREET FRONTAGE**  
3/32" = 1'-0"



**1 ELEVATION : HAVEN STREET EAST - STREET FRONTAGE**  
3/32" = 1'-0"

**SHEET NOTES**

PROJECT NORTH TRUE NORTH

--- PROPERTY LINE

**MUNICIPAL CODE 16.45.120 (1) - Build-To Area Requirement**  
Minimum 60% of street frontage within 25'-0" of setback.  
The minimum building frontage at the ground floor or podium level, as a percentage of the street frontage length, that must be located within the area of the lot between the minimum and maximum setback lines parallel to the street.

HAVEN EAST: LENGTH OF BUILDING FRONTAGE: 198'-0"  
MIN. FRONTAGE WITHIN SETBACKS: 198'-0" X 60% = 118'-9"  
PROPOSED FRONTAGE WITHIN SETBACKS: 174'-4" > 118'-9"  
COMPLIES

HAVEN SOUTH LENGTH OF BUILDING FRONTAGE: 149'-8 1/2"  
MIN. FRONTAGE WITHIN SETBACKS: 149'-8 1/2" X 60% = 89'-9"  
PROPOSED FRONTAGE WITHIN SETBACKS: 138'-9 3/4" > 89'-9"  
COMPLIES

**MUNICIPAL CODE 16.45.120 (3) - BUILDING ENTRANCES**  
One entrance every 200 feet of building length along a public street or paseo. A minimum of one is required along each length.

BUILDING ENTRANCES

**MUNICIPAL CODE 16.45.120 (3) - GARAGE ENTRANCES**  
Maximum 12-foot opening for one-way entrance; maximum 24-foot opening for two-way entrance

GARAGE ENTRANCES

**MUNICIPAL CODE 16.45.120 (3) - AWNINGS, SIGNS & CANOPIES**  
The maximum depth of awnings, signs, and canopies that project horizontally from the face of the building is 7 feet.

AWNING

**MUNICIPAL CODE 16.45.120 (6) (G) - Rooflines and eaves**  
adjacent to street-facing facades shall vary across a building, including a four (4) foot minimum height modulation to break visual monotony and create a visually interesting skyline as seen from public streets

ROOF LINE

**MUNICIPAL CODE 16.45.120 (6) (F) - Stucco** shall not be used on more than fifty percent (50%) of the building facade. When stucco is used, it must be smooth troweled.

Building Complies, no stucco is used at street frontages



NOTICE: THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY AND COPYRIGHT OF LEVY DESIGN PARTNERS, INC. (LDP ARCHITECTURE) AND SHALL NOT BE USED EXCEPT BY WRITTEN AGREEMENT WITH LEVY DESIGN PARTNERS.

**3705 HAVEN AVE  
MENLO PARK, CA**



3705 HAVEN AVE  
MENLO PARK, CA  
PROJECT NO. 21-07  
PARCEL NO. 055170240

REV	DATE	DESCRIPTION
04-14-2023	PLANNING & SB330 REV 2	
09-22-2023	PLANNING & SB330 REV 3	
03-20-2024	PLANNING & SB330 REV 4	
06-13-2024	PLANNING & SB330 REV 5	
07-26-2024	PLANNING & SB330 REV 6	

CONTACT: TOBY LEVY  
(415) 777-0561 P  
(415) 777-5117 F

SCALE: AS NOTED

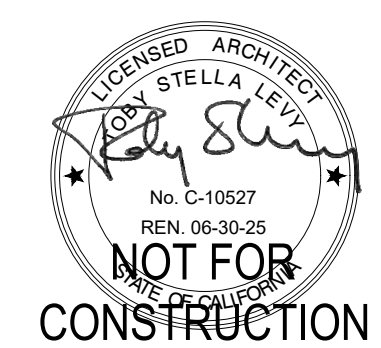
ZONING DIAGRAM

**A3.05A**



NOTICE: THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY AND COPYRIGHT OF LEVY DESIGN PARTNERS, INC. (LDP ARCHITECTURE) AND SHALL NOT BE USED EXCEPT BY WRITTEN AGREEMENT WITH LEVY DESIGN PARTNERS.

**3705 HAVEN AVE  
MENLO PARK, CA**



3705 HAVEN AVE  
MENLO PARK, CA

PROJECT NO. 21-07  
PARCEL NO. 055170240

REV	DATE	DESCRIPTION
04-14-2023	PLANNING & SB330 REV 2	
09-22-2023	PLANNING & SB330 REV 3	
03-20-2024	PLANNING & SB330 REV 4	
06-13-2024	PLANNING & SB330 REV 5	
07-26-2024	PLANNING & SB330 REV 6	

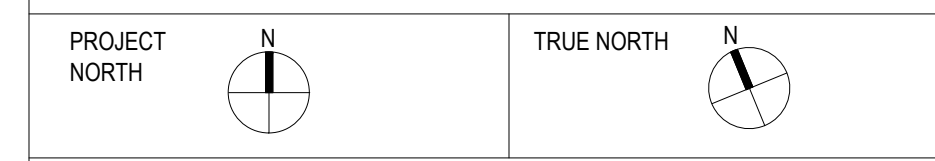
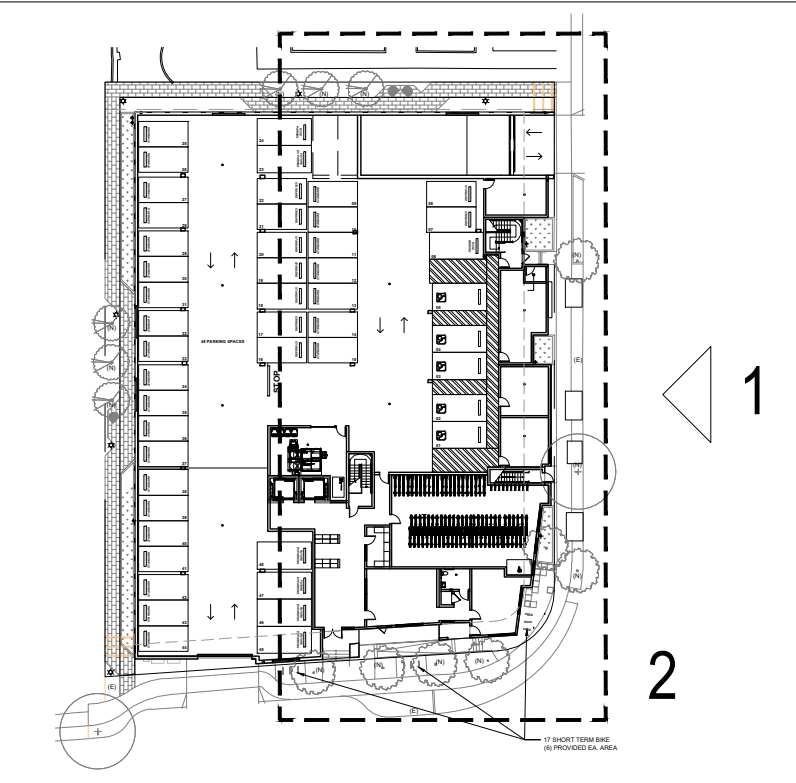
CONTACT: TOBY LEVY  
  
(415) 777-0561 P  
(415) 777-5117 F

SCALE: AS NOTED

ZONING DIAGRAM

**A3.05B**

**SHEET NOTES**



PROPERTY LINE

MUNICIPAL CODE 16.45.120 (2) -  
BASE HEIGHT : 45' + 10' = 55'  
The maximum height of a building at the minimum setback at street or before the building steps back the minimum horizontal distance required.  
Note: Properties within the flood zone or subject to flooding and sea level rise are allowed a 10-foot height increase : 55'

HEIGHT

MINIMUM SETBACK - The horizontal distance a building's upper stories must be set back above the base height.  
10 feet for a minimum of 75% of the building face along public streets. A maximum of 25% of building face along public streets may be excepted.

STEPPED BACK PORTION OF BUILDING  
EXCEPTED AREA

BUILDING PROJECTIONS  
The maximum depth of allowable building projections, such as balconies, or bay windows, from the required setback for portions of the building above the ground floor.  
6' max. depth  
LABELED IN ELEVATION & PLAN

OVERALL LENGTH OF BUILDING FRONTAGE: 184'-9"  
MIN. FRONTAGE ABOVE 45'-0" WITHIN SETBACKS:  
184'-9" X 75% = 138'-6 3/4"

PROPOSED FRONTAGE WITHIN SETBACKS:  
14'-9 1/2" + 69'-1" + 55'-7 1/2" + 9'-2 1/2" = 148'-9"  
148'-9" > 138'-6 3/4"

75% OF BUILDING FACE STEPS BACK AT LEAST 10'-0" ON THE UPPER STORIES

184'-9" X 25% = 46'-2 1/4" (MAX.)  
PROPOSED: 25'-11 1/4" < 46'-2 1/4"

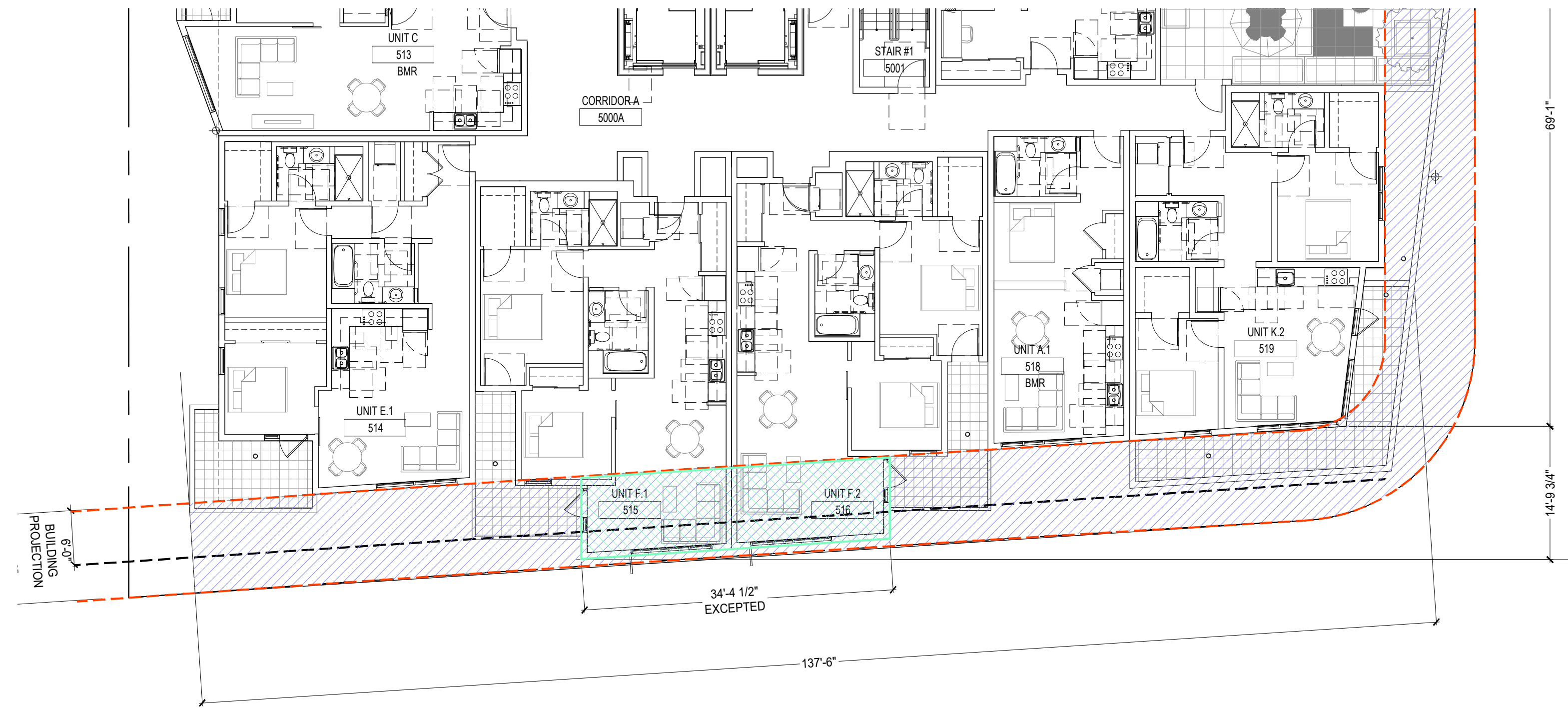


**2 PLANS : HAVEN STREET EAST - SETBACK (FIFTH FLOOR PLAN SHOWN, SIXTH & SEVENTH SIM.)**  
3/32" = 1'-0"



**1 ELEVATION : HAVEN STREET EAST - GROUND FLOOR SETBACK**  
3/32" = 1'-0"





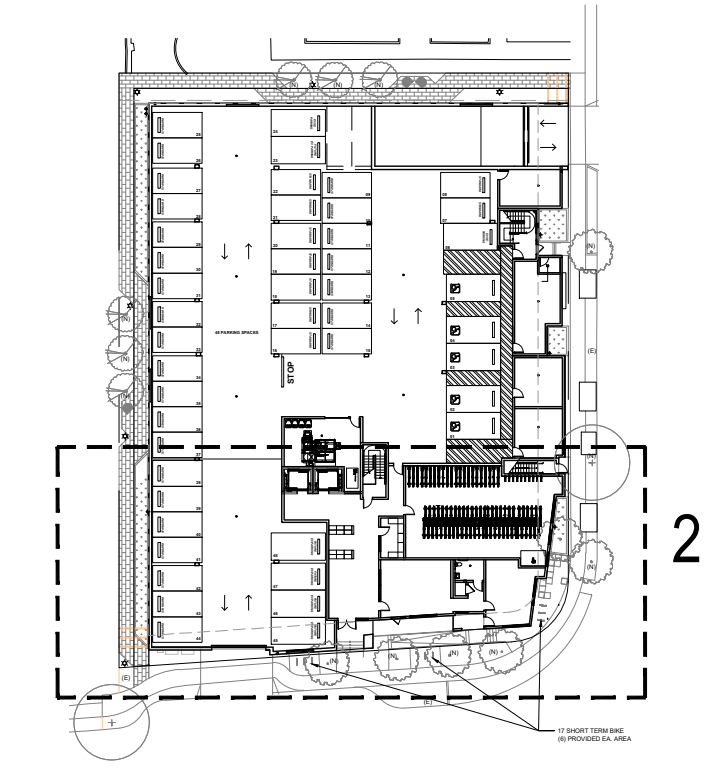
OVERALL LENGTH OF BUILDING FRONTAGE: 137'-6"  
 MIN. FRONTAGE ABOVE 45'-0" WITHIN SETBACKS: 137'-6" X 75% = 103'-1 1/2"  
 75% OF BUILDING STEPS BACK AT LEAST 10'-0" ON THE UPPER STORIES ABOVE 45'-0"  
 25% MAY BE EXCEPTED WITHIN SETBACK: 137'-6" X 25% = 34'-4 1/2"  
 25% MAX. EXCEPTED WITHIN SETBACK: 34'-4 1/2"

**2** PLANS : HAVEN STREET SOUTH - SETBACK (FIFTH FLOOR PLAN SHOWN, SIXTH & SEVENTH SIM.)  
 3/32" = 1'-0"



**1** ELEVATION : HAVEN STREET SOUTH - SETBACK  
 3/32" = 1'-0"

SHEET NOTES



--- PROPERTY LINE

MUNICIPAL CODE 16.45.120 (2) -  
 BASE HEIGHT : 45' + 10' = 55'  
 The maximum height of a building at the minimum setback at street or before the building steps back the minimum horizontal distance required.  
 Note: Properties within the flood zone or subject to flooding and sea level rise are allowed a 10-foot height increase : 55'

----- HEIGHT

MINIMUM SETBACK - The horizontal distance a building's upper stories must be set back above the base height.  
 10 feet for a minimum of 75% of the building face along public streets. A maximum of 25% of building face along public streets may be excepted.

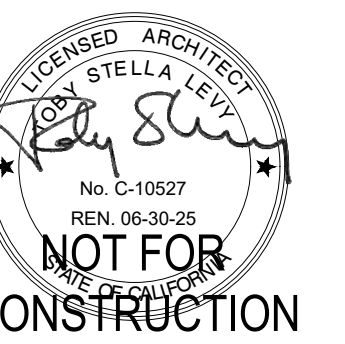
STEPPED BACK PORTION OF BUILDING  
 EXCEPTED AREA

BUILDING PROJECTIONS  
 The maximum depth of allowable building projections, such as balconies, or bay windows, from the required setback for portions of the building above the ground floor.  
 6' max. depth  
 LABELED IN ELEVATION & PLAN



NOTICE:  
 THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY AND COPYRIGHT OF LEVY DESIGN PARTNERS, INC. (LDP ARCHITECTURE) AND SHALL NOT BE USED EXCEPT BY WRITTEN AGREEMENT WITH LEVY DESIGN PARTNERS.

3705 HAVEN AVE  
 MENLO PARK, CA



3705 HAVEN AVE  
 MENLO PARK, CA  
 PROJECT NO. 21-07  
 PARCEL NO. 055170240

REV	DATE	DESCRIPTION
	04-14-2023	PLANNING & SB330 REV 2
	09-22-2023	PLANNING & SB330 REV 3
	03-20-2024	PLANNING & SB330 REV 4
	06-13-2024	PLANNING & SB330 REV 5
	07-26-2024	PLANNING & SB330 REV 6

CONTACT: TOBY LEVY

(415) 777-0561 P  
 (415) 777-5117 F

SCALE:  
 AS NOTED

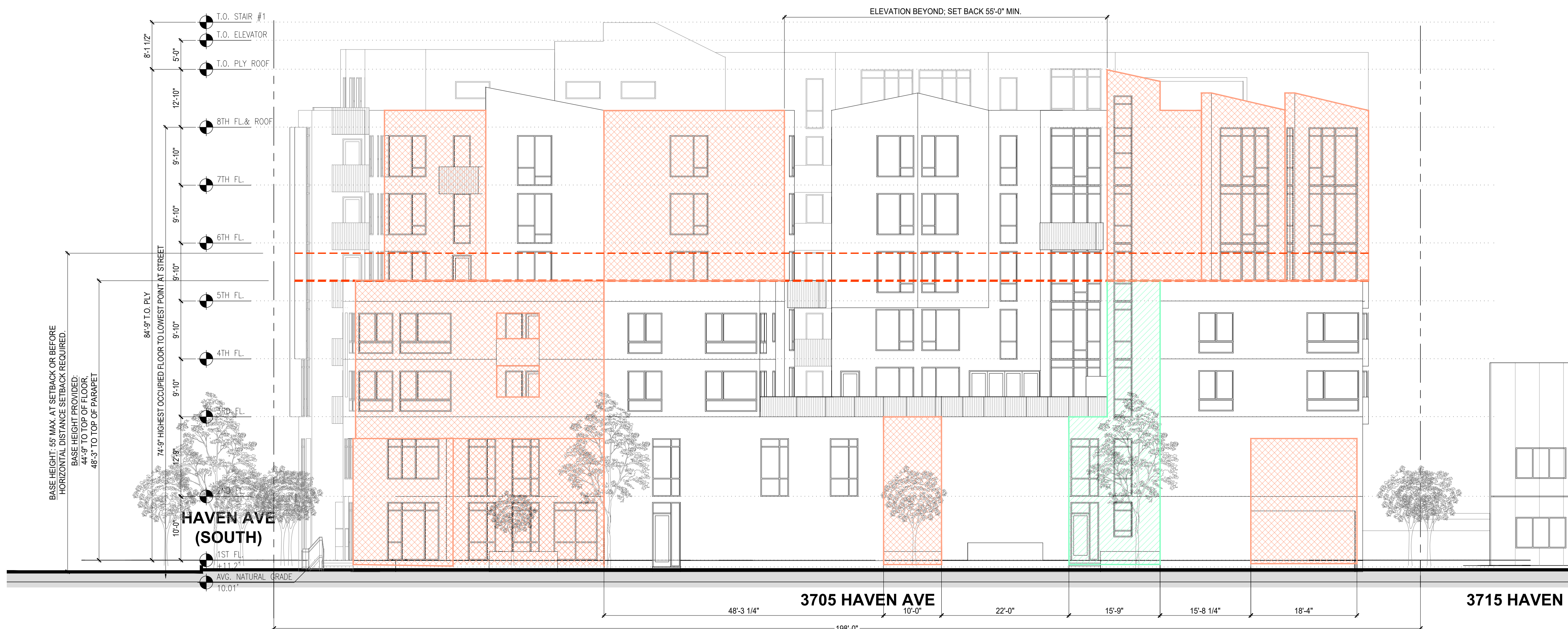
ZONING  
 DIAGRAM

A3.05C



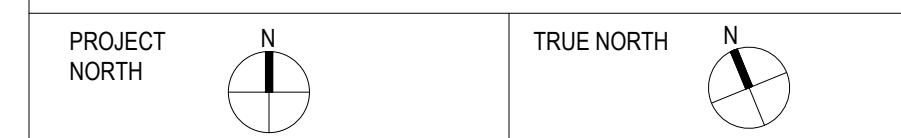
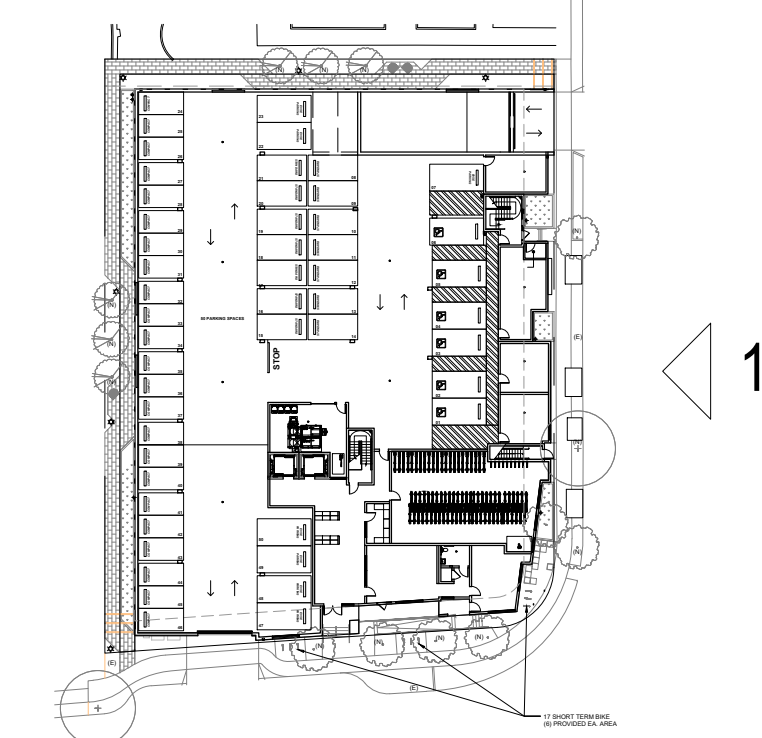


**2** ELEVATION : HAVEN STREET SOUTH - MAJOR & MINOR BUILDING MODULATIONS  
1/32" = 1'-0"



**1** ELEVATION : HAVEN STREET EAST - MAJOR & MINOR BUILDING MODULATIONS  
1/32" = 1'-0"

SHEET NOTES



PROPERTY LINE

MUNICIPAL CODE 16.45.120 (2) - MAJOR BUILDING MODULATIONS

A major modulation is a break in the building plane from the ground level to the top of the building's base height that provides visual variety, reduces large building volumes, and provides spaces for entryways and publicly accessible spaces.

- Minimum of one recess of 15 feet wide by 10 feet deep per 200 feet of facade length

MAJOR BUILDING RECESS

MINOR BUILDING MODULATIONS 16.45.120 (2) -

Modulation is required on the building facade(s) facing publicly accessible spaces (streets, open space, and paseos).

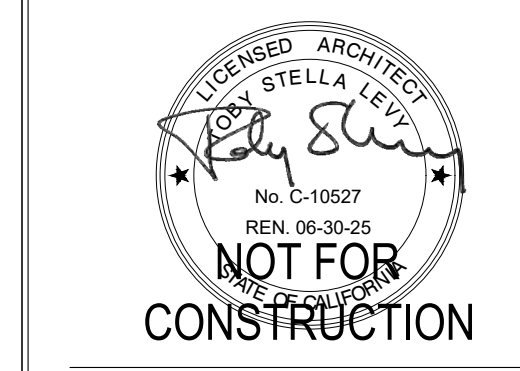
- Minimum recess of 5 feet wide by 5 feet deep per 50 feet of facade length
- Building projections spaced no more than 50' apart with min. 3' depth & 5' width may satisfy this in lieu of a recess.

MINOR BUILDING RECESS



NOTICE: THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY AND COPYRIGHT OF LEVY DESIGN PARTNERS, INC. (LDP ARCHITECTURE) AND SHALL NOT BE USED EXCEPT BY WRITTEN AGREEMENT WITH LEVY DESIGN PARTNERS.

3705 HAVEN AVE  
MENLO PARK, CA



3705 HAVEN AVE  
MENLO PARK, CA  
PROJECT NO. 21-07  
PARCEL NO. 055170240

REV	DATE	DESCRIPTION
04-14-2023	PLANNING & SB330 REV 2	
09-22-2023	PLANNING & SB330 REV 3	
03-20-2024	PLANNING & SB330 REV 4	
06-13-2024	PLANNING & SB330 REV 5	
07-26-2024	PLANNING & SB330 REV 6	

CONTACT: TOBY LEVY

(415) 777-0561 P  
(415) 777-5117 F

SCALE: AS NOTED

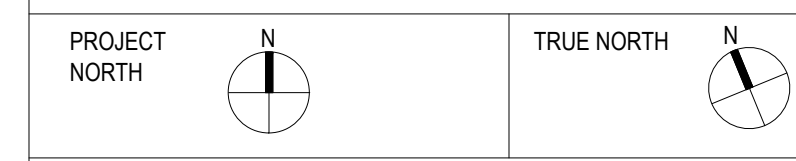
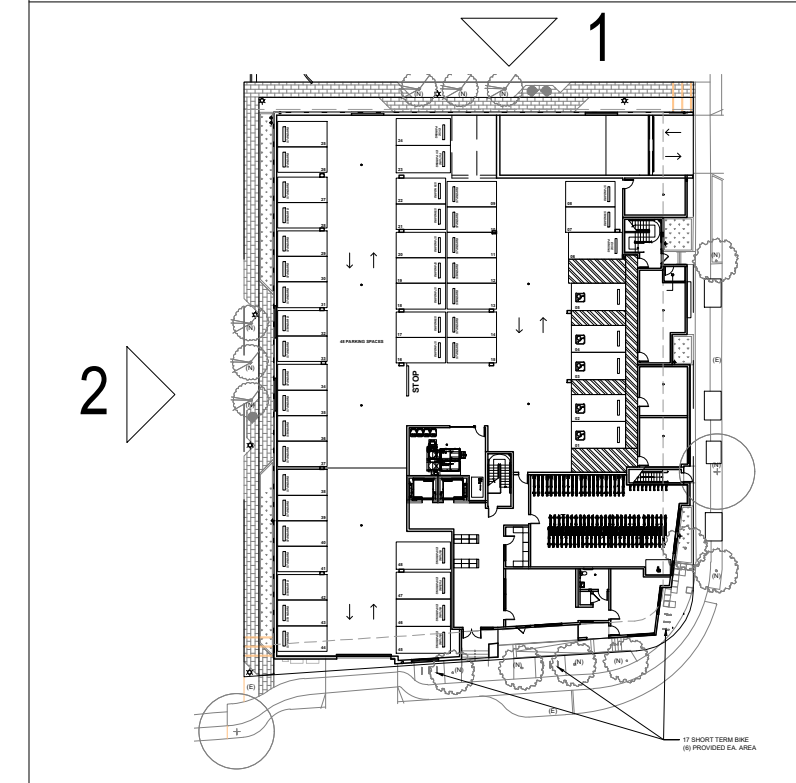
ZONING DIAGRAM

A3.05D



NOTICE:  
THESE DRAWINGS AND SPECIFICATIONS ARE  
THE PROPERTY AND COPYRIGHT OF LEVY  
DESIGN PARTNERS, INC. (LDP ARCHITECTURE)  
AND SHALL NOT BE USED EXCEPT BY WRITTEN  
AGREEMENT WITH LEVY DESIGN PARTNERS.

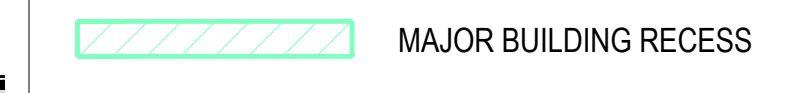
**SHEET NOTES**



--- PROPERTY LINE

**MUNICIPAL CODE 16.45.120 (2) - MAJOR BUILDING MODULATIONS**  
A major modulation is a break in the building plane from the ground level to the top of the building's base height that provides visual variety, reduces large building volumes, and provides spaces for entryways and publicly accessible spaces.

- Minimum of one recess of 15 feet wide by 10 feet deep per 200 feet of facade length



**MINOR BUILDING MODULATIONS 16.45.120 (2) -**  
Modulation is required on the building facade(s) facing publicly accessible spaces (streets, open space, and paseos).

- Minimum recess of 5 feet wide by 5 feet deep per 50 feet of facade length
- Building projections spaced no more than 50' apart with min. 3' depth & 5' width may satisfy this in lieu of a recess.

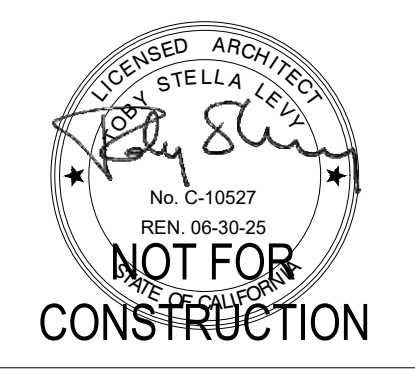


**2 ELEVATION : WEST**  
1/32" = 1'-0"



**1 ELEVATION : NORTH**  
1/32" = 1'-0"

**3705 HAVEN AVE  
MENLO PARK, CA**



3705 HAVEN AVE  
MENLO PARK, CA  
PROJECT NO. 21-07  
PARCEL NO. 055170240

REV	DATE	DESCRIPTION
04-14-2023	PLANNING & SB330 REV 2	
09-22-2023	PLANNING & SB330 REV 3	
03-20-2024	PLANNING & SB330 REV 4	
06-13-2024	PLANNING & SB330 REV 5	
07-26-2024	PLANNING & SB330 REV 6	

CONTACT: TOBY LEVY

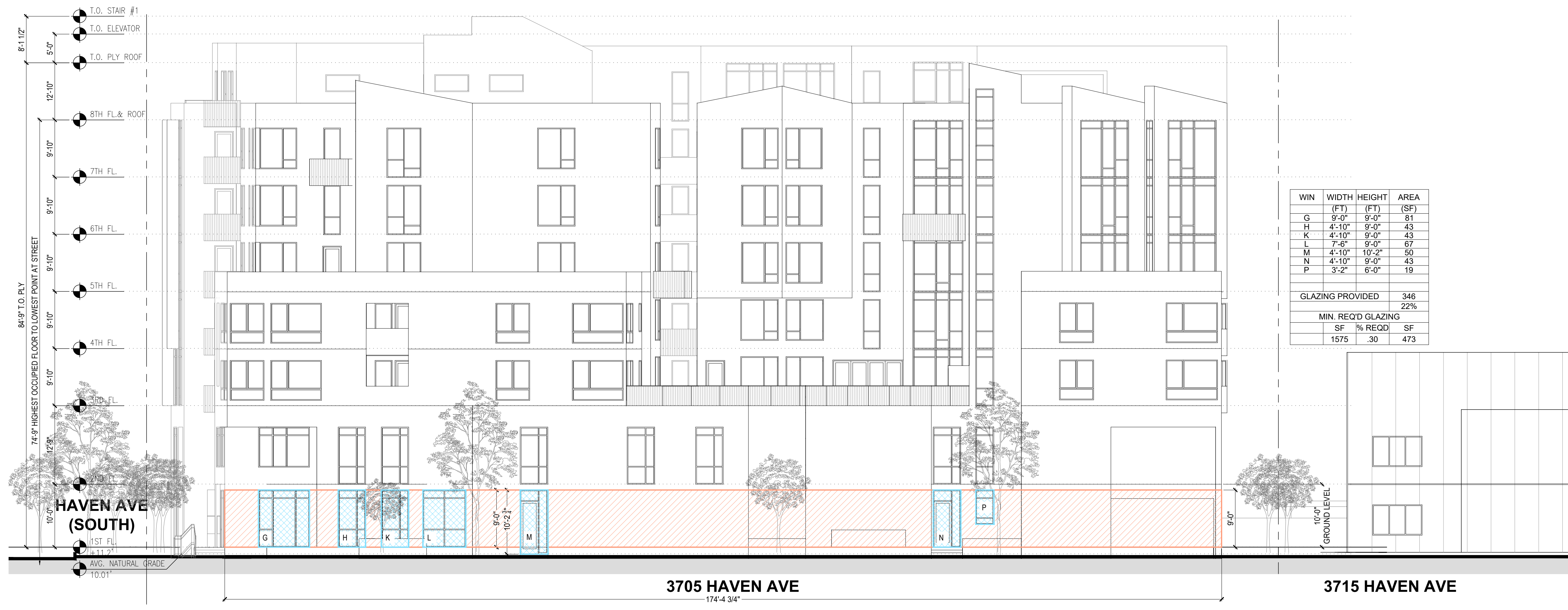
(415) 777-0561 P  
(415) 777-5117 F

SCALE:  
AS NOTED

ZONING  
DIAGRAM

**A3.05E**



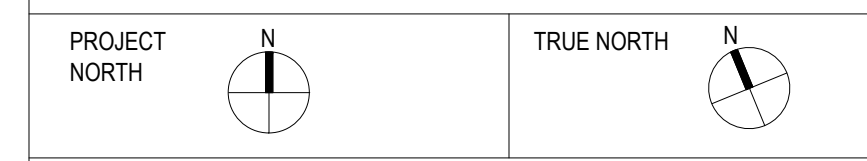
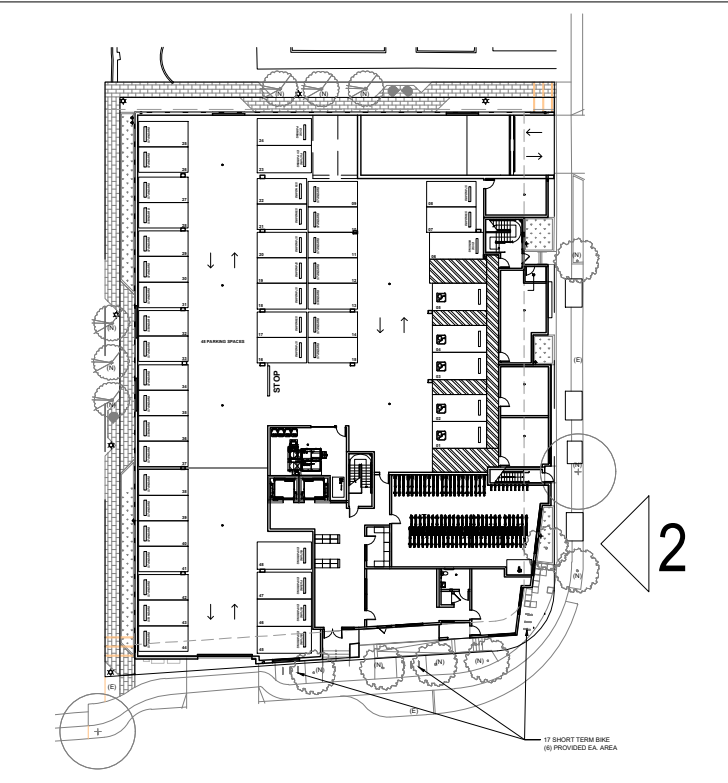


**2 ELEVATION : HAVEN STREET EAST - GROUND FLOOR TRANSPARENCY**  
3/32" = 1'-0"



**1 ELEVATION : HAVEN STREET SOUTH - GROUND FLOOR TRANSPARENCY**  
3/32" = 1'-0"

**SHEET NOTES**



PROPERTY LINE

MUNICIPAL CODE 16.45.120 (3) - Minimum Ground Floor Height  
Along Street Frontage  
10 feet for residential uses  
15 feet for commercial uses  
Project Complies: The ground level is 11'-0"  
LABELED IN ELEVATION

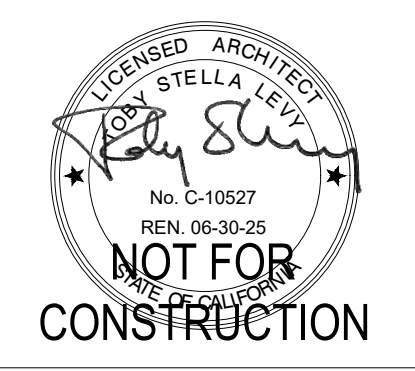
MUNICIPAL CODE 16.45.120 (3) - GROUND FLOOR TRANSPARENCY  
The minimum percentage of the ground floor facade (finished floor to ceiling) that must provide visual transparency, such as clear-glass windows, doors, etc.  
30% for residential uses  
50% for commercial uses (N/A)  
Project complies, 30% min. provided.

- GROUND LEVEL TRANSPARENT GLAZING
- GROUND LEVEL OPAQUE SURFACE RESIDENTIAL



NOTICE: THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY AND COPYRIGHT OF LEVY DESIGN PARTNERS, INC. (LDP ARCHITECTURE) AND SHALL NOT BE USED EXCEPT BY WRITTEN AGREEMENT WITH LEVY DESIGN PARTNERS.

**3705 HAVEN AVE  
MENLO PARK, CA**



3705 HAVEN AVE  
MENLO PARK, CA

PROJECT NO. 21-07  
PARCEL NO. 055170240

REV	DATE	DESCRIPTION
	04-14-2023	PLANNING & SB330 REV 2
	09-22-2023	PLANNING & SB330 REV 3
	03-20-2024	PLANNING & SB330 REV 4
	06-13-2024	PLANNING & SB330 REV 5
	07-26-2024	PLANNING & SB330 REV 6

CONTACT: TOBY LEVY

(415) 777-0561 P  
(415) 777-5117 F

SCALE: AS NOTED

ZONING DIAGRAM

**A3.05F**



3705 HAVEN AVE  
MENLO PARK, CA

PROJECT NO. 21-07  
PARCEL NO. 055170240

REV | DATE | DESCRIPTION

04-14-2023	PLANNING & SB330 REV 2
09-22-2023	PLANNING & SB330 REV 3
03-20-2024	PLANNING & SB330 REV 4
06-13-2024	PLANNING & SB330 REV 5
07-26-2024	PLANNING & SB330 REV 6

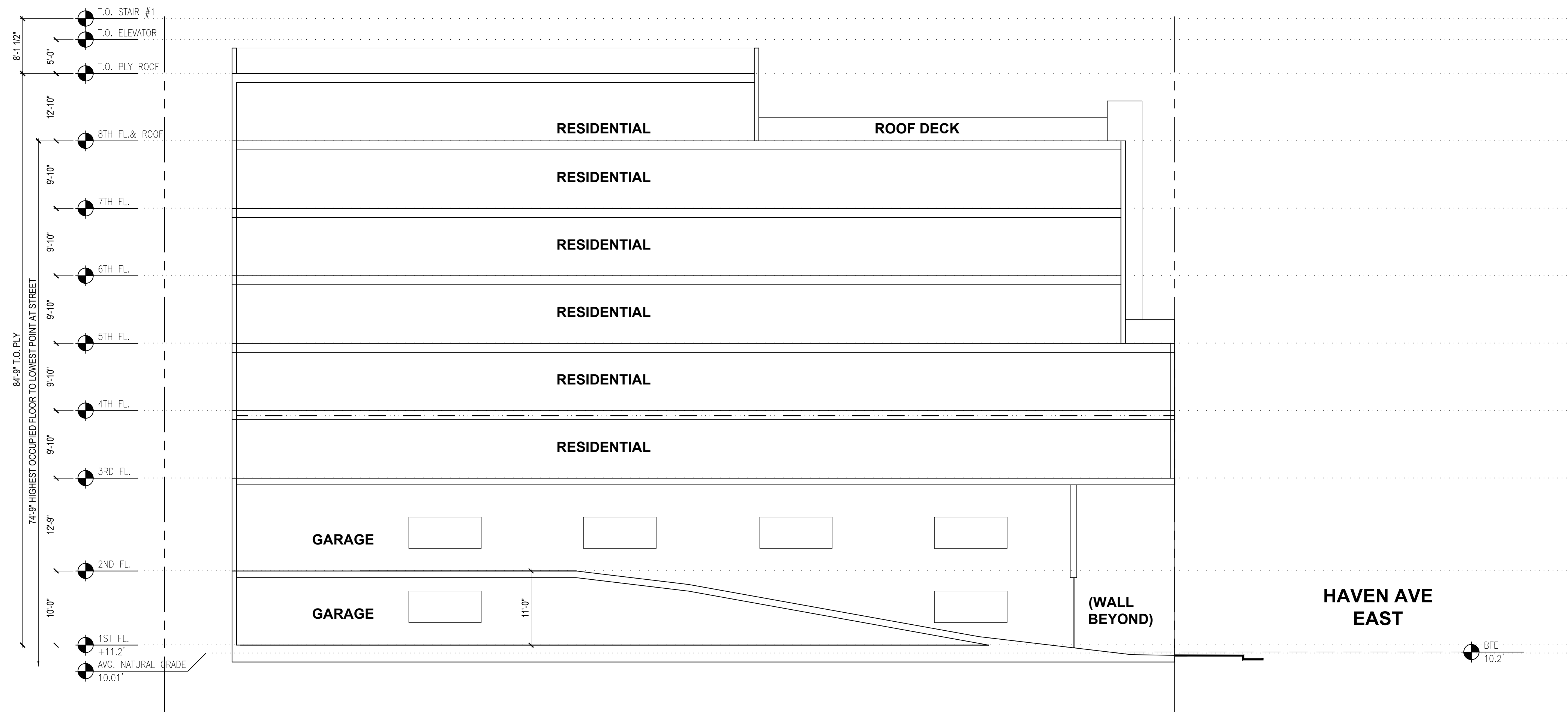
CONTACT: TOBY LEVY

(415) 777-0561 P  
(415) 777-5117 F

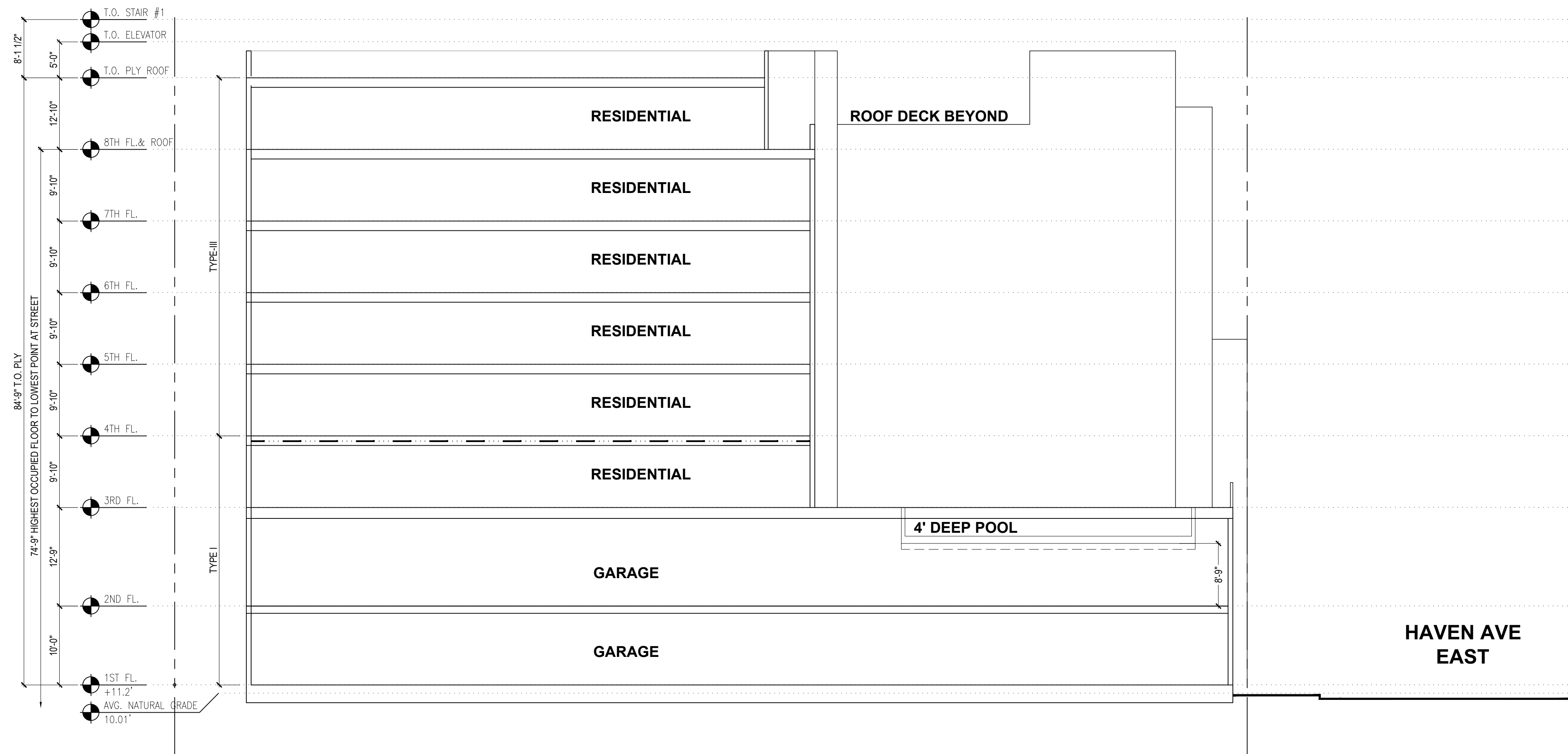
SCALE:  
**AS NOTED**

**SECTION**

**A4.01**



**2 SECTION**  
3/32" = 1'-0"



**1 SECTION**  
3/32" = 1'-0"

**3705 HAVEN AVE  
MENLO PARK, CA**



3705 HAVEN AVE  
MENLO PARK, CA

PROJECT NO. 21-07  
PARCEL NO. 055170240

REV | DATE | DESCRIPTION

04-14-2023	PLANNING & SB330 REV 2
09-22-2023	PLANNING & SB330 REV 3
03-20-2024	PLANNING & SB330 REV 4
06-13-2024	PLANNING & SB330 REV 5
07-26-2024	PLANNING & SB330 REV 6

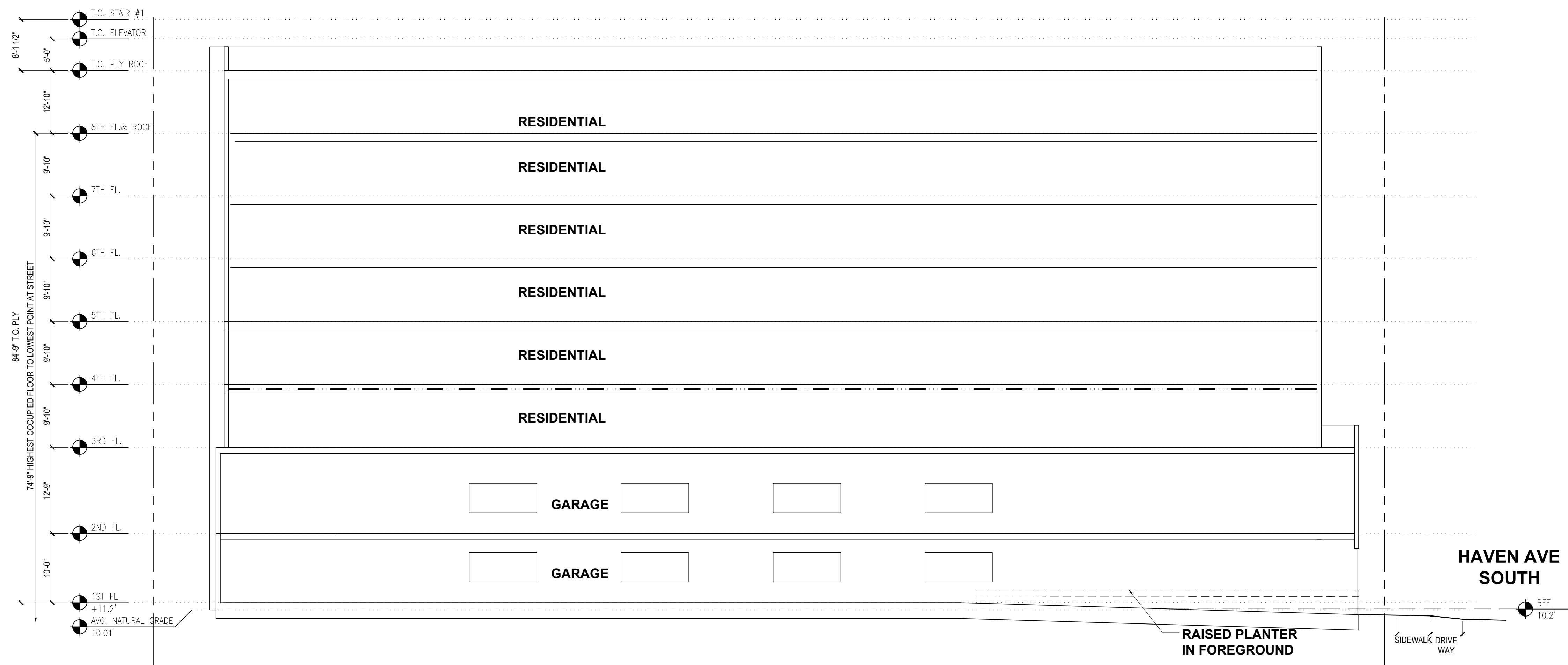
CONTACT: TOBY LEVY

(415) 777-0561 P  
(415) 777-5117 F

SCALE:  
AS NOTED

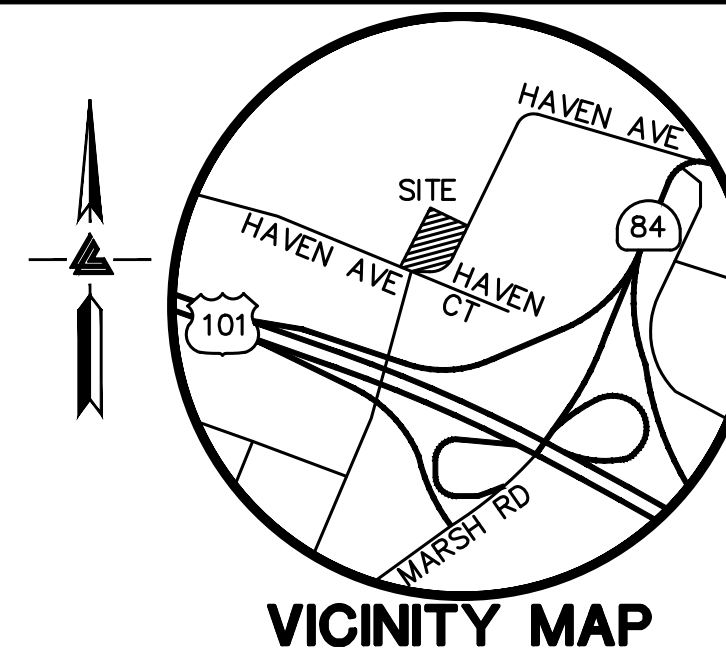
SECTION

**A4.02**





# 3705 HAVEN AVENUE MENLO PARK, CALIFORNIA



VICINITY MAP

## OWNER'S INFORMATION

OWNER:  
3705 HAVEN LLC  
2040 WEBSTER STREET  
SAN FRANCISCO, CA 94115

APN: 055-170-240

## REFERENCES

- THIS GRADING AND DRAINAGE PLAN IS SUPPLEMENTAL TO:
- TOPOGRAPHIC SURVEY BY LEA AND BRAZE ENGINEERING, ENTITLED: "BOUNDARY AND TOPOGRAPHICAL SURVEY" 3705 HAVEN AVENUE MENLO PARK, USA DATED: 2-11-22 JOB# 2212296
  - SITE PLAN BY LEVY DESIGN PARTNERS ENTITLED: "GROUND FLOOR PLAN" 3705 HAVEN AVENUE MENLO PARK, USA
  - LANDSCAPE PLANS BY JETT LANDSCAPE ENTITLED: "LANDSCAPE PLAN" 3705 HAVEN AVENUE MENLO PARK, USA
  - JOINT TRENCH PLANS BY TARRAR ENTITLED: "JOINT TRENCH COMPOSITE PLAN" 3705 HAVEN AVENUE MENLO PARK, USA

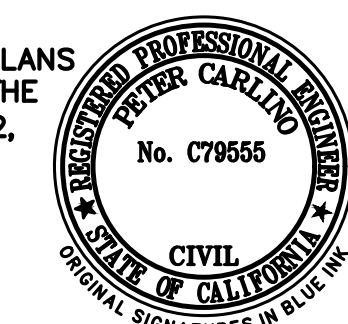
THE CONTRACTOR SHALL REFER TO THE ABOVE NOTED SURVEY AND PLAN, AND SHALL VERIFY BOTH EXISTING AND PROPOSED ITEMS ACCORDING TO THEM.

## CITY FEMA NOTE:

- THE PROJECT IS BUILT IN COMPLIANCE WITH THE CITY'S FLOOD DAMAGE PREVENTION ORDINANCE, CHAPTER 12, SECTION 42
- ALL MATERIALS BELOW DFE SHALL BE RESISTANT TO FLOOD DAMAGE (I.E., CONCRETE, REDWOOD OR PRESSURE TREATED DOUGLAS FIR)
- THE BOTTOM ELEVATION OF ALL APPLIANCES AND UTILITIES (METERS, AIR CONDITIONING UNITS, ETC) SHALL BE AT OR ABOVE DFE.
- STORM RUNOFF RESULTING FROM THE PROJECT'S GRADING AND DRAINAGE ACTIVITIES SHALL NOT ENCROACH ONTO ANY NEIGHBORING LOT. RUNOFF MUST BE CONTAINED ON-SITE.
- NO BASEMENTS OR ANY HABITABLE ENCLOSURE BELOW THE DFE ARE ALLOWED FOR PROJECTS IN THE FLOOD ZONE.
- FLOOD VENTS SHALL BE INSTALLED FOR ALL NON-HABITABLE ENCLOSURES BELOW THE DFE (I.E. CRAWLSPACE, GARAGE, ETC.) AT A RATE OF 1 SQUARE INCH OF NET OPENING TO 1 SQUARE FOOT OF ENCLOSURE. REFER TO THE ENGINEERING PLANS HEREIN FOR VENT LOCATIONS AND CALCULATIONS.

I CERTIFY THAT I AM THE ENGINEER OF RECORD AND THE PLANS DATED 07-29-22 SUBMITTED ON 11-18-22 COMPLY WITH THE CITY'S FLOOD DAMAGE PREVENTION ORDINANCE (CHAPTER 12, SECTION 42).

SIGNED: PETER CARLINO  
REGISTERED CIVIL ENGINEER NO. C79555 (EXP. 09-30-24)



## FEMA FLOOD ELEVATIONS:

FFE: 11.2'  
BFE: 10.2'  
DFE: 11.2'

## \* BUILDING PAD NOTE:

ADJUST PAD LEVEL AS REQUIRED. REFER TO STRUCTURAL PLANS FOR SLAB SECTION OR CRAWL SPACE DEPTH TO ESTABLISH PAD LEVEL.

## NOTE:

FOR CONSTRUCTION STAKING SCHEDULING OR QUOTATIONS PLEASE CONTACT ALEX ABAYA AT LEA & BRAZE ENGINEERING (510)887-4086 EXT 116. aabaya@leabraze.com

## INSPECTION NOTE:

THE CONTRACTOR SHALL INFORM THE OWNER (IN WRITING) OF RECOMMENDED PERIODIC INSPECTION AND MAINTENANCE OF THE ON-SITE STORM DRAINAGE SYSTEM. THE REGULAR CLEARING OF SILT AND DEBRIS IS ESPECIALLY IMPORTANT PRIOR TO EACH RAINY SEASON.

## SHEET INDEX

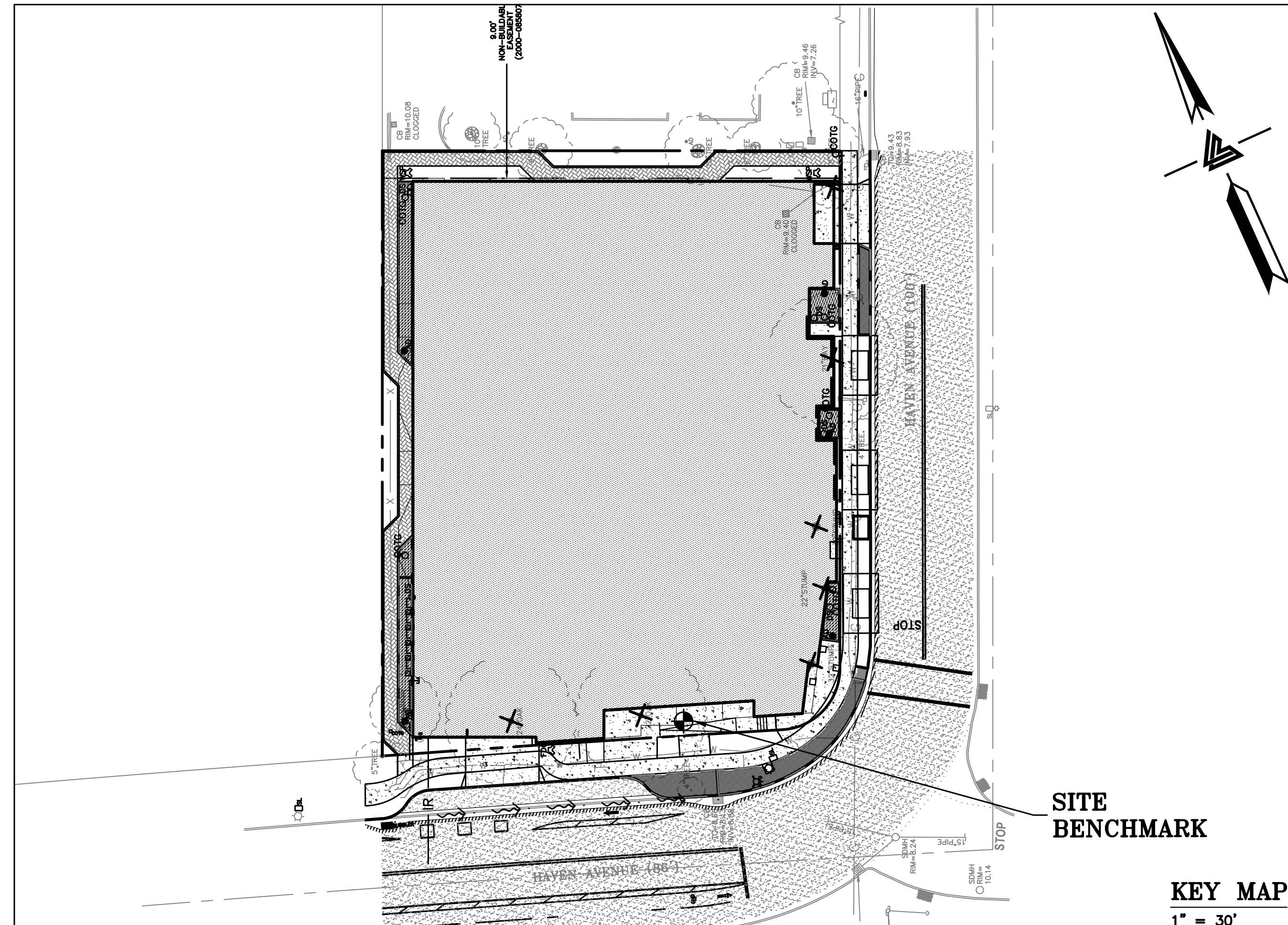
- C-1.0 TITLE SHEET
- C-1.1 GRADING SPECIFICATIONS
- C-2.0 DEMOLITION PLAN
- C-3.0 PRELIMINARY GRADING & DRAINAGE PLAN
- C-3.1 AVERAGE NATURAL GRADE EXHIBIT
- C-4.0 PRELIMINARY UTILITIES PLAN
- C-4.1 COLOR CODED UTILITIES PLAN
- C-4.2 WATER MAIN CONNECTION DETAIL
- C-4.3 PRELIMINARY UTILITIES PROFILE
- C-4.4 WATER MAIN UTILITY PROFILE
- C-5.0 DRIVEWAY SAFETY TRIANGLES
- SOP-0 OFFSITE GREEN INFRASTRUCTURE PLAN
- SOP-1 PRELIMINARY IMPERVIOUS AREA EXHIBIT
- SOP-2 PRELIMINARY STORMWATER CONTROL PLAN
- SOP-3 STORMWATER CONTROL DETAILS
- SOP-4 GREEN INFRASTRUCTURE DETAILS
- C-6.0 DETAILS
- C-6.1 CITY DETAILS
- ER-1 EROSION CONTROL
- ER-2 EROSION CONTROL DETAILS
- SM-1 BEST MANAGEMENT PRACTICES
- SU-1 TOPOGRAPHICAL SURVEY

NO.	DESCRIPTION	DATE	BY
9	COMP REVIEW	07-16-24	VA
8	COMP REVIEW	05-31-24	VA
7	COMP REVIEW	03-21-24	VA
6	C3 PLN CHK	10-17-23	VA
5	C3 PLN CHK	10-04-23	VA
REVISIONS			
JOB NO:		2220759	
DATE:		11-18-22	
SCALE:		AS NOTED	
DESIGN BY:		VA	
CHECKED BY:		JH/PC	
SHEET NO:		C-1.0	

EXISTING	PROPOSED	DESCRIPTION
---	---	BOUNDARY
---	---	PROPERTY LINE
---	---	RETAINING WALL
---	---	LANDSCAPE RETAINING WALL
---	---	RAINWATER TIGHTLINE
---	---	SUBDRAIN LINE
---	---	TIGHTLINE
---	---	STORM DRAIN LINE
---	---	SANITARY SEWER LINE
---	---	WATER LINE
---	---	GAS LINE
---	---	STORM DRAIN PRESSURE LINE
---	---	SANITARY SEWER PRESSURE LINE
---	---	JOINT TRENCH
---	---	SET BACK LINE
---	---	CONCRETE VALLEY GUTTER
---	---	EARTHEN SWALE
---	---	CATCH BASIN
---	---	JUNCTION BOX
---	---	AREA DRAIN
---	---	CURB INLET
---	---	STORM DRAIN MANHOLE
---	---	FIRE HYDRANT
---	---	SANITARY SEWER MANHOLE
---	---	STREET SIGN
---	---	SPOT ELEVATION
---	---	FLOW DIRECTION
---	---	DEMOLISH/REMOVE
---	---	BENCHMARK
---	---	CONTOURS
---	---	TREE TO BE REMOVED
---	---	TREE PROTECTION FENCING

### ABBREVIATIONS

AB	AGGREGATE BASE	LNDG	LANDING
AC	ASPHALT CONCRETE	LF	LINEAR FEET
ACC	ACCESSIBLE	MAX	MAXIMUM
AD	AREA DRAIN	MH	MANHOLE
BC	BEGINNING OF CURVE	MIN	MINIMUM
B & D	BEARING & DISTANCE	MON.	MONUMENT
BM	BENCHMARK	MRO	METERED RELEASE OUTLET
BFE	BASE FLOOD ELEVATION	(N)	NUMBER
BW/FG	BOTTOM OF WALL/FINISH GRADE	NTS	NOT TO SCALE
CB	CATCH BASIN	O.C.	ON CENTER
C & G	CURB AND GUTTER	O/	OVER
CL	CENTER LINE	(PA)	PLANTING AREA
CPP	CORRUGATED PLASTIC PIPE (SMOOTH INTERIOR)	PE	PEDESTRIAN
CO	CLEANOUT	PIV	POST INDICATOR VALVE
COTG	CLEANOUT TO GRADE	PSS	PUBLIC SERVICES EASEMENT
CONC	CONCRETE	R	RADIUS
CONST	CONSTRUCTION	PP	POWER POLE
CONC COR	CONCRETE CORNER	PUE	PUBLIC UTILITY EASEMENT
CY	CUBIC YARD	PVC	POLYVINYL CHLORIDE
D	DIAMETER	RCP	REINFORCED CONCRETE PIPE
DI	DROP INLET	RIM	RIM ELEVATION
DIP	DUCTILE IRON PIPE	RW	RAINWATER
DFE	DESIGN FLOOD ELEVATION	R/W	RIGHT OF WAY
EA	EACH	S	SLOPE
EC	END OF CURVE	S.A.D.	SEE ARCHITECTURAL DRAWINGS
EG	EXISTING GRADE	SAN	SANITARY
EL	ELEVATIONS	SD	STORM DRAIN
EQ	EDGE OF PAVEMENT	SDMH	STORM DRAIN MANHOLE
EQ	EQUIPMENT	SHT	SHEET
EW	EACH WAY	S.L.D.	SEE LANDSCAPE DRAWINGS
EXISTING	EXISTING	SPEC	SPECIFICATION
FC	FACE OF CURB	SS	SANITARY SEWER
FFE	FINISHED FLOOR ELEVATION	SSCO	SANITARY SEWER CLEANOUT
FG	FINISHED GRADE	SSMH	SANITARY SEWER MANHOLE
FH	FIRE HYDRANT	ST	STREET
FL	FLOW LINE	STA	STATION
FS	FINISHED SURFACE	STD	STANDARD
G	GAS	STRUCT	STRUCTURAL
GA	GAGE OR GAUGE	T	TELEPHONE
GB	GRADE BREAK	TC	TOP OF CURB
HDPE	HIGH DENSITY CORRUGATED POLYETHYLENE PIPE	TOW	TOP OF WALL
HORIZ	HORIZONTAL	TEMP	TEMPORARY
HI PT	HIGH POINT	TP	TOP OF PAVEMENT
H&T	HUB & TACK	TW/FG	TOP OF WALL/FINISH GRADE
ID	INSIDE DIAMETER	TYP	TYPICAL
INV	INVERT ELEVATION	VC	VERTICAL CURVE
JB	JUNCTION BOX	VCP	VERTIFIED CLAY PIPE
JT	JOINT TRENCH	VERT	VERTICAL
JP	JOINT UTILITY POLE	W/	WITH
L	LENGTH	W, WL	WATER LINE
		WM	WATER METER



## BASIS OF BEARINGS

THE BEARING NORTH 24°13'00" EAST ALONG THE WESTERLY RIGHT OF WAY OF HAVEN AVENUE AS SHOWN ON THAT CERTAIN PARCEL MAP FILED IN BOOK 72 OF PARCEL MAPS AT PAGE 46, SAN MATEO COUNTY RECORDS, IS THE BASIS OF ALL BEARINGS SHOWN ON THIS MAP.

## BENCHMARK

CITY OF MENLO PARK BM3 BRONZE DISK EPOXIED INTO THE TOP OF A CONCRETE CURB OF THE NORTHERLY CURB LINE OF HAVEN AVENUE AT #3585 HAVEN AVENUE AT THE WESTERLY SIDE OF A STORM WATER CATCH BASIN. ELEVATION = 8.178' (ADJUSTED TO NAVD 88 DATUM)

## PUBLIC WORKS NOTE:

THE STORM RUNOFF GENERATED BY THE NEW DEVELOPMENT SHALL NOT DRAIN ONTO ADJACENT PROPERTIES. THE EXISTING STORM DRAINAGE FROM THE ADJACENT PROPERTIES SHALL NOT BE BLOCKED BY THE NEW DEVELOPMENT.

THE APPLICANT/CONTRACTOR SHALL OBTAIN AN ENCROACHMENT PERMIT FROM THE CITY'S ENGINEERING DIVISION PRIOR TO START OF ANY WORK WITHIN THE CITY'S RIGHT-OF-WAY OR PUBLIC EASEMENT AREAS. THE APPLICANT SHALL OBTAIN PERMITS FROM UTILITY COMPANIES PRIOR TO APPLYING FOR CITY ENCROACHMENT PERMIT.

ALL TRENCHES IN THE CITY'S RIGHT-OF-WAY SHALL COMPLY WITH CITY STANDARD DETAILS ST-9A, ST-9B, AND ST-16.

ALL CONCRETE WORK IN THE CITY'S RIGHT-OF-WAY SHALL COMPLY WITH CITY STANDARD DETAIL G-3.

ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE CITY STANDARDS AND TO THE SATISFACTION OF THE CITY ENGINEER.

EXISTING FRONTAGE IMPROVEMENTS (A.C., PARKING STRIPE, DRIVEWAY, AND VALLEY GUTTER) THAT ARE CRACKED, DAMAGED, ELEVATED, OR DEPRESSED OR THAT CAUSE SURFACE WATER PONDING SHALL BE REMOVED AND REPLACED BY THE APPLICANT PER CITY STANDARDS.

INSTALL STABILIZED CONSTRUCTION ENTRANCE (AS APPLICABLE) PER CITY STANDARD DETAIL CG-16.

## UTILITY NOTE

ALL UNDERGROUND PIPE TYPES, SIZES AND LOCATION SHOWN ON THIS SURVEY ARE BASED ON VISUAL OBSERVATION. ANY USE OF THIS INFORMATION SHOULD BE VERIFIED, BEFORE ITS USE, WITH THE CONTROLLING MUNICIPALITY OR UTILITY PROVIDER. THIS SURVEY MAKES NO GUARANTEE OF THE INSTALLED ACTUAL LOCATION, DEPTHS OR SIZE.

## EASEMENT NOTE

EASEMENTS ARE SHOWN PER PRELIMINARY TITLE REPORT ISSUED BY OLD REPUBLIC TITLE COMPANY, ORDER NO 0227027166-RL, DATED AS OF NOVEMBER 22, 2021 EASEMENT TO PG&E FOR ELECTRIC TRANSMISSION LINES PER DOCUMENT RECORDED IN BOOK 127, PAGE 468, OFFICIAL RECORDS OF SAN MATEO COUNTY, IS NOT PLOTTABLE. EXACT LOCATION NOT DISCLOSED OF RECORD.

## SITE BENCHMARK

SURVEY CONTROL POINT CUT CROSS IN CONCRETE ELEVATION = 9.91' (ADJUSTED TO NAVD 88 DATUM)

## NOTES

ALL DISTANCES AND DIMENSIONS ARE IN FEET AND DECIMALS.

BUILDING FOOTPRINTS ARE SHOWN TO FINISHED MATERIAL (STUCCO/SIDING) AT GROUND LEVEL.

FINISH FLOOR ELEVATIONS ARE TAKEN AT DOOR THRESHOLD (EXTERIOR).

THE AREA OF THE SURVEYED LOT IS 28,808± SQUARE FEET / 0.66± ACRES

## DEVELOPMENT AREA SUMMARY

PRE-DEVELOPMENT	(SQFT)
BUILDINGS	10,368
DRIVEWAY & PARKING	11,854
PATIOS, WALKWAYS & PADS	651
TOTAL	22,873
POST-DEVELOPMENT	(SQFT)
BUILDINGS	11,950
DRIVEWAY & PARKING	0
PATIOS, WALKWAYS & PADS	12,505
PERVIOUS PATIOS, WALKWAYS & PADS	1,624
TOTAL	24,455
DIFFERENCE (NET DECREASE)	1,582

## TREE NOTE

TREE SIZE, TYPE AND DRIFTLINES ARE BASED ON A VISUAL OBSERVATION. FINAL DETERMINATION SHOULD BE MADE BY THE PROJECT ARBORIST.

## FEMA FLOOD NOTE

FLOOD ZONE: AE

100-YEAR BASE FLOOD ELEVATION (BFE): 10.2' (NAVD88 DATUM) PER FLOOD INSURANCE STUDY TABLE 11, SUMMARY OF NON-COASTAL STILLWATER ELEVATIONS

FEMA FLOOD INSURANCE RATE MAP NO.: 06081C0306F EFFECTIVE DATE: APRIL 5, 2019

FEMA FLOOD INSURANCE STUDY FOR SAN MATEO COUNTY, CA NO.: 06081CV001D REVISED: APRIL 5, 2019



## ESTIMATED EARTHWORK QUANTITIES

CUBIC YARDS	TOTAL CUBIC YARDS (WITHIN BUILDING)
CUT	62
FILL	702
IMPORT	646

NOTE: GRADING QUANTITIES REPRESENT ONSITE BANK YARDAGE ONLY. IT DOES NOT INCLUDE ANY SWELLING OR SHRINKAGE FACTORS AND IS INTENDED TO REPRESENT IN-SITU CONDITIONS. QUANTITIES DO NOT INCLUDE OVER-EXCAVATION, TRENCHING, STRUCTURAL FOUNDATIONS OR PIERS, OR POOL EXCAVATION (IF ANY). NOTE ADDITIONAL EARTHWORKS, SUCH AS KEYWAYS OR BENCHING MAY BE REQUIRED BY THE GEOTECHNICAL ENGINEER IN THE FIELD AT TIME OF CONSTRUCTION. CONTRACTOR TO VERIFY QUANTITIES.



LEA & BRAZE ENGINEERING, INC.  
CIVIL ENGINEERS & LAND SURVEYORS  
REGIONAL OFFICES:  
SAN FRANCISCO, CA 94103  
DUBLIN, CA 94568  
HAYWARD, CA 94545  
SAN JOSE, CA 95128  
WWW.LEABRAZE.COM

3705 HAVEN AVENUE  
MENLO PARK, CALIFORNIA

APN: 055-170-240  
SAN MATEO COUNTY

TITLE SHEET

01 OF 22 SHEETS



**GENERAL NOTES**

ALL GENERAL NOTES, SHEET NOTES, AND LEGEND NOTES FOUND IN THESE DOCUMENTS SHALL APPLY TYPICALLY THROUGHOUT. IF INCONSISTENCIES ARE FOUND IN THE VARIOUS NOTATIONS, NOTIFY THE ENGINEER IMMEDIATELY IN WRITING REQUESTING CLARIFICATION.

THESE DRAWINGS AND THEIR CONTENT ARE AND SHALL REMAIN THE PROPERTY OF LEA AND BRAZE ENGINEERING, INC. WHETHER THE PROJECT FOR WHICH THEY ARE PREPARED IS EXECUTED OR NOT. THEY ARE NOT TO BE USED BY ANY PERSONS ON OTHER PROJECTS OR EXTENSIONS OF THE PROJECT EXCEPT BY AGREEMENT IN WRITING AND WITH APPROPRIATE COMPENSATION TO THE ENGINEER.

ALL WORK SHALL COMPLY WITH APPLICABLE CODES AND TRADE STANDARDS WHICH GOVERN EACH PHASE OF WORK INCLUDING, BUT NOT LIMITED TO, CALIFORNIA MECHANICAL CODE, CALIFORNIA PLUMBING CODE, CALIFORNIA ELECTRICAL CODE, CALIFORNIA FIRE CODE, CALTRANS STANDARDS AND SPECIFICATIONS, AND ALL APPLICABLE STATE AND/OR LOCAL CODES AND/OR LEGISLATION.

IT IS THE RESPONSIBILITY OF THE CONTRACTOR AND ALL SUBCONTRACTORS TO CHECK AND VERIFY ALL CONDITIONS, DIMENSIONS, LINES AND LEVELS INDICATED, PROPER FIT AND ATTACHMENT OF ALL PARTS IS REQUIRED. SHOULD THERE BE ANY DISCREPANCIES, IMMEDIATELY NOTIFY THE ENGINEER FOR CORRECTION OR ADJUSTMENT THE EVENT OF FAILURE TO DO SO, THE CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECTION OF ANY ERROR.

ALL DIMENSIONS AND CONDITIONS SHALL BE CHECKED AND VERIFIED ON THE JOB BY EACH SUBCONTRACTOR BEFORE HE/SHE BEGINS HIS/HER WORK. ANY ERRORS, OMISSION, OR DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER/CONTRACTOR BEFORE CONSTRUCTION BEGINS.

COMMENCEMENT OF WORK BY THE CONTRACTOR AND/OR ANY SUBCONTRACTOR SHALL INDICATE KNOWLEDGE AND ACCEPTANCE OF ALL CONDITIONS DESCRIBED IN THESE CONSTRUCTION DOCUMENTS, OR EXISTING ON SITE, WHICH COULD AFFECT THEIR WORK.

**WORK SEQUENCE**

IN THE EVENT ANY SPECIAL SEQUENCING OF THE WORK IS REQUIRED BY THE OWNER OR THE CONTRACTOR, THE CONTRACTOR SHALL ARRANGE A CONFERENCE BEFORE ANY SUCH WORK IS BEGUN.

SITE EXAMINATION: THE CONTRACTOR AND ALL SUBCONTRACTORS SHALL THOROUGHLY EXAMINE THE SITE AND FAMILIARIZE HIM/HERSELF WITH THE CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED. THE CONTRACTOR SHALL VERIFY AT THE SITE ALL MEASUREMENTS AFFECTING HIS/HER WORK AND SHALL BE RESPONSIBLE FOR THE CORRECTIONS OF THE SAME. NO EXTRA COMPENSATION WILL BE ALLOWED TO THE CONTRACTOR FOR EXPENSES DUE TO HIS/HER NEGLIGENCE TO EXAMINE, OR FAILURE TO DISCOVER, CONDITIONS WHICH AFFECT HIS/HER WORK.

LEA AND BRAZE ENGINEERING, INC. EXPRESSLY RESERVES ITS COMMON LAW COPYRIGHT AND OTHER PROPERTY RIGHTS IN THESE PLANS. THESE PLANS ARE NOT TO BE REPRODUCED, CHANGED OR COPIED IN ANY FORM OR MANNER WHATSOEVER, NOR ARE THEY TO BE ASSIGNED TO A THIRD PARTY WITHOUT FIRST OBTAINING THE WRITTEN PERMISSION AND CONSENT OF LEA AND BRAZE ENGINEERING, INC. IN THE EVENT OF UNAUTHORIZED REUSE OF THESE PLANS BY A THIRD PARTY, THE THIRD PARTY SHALL HOLD HARMLESS LEA AND BRAZE ENGINEERING, INC.

CONSTRUCTION IS ALWAYS LESS THAN PERFECT SINCE PROJECTS REQUIRE THE COORDINATION AND INSTALLATION OF MANY INDIVIDUAL COMPONENTS BY VARIOUS CONSTRUCTION INDUSTRY TRADES. THESE DOCUMENTS CANNOT PORTRAY ALL COMPONENTS OR ASSEMBLIES EXACTLY. IT IS THE INTENTION OF THESE ENGINEERING DOCUMENTS THAT THEY REPRESENT A REASONABLE STANDARD OF CARE IN THEIR CONTENT. IT IS ALSO PRESUMED BY THESE DOCUMENTS THAT CONSTRUCTION REVIEW SERVICES WILL BE PROVIDED BY THE ENGINEER. SHOULD THE OWNER NOT RETAIN THE ENGINEER TO PROVIDE SUCH SERVICES, OR SHOULD HE/SHE RETAIN THE ENGINEER TO PROVIDE ONLY PARTIAL OR LIMITED SERVICES, THEN IT SHALL BE THE OWNER'S AND CONTRACTOR'S RESPONSIBILITY TO FULLY RECOGNIZE AND PROVIDE THAT STANDARD OF CARE.

IF THE OWNER OR CONTRACTOR OBSERVES OR OTHERWISE BECOMES AWARE OF ANY FAULT OR DEFECT IN THE PROJECT OR NONCONFORMANCE WITH THE CONTRACT DOCUMENTS, PROMPT WRITTEN NOTICE THEREOF SHALL BE GIVEN BY THE OWNER AND/OR CONTRACTOR TO THE ENGINEER.

THE ENGINEER SHALL NOT HAVE CONTROL OF OR CHARGE OF AND SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, OR PROCEDURES, OR FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK. FOR THE ACTS OR OMISSIONS OF THE CONTRACTOR, SUBCONTRACTORS, OR ANY OTHER PERSONS PERFORMING ANY OF THE WORK, OR FOR THE FAILURE OF ANY OF THEM TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

**SITE PROTECTION**

PROTECT ALL LANDSCAPING THAT IS TO REMAIN. ANY DAMAGE OR LOSS RESULTING FROM EXCAVATION, GRADING, OR CONSTRUCTION WORK SHALL BE CORRECTED OR REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION OF ALL EXISTING SITE UTILITIES AND SHALL COORDINATE THEIR REMOVAL OR MODIFICATIONS (IF ANY) TO AVOID ANY INTERRUPTION OF SERVICE TO ADJACENT AREAS. THE GENERAL CONTRACTOR SHALL INFORM HIM/HERSELF OF MUNICIPAL REGULATIONS AND CARRY OUT HIS/HER WORK IN COMPLIANCE WITH ALL FEDERAL AND STATE REQUIREMENTS TO REDUCE FIRE HAZARDS AND INJURIES TO THE PUBLIC.

**STORMWATER POLLUTION PREVENTION NOTES**

- 1) STORE, HANDLE, AND DISPOSE OF CONSTRUCTION MATERIALS AND WASTES PROPERLY, SO AS TO PREVENT THEIR CONTACT WITH STORMWATER.
- 2) CONTROL AND PREVENT THE DISCHARGE OF ALL POTENTIAL POLLUTANTS, INCLUDING SOLID WASTES, PAINTS, CONCRETE, PETROLEUM PRODUCTS, CHEMICALS, WASH WATER OR SEDIMENT, AND NON-STORMWATER DISCHARGES TO STORM DRAINS AND WATER COURSES.
- 3) USE SEDIMENT CONTROL OR FILTRATION TO REMOVE SEDIMENT FROM DEWATERING EFFLUENT.
- 4) AVOID CLEANING, FUELING, OR MAINTAINING VEHICLES ON SITE, EXCEPT IN A DESIGNATED AREA IN WHICH RUNOFF IS CONTAINED AND TREATED.
- 5) DELINEATE CLEARING LIMITS, EASEMENTS, SETBACKS, SENSITIVE OR CRITICAL AREAS, BUFFER ZONES, TREES AND DISCHARGE COURSE WITH FIELD MARKERS.
- 6) PROTECT ADJACENT PROPERTIES AND UNDISTURBED AREAS FROM CONSTRUCTION IMPACTS USING VEGETATIVE BUFFER STRIPS, SEDIMENT BARRIERS OF FILTERS, DIKES, MULCHING, OR OTHER MEASURES AS APPROPRIATE.
- 7) PERFORM CLEARING AND EARTH MOVING ACTIVITIES DURING DRY WEATHER TO THE MAXIMUM EXTENT PRACTICAL.
- 8) LIMIT AND TIME APPLICATIONS OF PESTICIDES AND FERTILIZERS TO PREVENT POLLUTED RUNOFF.
- 9) LIMIT CONSTRUCTION ACCESS ROUTES AND STABILIZE DESIGNATED ACCESS POINTS.
- 10) AVOID TRACKING DIRT OR MATERIALS OFF-SITE; CLEAN OFF-SITE PAVED AREAS AND SIDEWALKS USING DRY SWEEPING METHODS TO THE MAXIMUM EXTENT PRACTICAL.

**SUPPLEMENTAL MEASURES**

- A. THE PHRASE "NO DUMPING - DRAINS TO BAY" OR EQUALLY EFFECTIVE PHRASE MUST BE LABELED ON STORM DRAIN INLETS (BY STENCILING, BRANDING, OR PLAQUES) TO ALERT THE PUBLIC TO THE DESTINATION OF STORM WATER AND TO PREVENT DIRECT DISCHARGE OF POLLUTANTS INTO THE STORM DRAIN.
- B. USING FILTRATION MATERIALS ON STORM DRAIN COVERS TO REMOVE SEDIMENT FROM DEWATERING EFFLUENT.
- C. STABILIZING ALL DENUDED AREAS AND MAINTAINING EROSION CONTROL MEASURES CONTINUOUSLY FROM OCTOBER 15 AND APRIL 15.
- D. REMOVING SPOILS PROMPTLY, AND AVOID STOCKPILING OF FILL MATERIALS, WHEN RAIN IS FORECAST. IF RAIN THREATENS, STOCKPILED SOILS AND OTHER MATERIALS SHALL BE COVERED WITH A TARP OR OTHER WATERPROOF MATERIAL.
- E. STORING, HANDLING, AND DISPOSING OF CONSTRUCTION MATERIALS AND WASTES SO AS TO AVOID THEIR ENTRY TO THE STORM DRAIN SYSTEMS OR WATER BODY.

**GRADING & DRAINAGE NOTES:**

**1. SCOPE OF WORK**

THESE SPECIFICATIONS AND APPLICABLE PLANS PERTAIN TO AND INCLUDE ALL SITE GRADING AND EARTHWORK ASSOCIATED WITH THE PROJECT INCLUDING, BUT NOT LIMITED TO THE FURNISHING OF ALL LABOR, TOOLS AND EQUIPMENT NECESSARY FOR SITE CLEARING AND GRUBBING, SITE PREPARATION, DISPOSAL OF EXCESS OR UNSUITABLE MATERIAL, STRIPPING, KEYING, EXCAVATION, OVER EXCAVATION, RECOMPACTION PREPARATION FOR SOIL RECEIVING FILL, PAVEMENT, FOUNDATION OF SLABS, EXCAVATION, IMPORTATION OF ANY REQUIRED FILL MATERIAL, PROCESSING, PLACEMENT AND COMPACTION OF FILL AND SUBSIDIARY WORK NECESSARY TO COMPLETE THE GRADING TO CONFORM TO THE LINES, GRADING AND SLOPE SHOWN ON THE PROJECT GRADING PLANS.

**2. GENERAL**

- A. ALL SITE GRADING AND EARTHWORK SHALL CONFORM TO THE RECOMMENDATIONS OF THESE SPECIFICATIONS, THE SOILS REPORT; AND THE CITY OF MENLO PARK.
- B. ALL FILL MATERIALS SHALL BE DENSIFIED SO AS TO PRODUCE A DENSITY NOT LESS THAN 90% RELATIVE COMPACTION BASED UPON ASTM TEST DESIGNATION D1557. FIELD DENSITY TEST WILL BE PERFORMED IN ACCORDANCE WITH ASTM TEST DESIGNATION 2922 AND 3017. THE LOCATION AND FREQUENCY OF THE FIELD DENSITY TEST WILL BE AS DETERMINED BY THE SOIL ENGINEER. THE RESULTS OF THESE TEST AND COMPLIANCE WITH THE SPECIFICATIONS WILL BE THE BASIS UPON WHICH SATISFACTORY COMPLETION OF THE WORK WILL BE JUDGED BY THE SOIL ENGINEER. ALL CUT AND FILL SLOPES SHALL BE CONSTRUCTED AS SHOWN ON PLANS, BUT NO STEEPER THAN TWO (2) HORIZONTAL TO ONE (1) VERTICAL.
- C. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SATISFACTORY COMPLETION OF ALL THE EARTHWORK IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS. NO DEVIATION FROM THESE SPECIFICATIONS SHALL BE MADE EXCEPT UPON WRITTEN APPROVAL BY THE SOILS ENGINEER. BOTH CUT AND FILL AREAS SHALL BE SURFACE COMPLETED TO THE SATISFACTION OF THE SOILS ENGINEER AT THE CONCLUSION OF ALL GRADING OPERATIONS AND PRIOR TO FINAL ACCEPTANCE. THE CONTRACTOR SHALL NOTIFY THE SOILS ENGINEER AT LEAST TWO (2) WORKING DAYS PRIOR TO DOING ANY SITE GRADING AND EARTHWORK INCLUDING CLEARING.

**3. CLEARING AND GRUBBING**

- A. THE CONTRACTOR SHALL ACCEPT THE SITE IN ITS PRESENT CONDITION. ALL EXISTING PUBLIC IMPROVEMENTS SHALL BE PROTECTED. ANY IMPROVEMENTS DAMAGED SHALL BE REPLACED BY THE CONTRACTOR AS DIRECTED BY THE LOCAL JURISDICTION WITH NO EXTRA COMPENSATION.
- B. ALL ABANDONED BUILDINGS AND FOUNDATIONS, TREE (EXCEPT THOSE SPECIFIED TO REMAIN FOR LANDSCAPING PURPOSES), FENCES, VEGETATION AND ANY SURFACE DEBRIS SHALL BE REMOVED AND DISPOSED OF OFF THE SITE BY THE CONTRACTOR.
- C. ALL ABANDONED SEPTIC TANKS AND ANY OTHER SUBSURFACE STRUCTURES EXISTING IN PROPOSED DEVELOPMENT AREAS SHALL BE REMOVED PRIOR TO ANY GRADING OR FILL OPERATION. ALL APPURTENANT DRAIN FIELDS AND OTHER CONNECTING LINES MUST ALSO BE TOTALLY REMOVED.
- D. ALL ABANDONED UNDERGROUND IRRIGATION OR UTILITY LINES SHALL BE REMOVED OR DEMOLISHED. THE APPROPRIATE FINAL DISPOSITION OF SUCH LINES WILL BE DETERMINED BY THE SOILS ENGINEER. THE METHOD OF REMOVAL OR DEMOLITION SHALL BE DETERMINED BY THE SOILS ENGINEER. ONE OF THE FOLLOWING METHODS WILL BE USED:
  - (1) EXCAVATE AND TOTALLY REMOVE THE UTILITY LINE FROM THE TRENCH.
  - (2) EXCAVATE AND CRUSH THE UTILITY LINE IN THE TRENCH.
  - (3) CAP THE ENDS OF THE UTILITY LINE WITH CONCRETE TO PREVENT THE ENTRANCE OF WATER. THE LOCATIONS AT WHICH THE UTILITY LINE WILL BE CAPPED WILL BE DETERMINED BY THE UTILITY DISTRICT ENGINEER. THE LENGTH OF THE CAP SHALL NOT BE LESS THAN FIVE FEET, AND THE CONCRETED MIX EMPLOYED SHALL HAVE MINIMUM SHRINKAGE.

**4. SITE PREPARATION AND STRIPPING**

- A. ALL SURFACE ORGANICS SHALL BE STRIPPED AND REMOVED FROM BUILDING PADS, AREAS TO RECEIVE COMPACTED FILL AND PAVEMENT AREAS.
- B. UPON THE COMPLETION OF THE ORGANIC STRIPPING OPERATION, THE GROUND SURFACE (NATIVE SOIL SUBGRADE) OVER THE ENTIRE AREA OF ALL BUILDING PADS, STREET AND PAVEMENT AREAS AND ALL AREAS TO RECEIVE COMPACTED FILL SHALL BE PLOWED OR SCARIFIED UNTIL THE SURFACE IS FREE OF RUTS, HUMMOCKS OR OTHER UNEVEN FEATURES WHICH MAY INHIBIT UNIFORM SOIL COMPACTION. THE GROUND SURFACE SHALL THEN BE DISCED OR BLADED TO A DEPTH OF AT LEAST 6 INCHES. UPON ENGINEER'S SATISFACTION, THE NEW SURFACE SHALL BE WATER CONDITIONED AND RECOMPACTED PER REQUIREMENTS FOR COMPACTING FILL MATERIAL.

**5. EXCAVATION**

- A. UPON COMPLETION OF THE CLEARING AND GRUBBING, SITE PREPARATION AND STRIPPING, THE CONTRACTOR SHALL MAKE EXCAVATIONS TO LINES AND GRADES NOTED ON THE PLAN. WHERE REQUIRED BY THE SOILS ENGINEER, UNACCEPTABLE NATIVE SOILS OR UNENGINEERED FILL SHALL BE OVER EXCAVATED BELOW THE DESIGN GRADE. SEE PROJECT SOILS REPORT FOR DISCUSSION OF OVER EXCAVATION OF THE UNACCEPTABLE MATERIAL. RESULTING GROUND LINE SHALL BE SCARIFIED, MOISTURE-CONDITIONED AND RECOMPACTED AS SPECIFIED IN SECTION 4 OF THESE SPECIFICATIONS. COMPACTED FILL MATERIAL SHALL BE PLACED TO BRING GROUND LEVEL BACK TO DESIGN GRADE.
- B. EXCAVATED MATERIALS SUITABLE FOR COMPACTED FILL MATERIAL SHALL BE UTILIZED IN MAKING THE REQUIRED COMPACTED FILLS. THOSE NATIVE MATERIALS CONSIDERED UNSUITABLE BY THE SOILS ENGINEER SHALL BE DISPOSED OF OFF THE SITE BY THE CONTRACTOR.

**6. PLACING, SPREADING AND COMPACTING FILL MATERIAL**

**A. FILL MATERIALS**

THE MATERIALS PROPOSED FOR USE AS COMPACTED FILL SHALL BE APPROVED BY THE SOILS ENGINEER BEFORE COMMENCEMENT OF GRADING OPERATIONS. THE NATIVE MATERIAL IS CONSIDERED SUITABLE FOR FILL; HOWEVER, ANY NATIVE MATERIAL DESIGNATED UNSUITABLE BY THE SOILS ENGINEER SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR. ANY IMPORTED MATERIAL SHALL BE APPROVED FOR USE BY THE SOILS ENGINEER, IN WRITING, BEFORE BEING IMPORTED TO THE SITE AND SHALL POSSESS SUFFICIENT FINES TO PROVIDE A COMPETENT SOIL MATRIX AND SHALL BE FREE OF VEGETATIVE AND ORGANIC MATTER AND OTHER DELETERIOUS MATERIALS. ALL FILL VOIDS SHALL BE FILLED AND PROPERLY COMPACTED. NO ROCKS LARGER THAN THREE INCHES IN DIAMETER SHALL BE PERMITTED.

**B. FILL CONSTRUCTION**

THE SOILS ENGINEER SHALL APPROVE THE NATIVE SOIL SUBGRADE BEFORE PLACEMENT OF ANY COMPACTED FILL MATERIAL. UNACCEPTABLE NATIVE SOIL SHALL BE REMOVED AS DIRECTED BY THE SOILS ENGINEER. THE RESULTING GROUND LINE SHALL BE SCARIFIED MOISTURE CONDITIONED AND RECOMPACTED AS SPECIFIED IN SECTION 4 OF THESE SPECIFICATIONS. COMPACTED FILL MATERIAL SHALL BE PLACED TO BRING GROUND LEVEL BACK TO DESIGN GRADE. GROUND PREPARATION SHALL BE FOLLOWED CLOSELY BY FILL PLACEMENT TO PREVENT DRYING OUT OF THE SUBSOIL BEFORE PLACEMENT OF THE FILL.

THE APPROVED FILL MATERIALS SHALL BE PLACED IN UNIFORM HORIZONTAL LAYERS NO THICKER THAN 8" IN LOOSE THICKNESS. LAYERS SHALL BE SPREAD EVENLY AND SHALL BE THOROUGHLY BLADE MIXED DURING THE SPREADING TO ENSURE UNIFORMITY OF MATERIAL IN EACH LAYER. THE SCARIFIED SUBGRADE AND FILL MATERIAL SHALL BE MOISTURE CONDITIONED TO AT LEAST OPTIMUM MOISTURE. WHEN THE MOISTURE CONTENT OF THE FILL IS BELOW THAT SPECIFIED, WATER SHALL BE ADDED UNTIL THE MOISTURE DURING THE COMPACTION PROCESS. WHEN THE MOISTURE CONTENT OF THE FILL IS ABOVE THAT SPECIFIED, THE FILL MATERIAL SHALL BE AERATED BY BLADING OR OTHER SATISFACTORY METHODS UNTIL THE MOISTURE CONTENT IS AS SPECIFIED.

AFTER EACH LAYER HAS BEEN PLACED, MIXED, SPREAD EVENLY AND MOISTURE CONDITIONED, IT SHALL BE COMPACTED TO AT LEAST THE SPECIFIED DENSITY.

THE FILL OPERATION SHALL BE CONTINUED IN COMPACTED LAYERS AS SPECIFIED ABOVE UNTIL THE FILL HAS BEEN BROUGHT TO THE FINISHED SLOPES AND GRADES AS SHOWN ON THE PLANS. NO LAYER SHALL BE ALLOWED TO DRY OUT BEFORE SUBSEQUENT LAYERS ARE PLACED.

COMPACTION EQUIPMENT SHALL BE OF SUCH DESIGN THAT IT WILL BE ABLE TO COMPACT THE FILL TO THE SPECIFIED MINIMUM COMPACTION WITHIN THE SPECIFIED MOISTURE CONTENT RANGE. COMPACTION OF EACH LAYER SHALL BE CONTINUOUS OVER ITS ENTIRE AREA UNTIL THE REQUIRED MINIMUM DENSITY HAS BEEN OBTAINED.

**7. CUT OR FILL SLOPES**

ALL CONSTRUCTED SLOPES, BOTH CUT AND FILL, SHALL BE NO STEEPER THAN 2 TO 1 (HORIZONTAL TO VERTICAL). DURING THE GRADING OPERATION, COMPACTED FILL SLOPES SHALL BE OVERFILLED BY AT LEAST ONE FOOT HORIZONTALLY AT THE COMPLETION OF THE GRADING OPERATIONS. THE EXCESS FILL EXISTING ON THE SLOPES SHALL BE BLADED OFF TO CREATE THE FINISHED SOLE EMBANKMENT. ALL CUT AND FILL SLOPES SHALL BE TRACK WALKED AFTER BEING BROUGHT TO FINISH GRADE AND THEN BE PLANTED WITH EROSION CONTROL SLOPE PLANTING. THE SOILS ENGINEER SHALL REVIEW ALL CUT SLOPES TO DETERMINE IF ANY ADVERSE GEOLOGIC CONDITIONS ARE EXPOSED. IF SUCH CONDITIONS DO OCCUR, THE SOILS ENGINEER SHALL RECOMMEND THE APPROPRIATE MITIGATION MEASURES AT THE TIME OF THEIR DETECTION.

**8. SEASONAL LIMITS AND DRAINAGE CONTROL**

FILL MATERIALS SHALL NOT BE PLACED, SPREAD OR COMPACTED WHILE IT IS AT AN UNSUITABLY HIGH MOISTURE CONTENT OR DURING OTHERWISE UNFAVORABLE CONDITIONS. WHEN THE WORK IS INTERRUPTED FOR ANY REASON THE FILL OPERATIONS SHALL NOT BE RESUMED UNTIL FIELD TEST PERFORMED BY THE SOILS ENGINEER INDICATE THAT THE MOISTURE CONDITIONS IN AREAS TO BE FILLED ARE AS PREVIOUSLY SPECIFIED. ALL EARTH MOVING AND WORKING OPERATIONS SHALL BE CONTROLLED TO PREVENT WATER FROM RUNNING INTO EXCAVATED AREAS. ALL EXCESS WATER SHALL BE PROMPTLY REMOVED AND THE SITE KEPT DRY.

**9. DUST CONTROL**

THE CONTRACTOR SHALL TAKE ALL STEPS NECESSARY FOR THE ALLEVATION OR PREVENTION OF ANY DUST NUISANCE ON OR ABOUT THE SITE CAUSED BY THE CONTRACTOR'S OPERATION EITHER DURING THE PERFORMANCE OF THE GRADING OR RESULTING FROM THE CONDITION IN WHICH THE CONTRACTOR LEAVES THE SITE. THE CONTRACTOR SHALL ASSUME ALL LIABILITY INCLUDING COURT COST OF CO-DEFENDANTS FOR ALL CLAIMS RELATED TO DUST OR WIND-BLOWN MATERIALS ATTRIBUTABLE TO HIS WORK. COST FOR THIS ITEM OF WORK IS TO BE INCLUDED IN THE EXCAVATION ITEM AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED.

**10. INDEMNITY**

THE CONTRACTOR WILL HOLD HARMLESS, INDEMNIFY AND DEFEND THE ENGINEER, THE OWNER AND HIS CONSULTANTS AND EACH OF THEIR OFFICERS AND EMPLOYEES AND AGENTS, FROM ANY AND ALL LIABILITY CLAIMS, LOSSES OR DAMAGE ARISING OR ALLEGED TO HEREIN, BUT NOT INCLUDING THE SOLE NEGLIGENCE OF THE OWNER, THE ARCHITECT, THE ENGINEER AND HIS CONSULTANTS AND EACH OF THEIR OFFICERS AND EMPLOYEES AND AGENTS.

**11. SAFETY**

IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.

THE DUTY OF THE ENGINEERS TO CONDUCT CONSTRUCTION REVIEW OF THE CONTRACTOR'S PERFORMANCE IS NOT INTENDED TO INCLUDE REVIEW OF THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES, IN, ON OR NEAR THE CONSTRUCTION SITE.

**12. GUARANTEE**

NEITHER THE FINAL PAYMENT, NOR THE PROVISIONS IN THE CONTRACT, NOR PARTIAL, NOR ENTIRE USE OR OCCUPANCY OF THE PREMISES BY THE OWNER SHALL CONSTITUTE AN ACCEPTANCE OF THE WORK NOT DONE IN ACCORDANCE WITH THE CONTRACT OR RELIEVES THE CONTRACTOR OF LIABILITY IN RESPECT TO ANY EXPRESS WARRANTIES OR RESPONSIBILITY FOR FAULTY MATERIAL OR WORKMANSHIP.

THE CONTRACTOR SHALL REMEDY ANY DEFECTS IN WORK AND PAY FOR ANY DAMAGE TO OTHER WORK RESULTING THERE FROM WHICH SHALL APPEAR WITHIN A PERIOD OF ONE (1) CALENDAR YEAR FROM THE DATE OF FINAL ACCEPTANCE OF THE WORK.

**13. TRENCH BACKFILL**

EITHER THE ON-SITE INORGANIC SOIL OR APPROVED IMPORTED SOIL MAY BE USED AS TRENCH BACKFILL. THE BACKFILL MATERIAL SHALL BE MOISTURE CONDITIONED PER THESE SPECIFICATIONS AND SHALL BE PLACED IN LIFTS OF NOT MORE THAN SIX INCHES IN HORIZONTAL UNCOMPACTED LAYERS AND BE COMPACTED BY MECHANICAL MEANS TO A MINIMUM OF 90% RELATIVE COMPACTION. IMPORTED SAND MAY BE USED FOR TRENCH BACKFILL MATERIAL PROVIDED IT IS COMPACTED TO AT LEAST 90% RELATIVE COMPACTION. WATER JETTING ASSOCIATED WITH COMPACTION USING VIBRATORY EQUIPMENT WILL BE PERMITTED ONLY WITH IMPORTED SAND BACKFILL WITH THE APPROVAL OF THE SOILS ENGINEER. ALL PIPES SHALL BE BEDDED WITH SAND EXTENDING FROM THE TRENCH BOTTOM TO TWELVE INCHES ABOVE THE PIPE. SAND BEDDING IS TO BE COMPACTED AS SPECIFIED ABOVE FOR SAND BACKFILL.

**14. EROSION CONTROL**

- A. ALL GRADING, EROSION AND SEDIMENT CONTROL AND RELATED WORK UNDERTAKEN ON THIS SITE IS SUBJECT TO ALL TERMS AND CONDITIONS OF THE COUNTY GRADING ORDINANCE AND MADE A PART HEREOF BY REFERENCE.
- B. THE CONTRACTOR WILL BE LIABLE FOR ANY AND ALL DAMAGES TO ANY PUBLICLY OWNED AND MAINTAINED ROAD CAUSED BY THE AFORESAID CONTRACTOR'S GRADING ACTIVITIES, AND SHALL BE RESPONSIBLE FOR THE CLEANUP OF ANY MATERIAL SPILLED ON ANY PUBLIC ROAD ON THE HAUL ROUTE.
- C. THE EROSION CONTROL MEASURES ARE TO BE OPERABLE DURING THE RAINY SEASON, GENERALLY FROM OCTOBER FIRST TO APRIL FIFTEENTH. EROSION CONTROL PLANTING IS TO BE COMPLETED BY OCTOBER FIRST. NO GRADING OR UTILITY TRENCHING SHALL OCCUR BETWEEN OCTOBER FIRST AND APRIL FIFTEENTH UNLESS AUTHORIZED BY THE LOCAL JURISDICTION.
- D. ALL EROSION CONTROL MEASURES SHALL BE MAINTAINED UNTIL DISTURBED AREAS ARE STABILIZED AND CHANGES TO THIS EROSION AND SEDIMENT CONTROL PLAN SHALL BE MADE TO MEET FIELD CONDITIONS ONLY WITH THE APPROVAL OF OR AT THE DIRECTION OF THE SOILS ENGINEER.
- E. DURING THE RAINY SEASON, ALL PAVED AREAS SHALL BE KEPT CLEAR OF EARTH MATERIAL AND DEBRIS. THE SITE SHALL BE MAINTAINED SO AS TO MINIMIZE SEDIMENT-LADEN RUNOFF TO ANY STORM DRAINAGE SYSTEM.
- F. ALL EROSION CONTROL FACILITIES MUST BE INSPECTED AND REPAIRED AT THE END OF EACH WORKING DAY DURING THE RAINY SEASON.
- G. WHEN NO LONGER NECESSARY AND PRIOR TO FINAL ACCEPTANCE OF DEVELOPMENT, SEDIMENT BASINS SHALL BE REMOVED OR OTHERWISE DEACTIVATED AS REQUIRED BY THE LOCAL JURISDICTION.
- H. A CONSTRUCTION ENTRANCE SHALL BE PROVIDED AT ANY POINT OF EGRESS FROM THE SITE TO ROADWAY. A CONSTRUCTION ENTRANCE SHOULD BE COMPOSED OF COARSE DRAIN ROCK (2" TO 3" MINIMUM DIAMETER) AT LEAST EIGHT INCHES THICK BY FIFTY (50) FEET LONG BY TWENTY (20) FEET WIDE UNLESS SHOWN OTHERWISE ON PLAN AND SHALL BE MAINTAINED UNTIL THE SITE IS PAVED.
- I. ALL AREAS SPECIFIED FOR HYDROSEEDING SHALL BE NOZZLE PLANTED WITH STABILIZATION MATERIAL CONSISTING OF FIBER, SEED, FERTILIZER AND WATER, MIXED AND APPLIED IN THE FOLLOWING PROPORTIONS:
 

FIBER, 2000 LBS/ACRE
SEED, 200 LBS/ACRE (SEE NOTE J, BELOW)
FERTILIZER (11-8-4), 500 LBS/ACRE
WATER, AS REQUIRED FOR APPLICATION
- J. SEED MIX SHALL BE PER CALTRANS STANDARDS.
- K. WATER UTILIZED IN THE STABILIZATION MATERIAL SHALL BE OF SUCH QUALITY THAT IT WILL PROMOTE GERMINATION AND STIMULATE GROWTH OF PLANTS. IT SHALL BE FREE OF POLLUTANT MATERIALS AND WEED SEED.
- L. HYDROSEEDING SHALL CONFORM TO THE PROVISIONS OF SECTION 20, EROSION CONTROL AND HIGHWAY "PLANTING", OF THE STANDARD SPECIFICATIONS OF THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION, AS LAST REVISED.
- M. A DISPERSING AGENT MAY BE ADDED TO THE HYDROSEEDING MATERIAL, PROVIDED THAT THE CONTRACTOR FURNISHES SUITABLE EVIDENCE THAT THE ADDITIVE WILL NOT ADVERSELY AFFECT THE PERFORMANCE OF THE SEEDING MIXTURE.
- N. STABILIZATION MATERIALS SHALL BE APPLIED AS SOON AS PRACTICABLE AFTER COMPLETION OF GRADING OPERATIONS AND PRIOR TO THE ONSET OF WINTER RAINS, OR AT SUCH OTHER TIME AS DIRECTED BY THE COUNTY ENGINEER. THE MATERIAL SHALL BE APPLIED BEFORE INSTALLATION OF OTHER LANDSCAPING MATERIALS SUCH AS TREES, SHRUBS AND GROUND COVERS.
- O. THE STABILIZATION MATERIAL SHALL BE APPLIED WITHIN 4-HOURS AFTER MIXING. MIXED MATERIAL NOT USED WITHIN 4-HOURS SHALL BE REMOVED FROM THE SITE.
- P. THE CONTRACTOR SHALL MAINTAIN THE SOIL STABILIZATION MATERIAL AFTER PLACEMENT. THE COUNTY ENGINEER MAY REQUIRE SPRAY APPLICATION OF WATER OR OTHER MAINTENANCE ACTIVITIES TO ASSURE THE EFFECTIVENESS OF THE STABILIZATION PROCESS. APPLICATION OF WATER SHALL BE ACCOMPLISHED USING NOZZLES THAT PRODUCE A SPRAY THAT DOES NOT CONCENTRATE OR WASH AWAY THE STABILIZATION MATERIALS.

**15. CLEANUP**

THE CONTRACTOR MUST MAINTAIN THE SITE CLEAN, SAFE AND IN USABLE CONDITION. ANY SPILLS OF SOIL, ROCK OR CONSTRUCTION MATERIAL MUST BE REMOVED FROM THE SITE BY THE CONTRACTOR DURING CONSTRUCTION AND UPON COMPLETION OF THE PROJECT. COST FOR THIS ITEM OF WORK SHALL BE INCLUDED IN THE EXCAVATION AND COMPACTION ITEM AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED.

**NOTE:**  
THESE NOTES ARE INTENDED TO BE USED AS A GENERAL GUIDELINE. THE REFERENCED SOILS REPORT FOR THE PROJECT AND GOVERNING AGENCY GRADING ORDINANCE SHALL SUPERSEDE THESE NOTES. THE SOILS ENGINEER MAY MAKE ON-SITE RECOMMENDATIONS DURING GRADING OPERATIONS.



**LEA & BRAZE ENGINEERING, INC.**  
CIVIL ENGINEERS & LAND SURVEYORS  
REGIONAL OFFICES:  
MAIN OFFICE: 3705 HAVEN AVENUE, MENLO PARK, CALIFORNIA 94025  
DUBLIN OFFICE: 10000 DUBLIN BOULEVARD, DUBLIN, CALIFORNIA 94568  
SAN JOSE OFFICE: 1000 SAN JOSE AVENUE, SAN JOSE, CALIFORNIA 95128  
(510) 687-4066  
WWW.LEABRAZE.COM

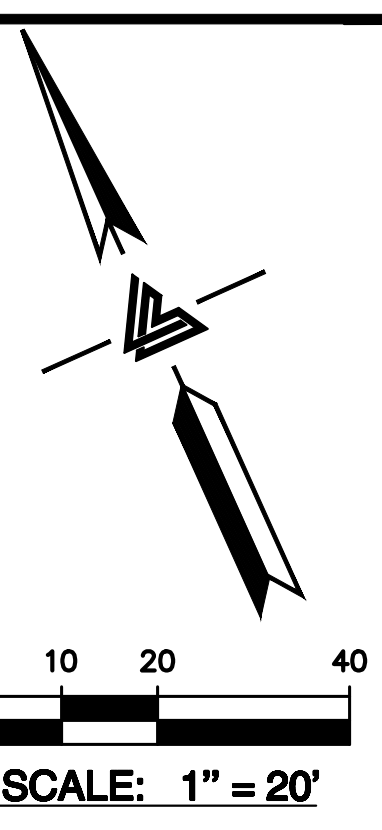
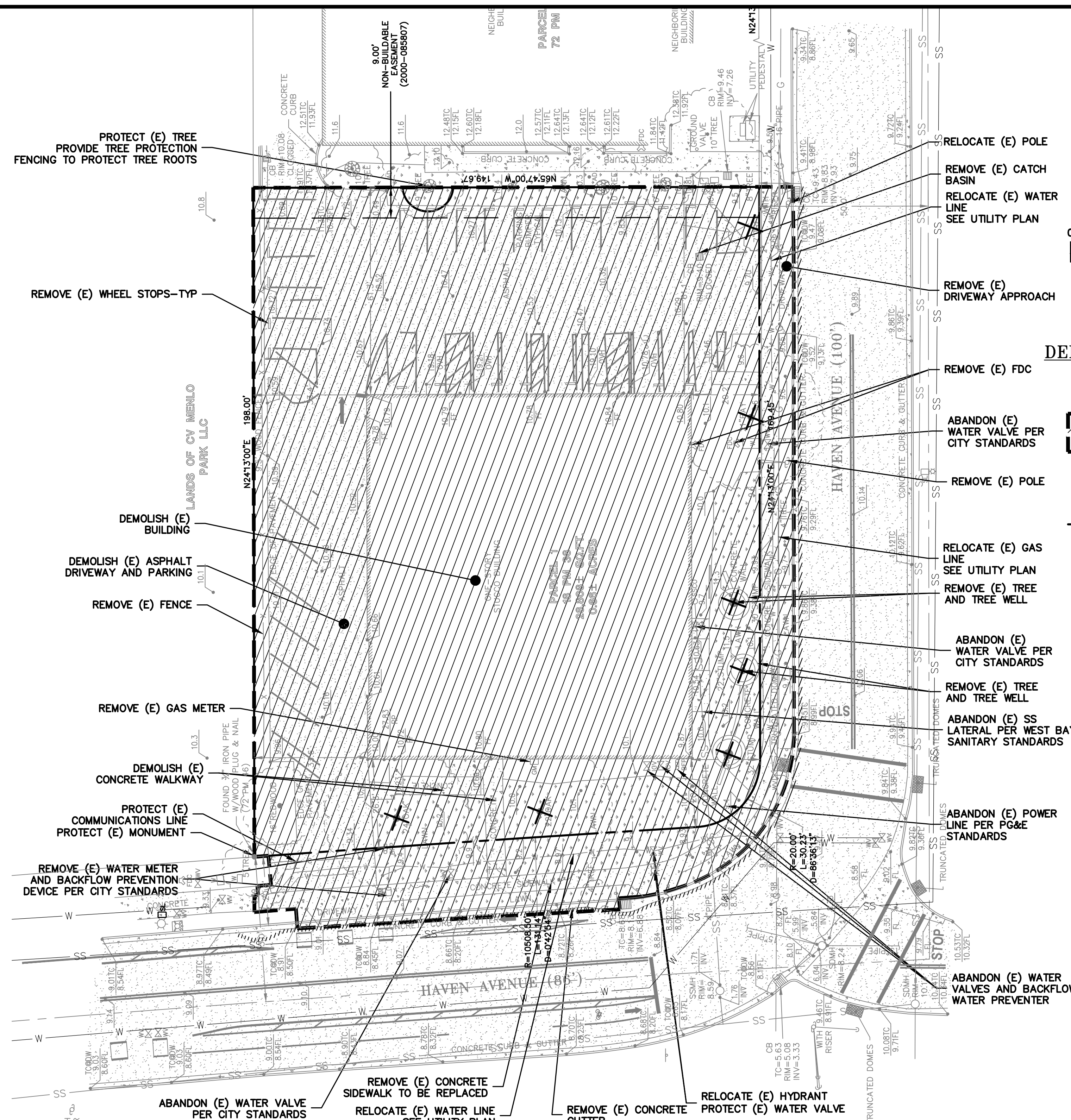
3705 HAVEN AVENUE  
MENLO PARK, CALIFORNIA  
APN: 055-170-240  
SAN MATEO COUNTY

GRADING SPECIFICATIONS

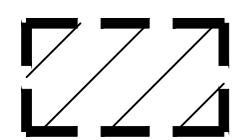
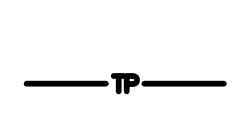

9	COMP REVIEW 07-16-24	VA
8	COMP REVIEW 05-31-24	VA
7	COMP REVIEW 03-21-24	VA
6	C3 PLN CHK 10-17-23	VA
5	C3 PLN CHK 10-04-23	VA
	REVISIONS	BY

JOB NO: 2220759  
DATE: 11-18-22  
SCALE: NO SCALE  
DESIGN BY: VA  
CHECKED BY: JH/PC  
SHEET NO:





**DEMOLITION LEGEND**

-  ALL ITEMS WITHIN LIMITS OF DEMOLITION TO BE REMOVED UNLESS OTHERWISE NOTED TO REMAIN ON PLANS. CONTRACTOR IS TO REMOVE ALL LAWN IRRIGATION SYSTEMS, PAVEMENT CONCRETE AND STRUCTURES UNLESS CALLED OUT TO REMAIN. NO DEMOLITION SHALL COMMENCE WITHOUT REQUIRED DEMOLITION PERMITS.
-  TREE PROTECTION FENCING PER ARBORIST RECOMMENDATIONS. REFER TO CITY OF MENLO PARK TREE PROTECTION SPECIFICATIONS AND ARBORIST REPORT.
-  REMOVE (E) TREE. CONTRACTOR SHALL OBTAIN THE PROPER TREE REMOVAL PERMITS AS REQUIRED.

**NOTES**

1. THE APPLICANT SHALL REMOVE AND REPLACE ALL CRACKED, DAMAGED, UPLIFTED OR DEPRESSED FRONTAGE IMPROVEMENTS LOCATED IN CITY'S RIGHT-OF-WAY, EXISTING OR DAMAGED BY THE CONSTRUCTION ACTIVITIES, PER CITY STANDARDS ALONG THE ENTIRE PROPERTY FRONTAGE.
2. CIVIL ENGINEER SHALL COORDINATE WITH PROJECT ARBORIST TO DETERMINE THE LOCATIONS OF EDGE OF PAVEMENT, STORM DRAIN LINES AND OTHER UTILITY LINES NEAR TREES. THE LOCATIONS OF IMPROVEMENTS NEAR CITY TREES SHALL BE APPROVED BY CITY ARBORIST.
3. CONTACT PUBLIC WORKS AT (650) 330-6740 TO SCHEDULE AN INSPECTION A MINIMUM OF 24 HOURS IN ADVANCE OF COMMENCEMENT OF PUBLIC IMPROVEMENT WORK. THE CONSTRUCTION SUPERVISOR WILL DISCUSS ANY REPAIR WORK TO FRONTAGE IMPROVEMENTS WHICH ARE NOT SHOWN ON THE PLANS.
4. PRIOR TO FINAL INSPECTION, THE APPLICANT SHALL OBTAIN AN ENCROACHMENT PERMIT FROM THE CITY'S ENGINEERING DIVISION FOR ALL EXISTING PRIVATE STRUCTURES, IMPROVEMENTS AND LANDSCAPING (IF ANY) LOCATED IN THE CITY'S RIGHT-OF-WAY ALONG THE PROPERTY FRONTAGE.
5. THE APPLICANT SHALL REMOVE AND REPLACE ALL CRACKED, DAMAGED UPLIFTED OR DEPRESSED FRONTAGE IMPROVEMENTS (CURB, GUTTER, SIDEWALK, DRIVEWAY, ETC.), EXISTING OR DAMAGED BY THE CONSTRUCTION ACTIVITIES, PER CITY STANDARDS ALONG THE ENTIRE PROPERTY FRONTAGE. IF FRONTAGE IMPROVEMENTS DO NOT CURRENTLY EXIST, THE APPLICANT IS REQUIRED TO INSTALL FRONTAGE IMPROVEMENTS PER CITY STANDARDS ALONG THE ENTIRE PROPERTY FRONTAGE. ALL IMPROVEMENTS ARE TO BE COMPLETED AND APPROVED BY THE CITY OF MENLO PARK'S PUBLIC WORKS INSPECTOR PRIOR TO THE FINAL INSPECTION BY THE BUILDING INSPECTOR.



**LEA & BRAZE ENGINEERING, INC.**  
 CIVIL ENGINEERS | LAND SURVEYORS  
 REGIONAL OFFICES:  
 DUBLIN, CA  
 DUBLIN, CA  
 HAYWARD, CALIFORNIA 94545  
 SAN JOSE  
 (510) 887-4066  
 WWW.LEABRAZE.COM

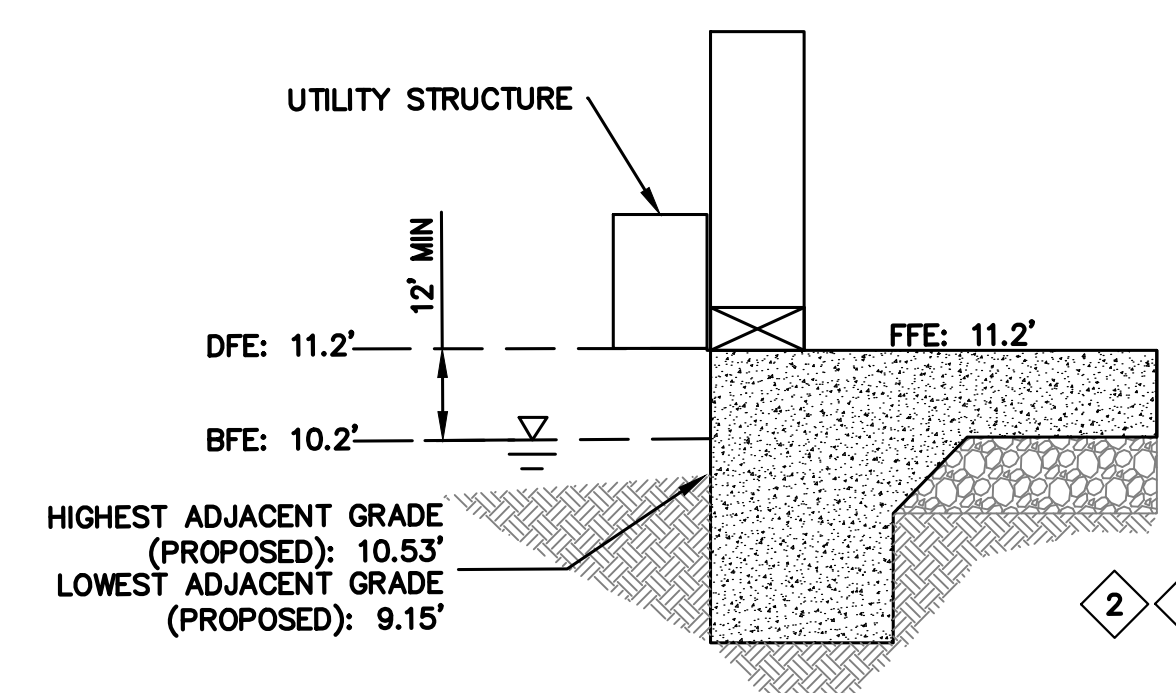
**3705 HAVEN AVENUE  
 MENLO PARK, CALIFORNIA**  
 SAN MATEO COUNTY  
 APN: 055-170-240

**DEMOLITION PLAN**

NO.	REVISIONS	BY
9	COMP REVIEW 07-16-24	VA
8	COMP REVIEW 05-31-24	VA
7	COMP REVIEW 03-21-24	VA
6	C3 PLN CHK 10-17-23	VA
5	C3 PLN CHK 10-04-23	VA

JOB NO: 2220759  
 DATE: 11-18-22  
 SCALE: AS NOTED  
 DESIGN BY: VA  
 CHECKED BY: JH/PC  
 SHEET NO:

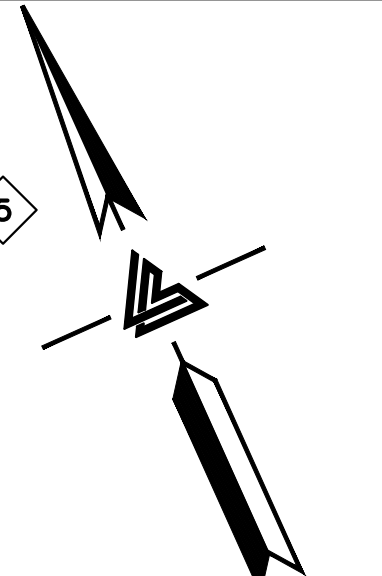
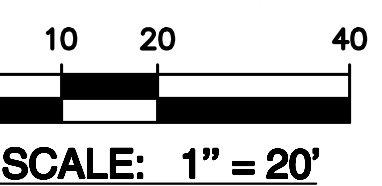
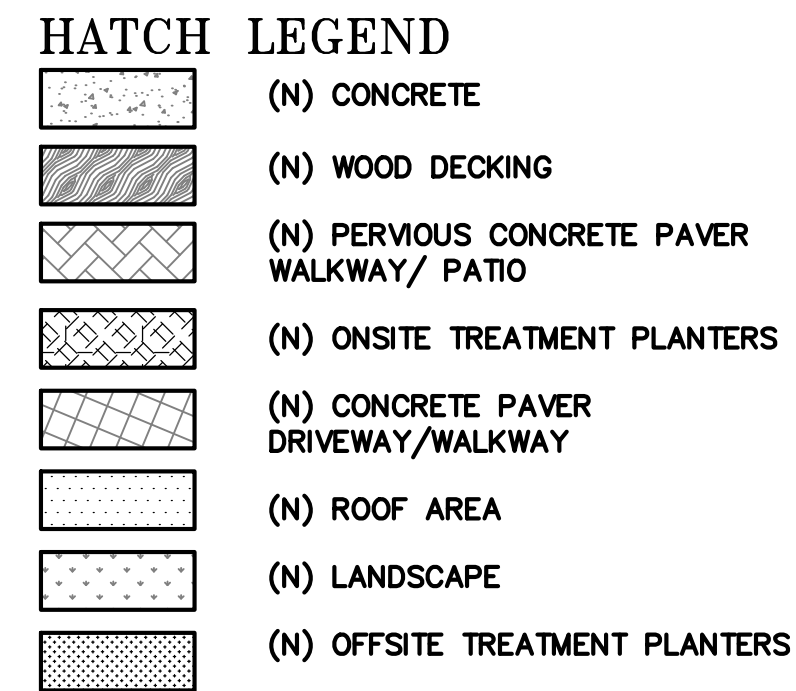
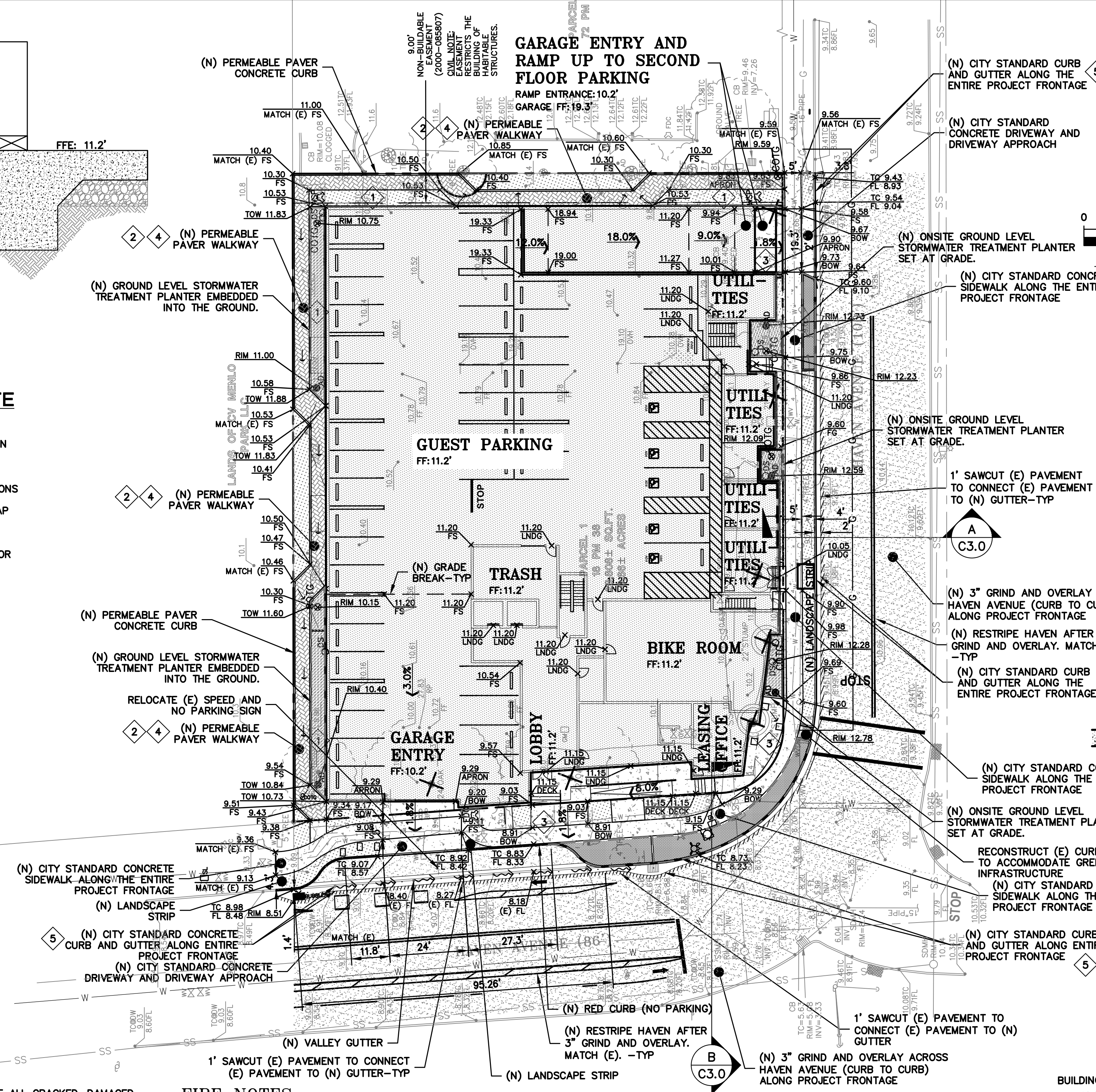




**FEMA ELEVATIONS**

**FEMA FLOOD NOTE**

FLOOD ZONE: AE  
 100-YEAR BASE FLOOD ELEVATION (BFE): 10.2' (NAVD88 DATUM) PER FLOOD INSURANCE STUDY TABLE 11, SUMMARY OF NON-COASTAL STILLWATER ELEVATIONS  
 FEMA FLOOD INSURANCE RATE MAP NO.: 06081C0306F EFFECTIVE DATE: APRIL 5, 2019  
 FEMA FLOOD INSURANCE STUDY FOR SAN MATEO COUNTY, CA NO.: 06081C001D REVISED: APRIL 5, 2019



**FLATWORK KEYNOTES 1 TO 5**  
 FINISHED GRADES AT BUILDING PERIMETER SHALL BE SLOPED AT A MINIMUM OF 5% FOR THE FIRST 10' AWAY FROM THE BUILDING PER CBC 1804.4 OR TO AN APPROVED DRAINAGE SWALE OR STRUCTURE. GRADES SHALL CONTINUE TO SLOPE TOWARDS POSITIVE DRAINAGE AND A POSITIVE OUTFALL. MAINTAIN 8" CLEARANCE BETWEEN FINISH EARTHEN GRADE AND BOTTOM OF MUD SILL AT ALL TIMES PER CBC 2304.12.1.2 UNLESS STRUCTURAL DETAILING ALLOWS LESS. REFER TO STRUCTURAL PLANS FOR FOUNDATION DESIGN AND DETAILS.  
 1 PROVIDE 1.8% SLOPE ACROSS FLAT WORK AND/OR PAVING PER CBC 1804.4. SLOPE TOWARDS POSITIVE DRAINAGE AS SHOWN ON PLAN.  
 2 (N) CONCRETE DRIVEWAY/PATIO/WALKWAY. SEE DETAIL ON SHEET C-6.0.  
 3 (N) PERMEABLE PAVER WALKWAY-S.L.D.  
 4 (N) CITY STANDARD CURB AND GUTTER ALONG ENTIRE PROJECT FRONTAGE. USE GREEN INFRASTRUCTURE EDGE TREATMENT WITH DRAINAGE NOTCHES WHERE APPLICABLE. SEE SCP-4 FOR DETAILS.  
 5

**NOTES**

- THE APPLICANT SHALL REMOVE AND REPLACE ALL CRACKED, DAMAGED, UPLIFTED OR DEPRESSED FRONTAGE IMPROVEMENTS LOCATED IN CITY'S RIGHT-OF-WAY, EXISTING OR DAMAGED BY THE CONSTRUCTION ACTIVITIES, PER CITY STANDARDS ALONG THE ENTIRE PROPERTY FRONTAGE.
- CIVIL ENGINEER SHALL COORDINATE WITH PROJECT ARBORIST TO DETERMINE THE LOCATIONS OF EDGE OF PAVEMENT, STORM DRAIN LINES AND OTHER UTILITY LINES NEAR TREES. THE LOCATIONS OF IMPROVEMENTS NEAR CITY TREES SHALL BE APPROVED BY CITY ARBORIST.
- CONTACT PUBLIC WORKS AT (650) 330-6740 TO SCHEDULE AN INSPECTION A MINIMUM OF 24 HOURS IN ADVANCE OF COMMENCEMENT OF PUBLIC IMPROVEMENT WORK. THE CONSTRUCTION SUPERVISOR WILL DISCUSS ANY REPAIR WORK TO FRONTAGE IMPROVEMENTS WHICH ARE NOT SHOWN ON THE PLANS.
- PRIOR TO FINAL INSPECTION, THE APPLICANT SHALL OBTAIN AN ENCROACHMENT PERMIT FROM THE CITY'S ENGINEERING DIVISION FOR ALL EXISTING PRIVATE STRUCTURES, IMPROVEMENTS AND LANDSCAPING (IF ANY) LOCATED IN THE CITY'S RIGHT-OF-WAY ALONG THE PROPERTY FRONTAGE.
- THE APPLICANT SHALL REMOVE AND REPLACE ALL CRACKED, DAMAGED UPLIFTED OR DEPRESSED FRONTAGE IMPROVEMENTS (CURB, GUTTER, SIDEWALK, DRIVEWAY, ETC.), EXISTING OR DAMAGED BY THE CONSTRUCTION ACTIVITIES, PER CITY STANDARDS ALONG THE ENTIRE PROPERTY FRONTAGE. IF FRONTAGE IMPROVEMENTS DO NOT CURRENTLY EXIST, THE APPLICANT IS REQUIRED TO INSTALL FRONTAGE IMPROVEMENTS PER CITY STANDARDS ALONG THE ENTIRE PROPERTY FRONTAGE. ALL IMPROVEMENTS ARE TO BE COMPLETED AND APPROVED BY THE CITY OF MENLO PARK'S PUBLIC WORKS INSPECTOR PRIOR TO THE FINAL INSPECTION BY THE BUILDING INSPECTOR.

**FIRE NOTES**

- FIRE APPARATUS ROADWAYS, INCLUDING PUBLIC AND PRIVATE STREETS AND IN SOME CASES DRIVEWAYS USED FOR VEHICLE ACCESS, SHALL BE CAPABLE OF SUPPORTING THE IMPOSED WEIGHT OF A 75,000 POUND (34,050 KG) FIRE APPARATUS AND SHALL BE PROVIDED WITH AN ALL-WEATHER DRIVING SURFACE. ONLY PAVED OR CONCRETE SURFACES ARE CONSIDERED TO BE ALL WEATHER DRIVING SURFACES. CFC 2016, APPENDIX D.
- CURBING LOCATED WITHIN THE COMPLEX THAT HAS NOT BEEN ASSIGNED AS ON-SITE PARKING SHALL BE DESIGNATED AS "NO PARKING FIRE LANE". ALL FIRE LANES TO COMPLY WITH MPFD STANDARD FOR "DESIGNATION AND MARKING OF FIRE LANE", SINCE THERE ARE ONLY TO POINTS OF ACCESS TO THE COMPLEX "ENTRANCE SIGN B" MAY BE USED AT EACH POINT OF ACCESS TO COMPLEX. PROVIDE A COMPLETE NO PARKING-FIRE LANE STRIPPING PLAN WITH NO PARKING SIGNAGE IN ACCORDANCE TO MPFD STANDARD ON SUBSEQUENT SUBMITTAL.
  - ROADWAY WIDTH FOR PROJECT SHALL BE NO LESS THAN 26 FEET WIDE AND SHALL REQUIRE CURB STRIPPING WITH NO PARKING SIGNAGE AS PER MPFD STANDARD.
  - REQUIRED NO PARKING SIGNAGE INSTALLED AT AN APPROVED LOCATION AT ENTRANCES.
- FIRE APPARATUS ROADWAYS, INCLUDING PUBLIC OR PRIVATE STREETS OR ROADS USED FOR VEHICLE ACCESS SHALL BE INSTALLED AND IN SERVICE PRIOR TO CONSTRUCTION. FIRE PROTECTION WATER SERVING ALL HYDRANTS SHALL BE PROVIDED AS SOON AS COMBUSTIBLE MATERIAL ARRIVES ON THE SITE.
  - PRIOR TO COMBUSTIBLE MATERIAL ARRIVING ON THE SITE, CONTACT THE MENLO PARK FIRE DISTRICT TO SCHEDULE AN INSPECTION OF ROADWAYS AND FIRE HYDRANTS. CFC 2013.

**INSPECTION NOTE:**  
 THE CONTRACTOR SHALL INFORM THE OWNER (IN WRITING) OF RECOMMENDED PERIODIC INSPECTION AND MAINTENANCE OF THE ON-SITE STORM DRAINAGE SYSTEM. THE REGULAR CLEARING OF SILT AND DEBRIS IS ESPECIALLY IMPORTANT PRIOR TO EACH RAINY SEASON.

**NOTE:**  
 CONTRACTOR SHALL FIELD VERIFY LOCATIONS AND DEPTHS OF EXISTING UTILITIES PRIOR TO COMMENCING CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY CONFLICTS IN ANY EXIST.

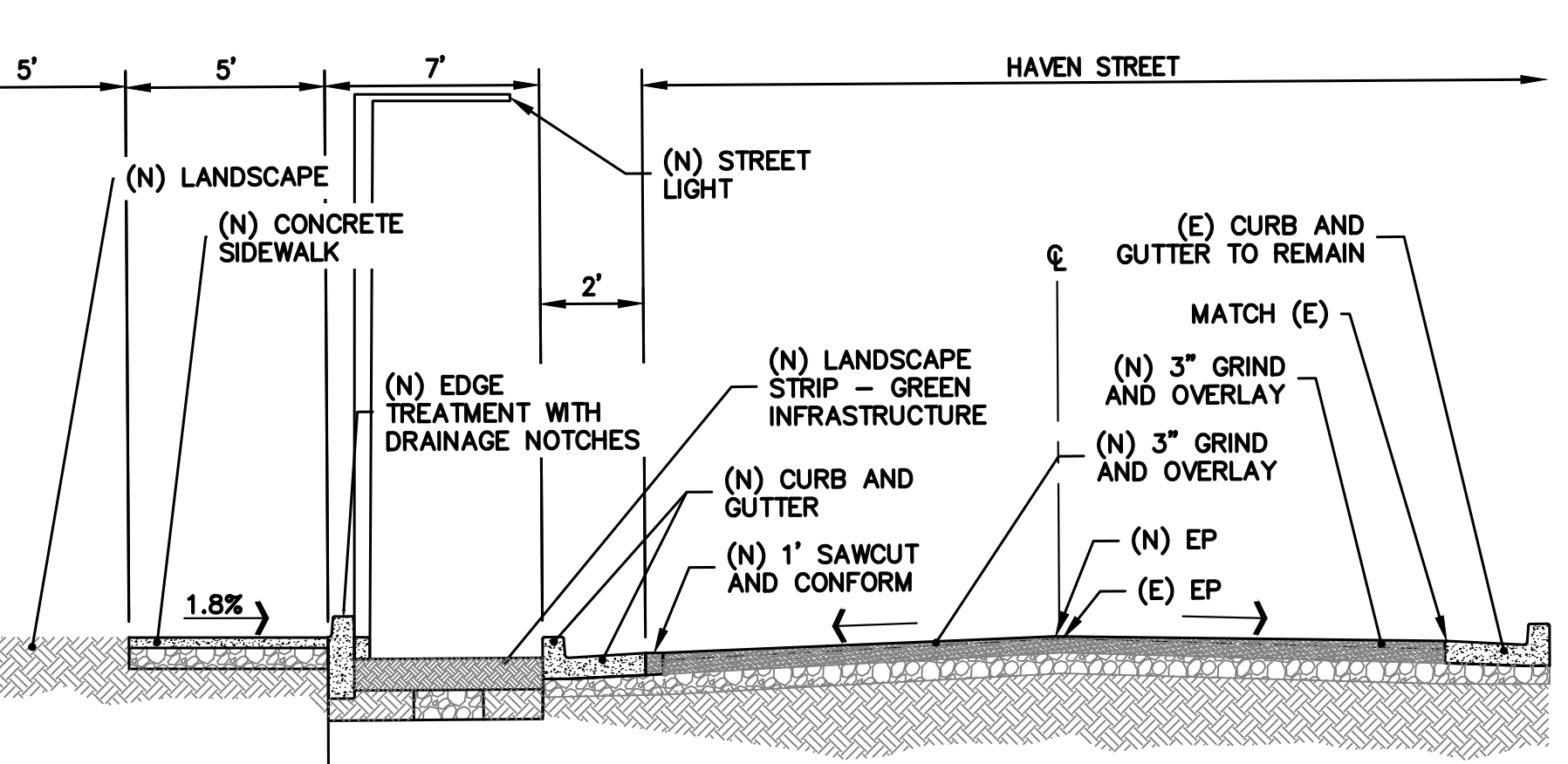
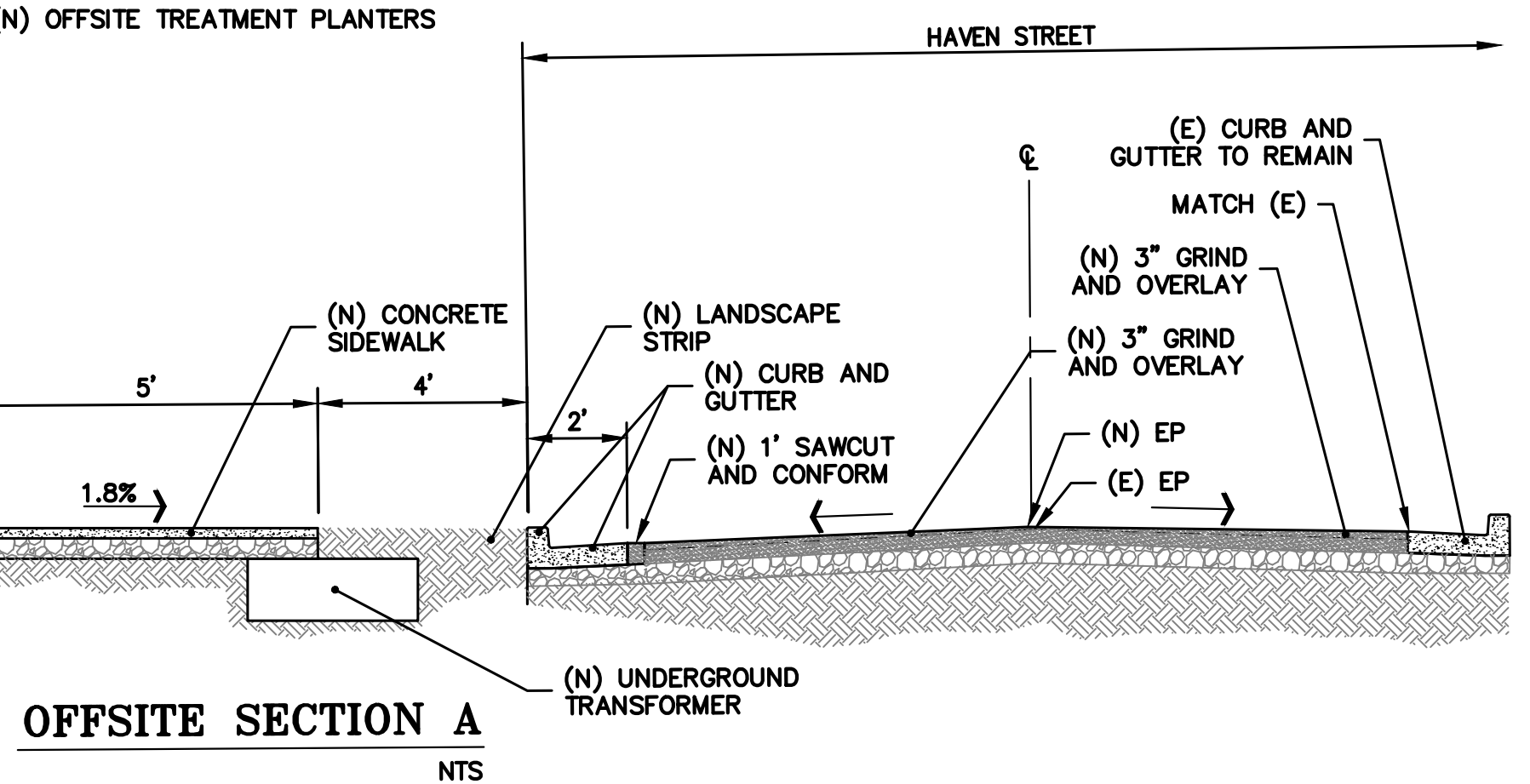
**NOTE:**  
 ALL UTILITIES SHALL BE PLACED UNDERGROUND IF REQUIRED BY THE UTILITY COMPANY.

**NOTE:**  
 SITE GRADING SHALL NOT IMPEDE EXISTING DRAINAGE FROM ADJACENT PROPERTIES AND SHALL NOT GENERATE SURFACE RUN-OFF FLOW ONTO ADJACENT PROPERTIES.

**NOTE:**  
 FOR CONSTRUCTION STAKING SCHEDULING OR QUOTATIONS PLEASE CONTACT ALEX ABAYA AT LEA & BRAZE ENGINEERING (510)887-4086 EXT 116. aabaya@leabraze.com

**BUILDING PAD NOTE:**  
 ADJUST PAD LEVEL AS REQUIRED. REFER TO STRUCTURAL PLANS FOR SLAB SECTION OR CRAWL SPACE DEPTH TO ESTABLISH PAD LEVEL.

**NOTE:**  
 TOPOGRAPHIC INFORMATION HAS BEEN REMOVED FOR CLARITY. SEE ORIGINAL SURVEY FOR EXISTING SITE CONDITIONS.



**LEA & BRAZE ENGINEERING, INC.**  
 CIVIL ENGINEERS & LAND SURVEYORS  
 REGIONAL OFFICES:  
 MAIN OFFICE: 10000 RAVEN HILL BLVD., DUBLIN, CA 94568  
 SAN JOSE OFFICE: 10000 RAVEN HILL BLVD., DUBLIN, CA 94568  
 (510) 887-4086  
 WWW.LEABRAZE.COM

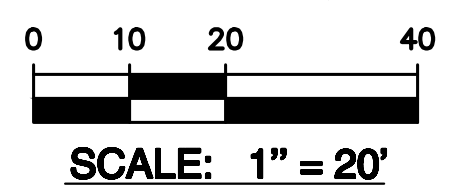
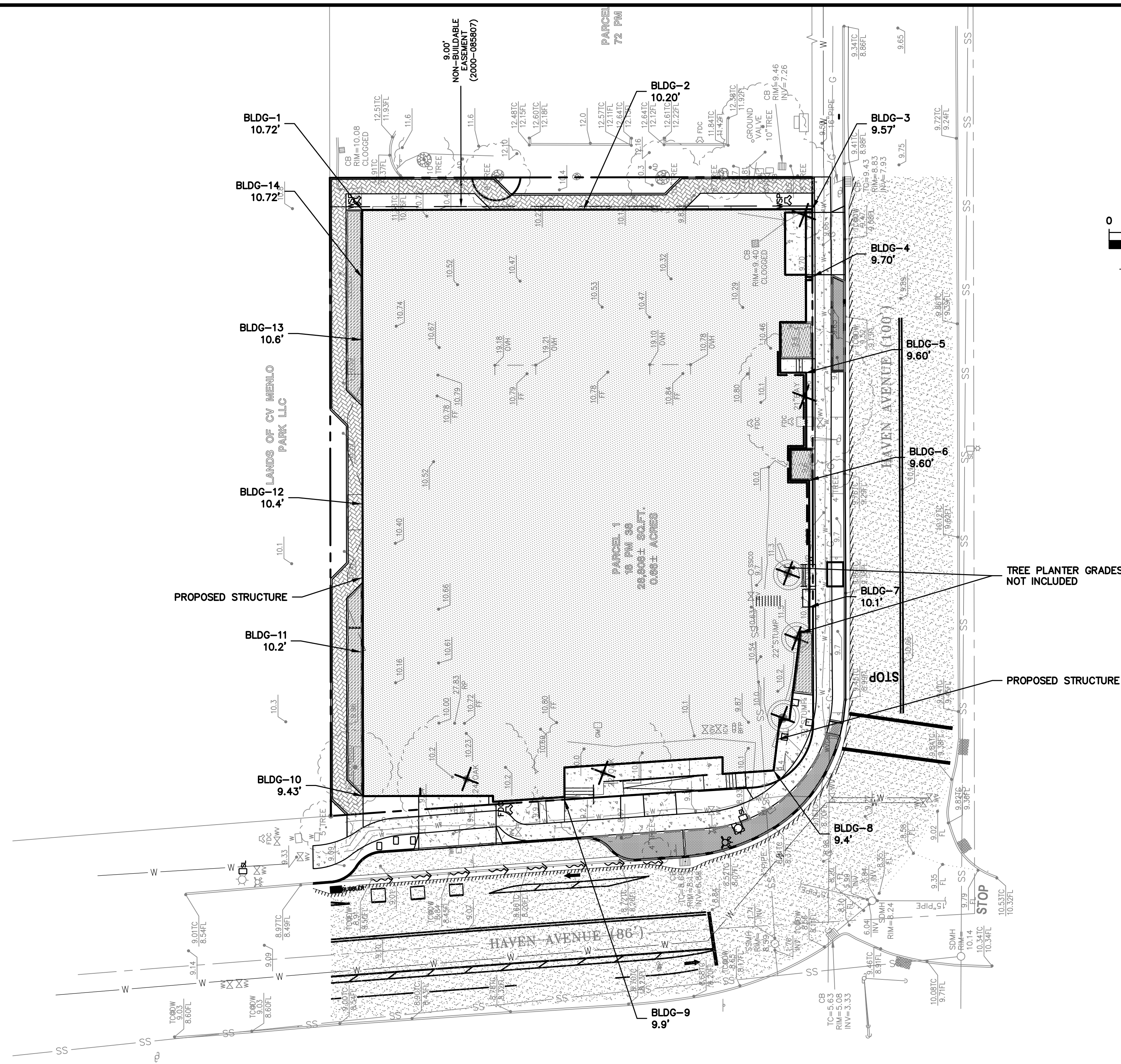
**3705 HAVEN AVENUE**  
**MENLO PARK, CALIFORNIA**

**PRELIMINARY GRADING AND DRAINAGE PLAN**

NO.	DESCRIPTION	DATE	BY
9	COMP REVIEW	07-16-24	VA
8	COMP REVIEW	05-31-24	VA
7	COMP REVIEW	03-21-24	VA
6	C3-PLN CHK	10-17-23	VA
5	C3-PLN CHK	10-04-23	VA
	REVISIONS		BY

JOB NO: 2220759  
 DATE: 11-18-22  
 SCALE: AS NOTED  
 DESIGN BY: VA  
 CHECKED BY: JH/PC  
 SHEET NO:





**HATCH LEGEND**

- (N) CONCRETE
- (N) WOOD DECKING
- (N) PERVIOUS CONCRETE PAVER WALKWAY/ PATIO
- (N) ONSITE TREATMENT PLANTERS
- (N) CONCRETE PAVER DRIVEWAY/WALKWAY
- (N) ROOF AREA
- (N) LANDSCAPE
- (N) OFFSITE TREATMENT PLANTERS

PROJECT	DATE
3705 HAVEN STREET	March 13, 2024
JOB NO.	BY
2220759	V.A.NDA

Proposed Building	
Point #	Elevation
BLDG-1	10.72
BLDG-2	10.20
BLDG-3	9.57
BLDG-4	9.70
BLDG-5	9.60
BLDG-6	9.60
BLDG-7	10.10
BLDG-8	9.40
BLDG-9	9.90
BLDG-10	9.43
BLDG-11	10.20
BLDG-12	10.40
BLDG-13	10.60
BLDG-14	10.72
Average Natural Grade	10.01

**INSPECTION NOTE:**  
 THE CONTRACTOR SHALL INFORM THE OWNER (IN WRITING) OF RECOMMENDED PERIODIC INSPECTION AND MAINTENANCE OF THE ON-SITE STORM DRAINAGE SYSTEM. THE REGULAR CLEARING OF SILT AND DEBRIS IS ESPECIALLY IMPORTANT PRIOR TO EACH RAINY SEASON.

**NOTE:**  
 CONTRACTOR SHALL FIELD VERIFY LOCATIONS AND DEPTHS OF EXISTING UTILITIES PRIOR TO COMMENCING CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY CONFLICTS IN ANY EXIST.

**NOTE:**  
 ALL UTILITIES SHALL BE PLACED UNDERGROUND IF REQUIRED BY THE UTILITY COMPANY.

**NOTE:**  
 SITE GRADING SHALL NOT IMPEDE EXISTING DRAINAGE FROM ADJACENT PROPERTIES AND SHALL NOT GENERATE SURFACE RUN-OFF FLOW ONTO ADJACENT PROPERTIES.

**NOTE:**  
 FOR CONSTRUCTION STAKING SCHEDULING OR QUOTATIONS PLEASE CONTACT ALEX ABAYA AT LEA & BRAZE ENGINEERING (510)887-4086 EXT 116. aabaya@leabraze.com

**\* BUILDING PAD NOTE:**  
 ADJUST PAD LEVEL AS REQUIRED. REFER TO STRUCTURAL PLANS FOR SLAB SECTION OR CRAWL SPACE DEPTH TO ESTABLISH PAD LEVEL.

**NOTE:** TOPOGRAPHIC INFORMATION HAS BEEN REMOVED FOR CLARITY. SEE ORIGINAL SURVEY FOR EXISTING SITE CONDITIONS.



**LEA & BRAZE ENGINEERING, INC.**  
 CIVIL ENGINEERS | LAND SURVEYORS  
 REGIONAL OFFICES:  
 MAIN OFFICE: 11000 RIVINGTON AVENUE, DUBLIN, CA 94568  
 SAN JOSE OFFICE: 1000 AVENUE 86, SAN JOSE, CA 95128  
 (510) 887-4086  
 WWW.LEABRAZE.COM

**3705 HAVEN AVENUE  
 MENLO PARK, CALIFORNIA**

SAN MATEO COUNTY APN: 055-170-240

**AVERAGE NATURAL  
 GRADE EXHIBIT**

9	COMP REVIEW	VA
8	07-16-24	VA
7	05-31-24	VA
6	03-21-24	VA
5	C3 PLN CHK	VA
4	10-17-23	VA
3	C3 PLN CHK	VA
2	10-04-23	VA
1	REVISIONS	BY

JOB NO: 2220759  
 DATE: 11-18-22  
 SCALE: AS NOTED  
 DESIGN BY: VA  
 CHECKED BY: JH/PC  
 SHEET NO:





**LEA & BRAZE ENGINEERING, INC.**  
 CIVIL ENGINEERS & LAND SURVEYORS  
 REGIONAL OFFICES:  
 DUBLIN, CALIFORNIA 94568  
 SAN JOSE, CALIFORNIA 95128  
 (510) 887-4086  
 WWW.LEABRAZE.COM

**3705 HAVEN AVENUE  
 MENLO PARK, CALIFORNIA**  
 SAN MATEO COUNTY  
 APN: 055-170-240

**PRELIMINARY  
 UTILITIES PLAN**

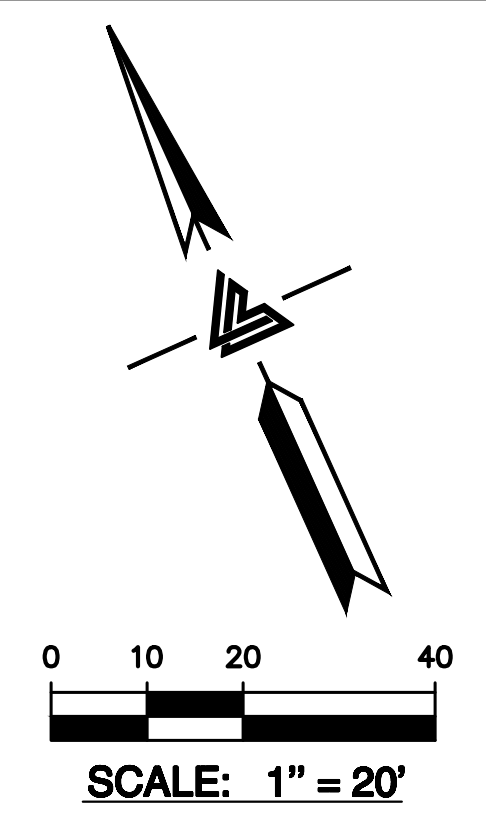
NO.	REVISIONS	BY
9	COMP REVIEW 07-16-24	VA
8	COMP REVIEW 05-31-24	VA
7	COMP REVIEW 03-21-24	VA
6	C3 PLN CHK 10-17-23	VA
5	C3 PLN CHK 10-04-23	VA

JOB NO:	DATE:
2220759	11-18-22
SCALE:	AS NOTED
DESIGN BY:	VA
CHECKED BY:	JH/PC
SHEET NO:	

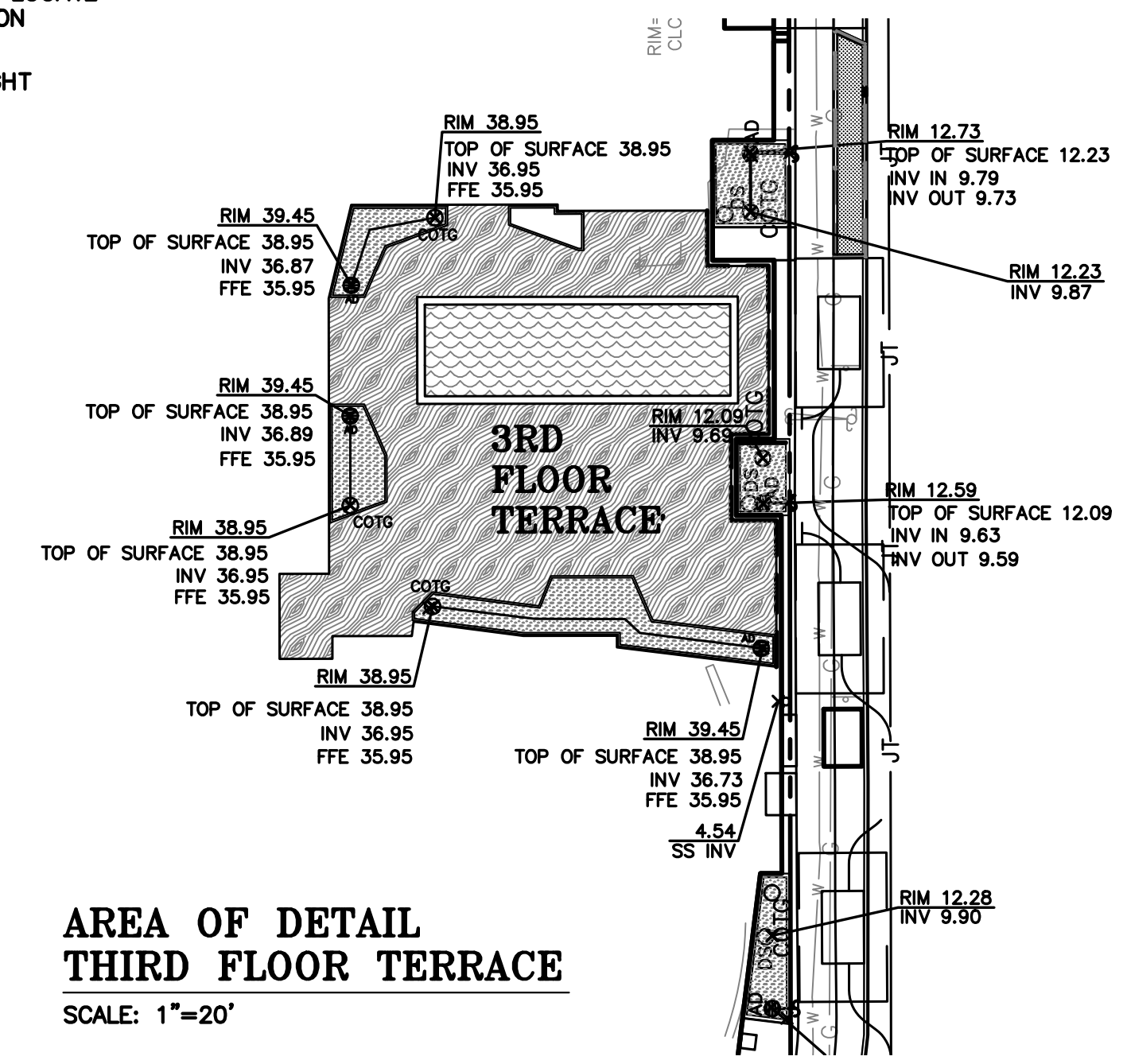
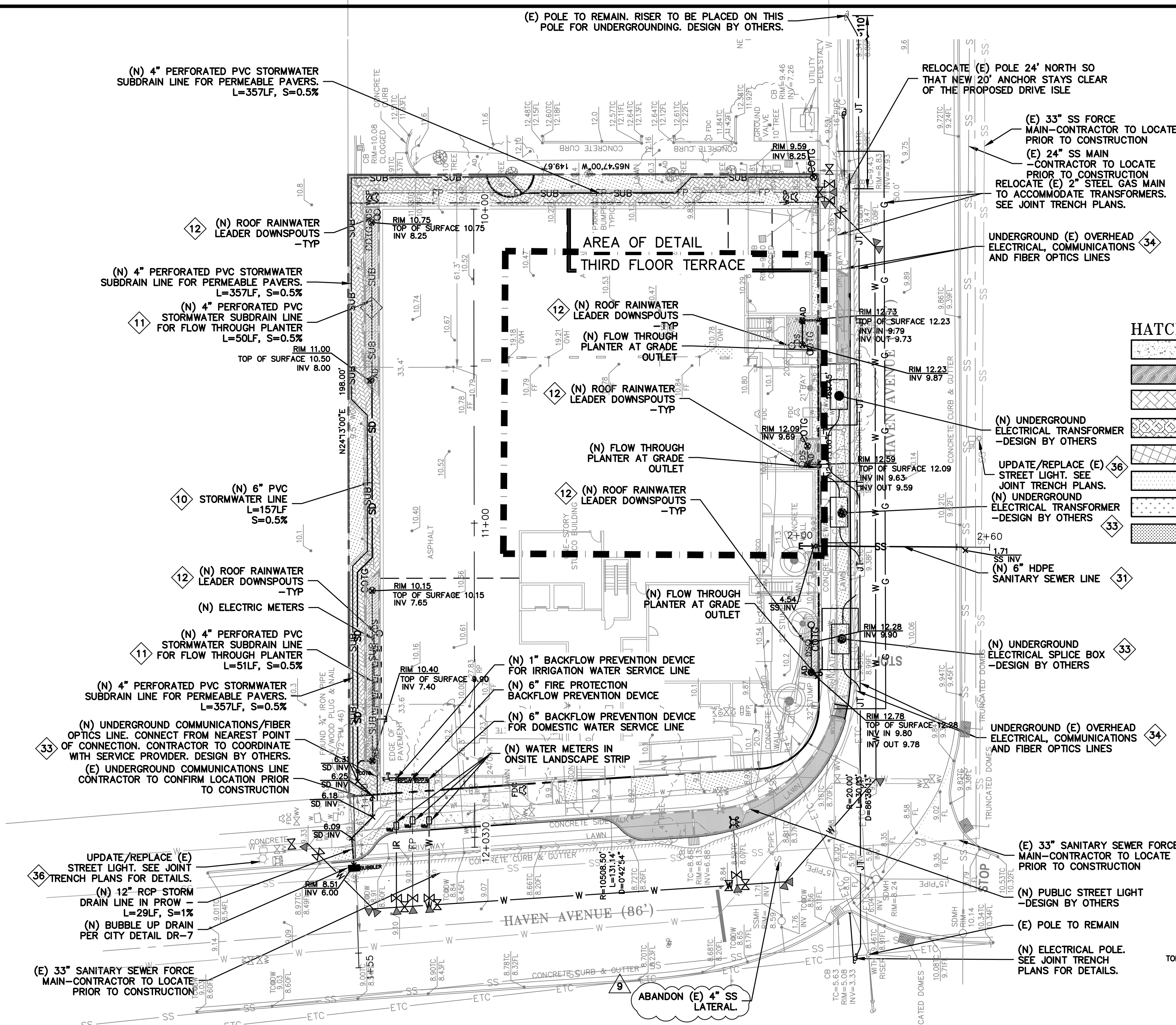
**STORM DRAIN KEYNOTES 10 TO 12**  
 INSTALL (N) ON-SITE STORM DRAIN SYSTEM. USE MINIMUM 6" PVC (SDR 35) OR HDPE (ADS N-12 W/ SMOOTH INTERIOR WALLS). MAINTAIN 24" MINIMUM COVER AND SLOPED AT 1% MINIMUM AT ALL TIMES UNLESS OTHERWISE NOTED. PROVIDE CLEANOUT TO GRADE AT MAJOR CHANGES IN DIRECTION. AVOID USING 90° BENDS AND INSTEAD USE (2) 45° BENDS AND WYE CONNECTIONS.  
 INSTALL (N) SUBDRAIN. USE PERFORATED 4" PVC (SDR-35) WITH HOLES DOWN AND SLOPED AT 1% MINIMUM SURROUND WITH 3/4" DRAIN ROCK WRAPPED IN FILTER FABRIC (MIRAFI 140N). MIRADRAIN OR OTHER LEA & BRAZE PREAPPROVED DRAINAGE SYSTEM MAY ALSO BE USED. AVOID USING 90° BENDS AND INSTEAD USE (2) 45° BENDS AND WYE CONNECTIONS. PROVIDE CLEANOUT TO GRADE AT MAJOR CHANGES IN DIRECTION AND AT 100' MAXIMUM INTERVALS. SUBDRAIN SHALL REMAIN A DEDICATED SEPARATE SYSTEM UNTIL IT CONNECTS TO STORM DRAIN SYSTEM OR OUTFALL AS SHOWN.  
 DIRECT DOWNSPOUTS TO FLOW THROUGH PLANTERS - SEE STORMWATER CONTROL PLAN SCP-1, SCP-2 AND SCP-3 FOR DETAILS.

**UTILITIES KEYNOTES 31 TO 36**  
 INSTALL (N) SANITARY SEWER LATERALS. USE 6" PVC (SDR-26) SLOPED AT 2% MINIMUM. CONNECT TO (E) SEWER MAIN AS SHOWN. PROVIDE CLEANOUT TO GRADE AT BUILDING AND BEHIND PROPERTY LINE AND AT MAJOR CHANGES IN DIRECTION AS SHOWN. REUSE (E) LATERAL IF POSSIBLE. CONNECT PER DISTRICT STANDARDS.  
 NOT USED  
 INSTALL (N) JOINT TRENCH. LATERAL CONNECTIONS TO ELECTRIC, FIBER OPTIC, AND COMMUNICATION LINES SHALL BE PLACED IN A JOINT TRENCH. CONNECT FROM NEAREST POINT OF CONNECTION. DESIGN BY OTHERS.  
 ALL EXISTING OVERHEAD ELECTRICAL, COMMUNICATION AND FIBER OPTIC LINES ALONG THE PROJECT FRONTAGE ARE TO BE UNDERGROUNDED.  
 NOT USED  
 EXISTING STREET LIGHT ACROSS HAVEN AVE TO BE UPGRADED. THE STREET LIGHT SHALL BE PAINTED MESA BROWN AND UPGRADED WITH LED FIXTURES COMPLIANT WITH PG&E STANDARDS. STREET LIGHT SHALL MIRROR THE STREET LIGHT IN FRONT OF 3645 HAVEN AVE.



**HATCH LEGEND**

(N) CONCRETE	31
(N) WOOD DECKING	32
(N) PERVIOUS CONCRETE PAVER WALKWAY/ PATIO	33
(N) ONSITE TREATMENT PLANTERS	34
(N) CONCRETE PAVER DRIVEWAY/WALKWAY	35
(N) ROOF AREA	36
(N) LANDSCAPE	
(N) OFFSITE TREATMENT PLANTERS	



**AREA OF DETAIL  
 THIRD FLOOR TERRACE**  
 SCALE: 1"=20'

- NOTES**
- THE APPLICANT SHALL REMOVE AND REPLACE ALL CRACKED, DAMAGED, UPLIFTED OR DEPRESSED FRONTAGE IMPROVEMENTS LOCATED IN CITY'S RIGHT-OF-WAY, EXISTING OR DAMAGED BY THE CONSTRUCTION ACTIVITIES, PER CITY STANDARDS ALONG THE ENTIRE PROPERTY FRONTAGE.
  - CIVIL ENGINEER SHALL COORDINATE WITH PROJECT ARBORIST TO DETERMINE THE LOCATIONS OF EDGE OF PAVEMENT, STORM DRAIN LINES AND OTHER UTILITY LINES NEAR TREES. THE LOCATIONS OF IMPROVEMENTS NEAR CITY TREES SHALL BE APPROVED BY CITY ARBORIST.
  - CONTACT PUBLIC WORKS AT (650) 330-6740 TO SCHEDULE AN INSPECTION A MINIMUM OF 24 HOURS IN ADVANCE OF COMMENCEMENT OF PUBLIC IMPROVEMENT WORK. THE CONSTRUCTION SUPERVISOR WILL DISCUSS ANY REPAIR WORK TO FRONTAGE IMPROVEMENTS WHICH ARE NOT SHOWN ON THE PLANS.
  - PRIOR TO FINAL INSPECTION, THE APPLICANT SHALL OBTAIN AN ENCROACHMENT PERMIT FROM THE CITY'S ENGINEERING DIVISION FOR ALL EXISTING PRIVATE STRUCTURES, IMPROVEMENTS AND LANDSCAPING (IF ANY) LOCATED IN THE CITY'S RIGHT-OF-WAY ALONG THE PROPERTY FRONTAGE.
  - THE APPLICANT SHALL REMOVE AND REPLACE ALL CRACKED, DAMAGED UPLIFTED OR DEPRESSED FRONTAGE IMPROVEMENTS (CURB, GUTTER, SIDEWALK, DRIVEWAY, ETC.), EXISTING OR DAMAGED BY THE CONSTRUCTION ACTIVITIES, PER CITY STANDARDS ALONG THE ENTIRE PROPERTY FRONTAGE. IF FRONTAGE IMPROVEMENTS DO NOT CURRENTLY EXIST, THE APPLICANT IS REQUIRED TO INSTALL FRONTAGE IMPROVEMENTS PER CITY STANDARDS ALONG THE ENTIRE PROPERTY FRONTAGE. ALL IMPROVEMENTS ARE TO BE COMPLETED AND APPROVED BY THE CITY OF MENLO PARK'S PUBLIC WORKS INSPECTOR PRIOR TO THE FINAL INSPECTION BY THE BUILDING INSPECTOR.

- FIRE NOTES**
- FIRE APPARATUS ROADWAYS, INCLUDING PUBLIC AND PRIVATE STREETS AND IN SOME CASES DRIVEWAYS USED FOR VEHICLE ACCESS, SHALL BE CAPABLE OF SUPPORTING THE IMPOSED WEIGHT OF A 75,000 POUND (34,050 KG) FIRE APPARATUS AND SHALL BE PROVIDED WITH AN ALL-WEATHER DRIVING SURFACE. ONLY PAVED OR CONCRETE SURFACES ARE CONSIDERED TO BE ALL WEATHER DRIVING SURFACES. CFC 2016, APPENDIX D.
  - CURBING LOCATED WITHIN THE COMPLEX THAT HAS NOT BEEN ASSIGNED AS ONSITE PARKING SHALL BE DESIGNATED AS "NO PARKING FIRE LANE". ALL FIRE LANES TO COMPLY WITH MPFD STANDARD FOR "DESIGNATION AND MARKING OF FIRE LANE", SINCE THERE ARE ONLY TO POINTS OF ACCESS TO THE COMPLEX "ENTRANCE SIGN B" MAY BE USED AT EACH POINT OF ACCESS TO COMPLEX. PROVIDE A COMPLETE NO PARKING-FIRE LANE STRIPPING PLAN WITH NO PARKING SIGNAGE IN ACCORDANCE TO MPFD STANDARD ON SUBSEQUENT SUBMITTAL.
    - ROADWAY WIDTH FOR PROJECT SHALL BE NO LESS THAN 26 FEET WIDE AND SHALL REQUIRE CURB STRIPPING WITH NO PARKING SIGNAGE AS PER MPFD STANDARD.
    - REQUIRED NO PARKING SIGNAGE INSTALLED AT AN APPROVED LOCATION AT ENTRANCES.
  - FIRE APPARATUS ROADWAYS, INCLUDING PUBLIC OR PRIVATE STREETS OR ROADS USED FOR VEHICLE ACCESS SHALL BE INSTALLED AND IN SERVICE PRIOR TO CONSTRUCTION. FIRE PROTECTION WATER SERVING ALL HYDRANTS SHALL BE PROVIDED AS SOON AS COMBUSTIBLE MATERIAL ARRIVES ON THE SITE.
    - PRIOR TO COMBUSTIBLE MATERIAL ARRIVING ON THE SITE, CONTACT THE MENLO PARK FIRE DISTRICT TO SCHEDULE AN INSPECTION OF ROADWAYS AND FIRE HYDRANTS. CFC 2013.

**INSPECTION NOTE:**  
 THE CONTRACTOR SHALL INFORM THE OWNER (IN WRITING) OF RECOMMENDED PERIODIC INSPECTION AND MAINTENANCE OF THE ON-SITE STORM DRAINAGE SYSTEM. THE REGULAR CLEARING OF SILT AND DEBRIS IS ESPECIALLY IMPORTANT PRIOR TO EACH RAINY SEASON.

**NOTE:**  
 CONTRACTOR SHALL FIELD VERIFY LOCATIONS AND DEPTHS OF EXISTING UTILITIES PRIOR TO COMMENCING CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY CONFLICTS IN ANY EXIST.

**NOTE:**  
 ALL UTILITIES SHALL BE PLACED UNDERGROUND IF REQUIRED BY THE UTILITY COMPANY.

**NOTE:**  
 SITE GRADING SHALL NOT IMPEDE EXISTING DRAINAGE FROM ADJACENT PROPERTIES AND SHALL NOT GENERATE SURFACE RUN-OFF FLOW ONTO ADJACENT PROPERTIES.

**NOTE:**  
 FOR CONSTRUCTION STAKING SCHEDULING OR QUOTATIONS PLEASE CONTACT ALEX ABAYA AT LEA & BRAZE ENGINEERING (510)887-4086 EXT 116. aabaya@leabraze.com

**BUILDING PAD NOTE:**  
 ADJUST PAD LEVEL AS REQUIRED. REFER TO STRUCTURAL PLANS FOR SLAB SECTION OR CRAWL SPACE DEPTH TO ESTABLISH PAD LEVEL.

**NOTE:**  
 TOPOGRAPHIC INFORMATION HAS BEEN REMOVED FOR CLARITY. SEE ORIGINAL SURVEY FOR EXISTING SITE CONDITIONS.

(E) POLE TO REMAIN. RISER TO BE PLACED ON THIS POLE FOR UNDERGROUNDING. DESIGN BY OTHERS.

RELOCATE (E) POLE 24' NORTH SO THAT NEW 20" ANCHOR STAYS CLEAR OF THE PROPOSED DRIVE ISLE

(E) 33" SS FORCE MAIN-CONTRACTOR TO LOCATE PRIOR TO CONSTRUCTION  
 (E) 24" SS MAIN-CONTRACTOR TO LOCATE PRIOR TO CONSTRUCTION  
 RELOCATE (E) 2" STEEL GAS MAIN TO ACCOMMODATE TRANSFORMERS. SEE JOINT TRENCH PLANS.

UNDERGROUND (E) OVERHEAD ELECTRICAL, COMMUNICATIONS AND FIBER OPTICS LINES

(N) UNDERGROUND ELECTRICAL TRANSFORMER-DESIGN BY OTHERS

UPDATE/REPLACE (E) STREET LIGHT. SEE JOINT TRENCH PLANS.

(N) UNDERGROUND ELECTRICAL TRANSFORMER-DESIGN BY OTHERS

(N) 6" HDPE SANITARY SEWER LINE

(N) UNDERGROUND ELECTRICAL SPLICE BOX-DESIGN BY OTHERS

UNDERGROUND (E) OVERHEAD ELECTRICAL, COMMUNICATIONS AND FIBER OPTICS LINES

(E) 33" SANITARY SEWER FORCE MAIN-CONTRACTOR TO LOCATE PRIOR TO CONSTRUCTION

(N) PUBLIC STREET LIGHT-DESIGN BY OTHERS

(E) POLE TO REMAIN  
 (N) ELECTRICAL POLE. SEE JOINT TRENCH PLANS FOR DETAILS.

ABANDON (E) 4" SS LATERAL

(N) 4" PERFORATED PVC STORMWATER SUBDRAIN LINE FOR PERMEABLE PAVERS. L=357LF, S=0.5%

(N) 4" PERFORATED PVC STORMWATER SUBDRAIN LINE FOR PERMEABLE PAVERS. L=357LF, S=0.5%

(N) 4" PERFORATED PVC STORMWATER SUBDRAIN LINE FOR FLOW THROUGH PLANTER L=50LF, S=0.5%

(N) 6" PVC STORMWATER SUBDRAIN LINE L=157LF, S=0.5%

(N) ROOF RAINWATER LEADER DOWNSPOUTS -TYP

(N) ELECTRIC METERS

(N) 4" PERFORATED PVC STORMWATER SUBDRAIN LINE FOR FLOW THROUGH PLANTER L=51LF, S=0.5%

(N) 4" PERFORATED PVC STORMWATER SUBDRAIN LINE FOR PERMEABLE PAVERS. L=357LF, S=0.5%

(N) UNDERGROUND COMMUNICATIONS/FIBER OPTICS LINE. CONNECT FROM NEAREST POINT OF CONNECTION. CONTRACTOR TO COORDINATE WITH SERVICE PROVIDER. DESIGN BY OTHERS.

(E) UNDERGROUND COMMUNICATIONS LINE CONTRACTOR TO CONFIRM LOCATION PRIOR TO CONSTRUCTION

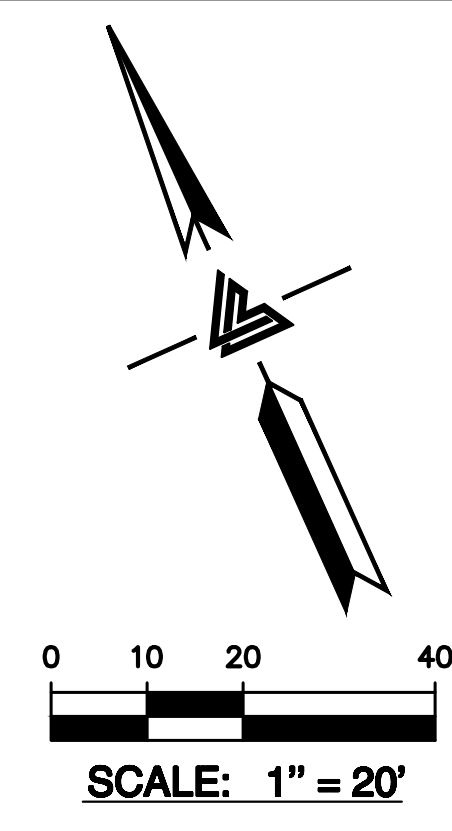
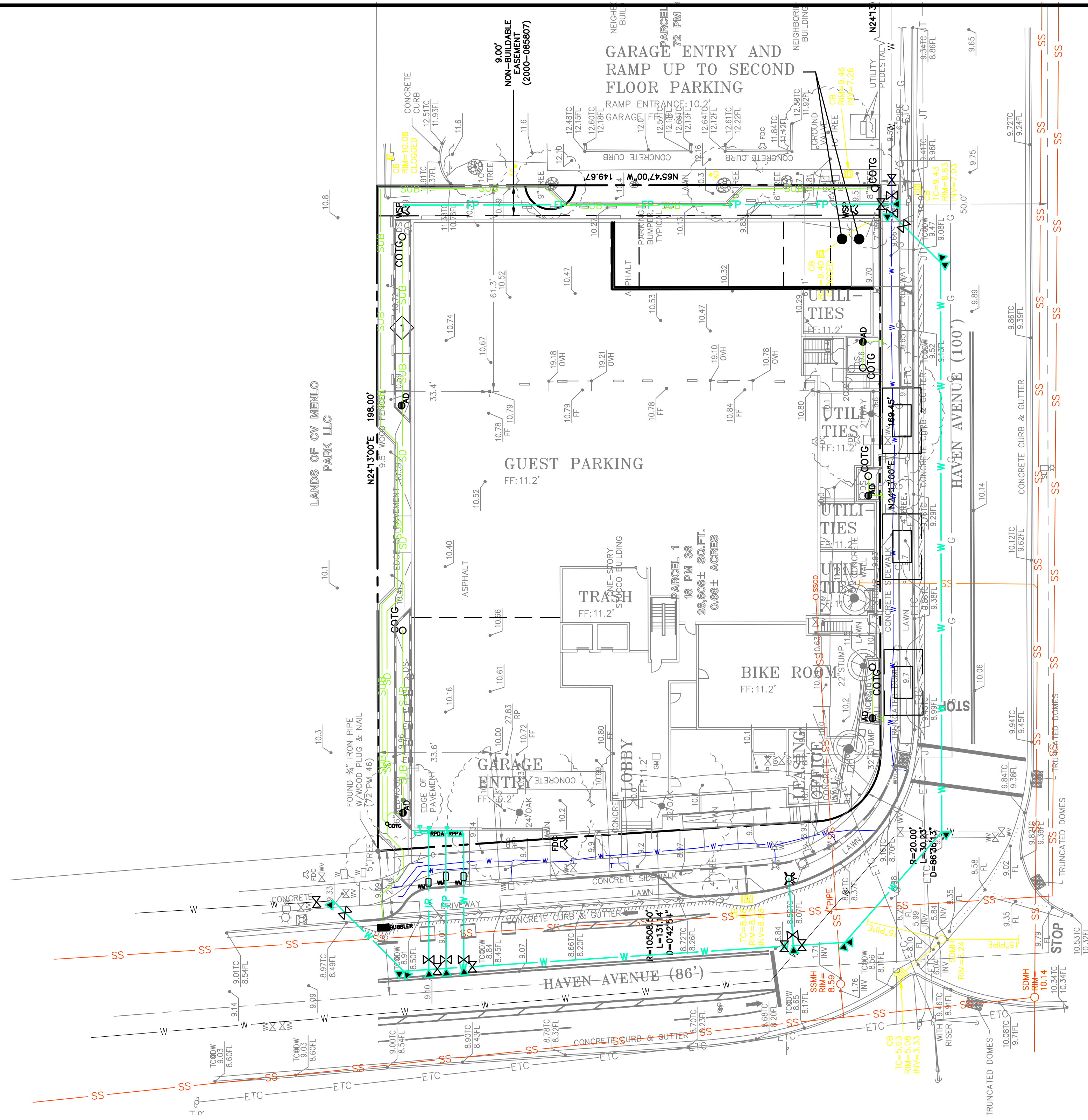
UPDATE/REPLACE (E) STREET LIGHT. SEE JOINT TRENCH PLANS FOR DETAILS.

(N) 12" ROP STORM DRAIN LINE IN PROW L=29LF, S=1%

(N) BUBBLE UP DRAIN PER CITY DETAIL DR-7

(E) 33" SANITARY SEWER FORCE MAIN-CONTRACTOR TO LOCATE PRIOR TO CONSTRUCTION





**COLOR LEGEND**

W	(E) WATER MAIN
W	(N) WATER LATERAL
SS	(E) SEWER MAIN/MANHOLES
SS	(N) SEWER LATERAL
SD	(E) STORM DRAIN MAIN/INLETS/MANHOLES
SD	(N) STORM DRAIN LATERAL



**LEA & BRAZE ENGINEERING, INC.**  
 CIVIL ENGINEERS & LAND SURVEYORS  
 REGIONAL OFFICES:  
 SAN FRANCISCO, CA  
 DUBLIN, CA  
 HAYWARD, CALIFORNIA 94545  
 (510) 887-4086  
 WWW.LEABRAZE.COM

**3705 HAVEN AVENUE  
 MENLO PARK, CALIFORNIA**  
 SAN MATEO COUNTY APN: 055-170-240

**COLOR CODED  
 UTILITIES PLAN**

NO.	REVISIONS	BY
9	COMP REVIEW 07-16-24	VA
8	COMP REVIEW 05-31-24	VA
7	COMP REVIEW 03-21-24	VA
6	C3 PLN CHK 10-17-23	VA
5	C3 PLN CHK 10-04-23	VA

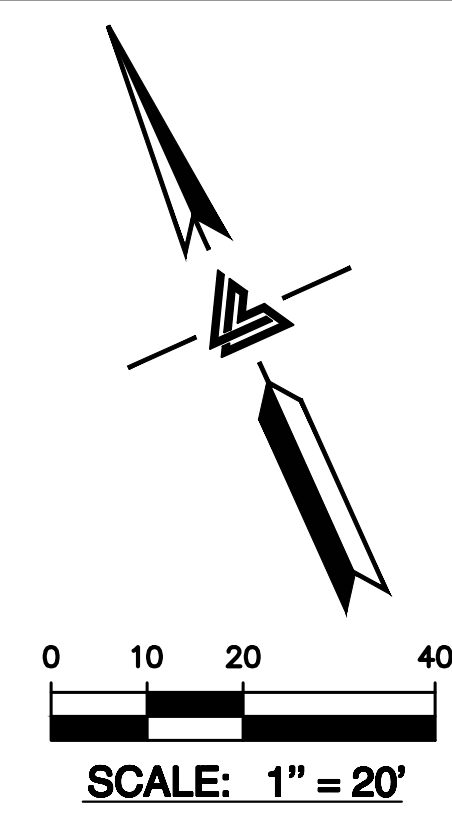
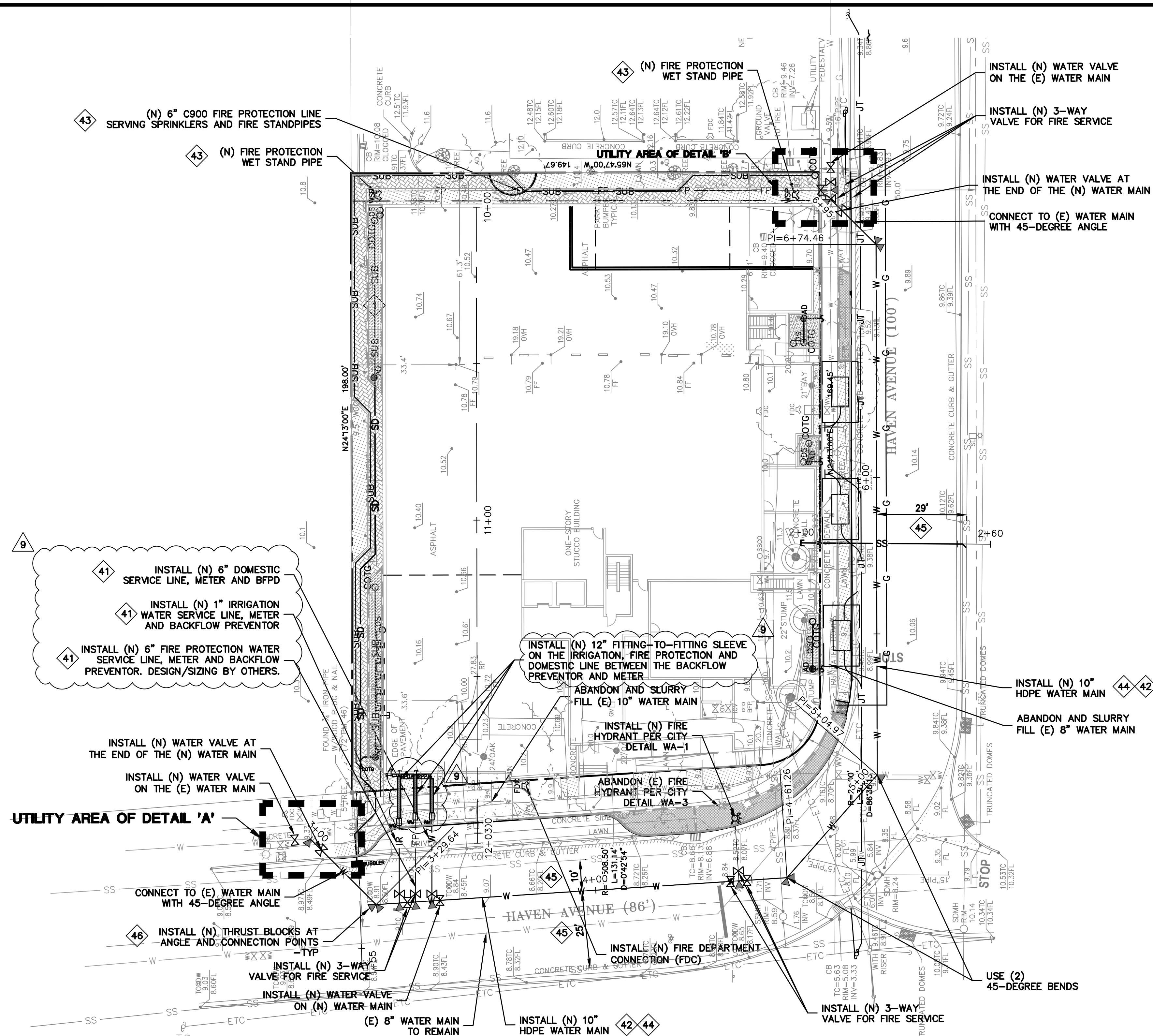
JOB NO: 2220759  
 DATE: 11-18-22  
 SCALE: AS NOTED  
 DESIGN BY: VA  
 CHECKED BY: JH/PC  
 SHEET NO:

**NOTE:**  
 FOR CONSTRUCTION STAKING SCHEDULING OR QUOTATIONS PLEASE CONTACT ALEX ABAYA AT LEA & BRAZE ENGINEERING (510)887-4086 EXT 116. aabaya@leabraze.com

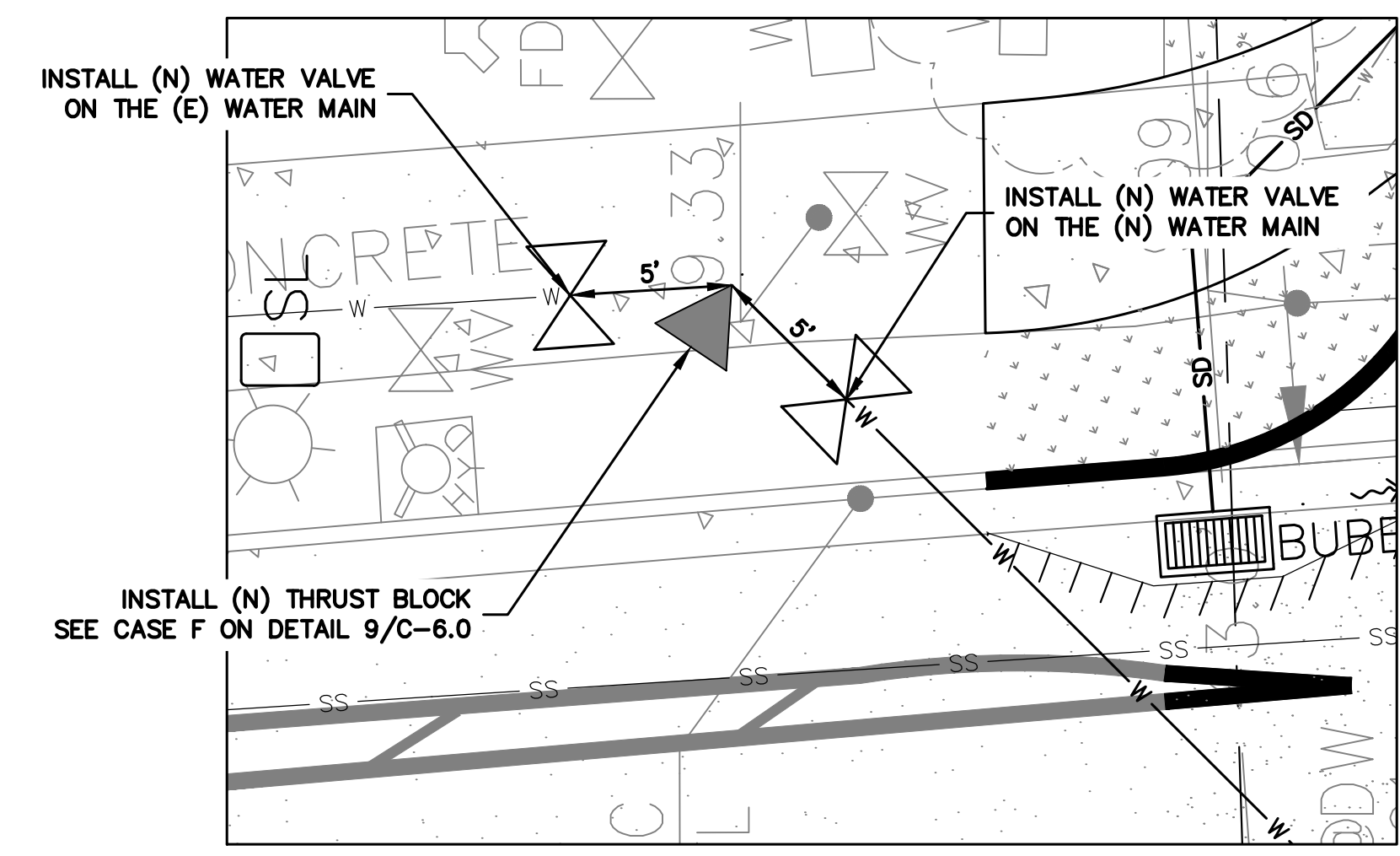
**\* BUILDING PAD NOTE:**  
 ADJUST PAD LEVEL AS REQUIRED. REFER TO STRUCTURAL PLANS FOR SLAB SECTION OR CRAWL SPACE DEPTH TO ESTABLISH PAD LEVEL.

**NOTE:** TOPOGRAPHIC INFORMATION HAS BEEN REMOVED FOR CLARITY. SEE ORIGINAL SURVEY FOR EXISTING SITE CONDITIONS.

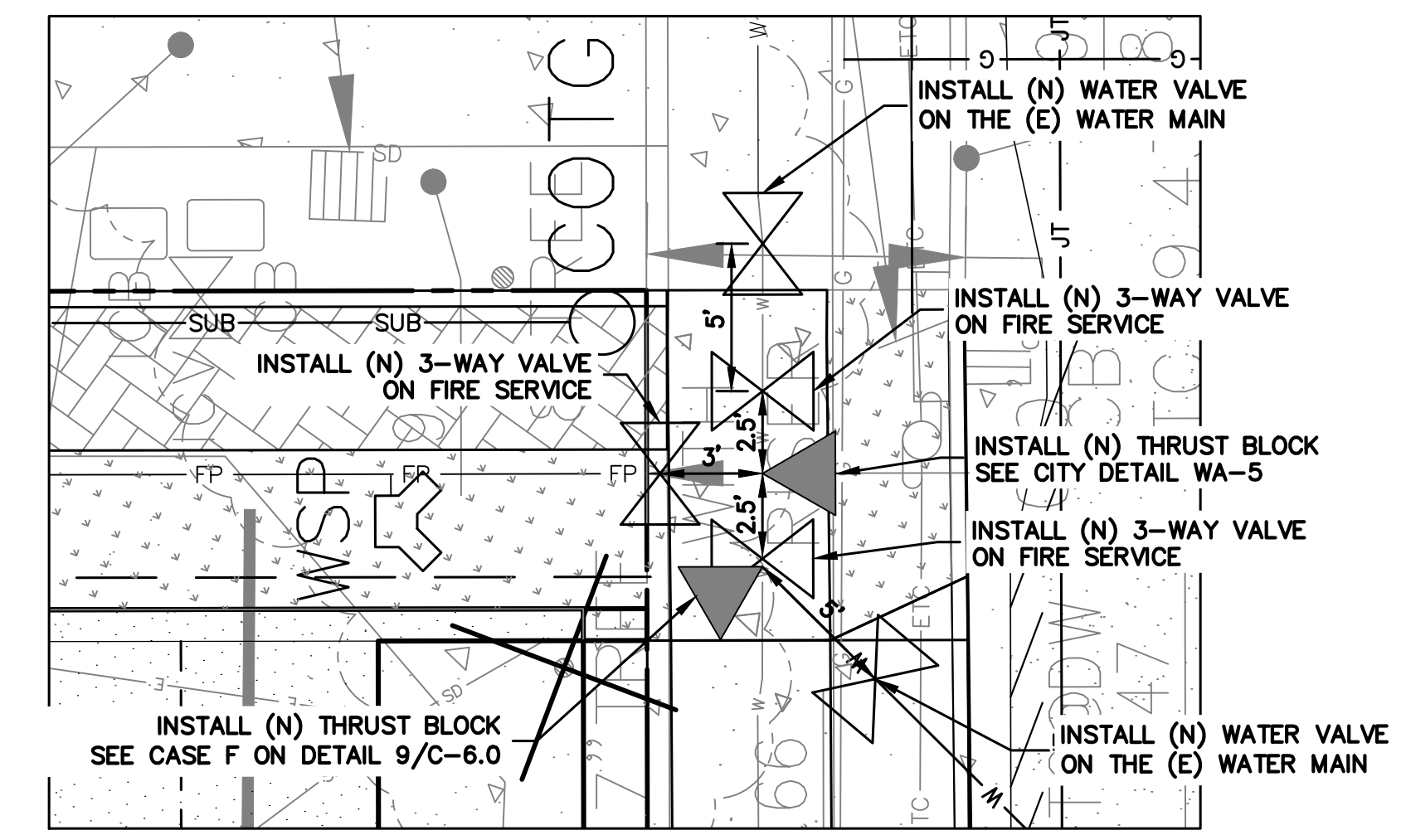




- WATER MAIN AND LATERALS KEYNOTES 41 TO 46**
- 41 CONNECT (N) WATER SERVICE PER WATER DISTRICT STANDARDS. WATER SERVICE LINES THAT ARE 3" AND ABOVE REQUIRE A GATE VALVE. WATER SERVICE LINES THAT ARE 2" AND SMALLER REQUIRE A CORPORATION STOP AT THE MAIN AND A CURB STOP AT THE METER.
  - 42 INSTALL (N) 10" HDPE WATER MAIN. CONTRACTOR TO COORDINATE WITH CITY OF MENLO PARK, VERIFY INVERTS AND LOCATION PRIOR TO CONSTRUCTION.
  - 43 (N) FIRE PROTECTION SERVICE LINE SERVING FIRE PROTECTION WET STANDPIPES AND BUILDING FIRE SPRINKLER NEEDS. INSTALL (N) 6" SERVICE LINE TO (N) BUILDING OR AS DIRECTED BY FIRE SPRINKLER DESIGNER.
  - 44 WATER MAINS SHALL BE HDPE.
  - 45 MAINTAIN HORIZONTAL AND VERTICAL REQUIRED CLEARANCES FROM WATER MAIN (EDGE OF PIPE TO EDGE OF PIPE). MAIN SHALL BE 10' (MIN) FROM SEWER MAINS AND 4' (MIN) FROM STORM DRAIN MAINS. WATER MAIN SHALL BE 1' (MIN) VERTICALLY ABOVE STORM DRAIN MAINS AND SEWER MAINS.
  - 46 INSTALL (N) THRUST BLOCK. SEE C-6.0 FOR DETAILS.



**CONNECTION DETAIL 'A'**  
**CONNECTION OF (N) WATER MAIN TO (E) WATER MAIN**  
 SCALE: 1"=20'



**CONNECTION DETAIL 'B'**  
**CONNECTION OF (N) WATER MAIN TO (E) WATER MAIN**  
 SCALE: 1"=20'

NOTE:  
 FOR CONSTRUCTION STAKING SCHEDULING OR QUOTATIONS PLEASE CONTACT ALEX ABAYA AT LEA & BRAZE ENGINEERING (510)887-4086 EXT 116. aabaya@leabraze.com

\* BUILDING PAD NOTE:  
 ADJUST PAD LEVEL AS REQUIRED. REFER TO STRUCTURAL PLANS FOR SLAB SECTION OR CRAWL SPACE DEPTH TO ESTABLISH PAD LEVEL.

NOTE: TOPOGRAPHIC INFORMATION HAS BEEN REMOVED FOR CLARITY. SEE ORIGINAL SURVEY FOR EXISTING SITE CONDITIONS.



**LEA & BRAZE ENGINEERING, INC.**  
 CIVIL ENGINEERS & LAND SURVEYORS  
 REGIONAL OFFICES:  
 SAN JOSE OFFICE: 1700 BAYVIEW BLVD., SUITE 100, SAN JOSE, CA 95131  
 DUBLIN OFFICE: 11000 DUBLIN BOULEVARD, SUITE 100, DUBLIN, CA 94568  
 HAYWARD OFFICE: 15000 HAYWARD AVENUE, SUITE 100, HAYWARD, CA 94541  
 SAN JOSE (510) 887-4086  
 WWW.LEABRAZE.COM

**3705 HAVEN AVENUE**  
**MENLO PARK, CALIFORNIA**

APN: 055-170-240  
 SAN MATEO COUNTY

**WATER MAIN**  
**CONNECTION DETAIL**

NO.	DESCRIPTION	DATE	BY
9	COMP REVIEW	07-16-24	VA
8	COMP REVIEW	05-31-24	VA
7	COMP REVIEW	03-21-24	VA
6	C3 PLN CHK	10-17-23	VA
5	C3 PLN CHK	10-04-23	VA
	REVISIONS		BY

JOB NO: 2220759  
 DATE: 11-18-22  
 SCALE: AS NOTED  
 DESIGN BY: VA  
 CHECKED BY: JH/PC  
 SHEET NO:





**LEA & BRAZE ENGINEERING, INC.**  
 CIVIL ENGINEERS & LAND SURVEYORS  
 REGIONAL OFFICES:  
 DUBLIN, CALIFORNIA 94568  
 SAN JOSE, CALIFORNIA 95128  
 (510) 887-4066  
 WWW.LEABRAZE.COM

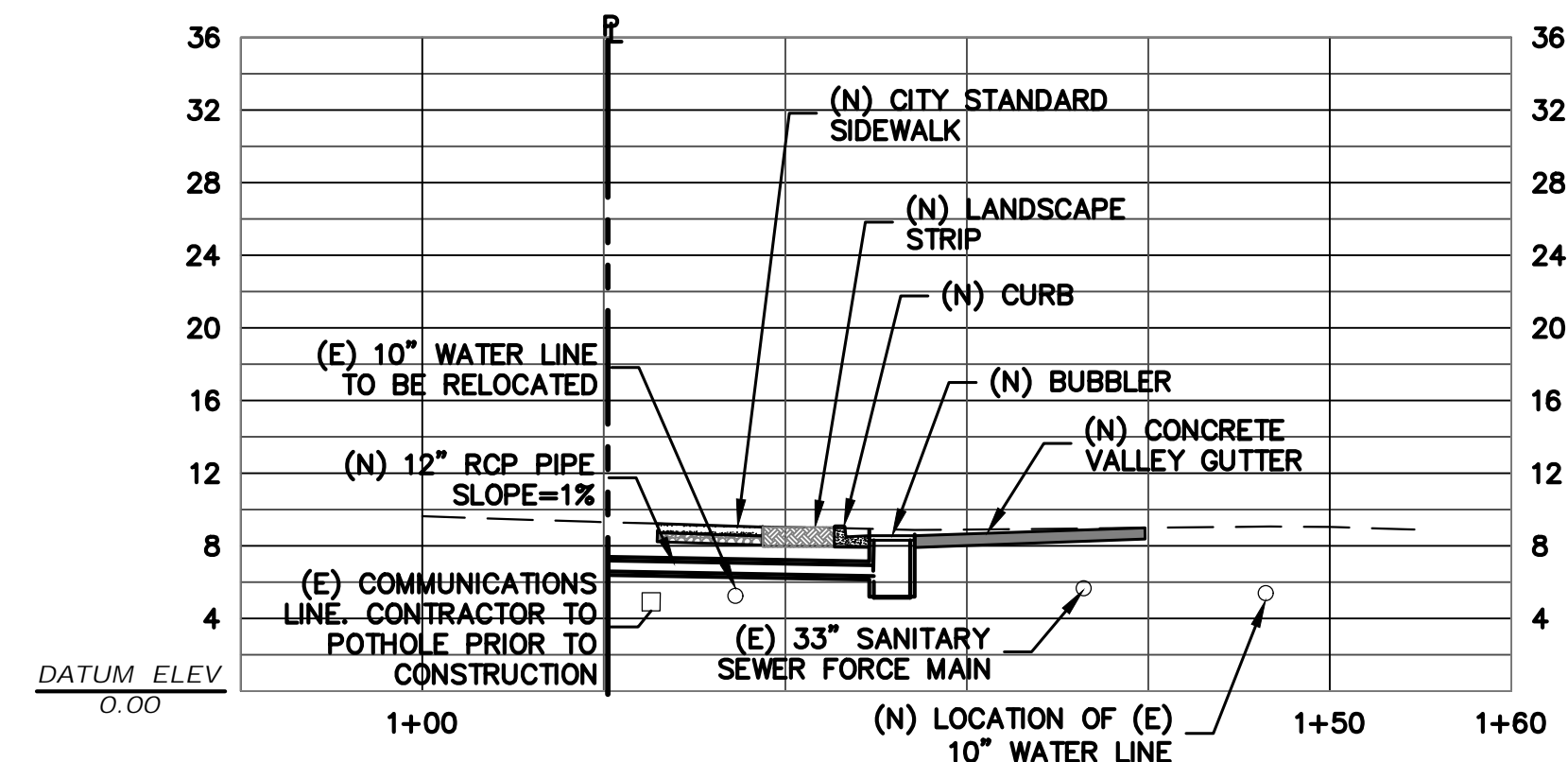
3705 HAVEN AVENUE  
 MENLO PARK, CALIFORNIA  
 SAN MATEO COUNTY  
 APN: 055-170-240

PRELIMINARY  
 UTILITIES PROFILES

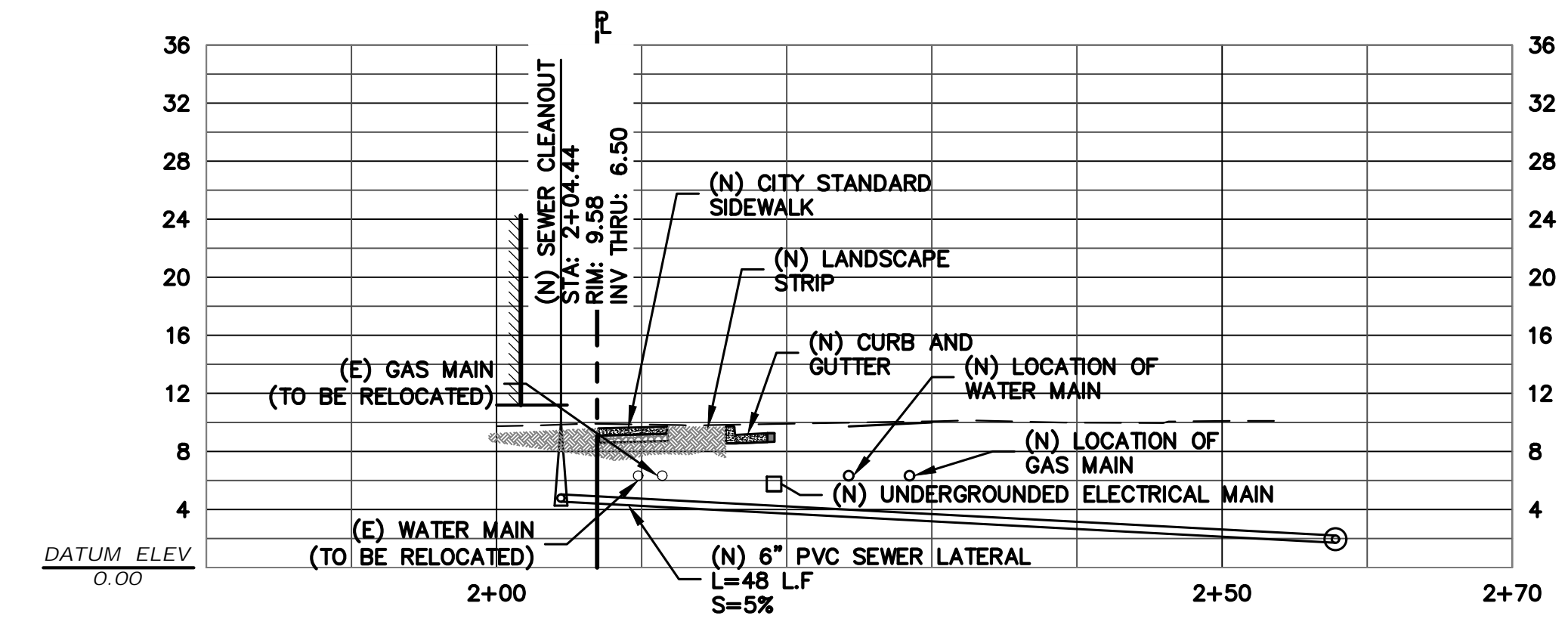
9	COMP REVIEW	VA
8	07-16-24	
8	COMP REVIEW	VA
7	05-31-24	
7	COMP REVIEW	VA
6	03-21-24	
6	C3 PLN CHK	VA
5	10-17-23	
5	C3 PLN CHK	VA
	10-04-23	
	REVISIONS	BY

JOB NO: 2220759  
 DATE: 11-18-22  
 SCALE: AS NOTED  
 DESIGN BY: VA  
 CHECKED BY: JH/PC  
 SHEET NO:

**C-4.3**  
 09 OF 22 SHEETS



**STORM DRAIN (HAVEN SOUTH) UTILITY PROFILE**  
 SCALE: 1" = 10' HORIZ & VERT



**SANITARY SEWER LATERAL UTILITY PROFILE**  
 SCALE: 1" = 10' HORIZ & VERT



**LEA & BRAZE ENGINEERING, INC.**  
 CIVIL ENGINEERS & LAND SURVEYORS  
 REGIONAL OFFICES:  
 MAIN OFFICE: 10000 RINKY WEST  
 DUBLIN, CALIFORNIA 94568  
 HAYWARD OFFICE: 10000 RINKY WEST  
 HAYWARD, CALIFORNIA 94545  
 SAN JOSE OFFICE: 10000 RINKY WEST  
 SAN JOSE, CALIFORNIA 95128  
 (510) 887-4066  
 WWW.LEABRAZE.COM

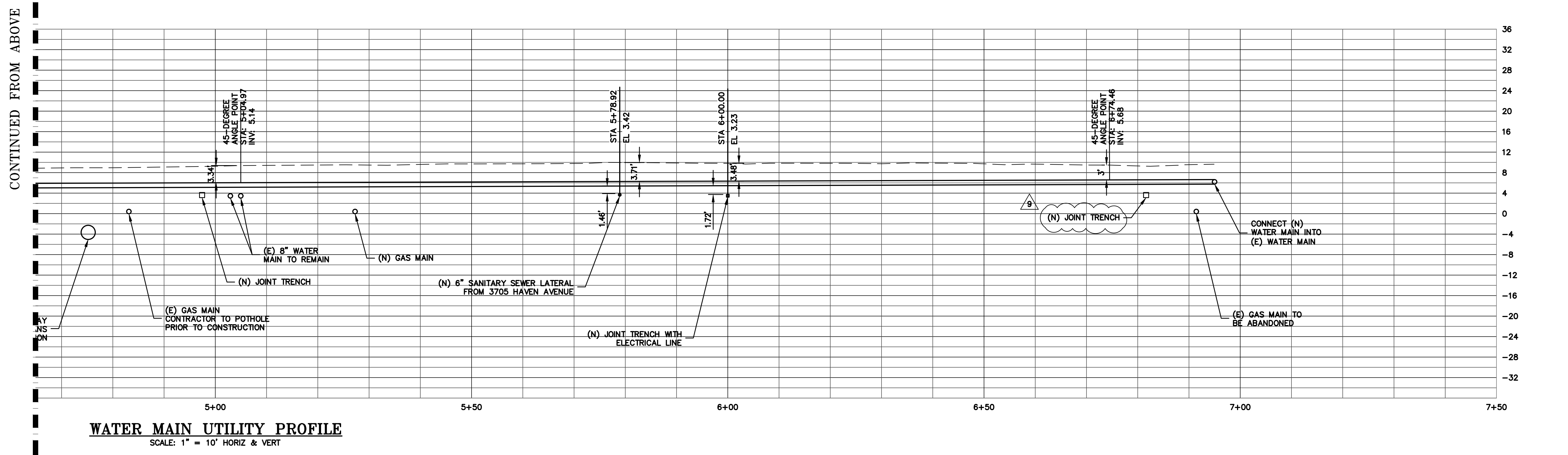
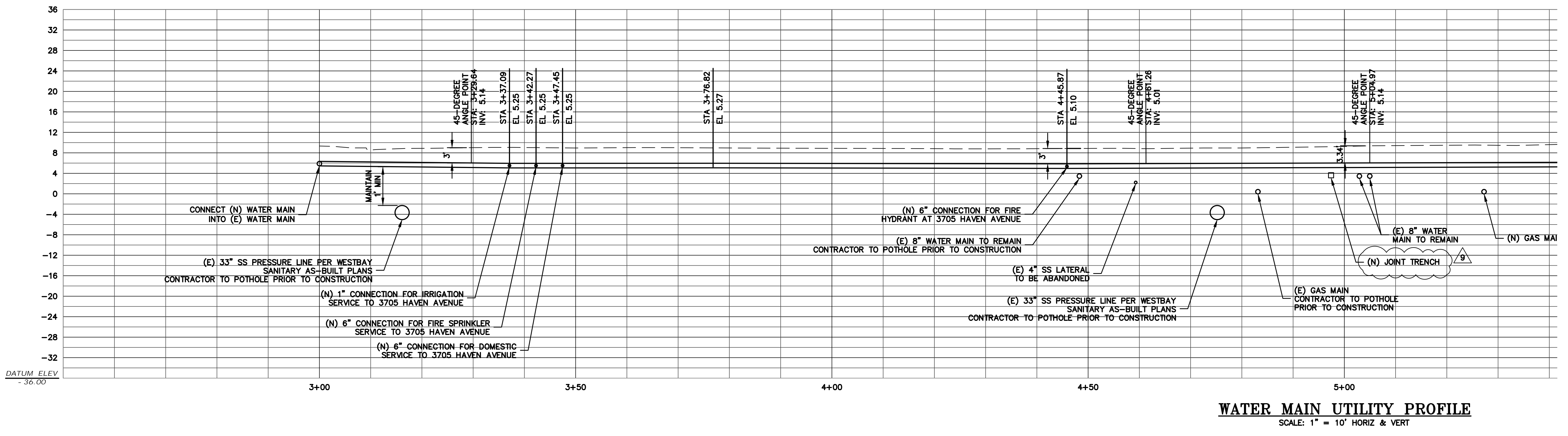
**3705 HAVEN AVENUE  
 MENLO PARK, CALIFORNIA**  
 SAN MATEO COUNTY  
 APN: 055-170-240

**WATER MAIN  
 UTILITY PROFILE**

NO.	REVISIONS	BY
9	COMP REVIEW 07-16-24	VA
8	COMP REVIEW 05-31-24	VA
7	COMP REVIEW 03-21-24	VA
6	C3 PLN CHK 10-17-23	VA
5	C3 PLN CHK 10-04-23	VA

JOB NO: 2220759  
 DATE: 11-18-22  
 SCALE: AS NOTED  
 DESIGN BY: VA  
 CHECKED BY: JH/PC  
 SHEET NO:

**C-4.4**  
 10 OF 22 SHEETS

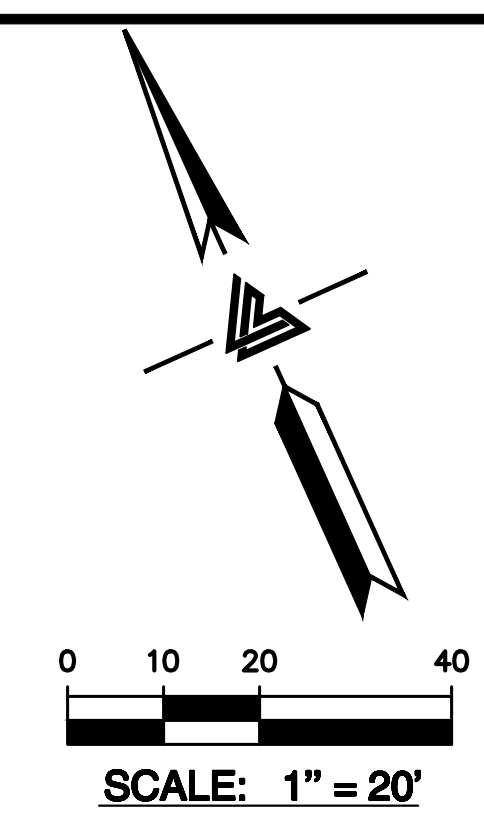
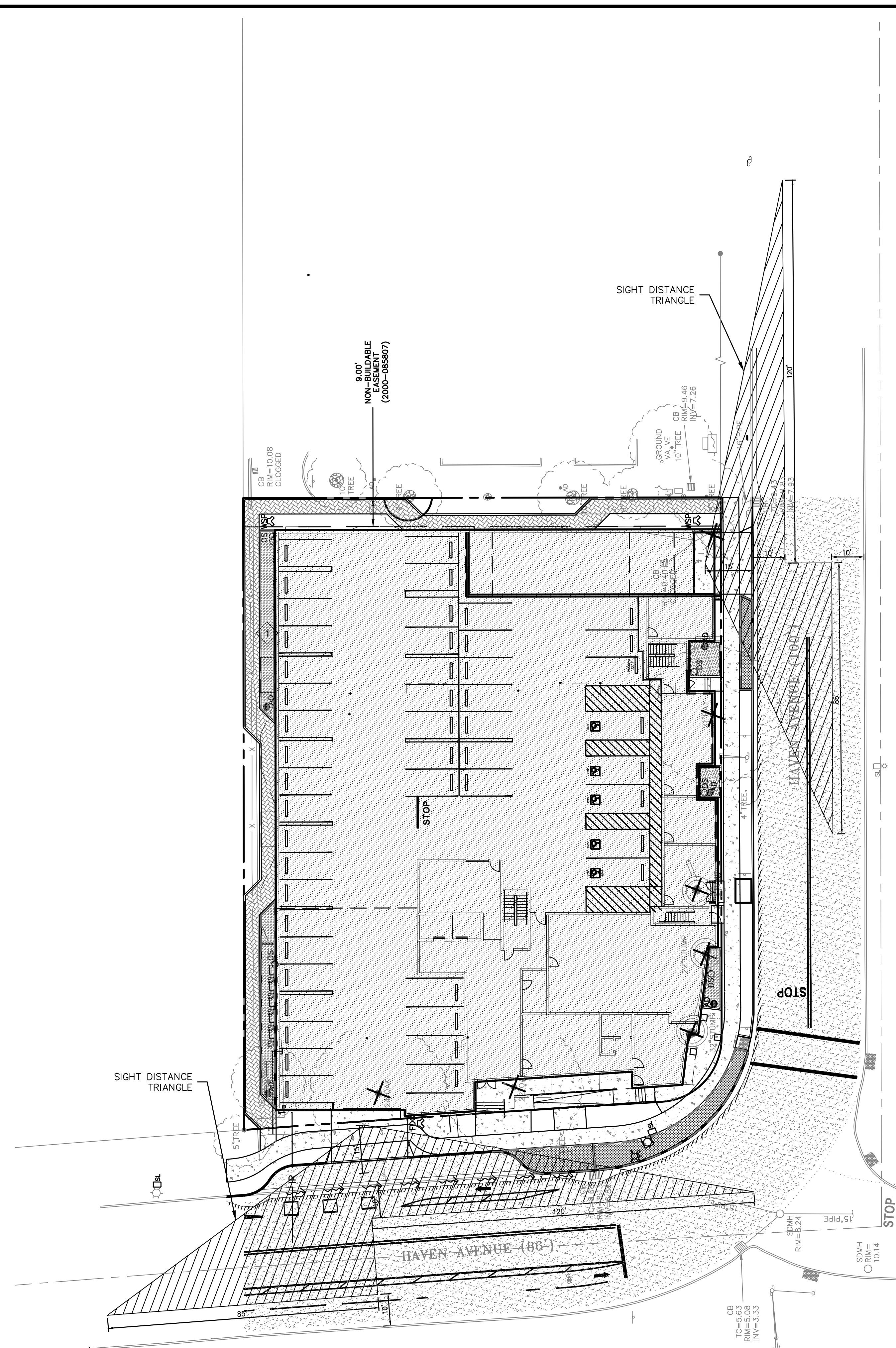


CONTINUED BELOW

CONTINUED FROM ABOVE

DATUM ELEV  
 -36.00





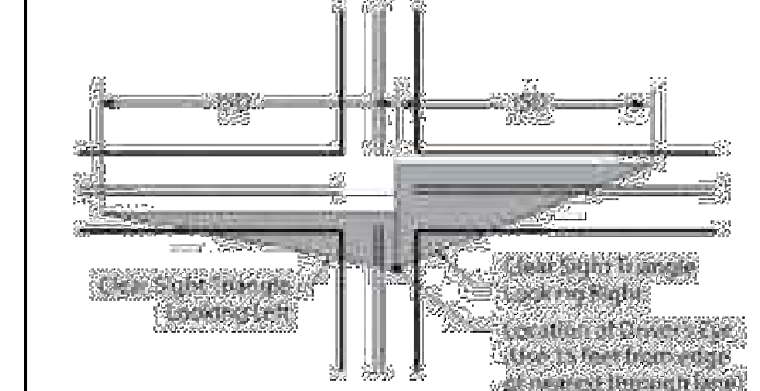
**3.3.1. Sight Distance** ATTACHMENT B

Insufficient sight distance can be a contributing factor in intersection traffic crashes. Intersection sight distance is typically defined as the distance a motorist can see approaching vehicles before their line of sight is blocked by an obstruction near the intersection. The driver of a vehicle approaching or departing from a stopped position at an intersection should have an unobstructed view of the intersection, including any traffic control devices, and sufficient lengths along the intersecting roadway to permit the driver to anticipate and avoid potential collisions. Examples of obstructions include crops, hedges, trees, parked vehicles, utility poles, or buildings. In addition, the horizontal and vertical alignment of the roadway approaching the intersection can reduce the sight triangle of vehicles navigating the intersection.

It is important for approaching motorists on the major road to see side street vehicles approaching the Stop sign, and for minor road motorists to see approaching major road vehicles before entering the intersection. Poor sight distance can lead to rear-end crashes on the approaches and to angle crashes within the intersection because motorists may be unable to see and react to traffic control devices or approaching vehicles.

The area needed for provision of this unobstructed view is called the Clear Sight Triangle (see Figure 3).

Figure 3. Sight Distance Triangles for 4-Leg Stop-controlled Intersections<sup>9</sup>



The Intersection Sight Distance (ISD) is measured along the major road beginning at a point that coincides with the location of the minor road vehicle. Table 3 provides the recommended values for ISD, based on the following assumptions:

- Stop control of the minor road approaches;
- Using driver eye and object heights associated with passenger cars;
- Both minor and major roads are considered at level grade;
- Considers a left-turn from the minor road as the worst-case scenario (i.e., requiring the most sight distance); and
- The major road is an undivided, two-way, two-lane roadway with no turn lanes.

If conditions at the intersection being evaluated differ from these assumptions, an experienced traffic engineer or highway designer should be consulted to determine whether different ISD values should be used.

Speed (mph) *	Stopping Sight Distance (ft.)	Design Intersection Sight Distance (ft.)
25	155	280
<b>30</b>	<b>200</b>	<b>335</b>
35	250	390
40	305	445
45	360	500
50	425	555
55	495	610
60	570	665
65	645	720

Source : A Policy on Geometric Design of Highway and Streets, 5th Edition, American Association of State Highway and Transportation Officials (AASHTO), 2004.



**LEA & BRAZE ENGINEERING, INC.**  
 CIVIL ENGINEERS | LAND SURVEYORS  
 REGIONAL OFFICES:  
 DUBLIN, CALIFORNIA 94568  
 SAN JOSE, CALIFORNIA 95128  
 (510) 887-4066  
 WWW.LEABRAZE.COM

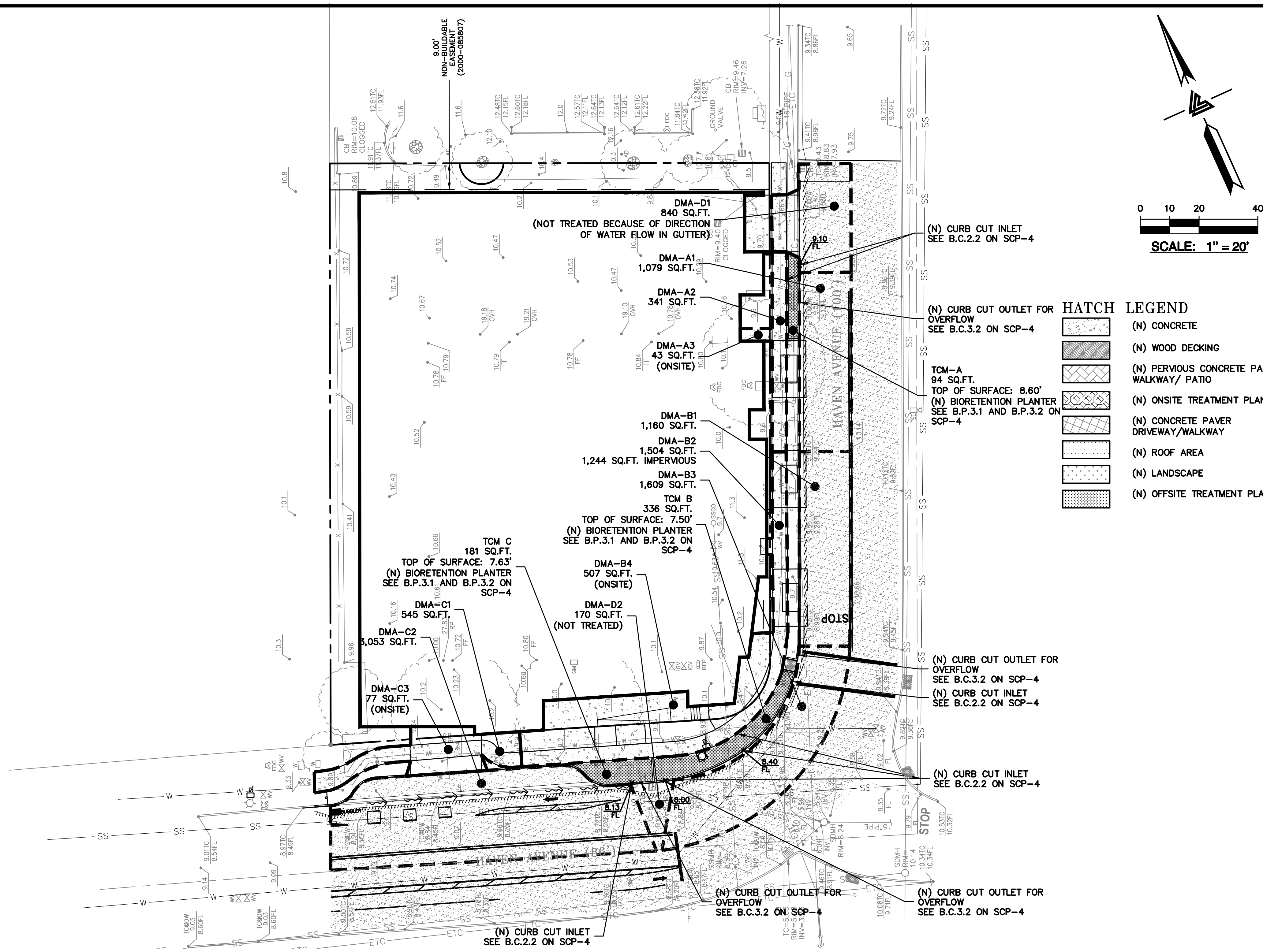
**3705 HAVEN AVENUE**  
**MENLO PARK, CALIFORNIA**  
 SAN MATEO COUNTY APN: 055-170-240

**DRIVEWAY SAFETY TRIANGLES**

9	COMP REVIEW	VA
8	07-16-24	VA
7	05-31-24	VA
6	COMP REVIEW	VA
5	03-21-24	VA
4	C3 PLN CHK	VA
3	10-17-23	VA
2	C3 PLN CHK	VA
1	10-04-23	VA
	REVISIONS	BY

JOB NO: 2220759  
 DATE: 11-18-22  
 SCALE: AS NOTED  
 DESIGN BY: VA  
 CHECKED BY: JH/PC  
 SHEET NO:





**HATCH LEGEND**

[Hatch Pattern]	(N) CONCRETE
[Hatch Pattern]	(N) WOOD DECKING
[Hatch Pattern]	(N) PERVIOUS CONCRETE PAVER WALKWAY/ PATIO
[Hatch Pattern]	(N) ONSITE TREATMENT PLANTERS
[Hatch Pattern]	(N) CONCRETE PAVER DRIVEWAY/WALKWAY
[Hatch Pattern]	(N) ROOF AREA
[Hatch Pattern]	(N) LANDSCAPE
[Hatch Pattern]	(N) OFFSITE TREATMENT PLANTERS

**TREATMENT CONTROL MEASURE SUMMARY TABLE**

TCM	TREATS DMA #	IMPERVIOUS AREA (SQ.FT)	TREATMENT AREA REQUIRED* (SQ.FT)	TOTAL TREATMENT AREA REQUIRED* (SQ.FT.)	TREATMENT AREA PROVIDED (SQ.FT)	SURPLUS (SQ.FT)
TCM-A	A1	1,079	43	59	94	35
	A2	341	14			
	A3 (ONSITE)	43	2			
TCM-B	B1	1,160	46	181	336	155
	B2	1,244	50			
	B3	1,609	64			
	B4 (ONSITE)	507	20			
TCM-C	C1	545	22	147	181	34
	C2	3,053	122			
	C3 (ONSITE)	77	3			
DMAs (NOT TREATED)	-	1,010	40	40	-	-
<b>TOTAL</b>	<b>A-D</b>	<b>10,668</b>	<b>427</b>	<b>427</b>	<b>611</b>	<b>225</b>

\*TREATMENT AREA REQUIRED IS CALCULATED AS 4% OF IMPERVIOUS AREA



**LEA & BRAZE ENGINEERING, INC.**  
 CIVIL ENGINEERS & LAND SURVEYORS  
 REGIONAL OFFICES:  
 MAIN OFFICE: 1000 BAYVIEW WEST, DUBLIN, CALIFORNIA 94568  
 SAN JOSE OFFICE: 1000 BAYVIEW WEST, DUBLIN, CALIFORNIA 94568  
 (510) 887-4066  
 WWW.LEABRAZE.COM

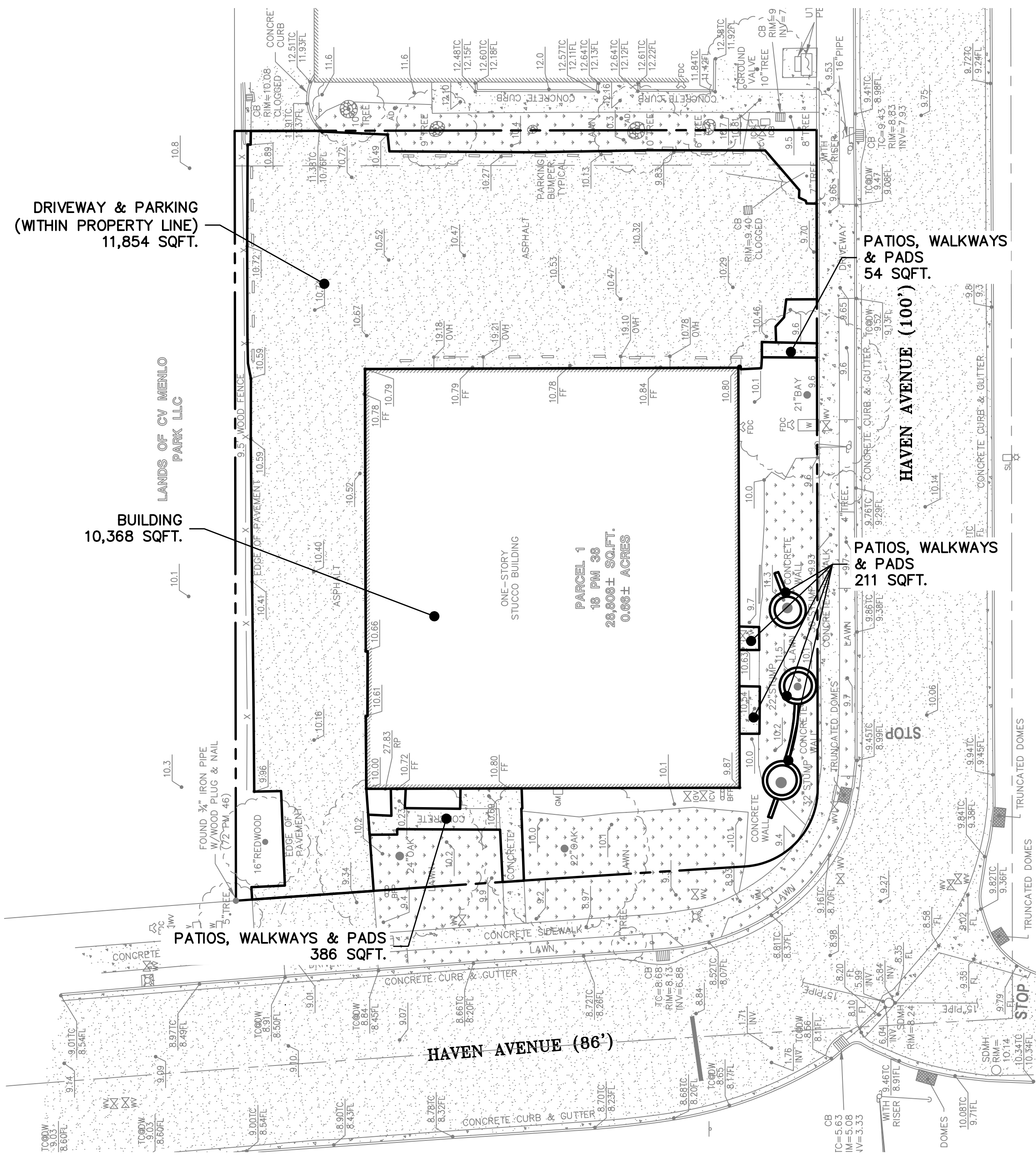
**3705 HAVEN AVENUE**  
**MENLO PARK, CALIFORNIA**  
 SAN MATEO COUNTY APN: 055-170-240

**OFFSITE GREEN INFRASTRUCTURE**

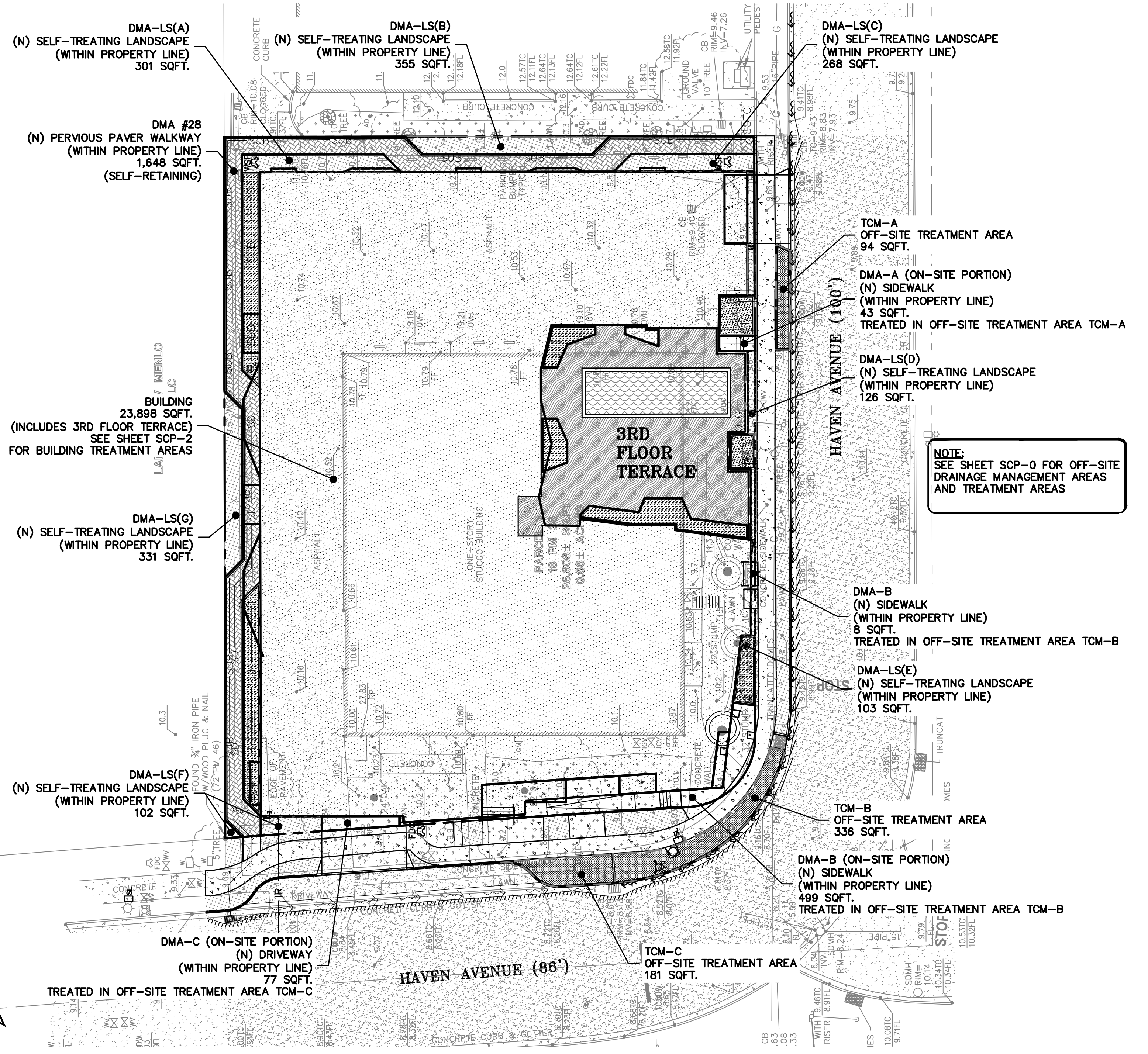
9	COMP REVIEW	VA
8	07-16-24	VA
7	05-31-24	VA
6	03-21-24	VA
5	C3 PLN CHK	VA
4	10-17-23	VA
3	C3 PLN CHK	VA
2	10-04-23	VA
1	REVISIONS	BY

JOB NO: 2220759  
 DATE: 11-18-22  
 SCALE: AS NOTED  
 DESIGN BY: VA  
 CHECKED BY: JH/PC  
 SHEET NO:

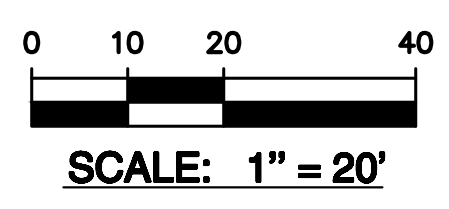




EXISTING



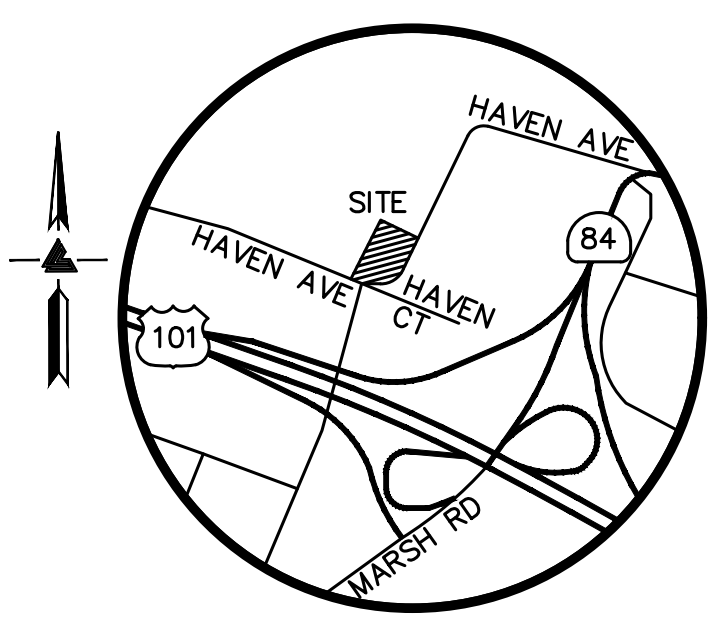
PROPOSED



SITE DEVELOPMENT CALCULATIONS

**HATCH LEGEND**

- (N) ROOF AREA
- (N) CONCRETE
- (N) PERVIOUS PAVERS
- (N) TREATMENT PLANTER



VICINITY MAP  
NO SCALE

**NOTE:**  
ALL HARDSCAPE BELOW UPPER FLOOR OVERHANGS IS INCLUDED IN THE UNIT BUILDING AREA.

Type of Impervious Surface	I.B.1.a		I.B.1.b		I.B.1.c		I.B.1.d		I.B.1.e	
	Existing Surface (sq ft)	Proposed Surface (sq ft)	Existing Surface (sq ft)	Proposed Surface (sq ft)	Existing Surface (sq ft)	Proposed Surface (sq ft)	Existing Surface (sq ft)	Proposed Surface (sq ft)	Existing Surface (sq ft)	Proposed Surface (sq ft)
Roof area(s)	10,368	0	10,368	1,652	12,020					
Impervious <sup>2</sup> sidewalks, patios, paths, driveways, streets	651	0	12,505	0	12,505					
Impervious <sup>2</sup> uncovered parking <sup>7</sup>	11,854	0	0	0	0					
<b>Totals:</b>	<b>22,873</b>	<b>0</b>	<b>22,873</b>	<b>1,652</b>	<b>24,525</b>					
<b>I.B.1.f - Total Impervious Surface Replaced and Created: 24,525 sqft.</b> (sum of totals for columns I.B.1.c and I.B.1.d):										
Type of Pervious Surface	Pre-Project Surface (sq ft)		Post-project Surface (sq ft)							
Landscaping	5,935		2,635							
Pervious Paving	0		1,648							
Green Roof	0		0							
<b>Totals:</b>	<b>5,935</b>		<b>4,283</b>							
<b>Total Site Area (Total Impervious + Total Pervious)</b>	<b>28,808</b>		<b>28,808</b>							

Total Area of Parcel	A	28,808	SF
Existing Pervious Area	B	5,935	SF
Existing Impervious Area	C	22,873	SF
Existing % Impervious	$C / A * 100 =$	D	79.4 %
Existing Impervious Area to be replaced w/new impervious area	E	22,873	SF
Existing pervious area to be replaced w/new impervious area	F	1,652	SF
New Impervious Area (Creating and/or Replacing)	$E + F =$	G	24,525 SF
If G is greater than 10,000 SF, a hydrology report shall be submitted to Engineering.			
Existing Impervious Area to be replaced w/new pervious area	H	0	SF
Net change in Impervious Area	$F - H =$	I	1,652 SF
Input negative (-) number if the F (net change) is negative			
Proposed Pervious Area	$B - I =$	J	4,283 SF
Proposed Impervious Area	$C + I =$	K	24,525 SF
Verify that $J + K = A$			28,808 SF
Proposed % Impervious	$K / A * 100 =$	L	85.1 %

\*Pervious Paver Sidewalk Counted as Pervious



**LEA & BRAZE ENGINEERING, INC.**  
CIVIL ENGINEERS & LAND SURVEYORS  
REGIONAL OFFICES:  
MAIN OFFICE: 10000 RANNEY WEST  
DUBLIN, CALIFORNIA 94568  
SAN JOSE OFFICE: 1000 RANNEY WEST  
SAN JOSE, CALIFORNIA 95128  
(510) 887-4086  
WWW.LEABRAZE.COM

3705 HAVEN AVENUE  
MENLO PARK, CALIFORNIA

IMPERVIOUS SURFACE  
EXHIBIT

NO.	DESCRIPTION	DATE	BY
9	COMP REVIEW	07-16-24	VA
8	COMP REVIEW	05-31-24	VA
7	COMP REVIEW	03-21-24	VA
6	C3 PLN CHK	10-17-23	VA
5	C3 PLN CHK	10-04-23	VA
REVISIONS			BY

JOB NO: 2220759  
DATE: 11-18-22  
SCALE: AS NOTED  
DESIGN BY: VA  
CHECKED BY: JH/PC  
SHEET NO:



STORMWATER TREATMENT SUMMARY TABLES

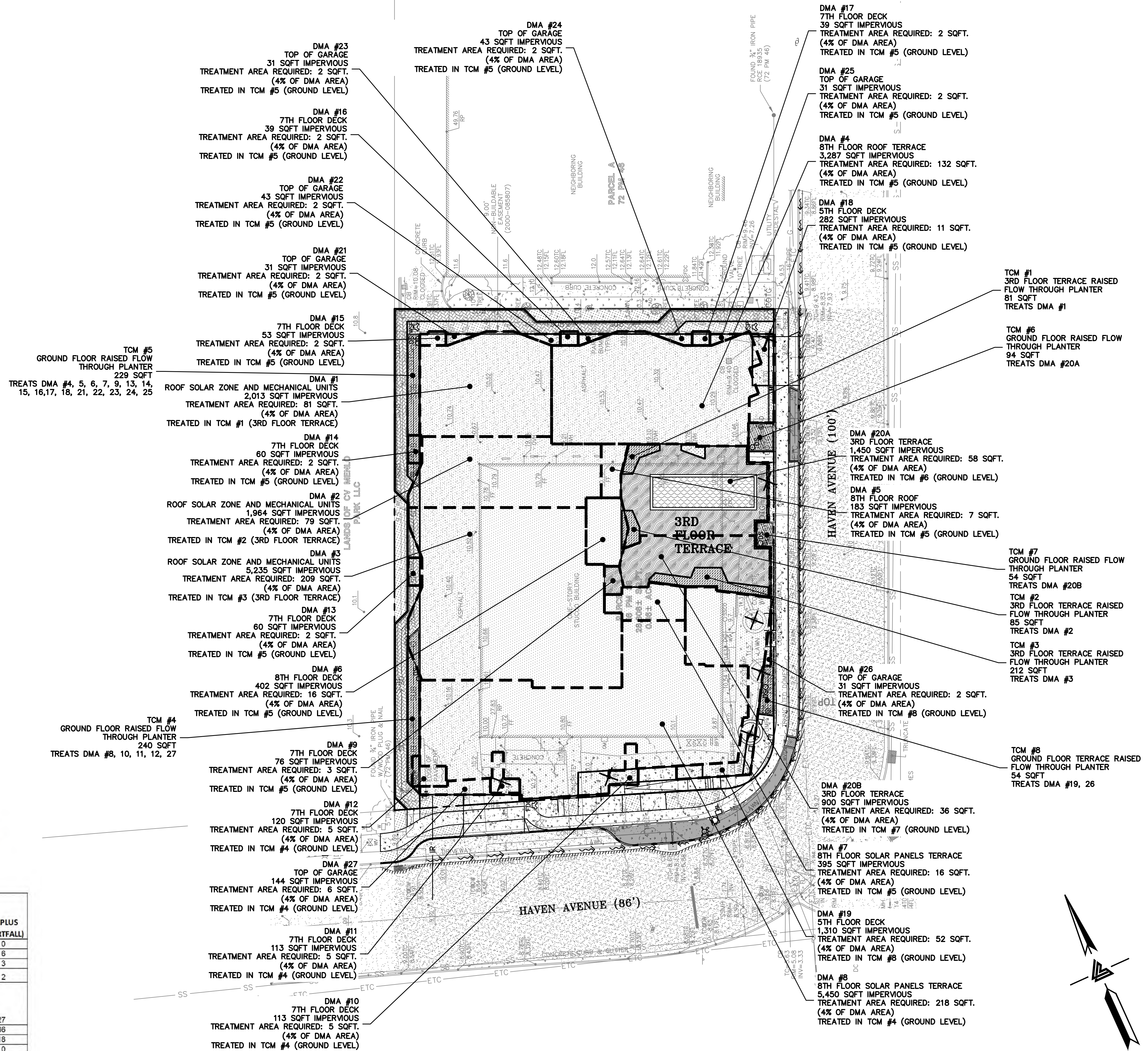
DRAINAGE MANAGEMENT AREA SUMMARY TABLE

DMA	LOCATION	IMPERVIOUS AREA (SQ.FT)	TREATED BY TCM
DMA 1	ROOF	2,013	1
DMA 2	ROOF	1,964	2
DMA 3	ROOF	5,235	3
DMA 4	8TH FLOOR ROOF TERRACE	3,287	5
DMA 5	8TH FLOOR ROOF	183	5
DMA 6	8TH FLOOR DECK	402	5
DMA 7	8TH FLOOR SOLAR PANELS TERRACE	395	5
DMA 8	8TH FLOOR SOLAR PANELS TERRACE	5,450	4
DMA 9	7TH FLOOR DECK	76	5
DMA 10	7TH FLOOR DECK	113	4
DMA 11	7TH FLOOR DECK	113	4
DMA 12	7TH FLOOR DECK	120	4
DMA 13	7TH FLOOR DECK	60	5
DMA 14	7TH FLOOR DECK	60	5
DMA 15	7TH FLOOR DECK	53	5
DMA 16	7TH FLOOR DECK	39	5
DMA 17	7TH FLOOR DECK	39	5
DMA 18	5TH FLOOR DECK	282	5
DMA 19	5TH FLOOR DECK	1,310	8
DMA 20A	3RD FLOOR TERRACE (AREA DOES NOT INCLUDE TREATMENT PLANTERS)	1,450	6
DMA 20B	3RD FLOOR TERRACE (AREA DOES NOT INCLUDE TREATMENT PLANTERS)	900	7
DMA 21	TOP OF GARAGE	31	5
DMA 22	TOP OF GARAGE	43	5
DMA 23	TOP OF GARAGE	31	5
DMA 24	TOP OF GARAGE	43	5
DMA 25	TOP OF GARAGE	31	5
DMA 26	TOP OF GARAGE	31	8
DMA 27	TOP OF GARAGE	144	4
DMA - A	AT GRADE SIDEWALK (On-Site Portion)	43	A (Off-Site Treatment)
DMA - B	AT GRADE SIDEWALK (On-Site Portion)	507	B (Off-Site Treatment)
DMA - C	AT GRADE DRIVEWAY (On-Site Portion)	77	C (Off-Site Treatment)
TOTAL IMPERVIOUS		24,525	

TREATMENT CONTROL MEASURE SUMMARY TABLE

TCM	LOCATION	TREATS DMA #	IMPERVIOUS AREA (SQ.FT)	TREATMENT AREA REQUIRED (SQ.FT)	TREATMENT AREA PROVIDED (SQ.FT)	SURPLUS (SHORTFALL)
TCM 1	3RD FLOOR TERRACE	1	2,013	81	81	0
TCM 2	3RD FLOOR TERRACE	2	1,964	79	85	6
TCM 3	3RD FLOOR TERRACE	3	5,235	209	212	3
TCM 4	GROUND FLOOR	8, 10, 11, 12, 27	5,940	238	240	2
TCM 5	GROUND FLOOR	4, 5, 6, 7, 9, 13, 14, 15, 16, 17, 18, 21, 22, 23, 24, 25	5,055	202	229	27
TCM 6	GROUND FLOOR	20A	1,450	58	94	36
TCM 7	GROUND FLOOR	20B	900	36	54	18
TCM 8	GROUND FLOOR	19, 26	1,341	54	54	0
TCM A	OFF-SITE	A	43	2	2	0
TCM B	OFF-SITE	B	507	20	20	0
TCM C	OFF-SITE	C	77	3	3	0
TOTAL			24,525	981	1,074	93

\*Listed treatment area provided for TCM- A, B, & C excludes additional treatment area provided for off-site hardscape treatment



**LEA & BRAZE ENGINEERING, INC.**  
 CIVIL ENGINEERS & LAND SURVEYORS  
 REGIONAL OFFICES:  
 MAIN OFFICE: 10000 RIVINGTON WAY, SUITE 100, DUBLIN, CA 94568  
 SAN JOSE OFFICE: 10000 RIVINGTON WAY, SUITE 100, SAN JOSE, CA 95131  
 (510) 887-4066  
 WWW.LEABRAZE.COM

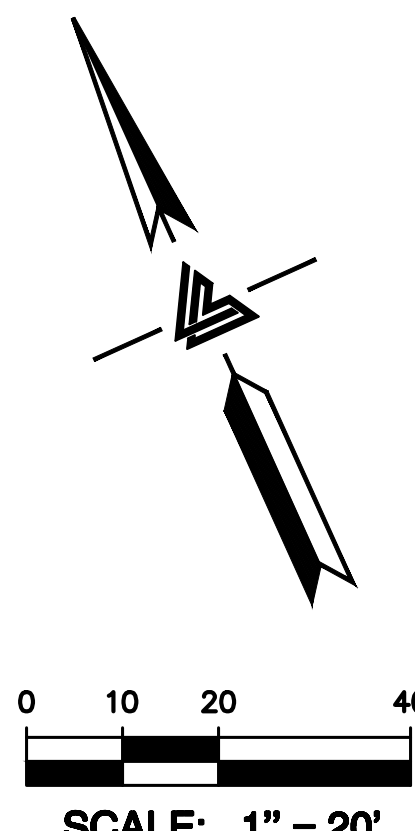
**3705 HAVEN AVENUE**  
**MENLO PARK, CALIFORNIA**  
 SAN MATEO COUNTY  
 APN: 055-170-240

**STORMWATER CONTROL PLAN**

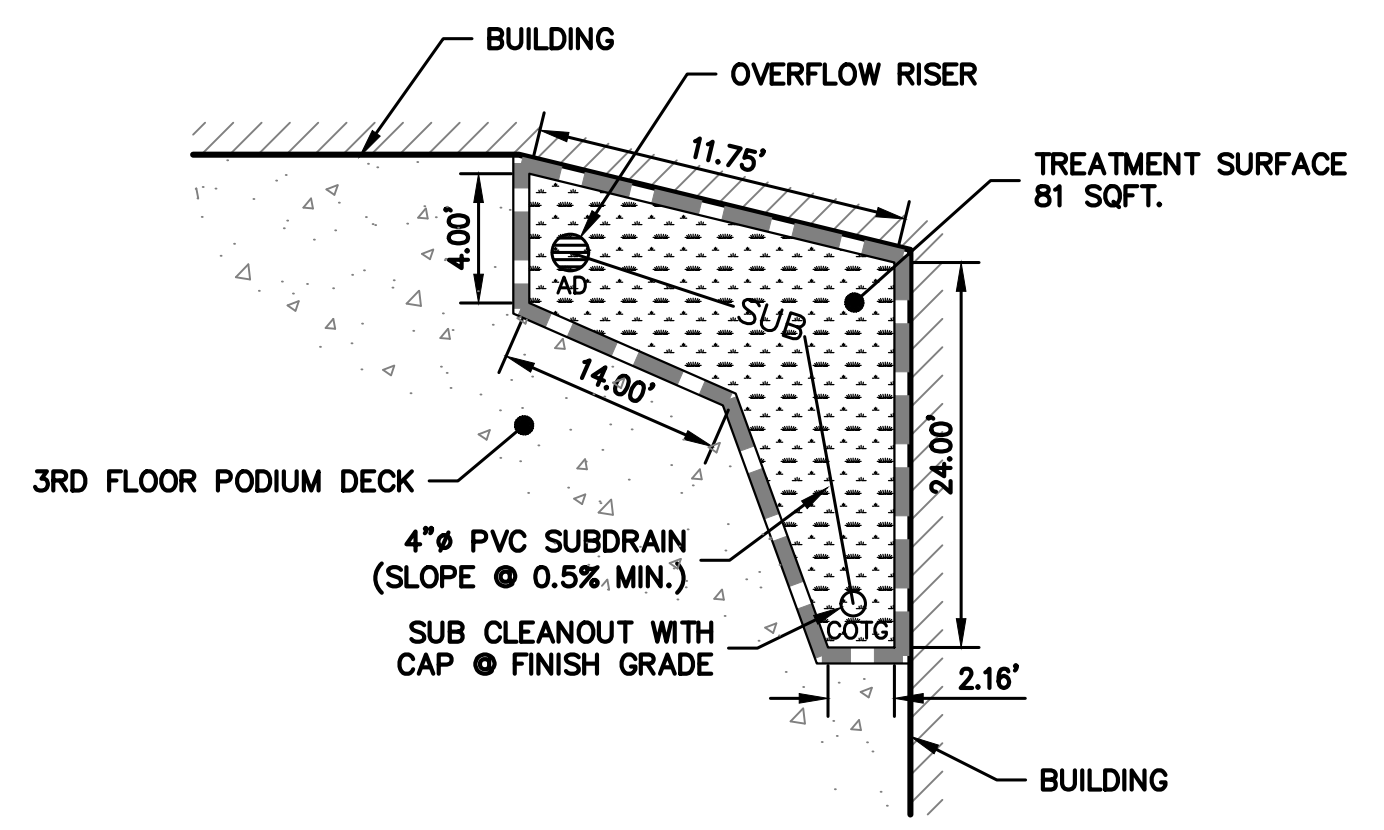
NO.	DESCRIPTION	DATE	BY
9	COMP REVIEW	07-16-24	VA
8	COMP REVIEW	05-31-24	VA
7	COMP REVIEW	03-21-24	VA
6	C3 PLN CHK	10-17-23	VA
5	C3 PLN CHK	10-04-23	VA

REVISIONS BY

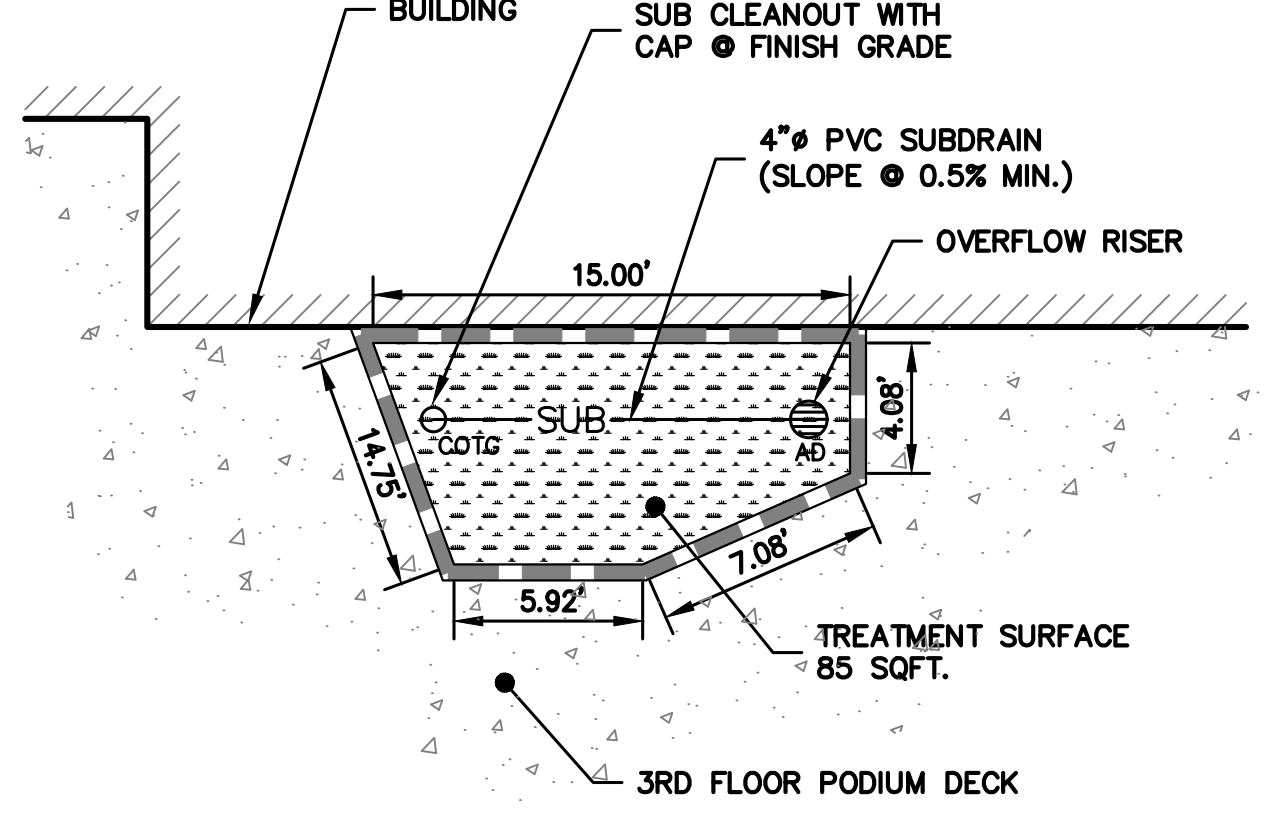
JOB NO: 2220759  
 DATE: 11-18-22  
 SCALE: AS NOTED  
 DESIGN BY: VA  
 CHECKED BY: JH/PC  
 SHEET NO:



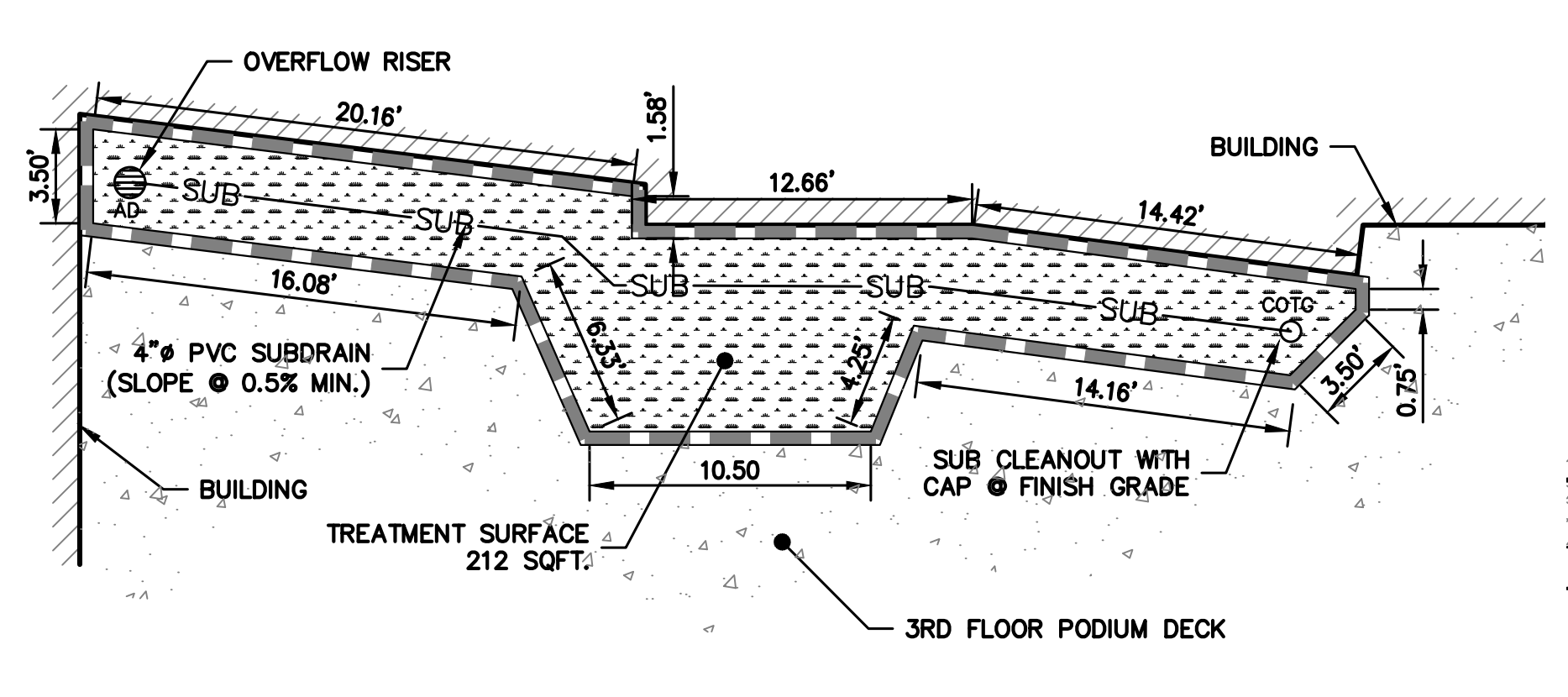




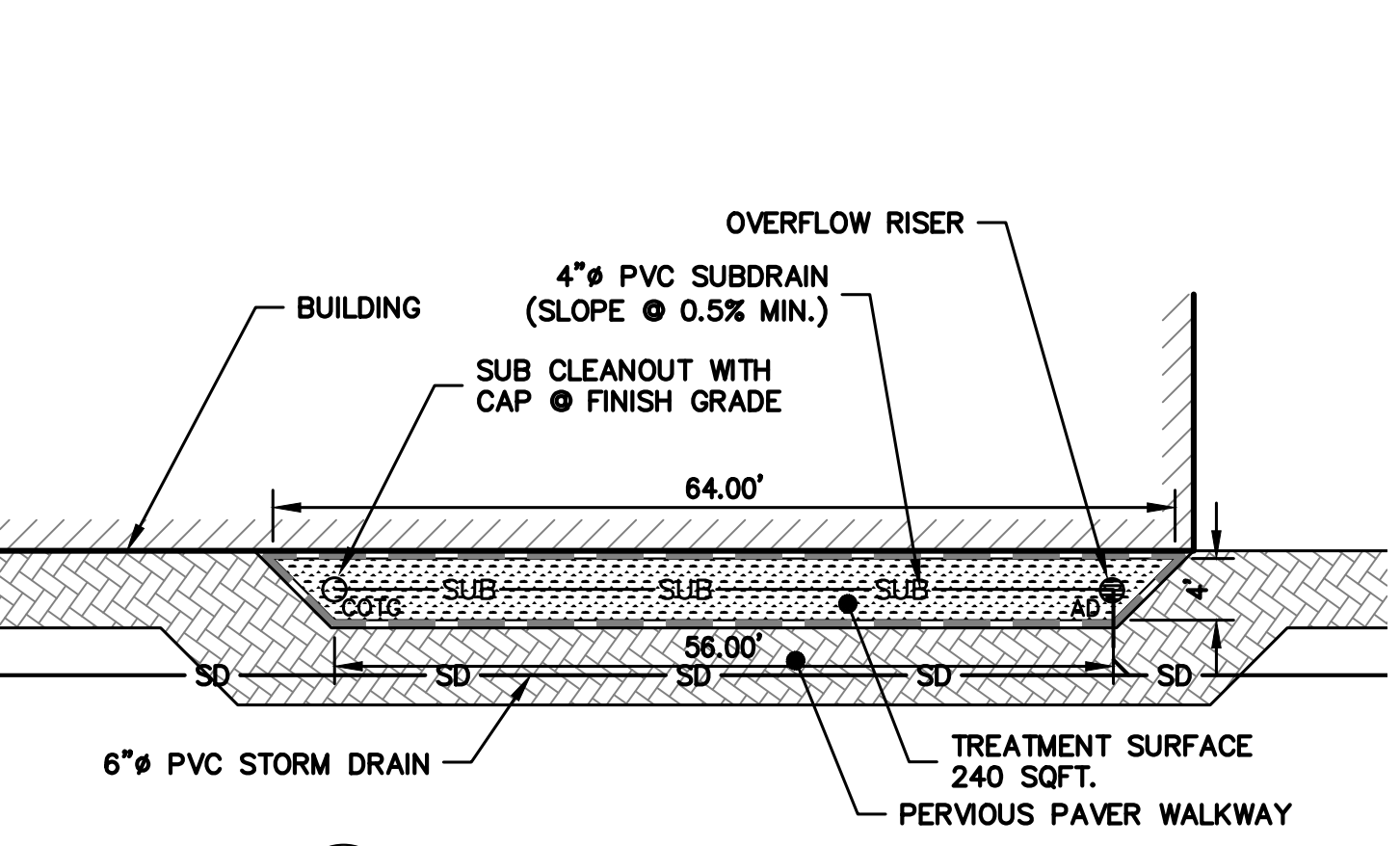
1 FLOW THROUGH PLANTER #1  
SCP-3 NTS



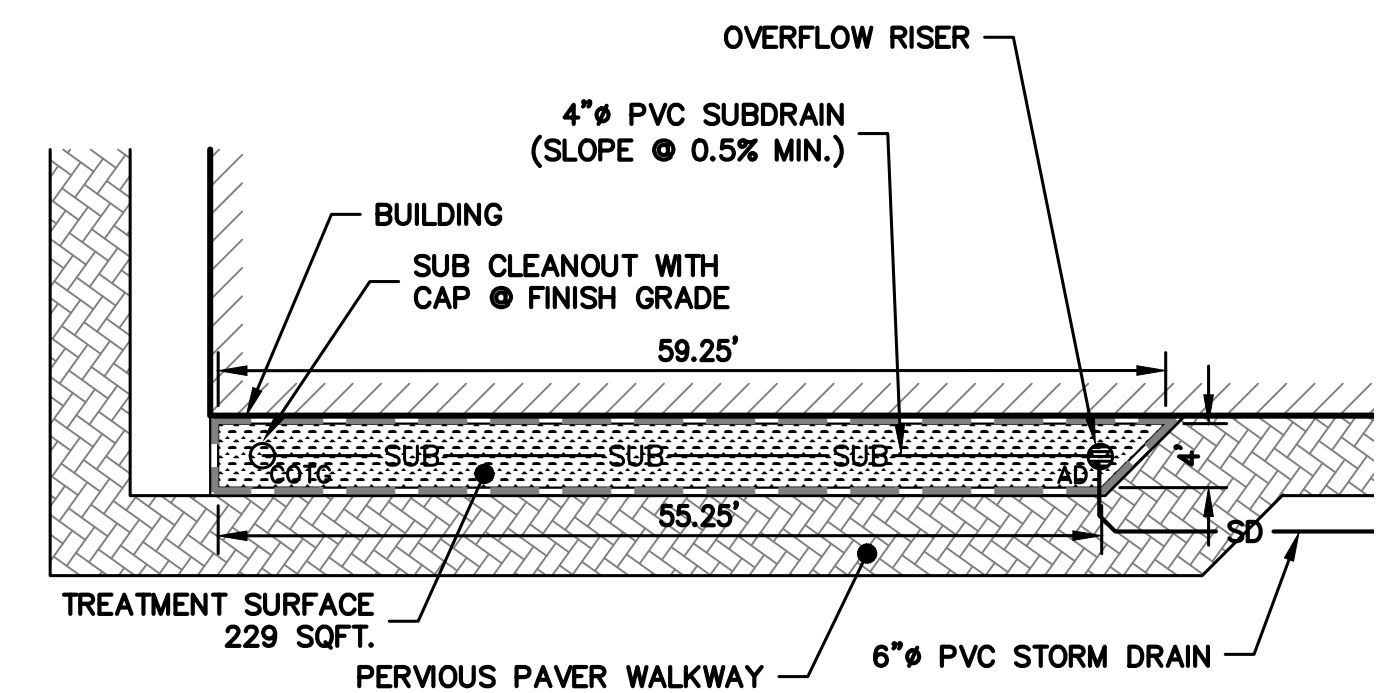
2 FLOW THROUGH PLANTER #2  
SCP-3 NTS



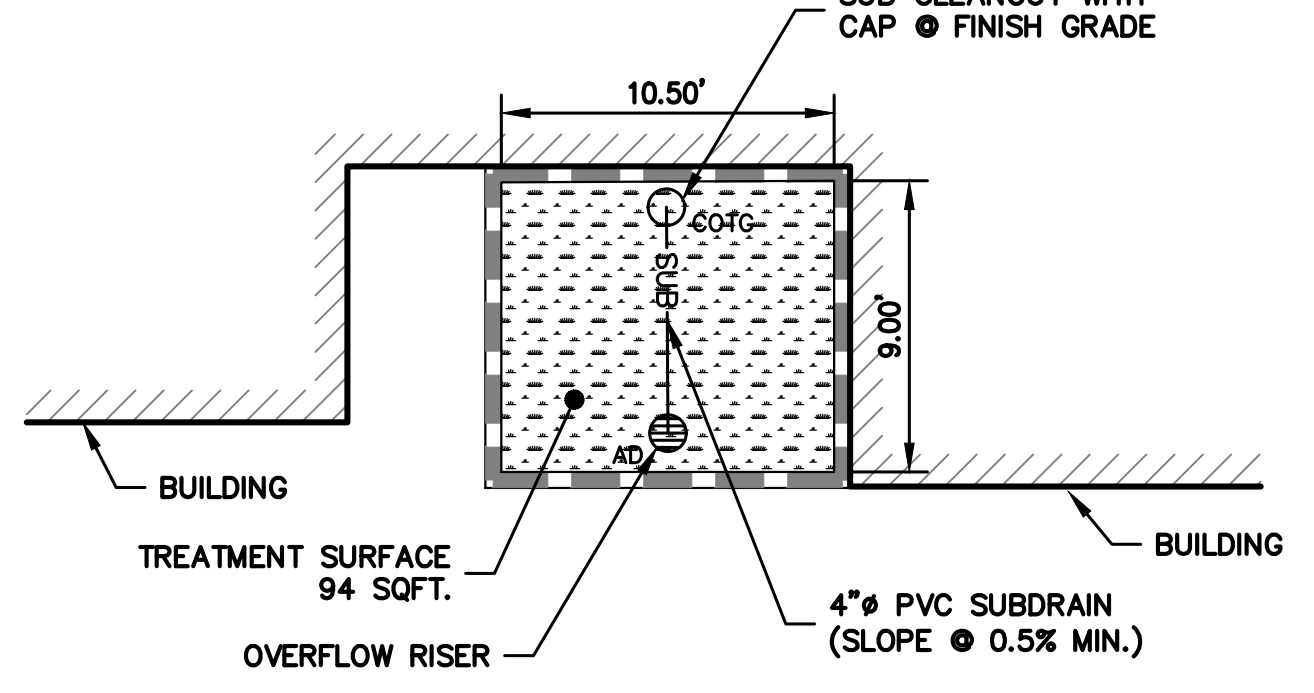
3 FLOW THROUGH PLANTER #3  
SCP-3 NTS



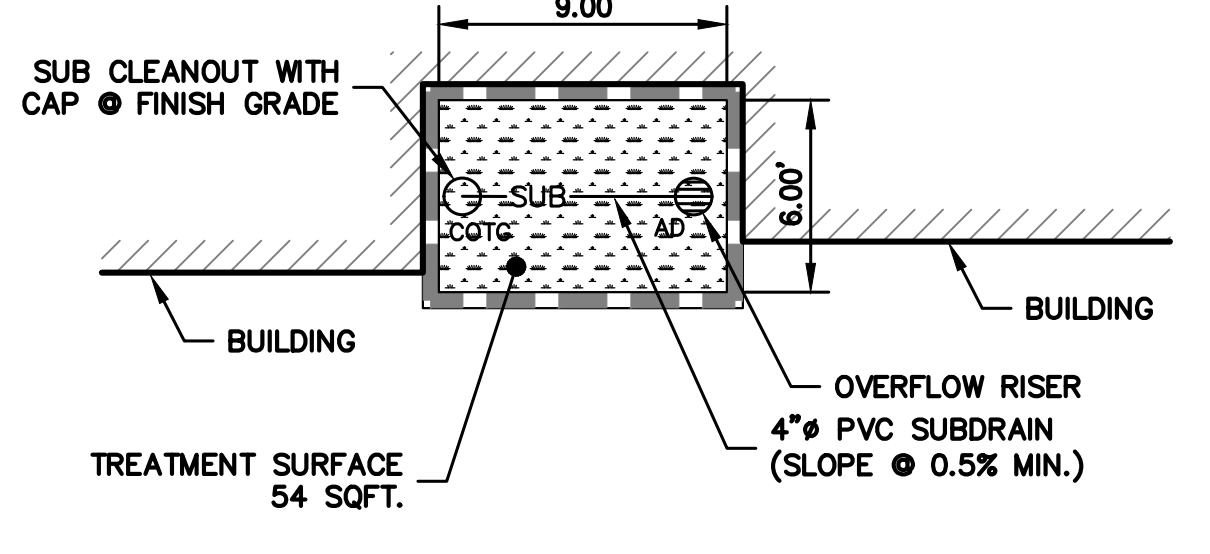
4 FLOW THROUGH PLANTER #4  
SCP-3 NTS



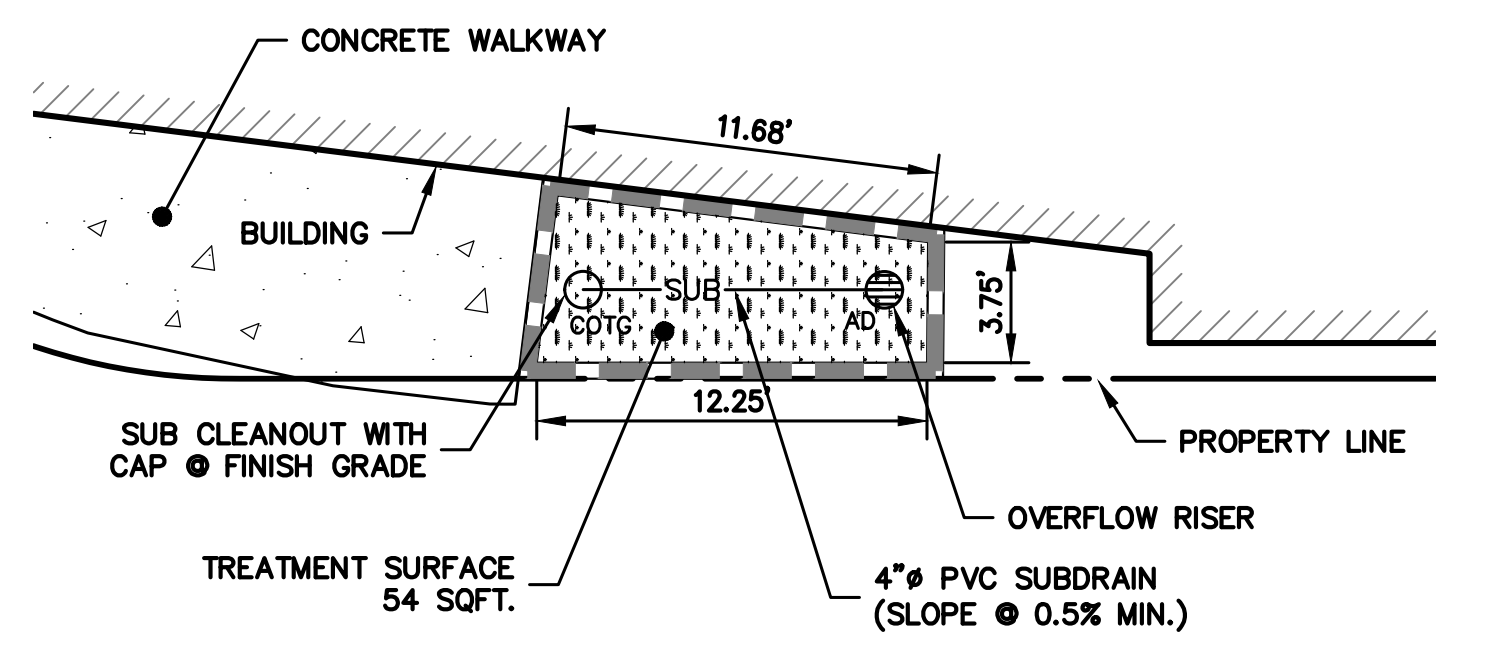
5 FLOW THROUGH PLANTER #5  
SCP-3 NTS



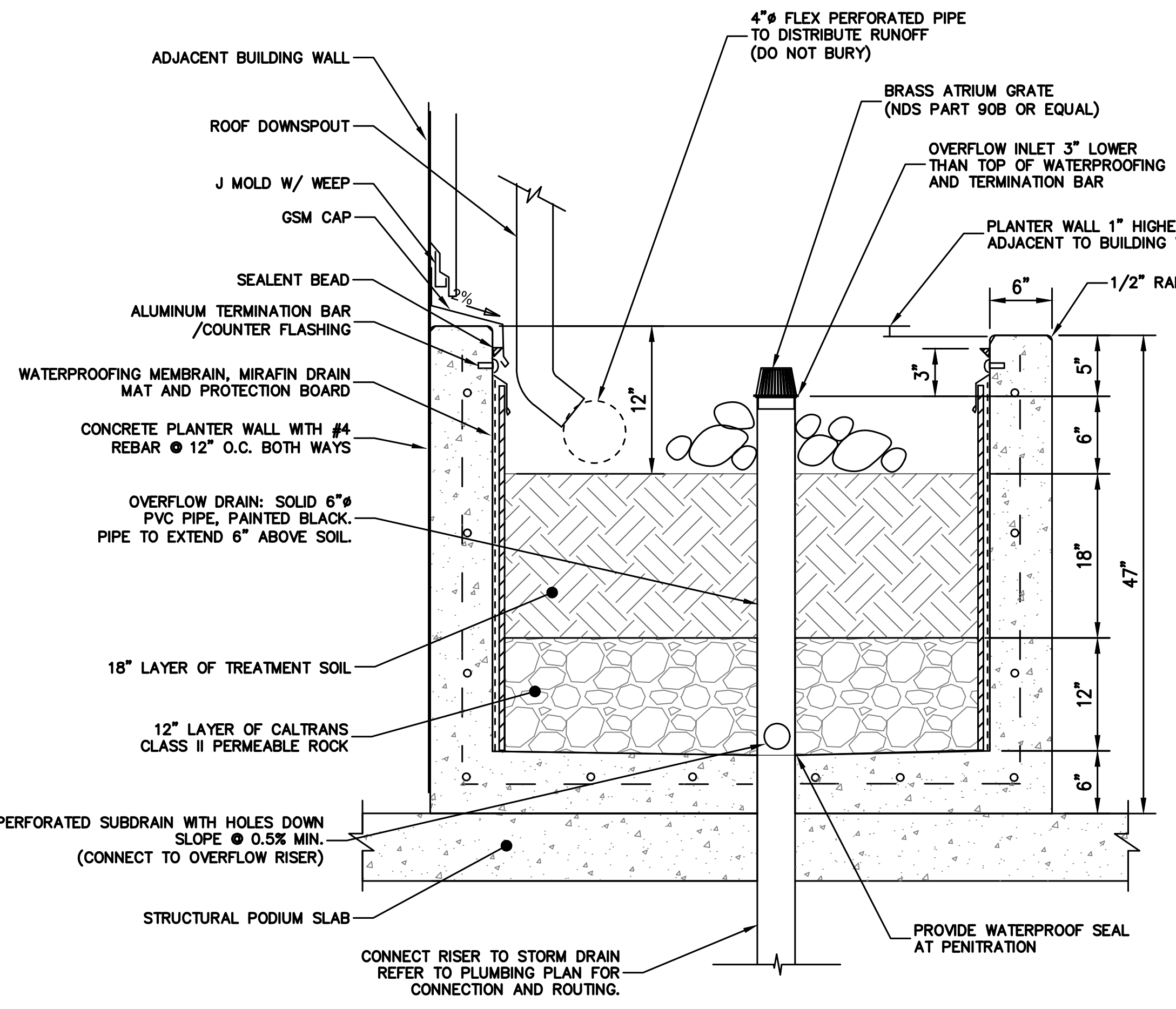
6 FLOW THROUGH PLANTER #6  
SCP-3 NTS



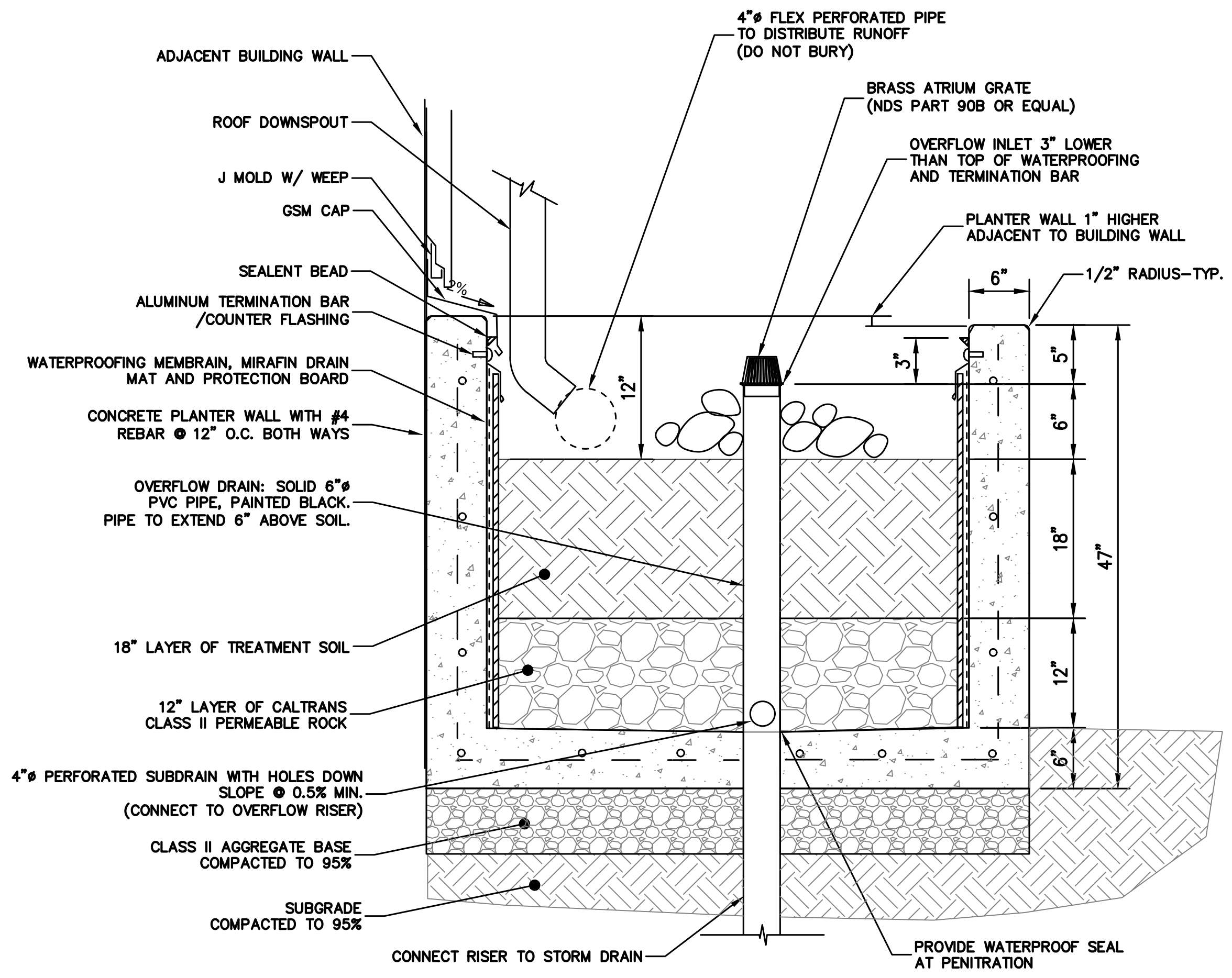
7 FLOW THROUGH PLANTER #7  
SCP-3 NTS



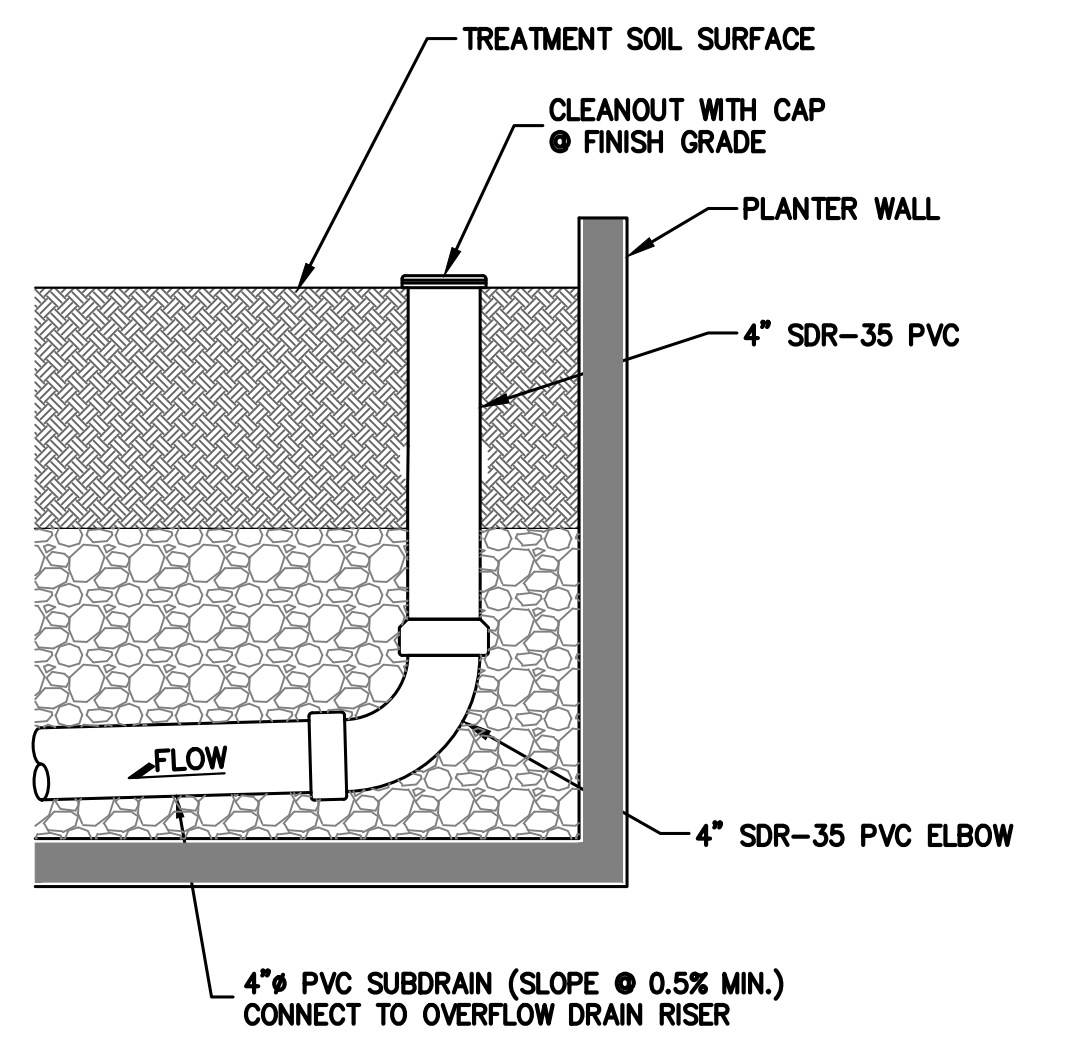
8 FLOW THROUGH PLANTER #8  
SCP-3 NTS



8 PODIUM DECK FLOW-THROUGH TREATMENT PLANTERS  
FLOW-THROUGH TREATMENT PLANTERS 1, 2, & 3  
SCP-3 NTS



9 GROUND FLOOR FLOW-THROUGH TREATMENT PLANTERS  
FLOW-THROUGH TREATMENT PLANTERS 4, 5, 6, 7 & 8  
SCP-3 NTS



10 PLANTER SUBDRAIN CLEANOUT  
SCP-3 NTS

**BIO-RETENTION SOIL CONSIDERATIONS**  
THE BIO-RETENTION PLANTING SOIL SHALL MEET THE REQUIREMENTS SET FORTH IN APPENDIX K OF THE SAN MATEO COUNTY CLEANWATER PROGRAM C.3 STORMWATER TECHNICAL GUIDANCE HANDBOOK.  
BIO-RETENTION SOIL SHALL HAVE A MINIMUM PERCOLATION RATE OF 5" PER HOUR AND MAXIMUM PERCOLATION RATE OF 10" PER HOUR. IF NATIVE SOILS DO NOT MEET THIS PERCOLATION REQUIREMENT, AN ADMIXTURE SHALL BE MIXED INTO PLANTING SOIL TO ALLOW FOR A 5" PER HOUR PERCOLATION RATE. IN-SITU TESTING SHALL BE CONDUCTED TO VERIFY THAT THE MATERIAL MEETS THE PERCOLATION REQUIREMENTS.  
NO BARK MULCH SHALL BE PLACED IN THE VEGETATED AREA.  
IF IMPORT SOIL IS USED, IT SHALL HAVE THE FOLLOWING PROPERTIES FOR SANDY LOAM. A TYPICAL SOIL MIX COMPRISES 60-70% SAND AND 30%-40% COMPOST.



**LEA & BRAZE ENGINEERING, INC.**  
CIVIL ENGINEERS & LAND SURVEYORS  
REGIONAL OFFICES:  
SAN JOSE OFFICE: 1000 W. BERRY AVE., SUITE 100, SAN JOSE, CA 95128  
SAN JOSE OFFICE: 1000 W. BERRY AVE., SUITE 100, SAN JOSE, CA 95128  
(510) 887-4066  
WWW.LEABRAZE.COM

3705 HAVEN AVENUE  
MENLO PARK, CALIFORNIA  
SAN MATEO COUNTY  
APN: 055-170-240

STORMWATER CONTROL  
DETAILS

NO.	DESCRIPTION	DATE	BY
9	COMP REVIEW	07-16-24	VA
8	COMP REVIEW	05-31-24	VA
7	COMP REVIEW	03-21-24	VA
6	C3 PLN CHK	10-17-23	VA
5	C3 PLN CHK	10-04-23	VA
REVISIONS		BY	

JOB NO: 2220759  
DATE: 11-18-22  
SCALE: AS NOTED  
DESIGN BY: VA  
CHECKED BY: JH/PC  
SHEET NO:





**LEA & BRAZE ENGINEERING, INC.**  
**CIVIL ENGINEERS & LAND SURVEYORS**  
 REGIONAL OFFICES:  
 DUBLIN, CALIFORNIA 94568  
 HAYWARD, CALIFORNIA 94545  
 SAN JOSE, CALIFORNIA 95128  
 (510) 887-4086  
 WWW.LEA-BRAZE.COM

**3705 HAVEN AVENUE**  
**MENLO PARK, CALIFORNIA**  
 SAN MATEO COUNTY  
 APN: 055-170-240

**GREEN INFRASTRUCTURE**  
**DETAILS**

9	COMP REVIEW	07-16-24	VA
8	COMP REVIEW	05-31-24	VA
7	COMP REVIEW	03-21-24	VA
6	C3 PLN CHK	10-17-23	VA
5	C3 PLN CHK	10-04-23	VA
	REVISIONS		BY

JOB NO: 2220759  
 DATE: 11-18-22  
 SCALE: AS NOTED  
 DESIGN BY: VA  
 CHECKED BY: JH/PC  
 SHEET NO:

**PURPOSE:**  
 ROADSIDE BIORETENTION PLANTERS IN:  
 • CDS AREAS: CONTROL PEAK FLOWS AND VOLUMES OF STORMWATER RUNOFF BY PROVIDING SURFACE, SUBSURFACE STORAGE AND INFILTRATION INTO NATIVE SOIL.  
 • MSA AREAS: REMOVE POLLUTANTS OF CONCERN AS WATER FILTERS THROUGH BIORETENTION SOIL.

**DESIGNER NOTES & GUIDELINES:**

- THE DESIGNER MUST ADAPT PLAN AND SECTION DRAWINGS TO ADDRESS SITE-SPECIFIC CONDITIONS.
- PLANTER AREA, PONDING DEPTH, BIORETENTION SOIL DEPTH, AND AGGREGATE STORAGE DEPTH MUST BE SIZED TO MEET PROJECT HYDROLOGIC PERFORMANCE GOALS.
- PONDING AND BIORETENTION SOIL DRAWDOWN TIME (I.E., TIME FOR MAXIMUM SURFACE PONDING TO DRAIN THROUGH THE BIORETENTION SOIL AFTER THE END OF A STORM) REQUIREMENTS:
  - 3-12 HOUR PONDING AND BIORETENTION SOIL DRAWDOWN (TYPICAL)
  - 24 HOUR MAXIMUM PONDING AND BIORETENTION SOIL DRAWDOWN
- FACILITY DRAWDOWN TIME (I.E., TIME FOR SURFACE PONDING TO DRAIN THROUGH THE ENTIRE SECTION INCLUDING AGGREGATE STORAGE AFTER THE END OF A STORM) REQUIREMENTS:
  - 48 HOUR MAXIMUM FACILITY DRAWDOWN (I.E. ORIFICE CONTROLLED SYSTEM OR EXTENDED STORAGE DEPTH WITHIN INFILTRATION SYSTEM)
- AN AGGREGATE COURSE UNDER THE BIORETENTION SOIL IS REQUIRED FOR BIORETENTION IN SEPARATE SEWER SYSTEM AREAS. USE AGGREGATE COURSE WHERE REQUIRED (E.G., WITH UNDERDRAIN, FOR STORAGE, ETC.) FOR FACILITIES IN COMBINED SEWER SYSTEM AREAS.
- THE PLANTER WALL SLOPE IS TYPICALLY DESIGNED TO MATCH THE LONGITUDINAL SLOPE OF THE ADJACENT ROADWAYSIDEWALK. CHECK DAMS MAY BE USED FOR HIGHER SLOPED INSTALLATIONS TO TERRACE FACILITIES TO PROVIDE SUFFICIENT PONDING AND TO MINIMIZE LARGE ELEVATION DROPS FROM ADJACENT SURFACES. DESIGNER MUST SPECIFY CHECK DAM HEIGHT AND SPACING. REFER TO BC 6.1 AND BC 6.2 FOR GUIDANCE ON CHECK DAM DESIGN.
- THE DESIGN SHALL MINIMIZE THE HEIGHT OF EXPOSED PLANTER WALLS BETWEEN THE TOP OF SOIL AND TOP OF CURB WALL AND CONSIDER PEDESTRIAN AND VEHICLE SAFETY, ACCESSIBILITY REQUIREMENTS, AND OVERALL AESTHETICS. DEPENDING ON THE HEIGHT OF THE PROPOSED PLANTER WALL, ADDITIONAL STRUCTURAL CONSIDERATIONS MAY BE REQUIRED TO ADDRESS WALL LOADING. REFER TO BC 1.1 THROUGH BC 1.7 FOR GUIDANCE ON EDGE TREATMENTS.
- WHEN FACILITY CONSTRUCTION IMPACTS EXISTING SIDEWALK, ALL SAW CUTS MUST ADHERE TO SFPPC REQUIREMENTS. SAW CUTS SHOULD BE ALONG SCORE LINES AND ANY DISTURBED SIDEWALK FLAG SHOULD BE REPLACED IN THEIR ENTIRETY.
- BIORETENTION PLANTERS LOCATED IN PUBLIC ROW SHOULD BE DESIGNED WITH AN OFFLINE CONFIGURATION (I.E. NO OVERFLOW STRUCTURE TO SD LATERAL CURB CUTS SERVE AS INLET AND OVERFLOW TO GUTTER FLOW LINE). ONLINE BIORETENTION CONFIGURATION (I.E. OVERFLOW STRUCTURE WITHIN PLANTER TO SD LATERAL) REQUIRES SFPPC APPROVAL. HAND-PIPED DISCHARGE INTO ROW BIORETENTION PLANTERS MAY REQUIRE AN ONLINE CONFIGURATION.
- FOR APPROVED ONLINE CONFIGURATIONS: OVERFLOW STRUCTURE (MATERIAL AND WORKMANSHIP) SHALL CONFORM TO APPLICABLE CODES AND REQUIREMENTS. SIZE AND MODEL OF ATRIUM GRATE AT OVERFLOW TO BE DETERMINED BY ENGINEER TO ENSURE CONVEYANCE OF PEAK FLOW.
- PLANTER VEGETATION MUST BE SPECIFIED BY DESIGN PROFESSIONAL PER SFPPC VEGETATION PALLETTE.
- THE DESIGNER MUST EVALUATE UTILITY SURVEYS FOR POTENTIAL UTILITY CROSSINGS OR CONFLICTS. REFER TO GC 2.1 - GC 2.12 FOR UTILITY CROSSING DETAILS AND GC 3.1 - GC 3.4 FOR UTILITY CROSSING CONFLICT DETAILS.
- MINIMUM UTILITY SETBACKS AND PROTECTION MEASURES MUST CONFORM TO CURRENT UTILITY PROTECTION STANDARDS AND OTHER UTILITY PROVIDER REQUIREMENTS.

**RELATED COMPONENTS**

EDGE TREATMENTS:	BC 1.1	BC 1.7
INLETS:	BC 2.1	BC 2.4
OUTLETS:	BC 3.1	BC 3.4
AGGREGATE STORAGE:	BC 4.1	
UNDERDRAINS:	BC 5.1	BC 5.2
CHECK DAMS:	BC 6.1	BC 6.2
LINEARS:	GC 1.1	GC 1.2
UTILITY CROSSINGS:	GC 2.1	GC 2.12
UTILITY CONFLICTS:	GC 3.1	GC 3.4
OBSERVATION PORTS:	GC 4.1	GC 4.3
CLEANOUTS:	GC 5.1	

**RELATED SPECIFICATIONS**

BIORETENTION: BIORETENTION SOIL MIX	CS1 NO. 33-47-27
AGGREGATE STORAGE	
MULCH	
STREAMBED COBBLES	

**LAYOUT REQUIREMENTS:**

- REFER TO THE SAN FRANCISCO STANDARD ACCESSIBILITY REQUIREMENTS IN THE SAN FRANCISCO PUBLIC WORKS SIDEWALK LANDSCAPING REFERENCE DRAWINGS AND SPECIFICATIONS FOR COURTESY STRIP, THROUGHWAY, PARKING SPACE AND ACCESSIBLE PATH REQUIREMENTS.
- LOCATE CURB CUTS AND GUTTER MODIFICATIONS TO AVOID CONFLICTS WITH ACCESSIBILITY REQUIREMENTS (E.G. OVERLAPS SHALL DISCHARGE TO CURB OR INLET PRIOR TO CROSSING A CURB RAMP OR CROSSWALK).
- REFER TO SHEET GEN 0.2 AND APPENDIX C OF THE STORMWATER MANAGEMENT REQUIREMENTS FOR MORE DETAILED INFORMATION ON SITING AND DESIGN REQUIREMENTS FOR INFILTRATION-BASED BMPs.

**DESIGNER CHECKLIST (MUST SPECIFY, AS APPLICABLE):**

- PLANTER WIDTH AND LENGTH
- DEPTH OF PONDING
- DEPTH OF FREEBOARD
- DEPTH OF BIORETENTION SOIL
- DEPTH AND TYPE OF AGGREGATE STORAGE, IF ANY
- PLANTER SURFACE ELEVATION (TOP OF BIORETENTION SOIL) AT UPSLOPE AND DOWNSLOPE ENDS OF FACILITY (I.E., PROVIDE SPOTS AND/OR CONTOURS AS NEEDED).
- DEFINED SURVEY POINTS AT EVERY PLANTER WALL CORNER AND POINT OF TANGENCY
- HORIZONTAL CONTROL: DIMENSIONS AND DISTANCE TO EVERY INLET, OUTLET, CHECK DAM, SIDEWALK NOTCH, ETC.
- VERTICAL CONTROL: ELEVATIONS OF EVERY INLET, OUTLET, STRUCTURE RIM AND INVERT, CHECK DAM, PLANTER WALL CORNER, AND SIDEWALK NOTCH
- TYPE AND DESIGN OF PLANTER COMPONENTS (E.G. EDGE TREATMENTS, INLETS/GUTTER MODIFICATIONS, UTILITY CROSSINGS, LINER, AND PLANTING DETAILS)

**CONSTRUCTION NOTES:**

- CHECK DAMS SHALL BE SPACED TO PROVIDE PONDING PER SITE SPECIFIC DESIGN.
- LAY OUT DRAINAGE NOTCHES TO PREVENT PONDING BEHIND PLANTER WALL WITH 5' MAXIMUM SPACING BETWEEN NOTCHES.
- PROVIDE ONE CLEANOUT PER PLANTER (MIN) FOR FACILITIES WITH UNDERDRAINS.
- MINIMUM UTILITY SETBACKS AND PROTECTION MEASURES MUST CONFORM TO CURRENT SFPPC ASSET PROTECTION STANDARDS. COORDINATE WITH ENGINEER IN THE EVENT OF UTILITY CROSSING AND UTILITY CONFLICTS.
- PUBLIC ROW/SFPUC ASSETS SHALL BE OFFLINE CONFIGURATION. SEE BP 1.1.
- PRIVATE PARCEL: OFFLINE OR ONLINE CONFIGURATION ALLOWED.
- PRIOR TO PLACEMENT OF IMPERMEABLE LINER, THE SUBGRADE SHALL BE PREPARED AND CONTOURED AS NECESSARY TO PROVIDE A SMOOTH SURFACE. VOID OF SHARP ROCK/CORNERS. NO VOID SPACES SHALL BE PRESENT BETWEEN THE LINER AND THE SUBGRADE. GEOTEXTILE FABRIC MAY BE INSTALLED BETWEEN THE SUBGRADE AND THE LINER TO PROTECT THE LINER FROM SHARP AGGREGATE PRESENT IN THE SUBGRADE. ENGINEER SHALL INSPECT/APPROVE THE PREPARED BASIN SUBGRADE PRIOR TO THE INSTALLATION OF ANY OVERLYING GEOTEXTILE MATERIAL. SEE BIORETENTION SPECIFICATION.

**PLAN - OFFLINE CONFIGURATION**

**PLAN - ONLINE CONFIGURATION**

**CONSTRUCTION NOTES:**

- ALL MATERIAL AND WORKMANSHIP FOR CURB CUTS SHALL CONFORM TO SAN FRANCISCO STANDARD SPECIFICATIONS AND APPLICABLE CODES PER SAN FRANCISCO DBI AND PUBLIC WORKS.
- BOND NEW CURB AND GUTTER TO EXISTING CURB AND GUTTER WITH EPOXY AND DOWEL CONNECTION.
- MATCH GUTTER SLOPE UP AND DOWNSLOPE OF CURB CUT TO MATCH GUTTER SLOPE UP AND DOWNSLOPE OF CURB CUT UNLESS MODIFIED GUTTER.
- OUTLET CURB CUT WIDTH SHALL BE 18" ON GUTTER SLOPES ≥ 5%.

**GREEN INFRASTRUCTURE TYPICAL DETAILS**  
 SAN FRANCISCO PUBLIC UTILITIES COMMISSION  
 DATE: 01 JANUARY 2023  
 SHEET NO. 3.0  
 PROJECT: 3705 HAVEN AVENUE

**ROADSIDE PLANTER DESIGNER NOTES (1 OF 2)**  
**BP 1.1**

**PURPOSE:**  
 ROADSIDE BIORETENTION PLANTERS IN:  
 • CDS AREAS: CONTROL PEAK FLOWS AND VOLUMES OF STORMWATER RUNOFF BY PROVIDING SURFACE, SUBSURFACE STORAGE AND INFILTRATION INTO NATIVE SOIL.  
 • MSA AREAS: REMOVE POLLUTANTS OF CONCERN AS WATER FILTERS THROUGH BIORETENTION SOIL.

**DESIGNER NOTES & GUIDELINES:**

- THE DESIGNER MUST ADAPT PLAN AND SECTION DRAWINGS TO ADDRESS SITE-SPECIFIC CONDITIONS.
- PLANTER AREA, PONDING DEPTH, BIORETENTION SOIL DEPTH, AND AGGREGATE STORAGE DEPTH MUST BE SIZED TO MEET PROJECT HYDROLOGIC PERFORMANCE GOALS.
- PONDING AND BIORETENTION SOIL DRAWDOWN TIME (I.E., TIME FOR MAXIMUM SURFACE PONDING TO DRAIN THROUGH THE BIORETENTION SOIL AFTER THE END OF A STORM) REQUIREMENTS:
  - 3-12 HOUR PONDING AND BIORETENTION SOIL DRAWDOWN (TYPICAL)
  - 24 HOUR MAXIMUM PONDING AND BIORETENTION SOIL DRAWDOWN
- FACILITY DRAWDOWN TIME (I.E., TIME FOR SURFACE PONDING TO DRAIN THROUGH THE ENTIRE SECTION INCLUDING AGGREGATE STORAGE AFTER THE END OF A STORM) REQUIREMENTS:
  - 48 HOUR MAXIMUM FACILITY DRAWDOWN (I.E. ORIFICE CONTROLLED SYSTEM OR EXTENDED STORAGE DEPTH WITHIN INFILTRATION SYSTEM)
- AN AGGREGATE COURSE UNDER THE BIORETENTION SOIL IS REQUIRED FOR BIORETENTION IN SEPARATE SEWER SYSTEM AREAS. USE AGGREGATE COURSE WHERE REQUIRED (E.G., WITH UNDERDRAIN, FOR STORAGE, ETC.) FOR FACILITIES IN COMBINED SEWER SYSTEM AREAS.
- THE PLANTER WALL SLOPE IS TYPICALLY DESIGNED TO MATCH THE LONGITUDINAL SLOPE OF THE ADJACENT ROADWAYSIDEWALK. CHECK DAMS MAY BE USED FOR HIGHER SLOPED INSTALLATIONS TO TERRACE FACILITIES TO PROVIDE SUFFICIENT PONDING AND TO MINIMIZE LARGE ELEVATION DROPS FROM ADJACENT SURFACES. DESIGNER MUST SPECIFY CHECK DAM HEIGHT AND SPACING. REFER TO BC 6.1 AND BC 6.2 FOR GUIDANCE ON CHECK DAM DESIGN.
- THE DESIGN SHALL MINIMIZE THE HEIGHT OF EXPOSED PLANTER WALLS BETWEEN THE TOP OF SOIL AND TOP OF CURB WALL AND CONSIDER PEDESTRIAN AND VEHICLE SAFETY, ACCESSIBILITY REQUIREMENTS, AND OVERALL AESTHETICS. DEPENDING ON THE HEIGHT OF THE PROPOSED PLANTER WALL, ADDITIONAL STRUCTURAL CONSIDERATIONS MAY BE REQUIRED TO ADDRESS WALL LOADING. REFER TO BC 1.1 THROUGH BC 1.7 FOR GUIDANCE ON EDGE TREATMENTS.
- WHEN FACILITY CONSTRUCTION IMPACTS EXISTING SIDEWALK, ALL SAW CUTS MUST ADHERE TO SFPPC REQUIREMENTS. SAW CUTS SHOULD BE ALONG SCORE LINES AND ANY DISTURBED SIDEWALK FLAG SHOULD BE REPLACED IN THEIR ENTIRETY.
- BIORETENTION PLANTERS LOCATED IN PUBLIC ROW SHOULD BE DESIGNED WITH AN OFFLINE CONFIGURATION (I.E. NO OVERFLOW STRUCTURE TO SD LATERAL CURB CUTS SERVE AS INLET AND OVERFLOW TO GUTTER FLOW LINE). ONLINE BIORETENTION CONFIGURATION (I.E. OVERFLOW STRUCTURE WITHIN PLANTER TO SD LATERAL) REQUIRES SFPPC APPROVAL. HAND-PIPED DISCHARGE INTO ROW BIORETENTION PLANTERS MAY REQUIRE AN ONLINE CONFIGURATION.
- FOR APPROVED ONLINE CONFIGURATIONS: OVERFLOW STRUCTURE (MATERIAL AND WORKMANSHIP) SHALL CONFORM TO APPLICABLE CODES AND REQUIREMENTS. SIZE AND MODEL OF ATRIUM GRATE AT OVERFLOW TO BE DETERMINED BY ENGINEER TO ENSURE CONVEYANCE OF PEAK FLOW.
- PLANTER VEGETATION MUST BE SPECIFIED BY DESIGN PROFESSIONAL PER SFPPC VEGETATION PALLETTE.
- THE DESIGNER MUST EVALUATE UTILITY SURVEYS FOR POTENTIAL UTILITY CROSSINGS OR CONFLICTS. REFER TO GC 2.1 - GC 2.12 FOR UTILITY CROSSING DETAILS AND GC 3.1 - GC 3.4 FOR UTILITY CROSSING CONFLICT DETAILS.
- MINIMUM UTILITY SETBACKS AND PROTECTION MEASURES MUST CONFORM TO CURRENT UTILITY PROTECTION STANDARDS AND OTHER UTILITY PROVIDER REQUIREMENTS.

**RELATED COMPONENTS**

EDGE TREATMENTS:	BC 1.1	BC 1.7
INLETS:	BC 2.1	BC 2.4
OUTLETS:	BC 3.1	BC 3.4
AGGREGATE STORAGE:	BC 4.1	
UNDERDRAINS:	BC 5.1	BC 5.2
CHECK DAMS:	BC 6.1	BC 6.2
LINEARS:	GC 1.1	GC 1.2
UTILITY CROSSINGS:	GC 2.1	GC 2.12
UTILITY CONFLICTS:	GC 3.1	GC 3.4
OBSERVATION PORTS:	GC 4.1	GC 4.3
CLEANOUTS:	GC 5.1	

**RELATED SPECIFICATIONS**

BIORETENTION: BIORETENTION SOIL MIX	CS1 NO. 33-47-27
AGGREGATE STORAGE	
MULCH	
STREAMBED COBBLES	

**LAYOUT REQUIREMENTS:**

- REFER TO THE SAN FRANCISCO STANDARD ACCESSIBILITY REQUIREMENTS IN THE SAN FRANCISCO PUBLIC WORKS SIDEWALK LANDSCAPING REFERENCE DRAWINGS AND SPECIFICATIONS FOR COURTESY STRIP, THROUGHWAY, PARKING SPACE AND ACCESSIBLE PATH REQUIREMENTS.
- LOCATE CURB CUTS AND GUTTER MODIFICATIONS TO AVOID CONFLICTS WITH ACCESSIBILITY REQUIREMENTS (E.G. OVERLAPS SHALL DISCHARGE TO CURB OR INLET PRIOR TO CROSSING A CURB RAMP OR CROSSWALK).
- REFER TO SHEET GEN 0.2 AND APPENDIX C OF THE STORMWATER MANAGEMENT REQUIREMENTS FOR MORE DETAILED INFORMATION ON SITING AND DESIGN REQUIREMENTS FOR INFILTRATION-BASED BMPs.

**DESIGNER CHECKLIST (MUST SPECIFY, AS APPLICABLE):**

- PLANTER WIDTH AND LENGTH
- DEPTH OF PONDING
- DEPTH OF FREEBOARD
- DEPTH OF BIORETENTION SOIL
- DEPTH AND TYPE OF AGGREGATE STORAGE, IF ANY
- PLANTER SURFACE ELEVATION (TOP OF BIORETENTION SOIL) AT UPSLOPE AND DOWNSLOPE ENDS OF FACILITY (I.E., PROVIDE SPOTS AND/OR CONTOURS AS NEEDED).
- DEFINED SURVEY POINTS AT EVERY PLANTER WALL CORNER AND POINT OF TANGENCY
- HORIZONTAL CONTROL: DIMENSIONS AND DISTANCE TO EVERY INLET, OUTLET, CHECK DAM, SIDEWALK NOTCH, ETC.
- VERTICAL CONTROL: ELEVATIONS OF EVERY INLET, OUTLET, STRUCTURE RIM AND INVERT, CHECK DAM, PLANTER WALL CORNER, AND SIDEWALK NOTCH
- TYPE AND DESIGN OF PLANTER COMPONENTS (E.G. EDGE TREATMENTS, INLETS/GUTTER MODIFICATIONS, UTILITY CROSSINGS, LINER, AND PLANTING DETAILS)

**CONSTRUCTION NOTES:**

- CHECK DAMS SHALL BE SPACED TO PROVIDE PONDING PER SITE SPECIFIC DESIGN.
- LAY OUT DRAINAGE NOTCHES TO PREVENT PONDING BEHIND PLANTER WALL WITH 5' MAXIMUM SPACING BETWEEN NOTCHES.
- PROVIDE ONE CLEANOUT PER PLANTER (MIN) FOR FACILITIES WITH UNDERDRAINS.
- MINIMUM UTILITY SETBACKS AND PROTECTION MEASURES MUST CONFORM TO CURRENT SFPPC ASSET PROTECTION STANDARDS. COORDINATE WITH ENGINEER IN THE EVENT OF UTILITY CROSSING AND UTILITY CONFLICTS.
- PUBLIC ROW/SFPUC ASSETS SHALL BE OFFLINE CONFIGURATION. SEE BP 1.1.
- PRIVATE PARCEL: OFFLINE OR ONLINE CONFIGURATION ALLOWED.
- PRIOR TO PLACEMENT OF IMPERMEABLE LINER, THE SUBGRADE SHALL BE PREPARED AND CONTOURED AS NECESSARY TO PROVIDE A SMOOTH SURFACE. VOID OF SHARP ROCK/CORNERS. NO VOID SPACES SHALL BE PRESENT BETWEEN THE LINER AND THE SUBGRADE. GEOTEXTILE FABRIC MAY BE INSTALLED BETWEEN THE SUBGRADE AND THE LINER TO PROTECT THE LINER FROM SHARP AGGREGATE PRESENT IN THE SUBGRADE. ENGINEER SHALL INSPECT/APPROVE THE PREPARED BASIN SUBGRADE PRIOR TO THE INSTALLATION OF ANY OVERLYING GEOTEXTILE MATERIAL. SEE BIORETENTION SPECIFICATION.

**PLAN - OFFLINE CONFIGURATION**

**PLAN - ONLINE CONFIGURATION**

**CONSTRUCTION NOTES:**

- ALL MATERIAL AND WORKMANSHIP FOR CURB CUTS SHALL CONFORM TO SAN FRANCISCO STANDARD SPECIFICATIONS AND APPLICABLE CODES PER SAN FRANCISCO DBI AND PUBLIC WORKS.
- BOND NEW CURB AND GUTTER TO EXISTING CURB AND GUTTER WITH EPOXY AND DOWEL CONNECTION.
- MATCH GUTTER SLOPE UP AND DOWNSLOPE OF CURB CUT TO MATCH GUTTER SLOPE UP AND DOWNSLOPE OF CURB CUT UNLESS MODIFIED GUTTER.
- OUTLET CURB CUT WIDTH SHALL BE 18" ON GUTTER SLOPES ≥ 5%.

**GREEN INFRASTRUCTURE TYPICAL DETAILS**  
 SAN FRANCISCO PUBLIC UTILITIES COMMISSION  
 DATE: 01 JANUARY 2023  
 SHEET NO. 3.0  
 PROJECT: 3705 HAVEN AVENUE

**ROADSIDE PLANTER DESIGNER NOTES (2 OF 2)**  
**BP 1.2**

**PURPOSE:**  
 ROADSIDE BIORETENTION PLANTERS IN:  
 • CDS AREAS: CONTROL PEAK FLOWS AND VOLUMES OF STORMWATER RUNOFF BY PROVIDING SURFACE, SUBSURFACE STORAGE AND INFILTRATION INTO NATIVE SOIL.  
 • MSA AREAS: REMOVE POLLUTANTS OF CONCERN AS WATER FILTERS THROUGH BIORETENTION SOIL.

**DESIGNER NOTES & GUIDELINES:**

- THE DESIGNER MUST ADAPT PLAN AND SECTION DRAWINGS TO ADDRESS SITE-SPECIFIC CONDITIONS.
- PLANTER AREA, PONDING DEPTH, BIORETENTION SOIL DEPTH, AND AGGREGATE STORAGE DEPTH MUST BE SIZED TO MEET PROJECT HYDROLOGIC PERFORMANCE GOALS.
- PONDING AND BIORETENTION SOIL DRAWDOWN TIME (I.E., TIME FOR MAXIMUM SURFACE PONDING TO DRAIN THROUGH THE BIORETENTION SOIL AFTER THE END OF A STORM) REQUIREMENTS:
  - 3-12 HOUR PONDING AND BIORETENTION SOIL DRAWDOWN (TYPICAL)
  - 24 HOUR MAXIMUM PONDING AND BIORETENTION SOIL DRAWDOWN
- FACILITY DRAWDOWN TIME (I.E., TIME FOR SURFACE PONDING TO DRAIN THROUGH THE ENTIRE SECTION INCLUDING AGGREGATE STORAGE AFTER THE END OF A STORM) REQUIREMENTS:
  - 48 HOUR MAXIMUM FACILITY DRAWDOWN (I.E. ORIFICE CONTROLLED SYSTEM OR EXTENDED STORAGE DEPTH WITHIN INFILTRATION SYSTEM)
- AN AGGREGATE COURSE UNDER THE BIORETENTION SOIL IS REQUIRED FOR BIORETENTION IN SEPARATE SEWER SYSTEM AREAS. USE AGGREGATE COURSE WHERE REQUIRED (E.G., WITH UNDERDRAIN, FOR STORAGE, ETC.) FOR FACILITIES IN COMBINED SEWER SYSTEM AREAS.
- THE PLANTER WALL SLOPE IS TYPICALLY DESIGNED TO MATCH THE LONGITUDINAL SLOPE OF THE ADJACENT ROADWAYSIDEWALK. CHECK DAMS MAY BE USED FOR HIGHER SLOPED INSTALLATIONS TO TERRACE FACILITIES TO PROVIDE SUFFICIENT PONDING AND TO MINIMIZE LARGE ELEVATION DROPS FROM ADJACENT SURFACES. DESIGNER MUST SPECIFY CHECK DAM HEIGHT AND SPACING. REFER TO BC 6.1 AND BC 6.2 FOR GUIDANCE ON CHECK DAM DESIGN.
- THE DESIGN SHALL MINIMIZE THE HEIGHT OF EXPOSED PLANTER WALLS BETWEEN THE TOP OF SOIL AND TOP OF CURB WALL AND CONSIDER PEDESTRIAN AND VEHICLE SAFETY, ACCESSIBILITY REQUIREMENTS, AND OVERALL AESTHETICS. DEPENDING ON THE HEIGHT OF THE PROPOSED PLANTER WALL, ADDITIONAL STRUCTURAL CONSIDERATIONS MAY BE REQUIRED TO ADDRESS WALL LOADING. REFER TO BC 1.1 THROUGH BC 1.7 FOR GUIDANCE ON EDGE TREATMENTS.
- WHEN FACILITY CONSTRUCTION IMPACTS EXISTING SIDEWALK, ALL SAW CUTS MUST ADHERE TO SFPPC REQUIREMENTS. SAW CUTS SHOULD BE ALONG SCORE LINES AND ANY DISTURBED SIDEWALK FLAG SHOULD BE REPLACED IN THEIR ENTIRETY.
- BIORETENTION PLANTERS LOCATED IN PUBLIC ROW SHOULD BE DESIGNED WITH AN OFFLINE CONFIGURATION (I.E. NO OVERFLOW STRUCTURE TO SD LATERAL CURB CUTS SERVE AS INLET AND OVERFLOW TO GUTTER FLOW LINE). ONLINE BIORETENTION CONFIGURATION (I.E. OVERFLOW STRUCTURE WITHIN PLANTER TO SD LATERAL) REQUIRES SFPPC APPROVAL. HAND-PIPED DISCHARGE INTO ROW BIORETENTION PLANTERS MAY REQUIRE AN ONLINE CONFIGURATION.
- FOR APPROVED ONLINE CONFIGURATIONS: OVERFLOW STRUCTURE (MATERIAL AND WORKMANSHIP) SHALL CONFORM TO APPLICABLE CODES AND REQUIREMENTS. SIZE AND MODEL OF ATRIUM GRATE AT OVERFLOW TO BE DETERMINED BY ENGINEER TO ENSURE CONVEYANCE OF PEAK FLOW.
- PLANTER VEGETATION MUST BE SPECIFIED BY DESIGN PROFESSIONAL PER SFPPC VEGETATION PALLETTE.
- THE DESIGNER MUST EVALUATE UTILITY SURVEYS FOR POTENTIAL UTILITY CROSSINGS OR CONFLICTS. REFER TO GC 2.1 - GC 2.12 FOR UTILITY CROSSING DETAILS AND GC 3.1 - GC 3.4 FOR UTILITY CROSSING CONFLICT DETAILS.
- MINIMUM UTILITY SETBACKS AND PROTECTION MEASURES MUST CONFORM TO CURRENT UTILITY PROTECTION STANDARDS AND OTHER UTILITY PROVIDER REQUIREMENTS.

**RELATED COMPONENTS**

EDGE TREATMENTS:	BC 1.1	BC 1.7
INLETS:	BC 2.1	BC 2.4
OUTLETS:	BC 3.1	BC 3.4
AGGREGATE STORAGE:	BC 4.1	
UNDERDRAINS:	BC 5.1	BC 5.2
CHECK DAMS:	BC 6.1	BC 6.2
LINEARS:	GC 1.1	GC 1.2
UTILITY CROSSINGS:	GC 2.1	GC 2.12
UTILITY CONFLICTS:	GC 3.1	GC 3.4
OBSERVATION PORTS:	GC 4.1	GC 4.3
CLEANOUTS:	GC 5.1	

**RELATED SPECIFICATIONS**

BIORETENTION: BIORETENTION SOIL MIX	CS1 NO. 33-47-27
AGGREGATE STORAGE	
MULCH	
STREAMBED COBBLES	

**LAYOUT REQUIREMENTS:**

- REFER TO THE SAN FRANCISCO STANDARD ACCESSIBILITY REQUIREMENTS IN THE SAN FRANCISCO PUBLIC WORKS SIDEWALK LANDSCAPING REFERENCE DRAWINGS AND SPECIFICATIONS FOR COURTESY STRIP, THROUGHWAY, PARKING SPACE AND ACCESSIBLE PATH REQUIREMENTS.
- LOCATE CURB CUTS AND GUTTER MODIFICATIONS TO AVOID CONFLICTS WITH ACCESSIBILITY REQUIREMENTS (E.G. OVERLAPS SHALL DISCHARGE TO CURB OR INLET PRIOR TO CROSSING A CURB RAMP OR CROSSWALK).
- REFER TO SHEET GEN 0.2 AND APPENDIX C OF THE STORMWATER MANAGEMENT REQUIREMENTS FOR MORE DETAILED INFORMATION ON SITING AND DESIGN REQUIREMENTS FOR INFILTRATION-BASED BMPs.

**DESIGNER CHECKLIST (MUST SPECIFY, AS APPLICABLE):**

- PLANTER WIDTH AND LENGTH
- DEPTH OF PONDING
- DEPTH OF FREEBOARD
- DEPTH OF BIORETENTION SOIL
- DEPTH AND TYPE OF AGGREGATE STORAGE, IF ANY
- PLANTER SURFACE ELEVATION (TOP OF BIORETENTION SOIL) AT UPSLOPE AND DOWNSLOPE ENDS OF FACILITY (I.E., PROVIDE SPOTS AND/OR CONTOURS AS NEEDED).
- DEFINED SURVEY POINTS AT EVERY PLANTER WALL CORNER AND POINT OF TANGENCY
- HORIZONTAL CONTROL: DIMENSIONS AND DISTANCE TO EVERY INLET, OUTLET, CHECK DAM, SIDEWALK NOTCH, ETC.
- VERTICAL CONTROL: ELEVATIONS OF EVERY INLET, OUTLET, STRUCTURE RIM AND INVERT, CHECK DAM, PLANTER WALL CORNER, AND SIDEWALK NOTCH
- TYPE AND DESIGN OF PLANTER COMPONENTS (E.G. EDGE TREATMENTS, INLETS/GUTTER MODIFICATIONS, UTILITY CROSSINGS, LINER, AND PLANTING DETAILS)

**CONSTRUCTION NOTES:**

- CHECK DAMS SHALL BE SPACED TO PROVIDE PONDING PER SITE SPECIFIC DESIGN.
- LAY OUT DRAINAGE NOTCHES TO PREVENT PONDING BEHIND PLANTER WALL WITH 5' MAXIMUM SPACING BETWEEN NOTCHES.
- PROVIDE ONE CLEANOUT PER PLANTER (MIN) FOR FACILITIES WITH UNDERDRAINS.
- MINIMUM UTILITY SETBACKS AND PROTECTION MEASURES MUST CONFORM TO CURRENT SFPPC ASSET PROTECTION STANDARDS. COORDINATE WITH ENGINEER IN THE EVENT OF UTILITY CROSSING AND UTILITY CONFLICTS.
- PUBLIC ROW/SFPUC ASSETS SHALL BE OFFLINE CONFIGURATION. SEE BP 1.1.
- PRIVATE PARCEL: OFFLINE OR ONLINE CONFIGURATION ALLOWED.
- PRIOR TO PLACEMENT OF IMPERMEABLE LINER, THE SUBGRADE SHALL BE PREPARED AND CONTOURED AS NECESSARY TO PROVIDE A SMOOTH SURFACE. VOID OF SHARP ROCK/CORNERS. NO VOID SPACES SHALL BE PRESENT BETWEEN THE LINER AND THE SUBGRADE. GEOTEXTILE FABRIC MAY BE INSTALLED BETWEEN THE SUBGRADE AND THE LINER TO PROTECT THE LINER FROM SHARP AGGREGATE PRESENT IN THE SUBGRADE. ENGINEER SHALL INSPECT/APPROVE THE PREPARED BASIN SUBGRADE PRIOR TO THE INSTALLATION OF ANY OVERLYING GEOTEXTILE MATERIAL. SEE BIORETENTION SPECIFICATION.

**PLAN - OFFLINE CONFIGURATION**

**PLAN - ONLINE CONFIGURATION**

**CONSTRUCTION NOTES:**

- ALL MATERIAL AND WORKMANSHIP FOR CURB CUTS SHALL CONFORM TO SAN FRANCISCO STANDARD SPECIFICATIONS AND APPLICABLE CODES PER SAN FRANCISCO DBI AND PUBLIC WORKS.
- BOND NEW CURB AND GUTTER TO EXISTING CURB AND GUTTER WITH EPOXY AND DOWEL CONNECTION.
- MATCH GUTTER SLOPE UP AND DOWNSLOPE OF CURB CUT TO MATCH GUTTER SLOPE UP AND DOWNSLOPE OF CURB CUT UNLESS MODIFIED GUTTER.
- OUTLET CURB CUT WIDTH SHALL BE 18" ON GUTTER SLOPES ≥ 5%.

**GREEN INFRASTRUCTURE TYPICAL DETAILS**  
 SAN FRANCISCO PUBLIC UTILITIES COMMISSION  
 DATE: 01 JANUARY 2023  
 SHEET NO. 3.0  
 PROJECT: 3705 HAVEN AVENUE

**BIORETENTION PLANTER ROADSIDE PLANTER WITHOUT PARKING PLAN**  
**BP 3.1**

**PURPOSE:**  
 ROADSIDE BIORETENTION PLANTERS IN:  
 • CDS AREAS: CONTROL PEAK FLOWS AND VOLUMES OF STORMWATER RUNOFF BY PROVIDING SURFACE, SUBSURFACE STORAGE AND INFILTRATION INTO NATIVE SOIL.  
 • MSA AREAS: REMOVE POLLUTANTS OF CONCERN AS WATER FILTERS THROUGH BIORETENTION SOIL.

**DESIGNER NOTES & GUIDELINES:**

- THE DESIGNER MUST ADAPT PLAN AND SECTION DRAWINGS TO ADDRESS SITE-SPECIFIC CONDITIONS.
- PLANTER AREA, PONDING DEPTH, BIORETENTION SOIL DEPTH, AND AGGREGATE STORAGE DEPTH MUST BE SIZED TO MEET PROJECT HYDROLOGIC PERFORMANCE GOALS.
- PONDING AND BIORETENTION SOIL DRAWDOWN TIME (I.E., TIME FOR MAXIMUM SURFACE PONDING TO DRAIN THROUGH THE BIORETENTION SOIL AFTER THE END OF A STORM) REQUIREMENTS:
  - 3-12 HOUR PONDING AND BIORETENTION SOIL DRAWDOWN (TYPICAL)
  - 24 HOUR MAXIMUM PONDING AND BIORETENTION SOIL DRAWDOWN
- FACILITY DRAWDOWN TIME (I.E., TIME FOR SURFACE PONDING TO DRAIN THROUGH THE ENTIRE SECTION INCLUDING AGGREGATE STORAGE AFTER THE END OF A STORM) REQUIREMENTS:
  - 48 HOUR MAXIMUM FACILITY DRAWDOWN (I.E. ORIFICE CONTROLLED SYSTEM OR EXTENDED STORAGE DEPTH WITHIN INFILTRATION SYSTEM)
- AN AGGREGATE COURSE UNDER THE BIORETENTION SOIL IS REQUIRED FOR BIORETENTION IN SEPARATE SEWER SYSTEM AREAS. USE AGGREGATE COURSE WHERE REQUIRED (E.G., WITH UNDERDRAIN, FOR STORAGE, ETC.) FOR FACILITIES IN COMBINED SEWER SYSTEM AREAS.
- THE PLANTER WALL SLOPE IS TYPICALLY DESIGNED TO MATCH THE LONGITUDINAL SLOPE OF THE ADJACENT ROADWAYSIDEWALK. CHECK DAMS MAY BE USED FOR HIGHER SLOPED INSTALLATIONS TO TERRACE FACILITIES TO PROVIDE SUFFICIENT PONDING AND TO MINIMIZE LARGE ELEVATION DROPS FROM ADJACENT SURFACES. DESIGNER MUST SPECIFY CHECK DAM HEIGHT AND SPACING. REFER TO BC 6.1 AND BC 6.2 FOR GUIDANCE ON CHECK DAM DESIGN.
- THE DESIGN SHALL MINIMIZE THE HEIGHT OF EXPOSED PLANTER WALLS BETWEEN THE TOP OF SOIL AND TOP OF CURB WALL AND CONSIDER PEDESTRIAN AND VEHICLE SAFETY, ACCESSIBILITY REQUIREMENTS, AND OVERALL AESTHETICS. DEPENDING ON THE HEIGHT OF THE PROPOSED PLANTER WALL, ADDITIONAL STRUCTURAL CONSIDERATIONS MAY BE REQUIRED TO ADDRESS WALL LOADING. REFER TO BC 1.1 THROUGH BC 1.7 FOR GUIDANCE ON EDGE TREATMENTS.
- WHEN FACILITY CONSTRUCTION IMPACTS EXISTING SIDEWALK, ALL SAW CUTS MUST ADHERE TO SFPPC REQUIREMENTS. SAW CUTS SHOULD BE ALONG SCORE LINES AND ANY DISTURBED SIDEWALK FLAG SHOULD BE REPLACED IN THEIR ENTIRETY.
- BIORETENTION PLANTERS LOCATED IN PUBLIC ROW SHOULD BE DESIGNED WITH AN OFFLINE CONFIGURATION (I.E. NO OVERFLOW STRUCTURE TO SD LATERAL CURB CUTS SERVE AS INLET AND OVERFLOW TO GUTTER FLOW LINE). ONLINE BIORETENTION CONFIGURATION (I.E. OVERFLOW STRUCTURE WITHIN PLANTER TO SD LATERAL) REQUIRES SFPPC APPROVAL. HAND-PIPED DISCHARGE INTO ROW BIORETENTION PLANTERS MAY REQUIRE AN ONLINE CONFIGURATION.
- FOR APPROVED ONLINE CONFIGURATIONS: OVERFLOW STRUCTURE (MATERIAL AND WORKMANSHIP) SHALL CONFORM TO APPLICABLE CODES AND REQUIREMENTS. SIZE AND MODEL OF ATRIUM GRATE AT OVERFLOW TO BE DETERMINED BY ENGINEER TO ENSURE CONVEYANCE OF PEAK FLOW.
- PLANTER VEGETATION MUST BE SPECIFIED BY DESIGN PROFESSIONAL PER SFPPC VEGETATION PALLETTE.
- THE DESIGNER MUST EVALUATE UTILITY SURVEYS FOR POTENTIAL UTILITY CROSSINGS OR CONFLICTS. REFER TO GC 2.1 - GC 2.12 FOR UTILITY CROSSING DETAILS AND GC 3.1 - GC 3.4 FOR UTILITY CROSSING CONFLICT DETAILS.
- MINIMUM UTILITY SETBACKS AND PROTECTION MEASURES MUST CONFORM TO CURRENT UTILITY PROTECTION STANDARDS AND OTHER UTILITY PROVIDER REQUIREMENTS.

**RELATED COMPONENTS**

EDGE TREATMENTS:	BC 1.1	BC 1.7
INLETS:	BC 2.1	BC 2.4
OUTLETS:	BC 3.1	BC 3.4
AGGREGATE STORAGE:	BC 4.1	
UNDERDRAINS:	BC 5.1	BC 5.2
CHECK DAMS:	BC 6.1	BC 6.2
LINEARS:	GC 1.1	GC 1.2
UTILITY CROSSINGS:	GC 2.1	GC 2.12
UTILITY CONFLICTS:	GC 3.1	GC 3.4
OBSERVATION PORTS:	GC 4.1	GC 4.3
CLEANOUTS:	GC 5.1	

**RELATED SPECIFICATIONS**

BIORETENTION: BIORETENTION SOIL MIX	CS1 NO. 33-47-27
AGGREGATE STORAGE	
MULCH	
STREAMBED COBBLES	

**LAYOUT REQUIREMENTS:**

- REFER TO THE SAN FRANCISCO STANDARD ACCESSIBILITY REQUIREMENTS IN THE SAN FRANCISCO PUBLIC WORKS SIDEWALK LANDSCAPING REFERENCE DRAWINGS AND SPECIFICATIONS FOR COURTESY STRIP, THROUGHWAY, PARKING SPACE AND ACCESSIBLE PATH REQUIREMENTS.
- LOCATE CURB CUTS AND GUTTER MODIFICATIONS TO AVOID CONFLICTS WITH ACCESSIBILITY REQUIREMENTS (E.G. OVERLAPS SHALL DISCHARGE TO CURB OR INLET PRIOR TO CROSSING A CURB RAMP OR CROSSWALK).
- REFER TO SHEET GEN 0.2 AND APPENDIX C OF THE STORMWATER MANAGEMENT REQUIREMENTS FOR MORE DETAILED INFORMATION ON SITING AND DESIGN REQUIREMENTS FOR INFILTRATION-BASED BMPs.

**DESIGNER CHECKLIST (MUST SPECIFY, AS APPLICABLE):**

- PLANTER WIDTH AND LENGTH
- DEPTH OF PONDING
- DEPTH OF FREEBOARD
- DEPTH OF BIORETENTION SOIL
- DEPTH AND TYPE OF AGGREGATE STORAGE, IF ANY
- PLANTER SURFACE ELEVATION (TOP OF BIORETENTION SOIL) AT UPSLOPE AND DOWNSLOPE ENDS OF FACILITY (I.E., PROVIDE SPOTS AND/OR CONTOURS AS NEEDED).
- DEFINED SURVEY POINTS AT EVERY PLANTER WALL CORNER AND POINT OF TANGENCY
- HORIZONTAL CONTROL: DIMENSIONS AND DISTANCE TO EVERY INLET, OUTLET, CHECK DAM, SIDEWALK NOTCH, ETC.
- VERTICAL CONTROL: ELEVATIONS OF EVERY INLET, OUTLET, STRUCTURE RIM AND INVERT, CHECK DAM, PLANTER WALL CORNER, AND SIDEWALK NOTCH
- TYPE AND DESIGN OF PLANTER COMPONENTS (E.G. EDGE TREATMENTS, INLETS/GUTTER MODIFICATIONS, UTILITY CROSSINGS, LINER, AND PLANTING DETAILS)

**CONSTRUCTION NOTES:**

- CHECK DAMS SHALL BE SPACED TO PROVIDE PONDING PER SITE SPECIFIC DESIGN.
- LAY OUT DRAINAGE NOTCHES TO PREVENT PONDING BEHIND PLANTER WALL WITH 5' MAXIMUM SPACING BETWEEN NOTCHES.
- PROVIDE ONE CLEANOUT PER PLANTER (MIN) FOR FACILITIES WITH UNDERDRAINS.
- MINIMUM UTILITY SETBACKS AND PROTECTION MEASURES MUST CONFORM TO CURRENT SFPPC ASSET PROTECTION STANDARDS. COORDINATE WITH ENGINEER IN THE EVENT OF UTILITY CROSSING AND UTILITY CONFLICTS.
- PUBLIC ROW/SFPUC ASSETS SHALL BE OFFLINE CONFIGURATION. SEE BP 1.1.
- PRIVATE PARCEL: OFFLINE OR ONLINE CONFIGURATION ALLOWED.
- PRIOR TO PLACEMENT OF IMPERMEABLE LINER, THE SUBGRADE SHALL BE PREPARED AND CONTOURED AS NECESSARY TO PROVIDE A SMOOTH SURFACE. VOID OF SHARP ROCK/CORNERS. NO VOID SPACES SHALL BE PRESENT BETWEEN THE LINER AND THE SUBGRADE. GEOTEXTILE FABRIC MAY BE INSTALLED BETWEEN THE SUBGRADE AND THE LINER TO PROTECT THE LINER FROM SHARP AGGREGATE PRESENT IN THE SUBGRADE. ENGINEER SHALL INSPECT/APPROVE THE PREPARED BASIN SUBGRADE PRIOR TO THE INSTALLATION OF ANY OVERLYING GEOTEXTILE MATERIAL. SEE BIORETENTION SPECIFICATION.

**PLAN - OFFLINE CONFIGURATION**

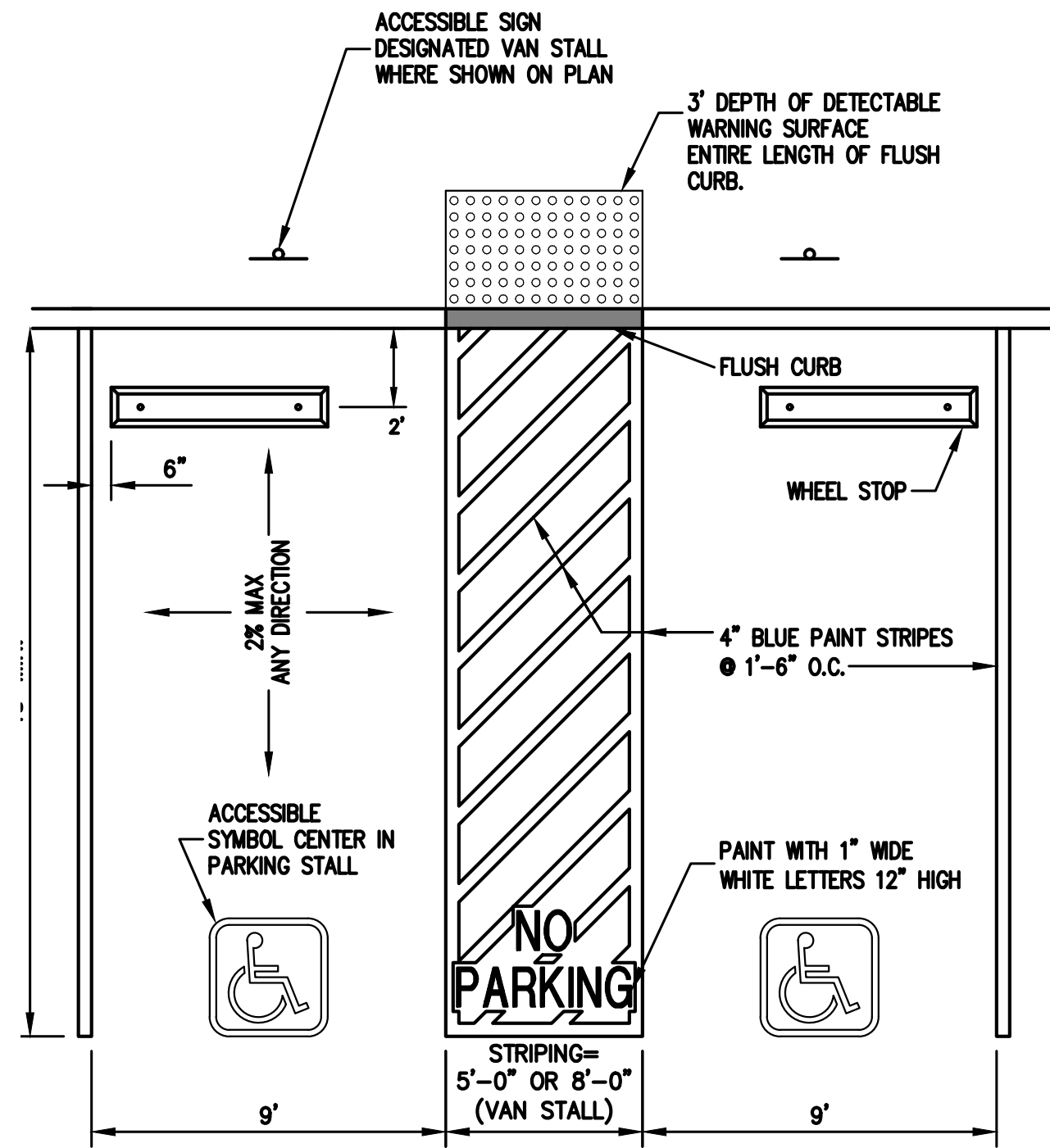
**PLAN - ONLINE CONFIGURATION**

**CONSTRUCTION NOTES:**

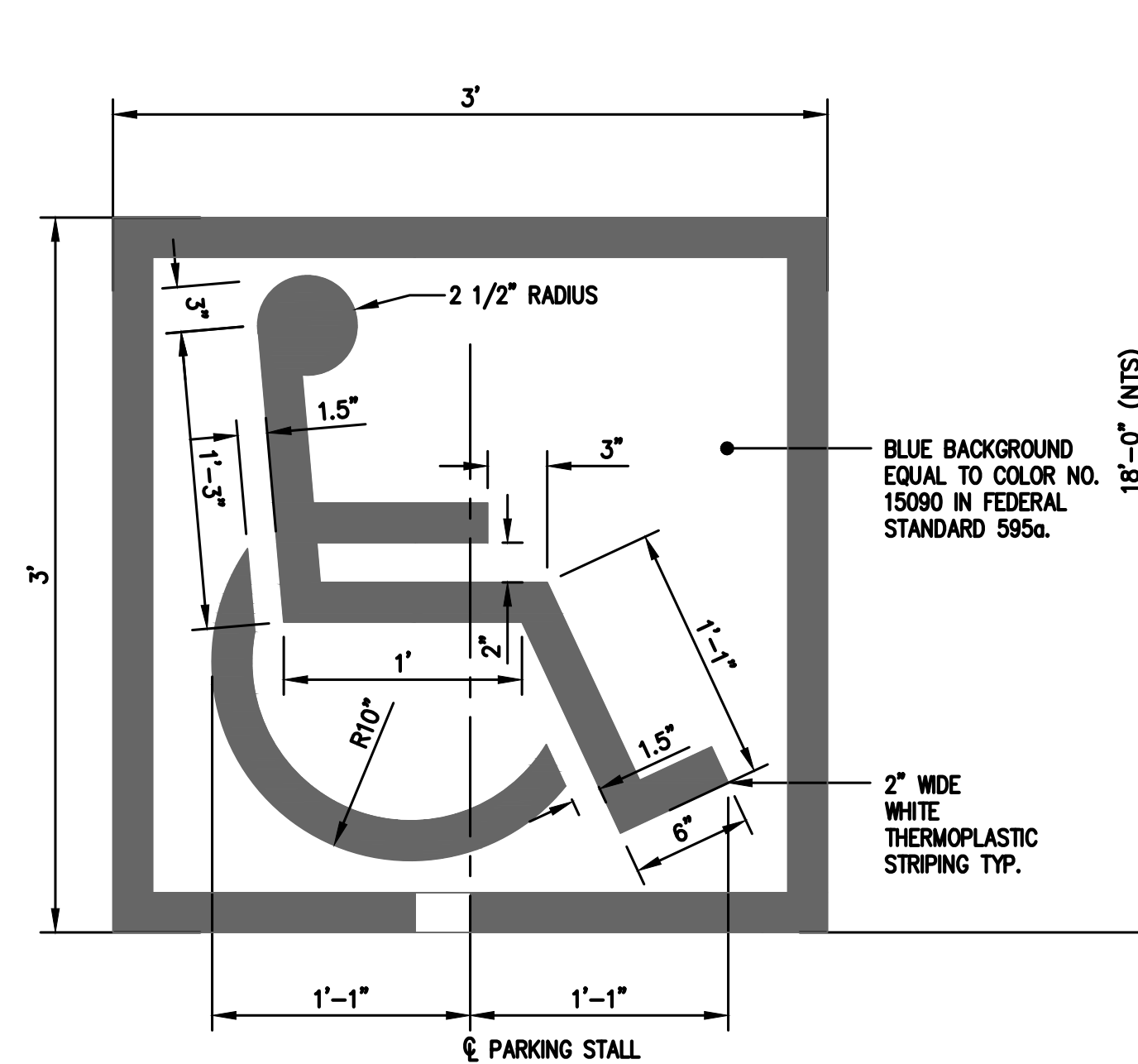
- ALL MATERIAL AND WORKMANSHIP FOR CURB CUTS SHALL CONFORM TO SAN FRANCISCO STANDARD SPECIFICATIONS AND APPLICABLE CODES PER SAN FRANCISCO DBI AND PUBLIC WORKS.
- BOND NEW CURB AND GUTTER TO EXISTING CURB AND GUTTER WITH EPOXY AND DOWEL CONNECTION.
- MATCH GUTTER SLOPE UP AND DOWNSLOPE OF CURB CUT TO MATCH GUTTER SLOPE UP AND DOWNSLOPE OF CURB CUT UNLESS MODIFIED GUTTER.
- OUTLET CURB CUT WIDTH SHALL BE 18" ON GUTTER SLOPES ≥ 5%.

**GREEN INFRASTRUCTURE TYPICAL DETAILS**  
 SAN FRANCISCO PUBLIC UTILITIES COMMISSION

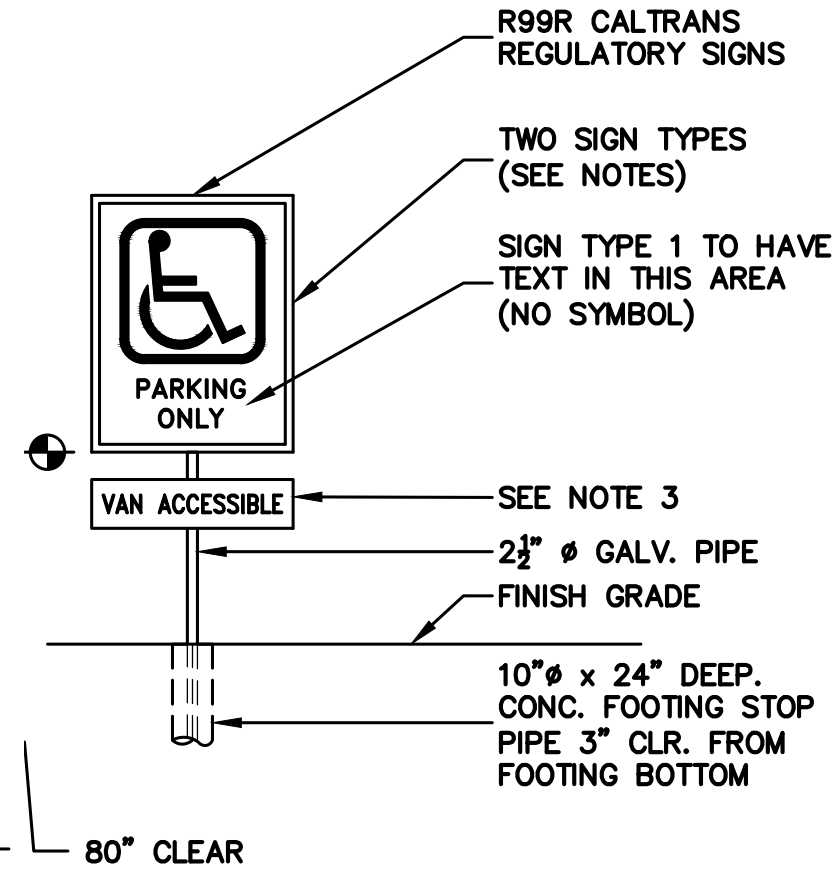




1 ACCESSIBLE STALL  
C-6.0 NTS



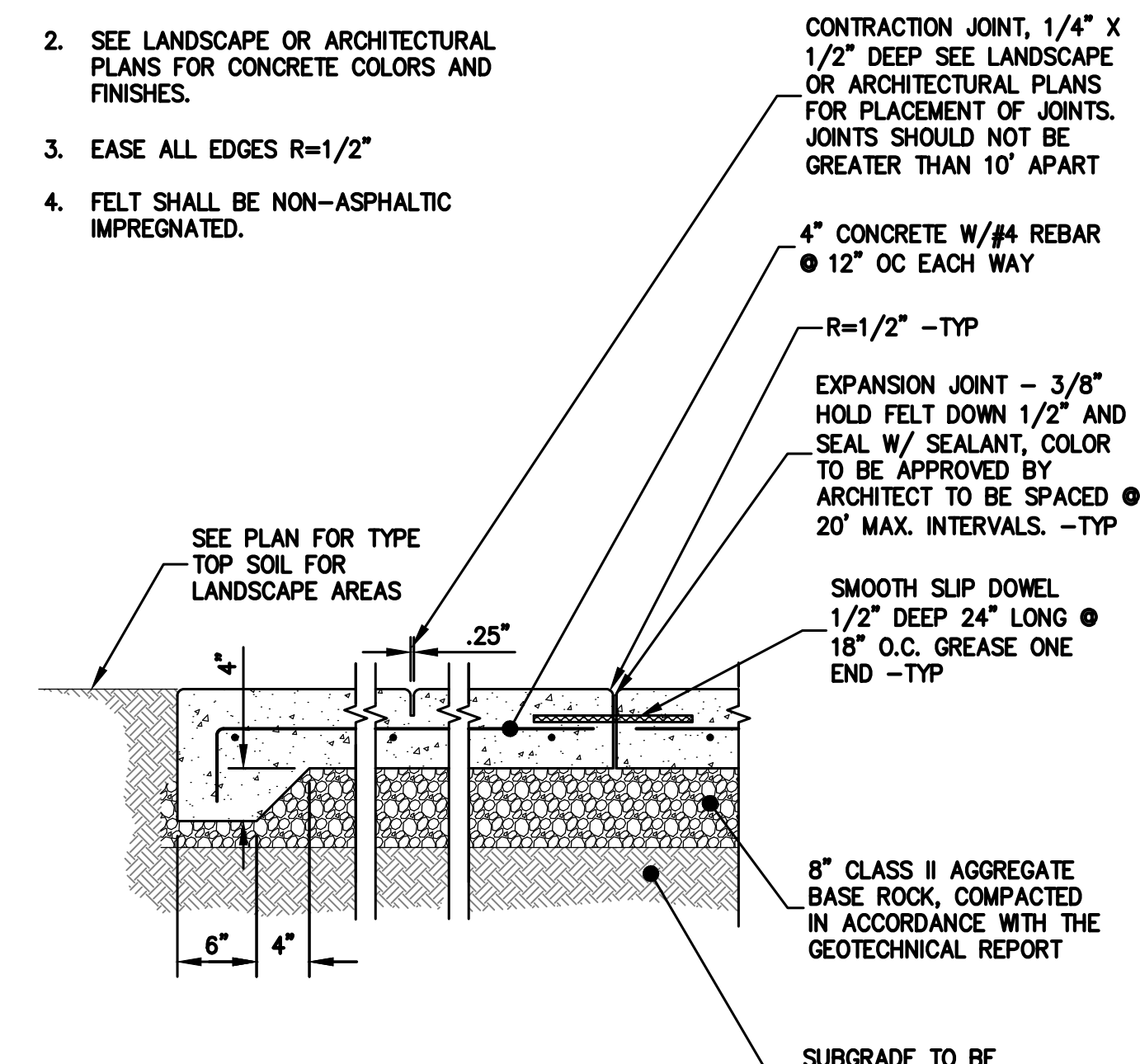
2 ACCESSIBLE PARKING SYMBOLS  
C-6.0 NTS



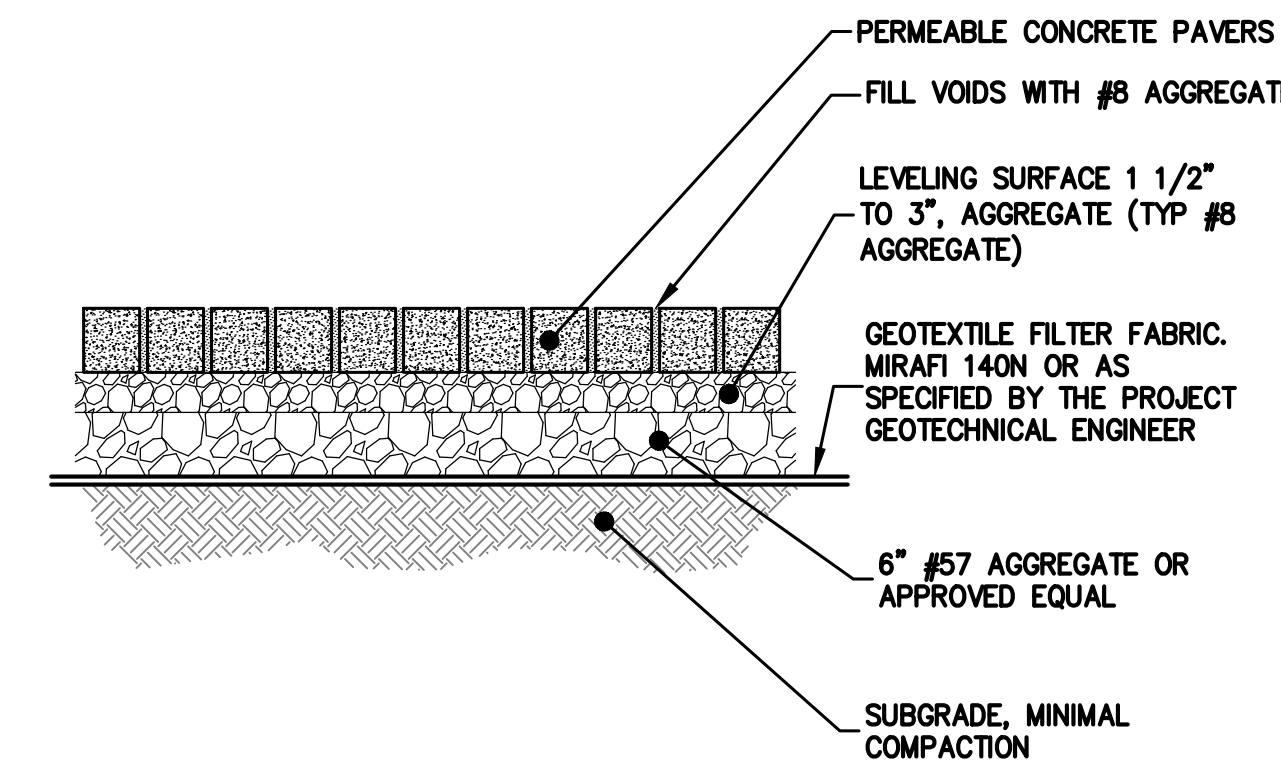
3 ACCESSIBLE PARKING SIGNAGE  
C-6.0 NTS

NOTES:

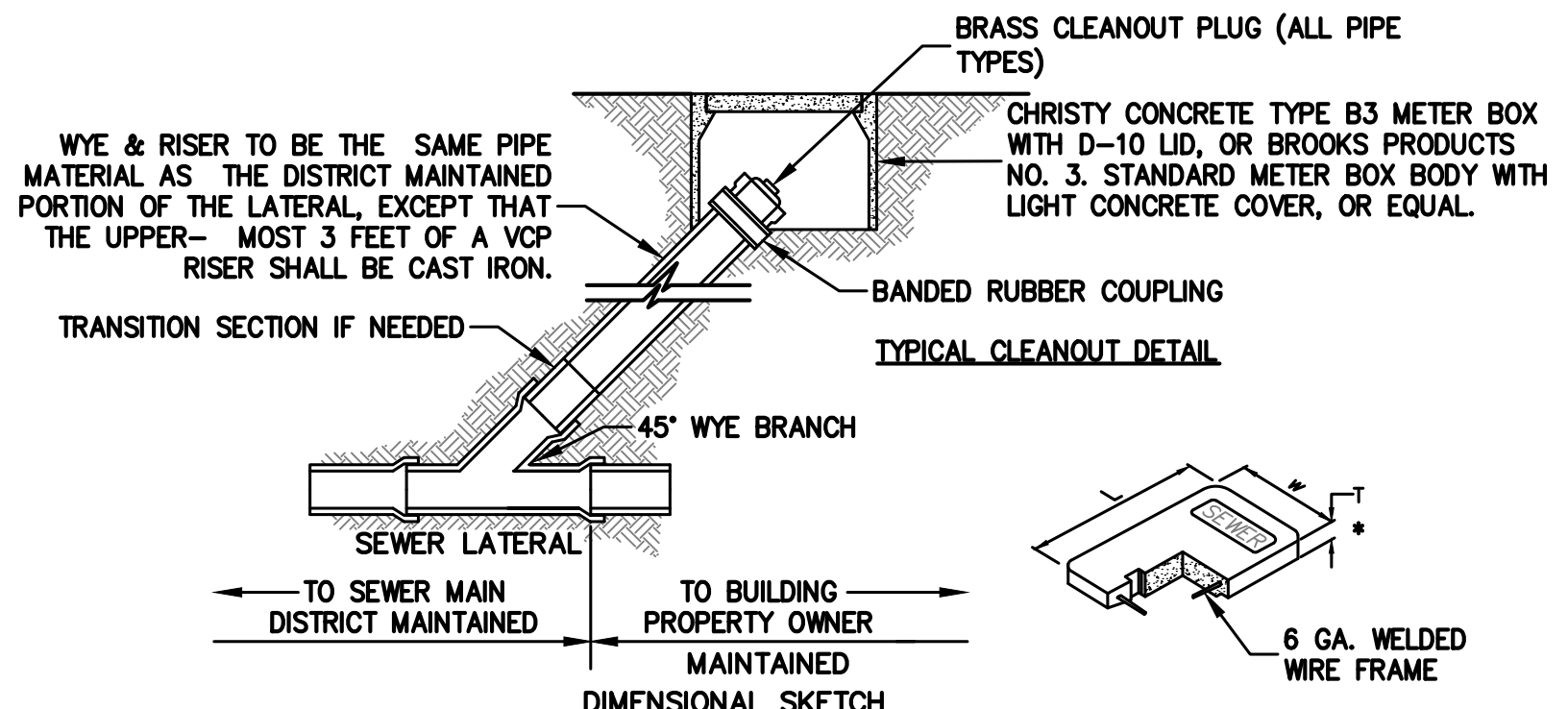
- SLOPE ALL CONCRETE TO DRAIN 1% MIN.
- SEE LANDSCAPE OR ARCHITECTURAL PLANS FOR CONCRETE COLORS AND FINISHES.
- EASE ALL EDGES R=1/2"
- FELT SHALL BE NON-ASPHALTIC IMPREGNATED.



4 CONCRETE PAVING  
C-6.0 NTS



5 PERMEABLE PAVERS  
C-6.0 NTS



LID DIMENSIONS

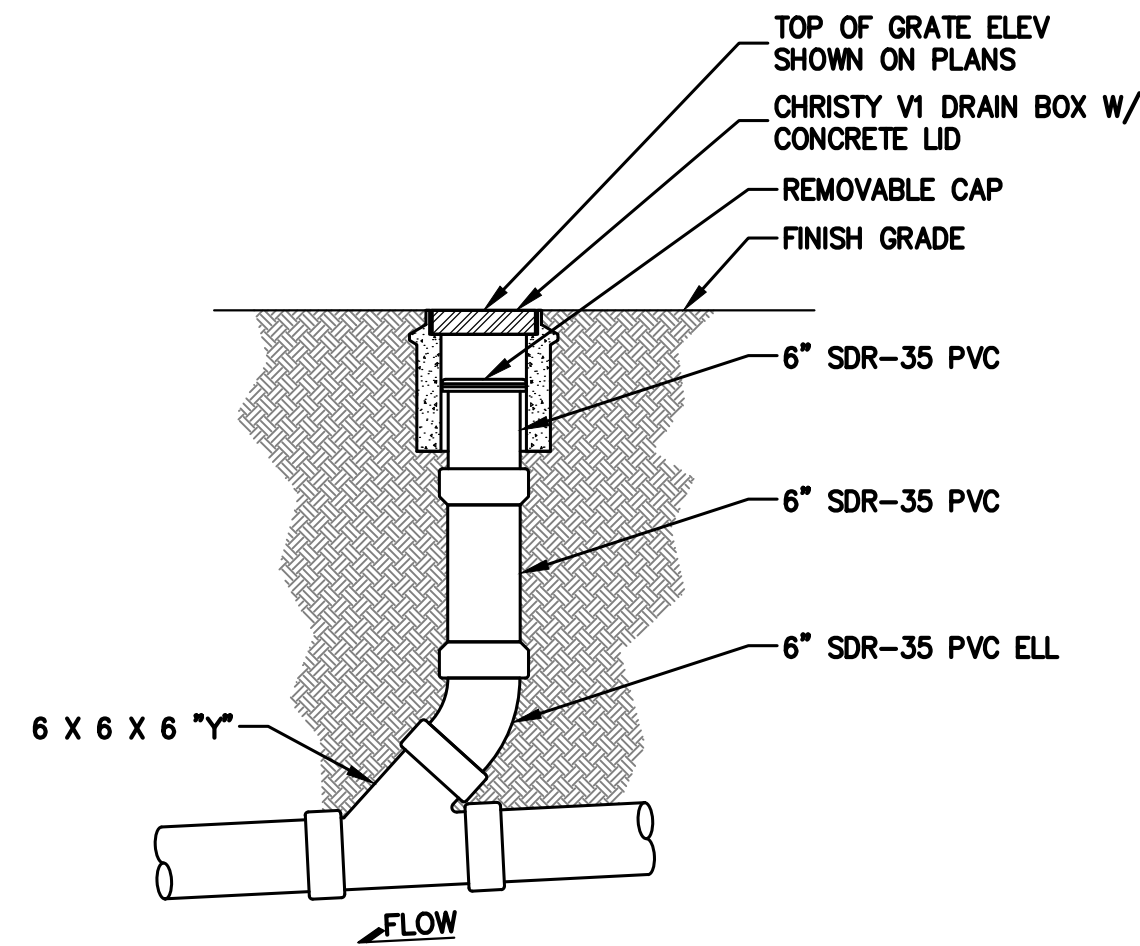
	L	W	T	WT
CHRISTY D-10	14 1/2"	8 11/16"	11/16"	7 LB
BROOKS #3 NS	14 1/2"	8 3/4"	1"	13 LB

\* PROVIDE STEEL TRAFFIC COVER FOR BOX WHEN INSTALLED IN LOCATION SUBJECT TO VEHICULAR LOADING

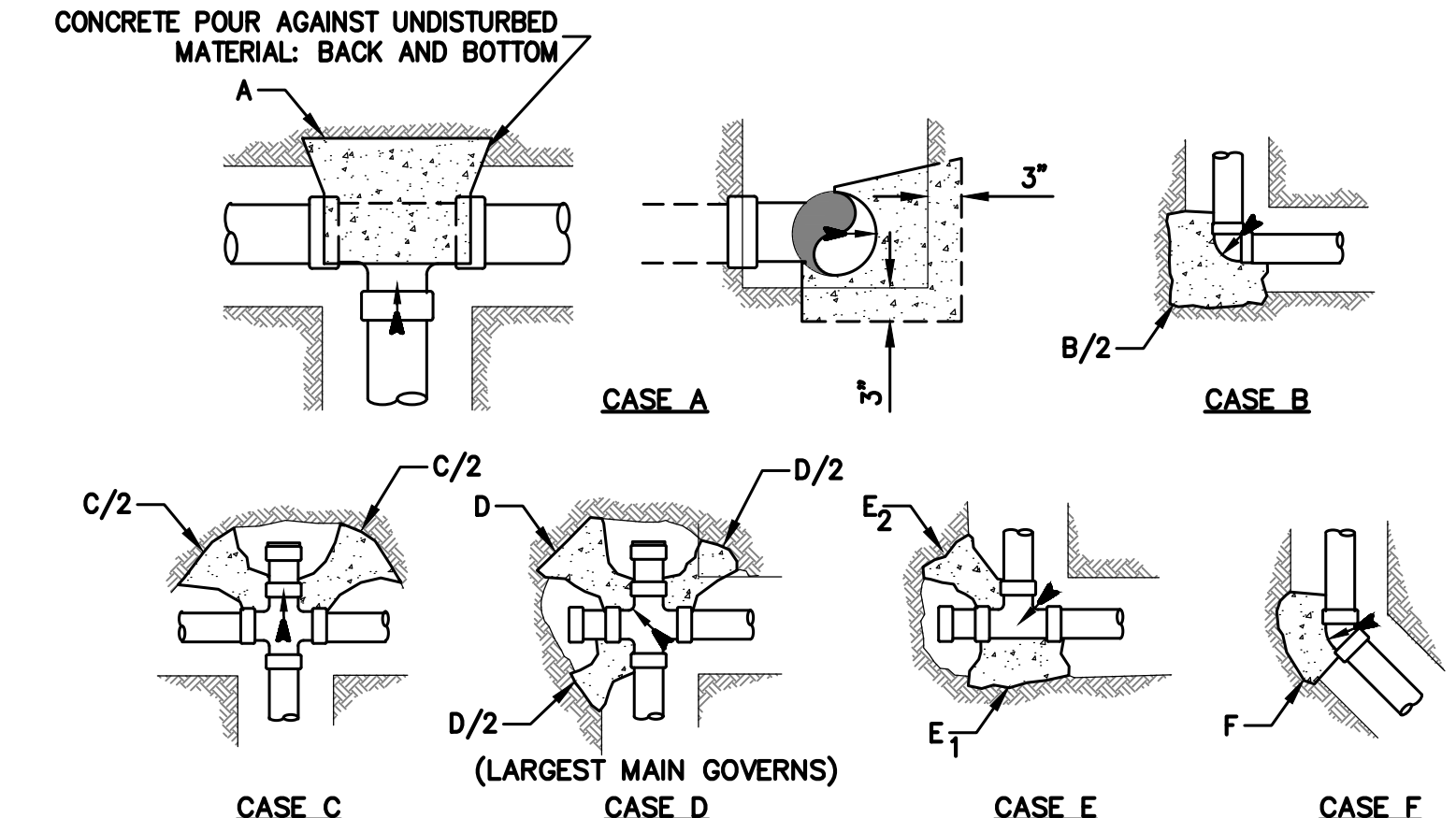
BOX DIMENSIONS

	A	B	C	D	E	F	G	H	I	APPROX WT. LBS.
CHRISTY B3	19"	14 13/16"	16 1/4"	13 1/4"	9"	9 7/8"	1"	12"	10 15/16"	59
BROOKS #3	19 1/8"	13 1/2"	16"	13 1/4"	7 5/8"	9 1/2"	1"	11"	N.A.	68

7 TYPICAL SEWER CLEANOUT BOX  
C-6.0 NTS



8 ON-SITE CLEANOUT  
C-6.0 NTS



REQUIRED BEARING AREAS-SQ.FT.

	A	B	C	D	E <sub>1</sub>	E <sub>2</sub>	F
4"	2	3	3	3	2	3	2
6"	5	6	7	7	5	7	4
8"	8	12	11	11	8	11	6
10"	12	18	17	17	12	17	8
12"	17	24	24	24	17	24	12

9 THRUST BLOCK DETAIL  
C-6.0 NTS



LEA & BRAZE ENGINEERING, INC.  
CIVIL ENGINEERS & LAND SURVEYORS  
REGIONAL OFFICES:  
DUBLIN, CALIFORNIA  
DUBLIN, CALIFORNIA  
SAN JOSE, CALIFORNIA  
WWW.LEABRAZE.COM

3705 HAVEN AVENUE  
MENLO PARK, CALIFORNIA  
SAN MATEO COUNTY  
APN: 055-170-240

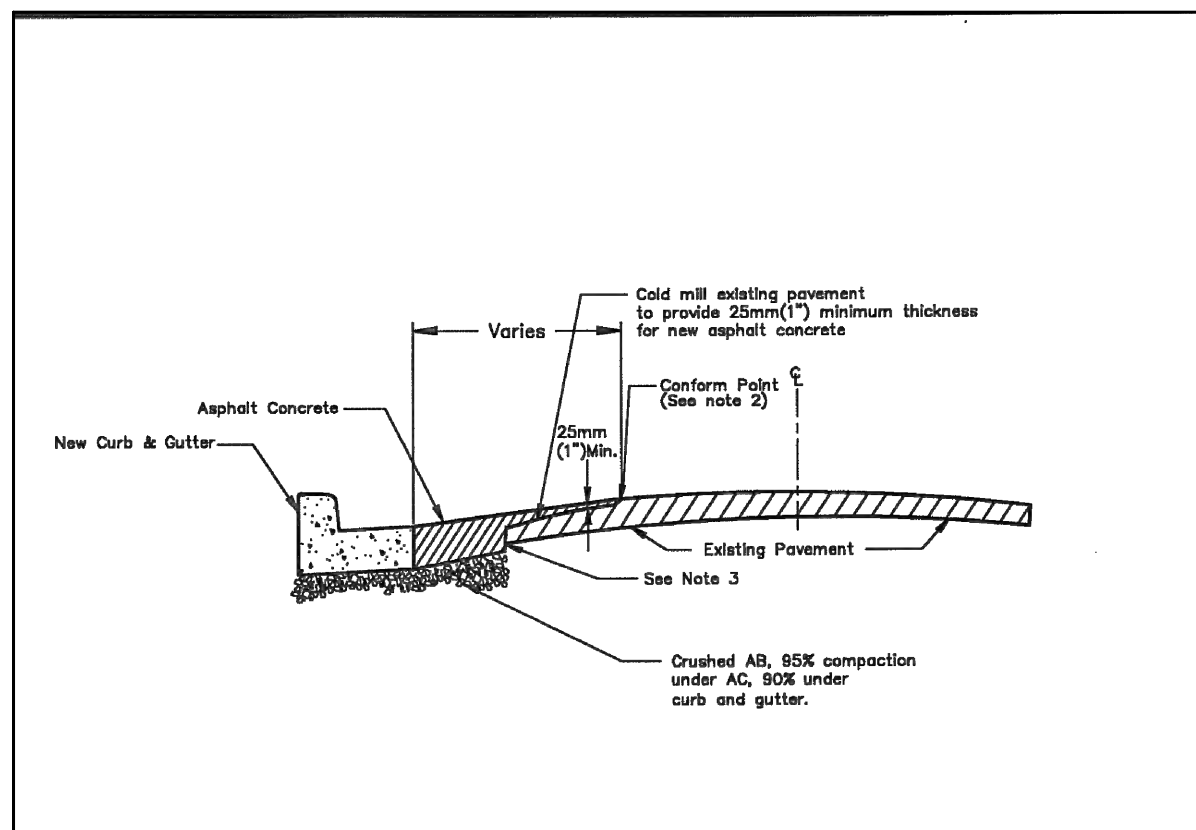
DETAILS

NO.	DESCRIPTION	DATE	BY
9	COMP REVIEW	07-16-24	VA
8	COMP REVIEW	05-31-24	VA
7	COMP REVIEW	03-21-24	VA
6	C3 PLN CHK	10-17-23	VA
5	C3 PLN CHK	10-04-23	VA

REVISIONS BY

JOB NO: 2220759  
DATE: 11-18-22  
SCALE: NTS  
DESIGN BY: VA  
CHECKED BY: JH/PC  
SHEET NO:





- NOTES:**
1. Tie-in pavement section shall be approved by the City Engineer.
  2. Conform point shall be determined by the City Engineer and may occur anywhere between the edge of pavement and the centerline.
  3. Tie-in asphalt concrete shall extend to at least the bottom of existing asphalt concrete unless otherwise approved by the City Engineer.
  4. Cross section slopes shall be per plans and specifications.
  5. AC mix shall be per plans and specifications.

All units are in metric  
Non-metric units in brackets

**CITY OF MENLO PARK STANDARD DETAILS**

NO. REVISIONS DATE

PAVEMENT TIE-IN

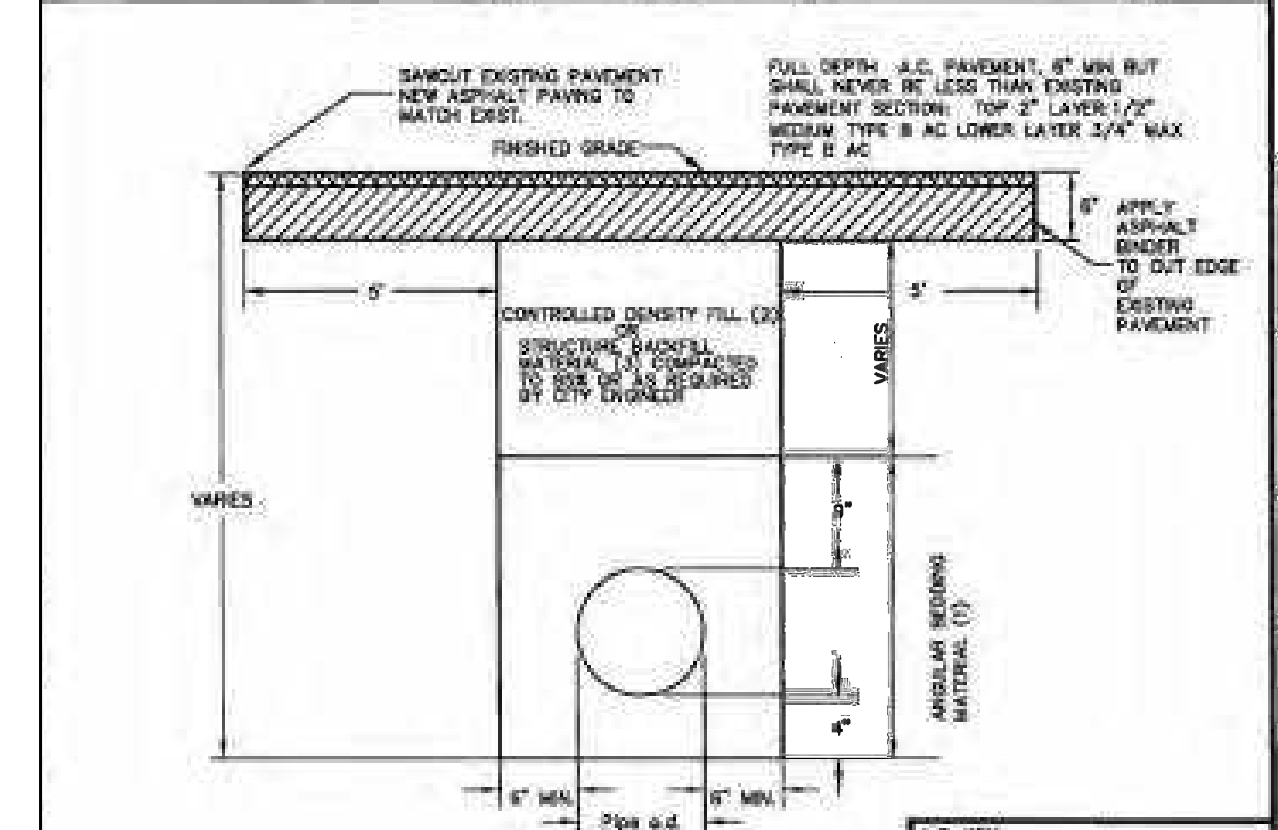
APPROVED: [Signature]

DATE: 1/1/97

SCALE: NTS

SHEET: 1 OF 1

STD. DETAIL No.: ST-1



- NOTES:**
1. CD DESIGN MIX FOR ANGLULAR BEDDING MATERIAL SHALL MEET THE FOLLOWING REQUIREMENTS:  
 SIEVE SIZE: 1" X PASSING: 100  
 3/4" 80-100  
 3/8" 50-70  
 #4 10-20  
 #10 5-10
  2. THE DESIGN FOR CD SHALL MEET THE FOLLOWING REQUIREMENTS:  
 CEMENT: 50-100 LB/CU YD  
 FLY ASH, CLASS F: 70-2000 LB/CU YD  
 FINE AGGREGATE: 2800-3100 LB/CU YD  
 WATER: 300-350 LB/CU YD  
 STRENGTH: 800 PSI
  3. STRUCTURE BACKFILL MATERIAL WITH SAND EQUIVALENT NOT LESS THAN 2% AND SIEVE GRADATION BY WEIGHT AS FOLLOWS:  
 SIEVE SIZE: 3/4" X PASSING: 100  
 NO. 4 10-20  
 NO. 10 5-10
  4. BACKFILL MATERIAL FOR LANDSCAPED AREAS: MATERIAL FROM EXCAVATION FREE FROM STONES OR LUMPS EXCEEDING 3". ORGANIC MATTER OR OTHER UNDESIRABLE MATERIAL. CONSTRUCTION OF UTILITY TRENCH TO 18" MAX. DEPTH. CONSTRUCTION SHALL PLACE SLURRY SEAL TO CONFORM TO CITY STANDARD ST-16.
  5. FINISHED GRADE TO MATCH EXISTING.
  6. SAND MATERIAL FREE FROM ORGANIC MATTER AND CLAY WITH A SIEVE GRADATION BY WEIGHT AS FOLLOWS:  
 SIEVE SIZE: #10 X PASSING: 100  
 NO. 4 10-20  
 NO. 10 5-10
  7. CUT EDGE OF EXISTING PAVEMENT SHALL NOT BE WITHIN THE WHEELTRACK. SEE ST-20 FOR WHEEL TRACK DIAGRAM.

**CITY OF MENLO PARK STANDARD DETAILS**

NO. REVISIONS DATE

UTILITY TRENCH

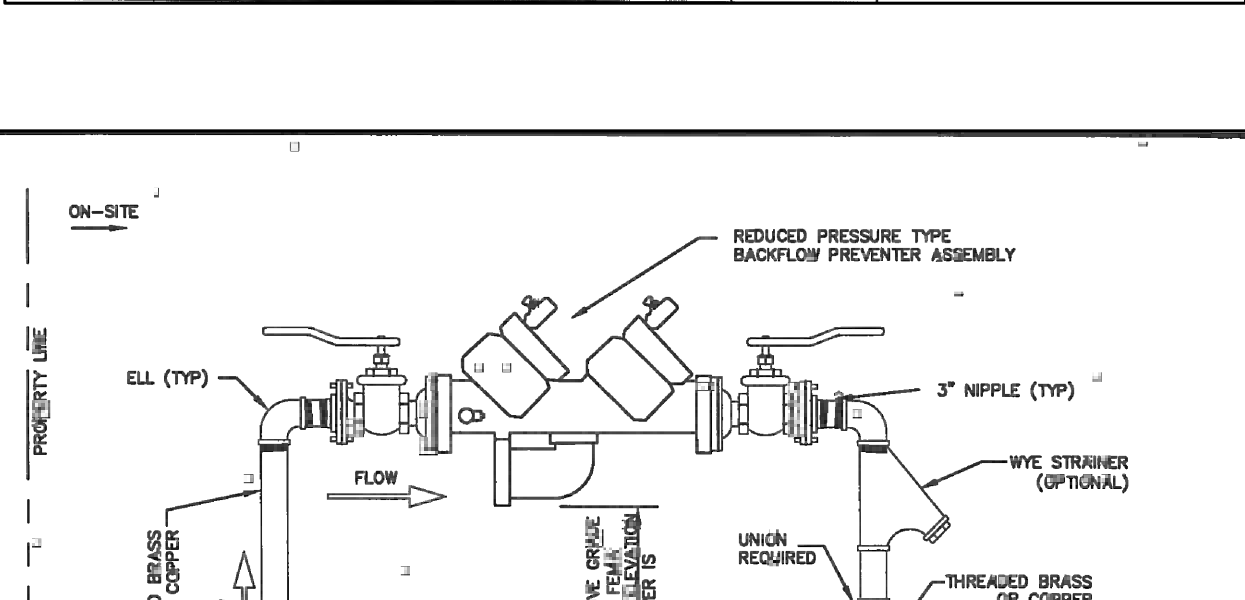
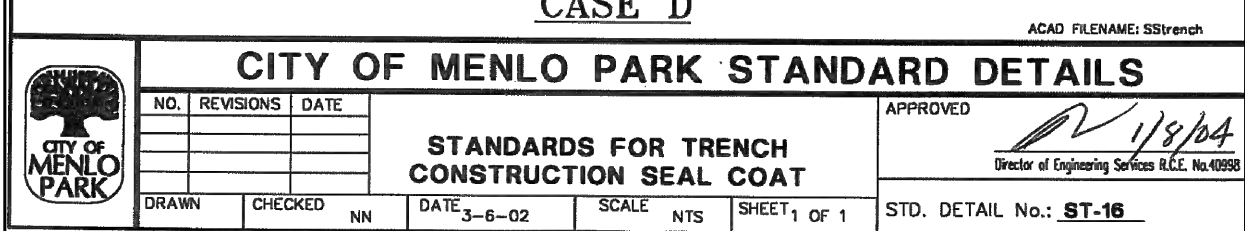
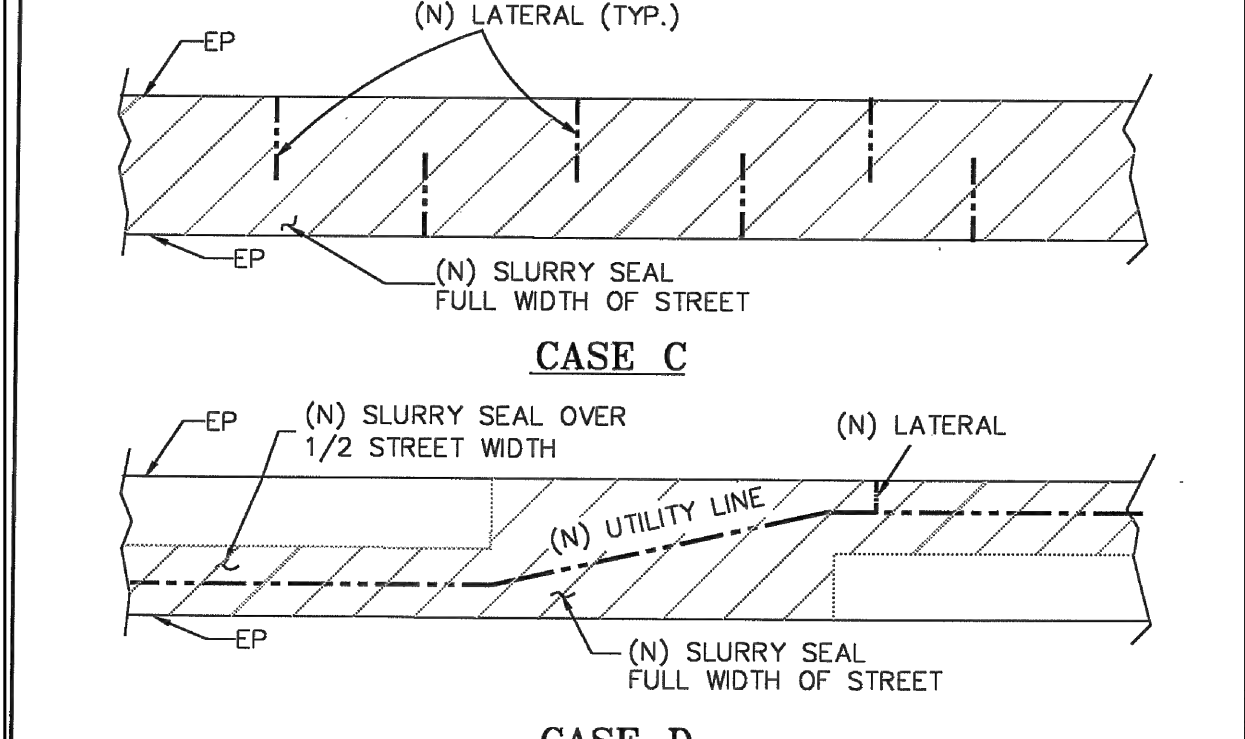
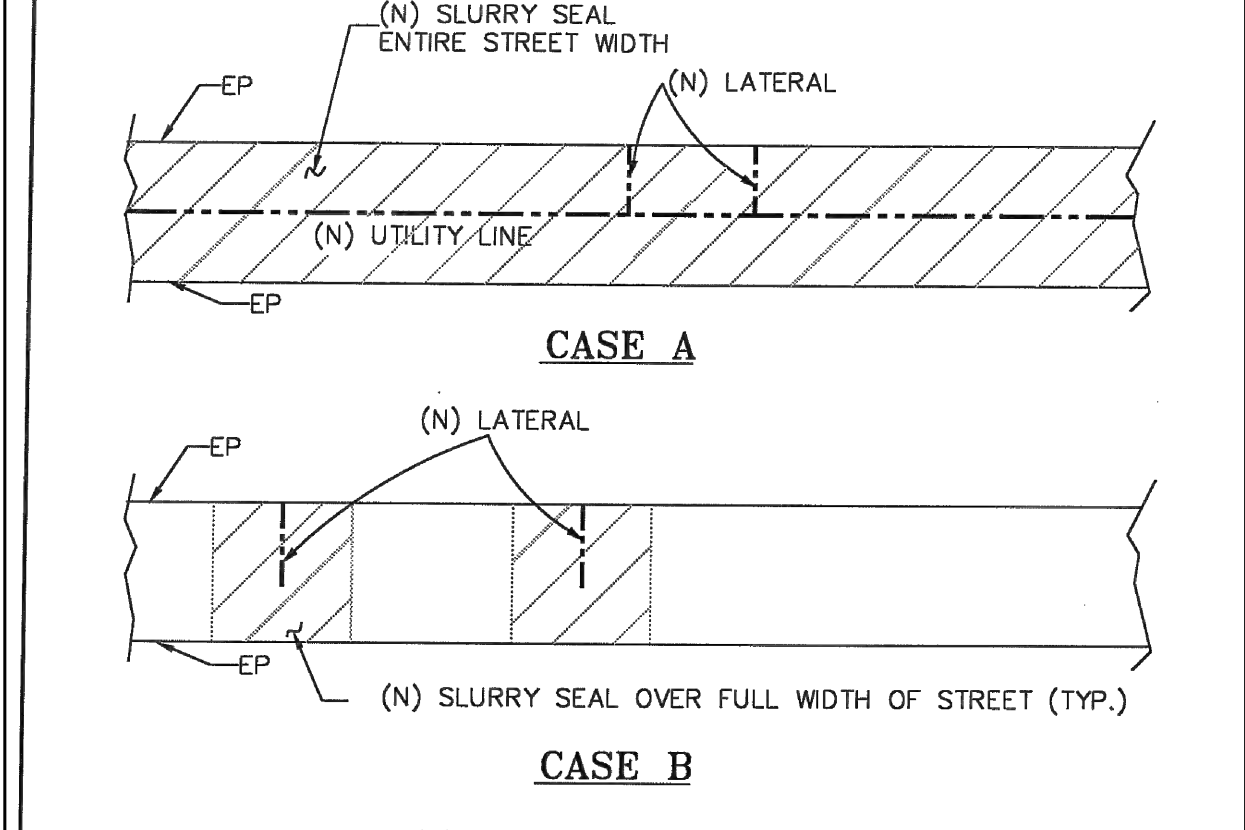
APPROVED: [Signature]

DATE: 2/2/12

SCALE: NTS

SHEET: 1 OF 1

STD. DETAIL No.: ST-3



- NOTES:**
1. SLURRY SEAL SHALL BE APPLIED TO FINISHED GRADE. FULL DEPTH A.C. PAVEMENT, 4" MIN. BUT SHALL NEVER BE LESS THAN EXISTING PAVEMENT SECTION: TOP 2" LAYER 1/2" MEDIUM TYPE B AC LOWER LAYER 3/4" MAX TYPE B AC.
  2. APPLY ASPHALT EMULSION UNDER TO CUT EDGE OF EXISTING PAVEMENT.
  3. A.C. KEY CUT AREA.
  4. CURB & GUTTER.
  5. SAND FILL FROM RESTORATION (NOT TO SCALE).

**CITY OF MENLO PARK STANDARD DETAILS**

NO. REVISIONS DATE

STANDARDS FOR TRENCH CONSTRUCTION SEAL COAT

APPROVED: [Signature]

DATE: 3-6-02

SCALE: NTS

SHEET: 1 OF 1

STD. DETAIL No.: ST-18

- STANDARDS FOR SYSTEM AND ALL SERVICE CONNECTIONS:**
1. NO DIRECT TAP. SERVICE CONNECTION SHALL BE WET TAP ONLY USING DOUBLE STRAPPED BRONZE SADDLE; WORK TO BE PERFORMED BY CONTRACTOR PRE-APPROVED BY THE CITY.
  2. FOR 3/4" AND 1" SERVICES, POLYETHYLENE TUBING (PE 3406) WITH MUELLER INSTA-TITE FITTINGS IS ALLOWED. SEE WA-17.
  3. FOR 3/4" TO 2" SERVICES, TYPE "K" SOFT COPPER TUBING (ASTM B-88-82) IS REQUIRED WITH FLARED OR PACKED JOINT COUPLING OR FLANGED COMPRESSION FITTINGS (NO SOLDERED JOINTS ARE ALLOWED).
  4. FOR 3" AND 4" SERVICES, USE C-900 PIPE WITH MEGALUG MECHANICAL JOINTS (SEE ITEM 8 BELOW) OR DUCTILE IRON PIPE WITH MECHANICAL OR FLANGED JOINTS. NO PUSH ON JOINTS ALLOWED. SEE WA-22.
  5. FOR FIRE SERVICE AND HYDRANT CONNECTIONS, CONTACT MENLO PARK FIRE PROTECTION DISTRICT FOR UNDERGROUND STANDARDS AND APPROVAL OF ONSITE DESIGN. SEE WA-6.
  6. RESURFACING AND BACKFILL IN THE PUBLIC RIGHT-OF-WAY SHALL CONFORM TO CITY OF MENLO PARK STANDARD DETAILS ST-8A, ST-8B, AND ST-16 OR AS DIRECTED BY ENGINEERING SERVICE MANAGER.
  7. USE FUSION EPOXY COATED (EXTERIOR AND INTERIOR) MUELLER FULL BODIED TAPPING SLEEVE #H-516. USE STAINLESS STEEL BOLTS, TRIM, AND SLEEVES. FOR AC PIPES USE STAINLESS STEEL SLEEVES.
  8. ALL BURIED FERROUS (IRON) FITTINGS AND VALVES SHALL BE FUSION EPOXY COATED (EXTERIOR AND INTERIOR) AND WRAPPED WITH SINGLE LAYER OF 8 MIL POLYETHYLENE COVERING, WITH ENDS TAPED.
  9. JOINTS SHALL BE MECHANICAL, FLANGED OR FLEX (NO PUSH ON JOINTS ALLOWED), JOINTS SHALL BE FUSION EPOXY COATED (EXTERIOR AND INTERIOR).
  10. 2" NUT MUELLER A-2360 RESILIENT WEDGE GATE VALVES SHALL BE FUSION EPOXY COATED (EXTERIOR AND INTERIOR).

- SPECIFIC STANDARDS FOR AREAS NORTH AND EAST (BAY SIDE) OF HIGHWAY 101 (CORROSIVE SOIL CONDITIONS):**
11. USE # 316 STAINLESS STEEL BOLTS, TRIM, AND SLEEVES, BOTH ABOVE AND BELOW GRADE.
  12. USE C-900, OR APPROVED EQUAL PVC (POLYVINYL CHLORIDE) PIPE, WITH #8 BLUE LOCATOR WIRE, SINGLE LENGTH WITH INSULATION TIGHT.

- SPECIFIC STANDARDS FOR AREAS SOUTH AND WEST (UP-HILL SIDE) OF HIGHWAY 101:**
13. USE #304 STAINLESS STEEL BOLTS, TRIM, AND SLEEVES BOTH ABOVE AND BELOW GRADE.
  14. USE DUCTILE IRON PIPE, WITH SINGLE LAYER OF 8 MIL POLYETHYLENE COVERING. (SEE CALIFORNIA CODE OF REGULATIONS, TITLE 22, § 64622 FOR MATERIAL STANDARDS).
  15. MASTIC COATING WITH DOUBLE WRAPPED 8 MIL POLYETHYLENE COVERING MAY BE USED UPON APPROVAL OF ENGINEERING SERVICE MANAGER.

**CITY OF MENLO PARK STANDARD DETAILS**

NO. REVISIONS DATE

WATER SERVICE AND SYSTEM STANDARDS

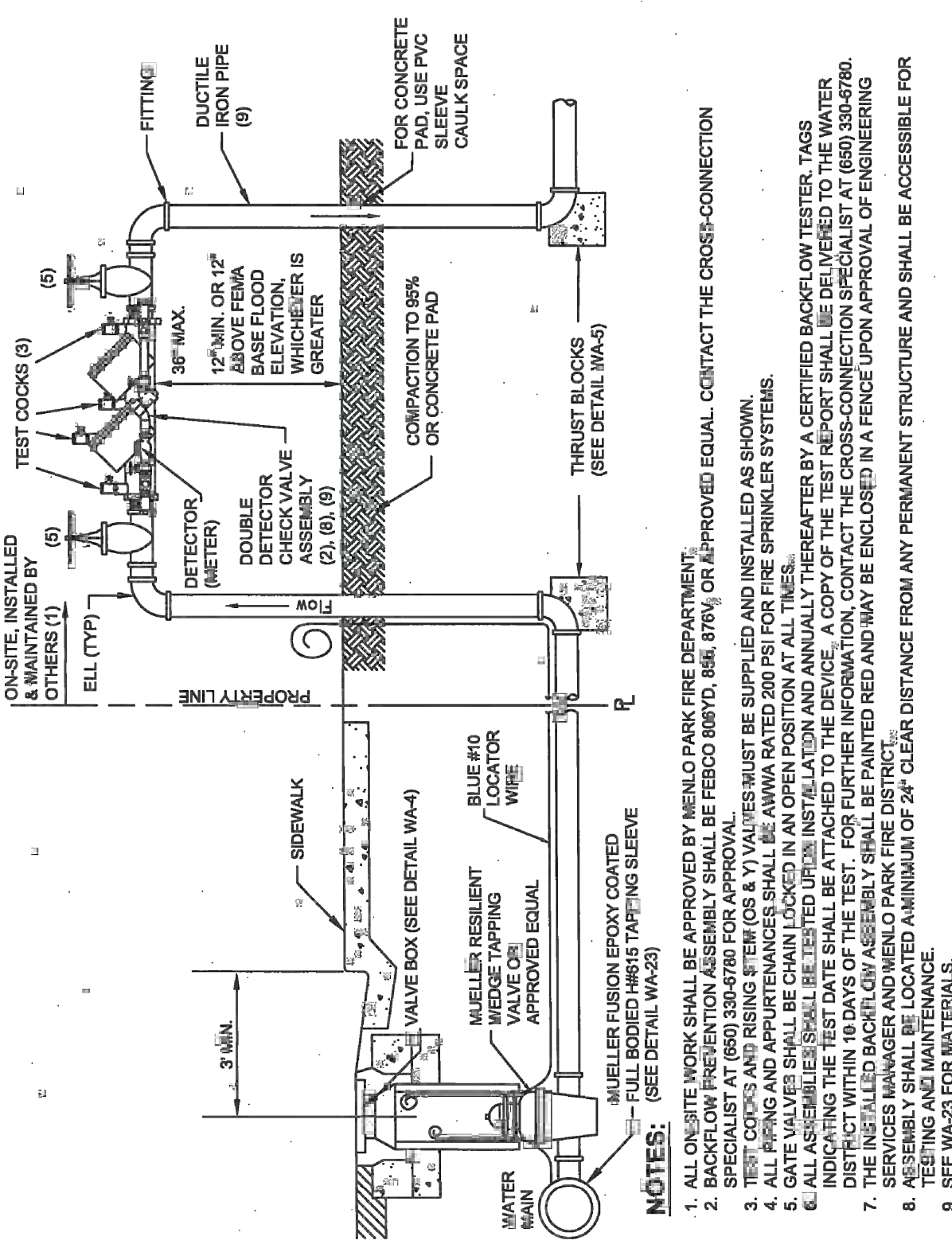
APPROVED: [Signature]

DATE: 2/14/12

SCALE: NTS

SHEET: 1 OF 1

STD. DETAIL No.: WA-23



- NOTES:**
1. ALL ON-SITE WORK SHALL BE APPROVED BY MENLO PARK FIRE DEPARTMENT.
  2. SPECIALIST AT (650) 330-6780 FOR APPROVAL.
  3. TEST COCKS AND RISING STEM (OS & Y) VALVES MUST BE SIZED AND INSTALLED AS SHOWN.
  4. ALL VALVES SHALL BE CHAIN LOCKED IN AN OPEN POSITION AT ALL TIMES.
  5. GATE VALVES SHALL BE CHAIN LOCKED IN AN OPEN POSITION AT ALL TIMES.
  6. ALL ASSEMBLIES SHALL BE TESTED UPON INSTALLATION AND ANNUALLY THEREAFTER BY A CERTIFIED BACKFLOW TESTER. TAGS INDICATING TEST DATE SHALL BE ATTACHED TO THE DEVICE. A COPY OF THE TEST REPORT SHALL BE DELIVERED TO THE WATER DISTRICT WITHIN 10 DAYS OF THE TEST. FOR FURTHER INFORMATION, CONTACT THE CROSS-CONNECTION SPECIALIST AT (650) 330-6780.
  7. THE INSTALLED BACKFLOW ASSEMBLY SHALL BE PAINTED RED AND MAY BE ENCLOSED IN A FENCE UPON APPROVAL OF ENGINEERING SERVICE MANAGER.
  8. ASSEMBLY SHALL BE LOCATED A MINIMUM OF 2' CLEAR DISTANCE FROM ANY PERMANENT STRUCTURE AND SHALL BE ACCESSIBLE FOR TESTING AND MAINTENANCE.
  9. MECHANICAL JOINT COUPLINGS AND CONNECTIONS REQUIRED (NO PUSH ON JOINTS ALLOWED).
  10. MECHANICAL OR FLANGED JOINTS, COUPLING AND CONNECTIONS REQUIRED; NO PUSH ON JOINTS ALLOWED.

**CITY OF MENLO PARK STANDARD DETAILS**

NO. REVISIONS DATE

BACKFLOW PREVENTION INSTALLATION FOR ON-SITE FIRE SERVICE

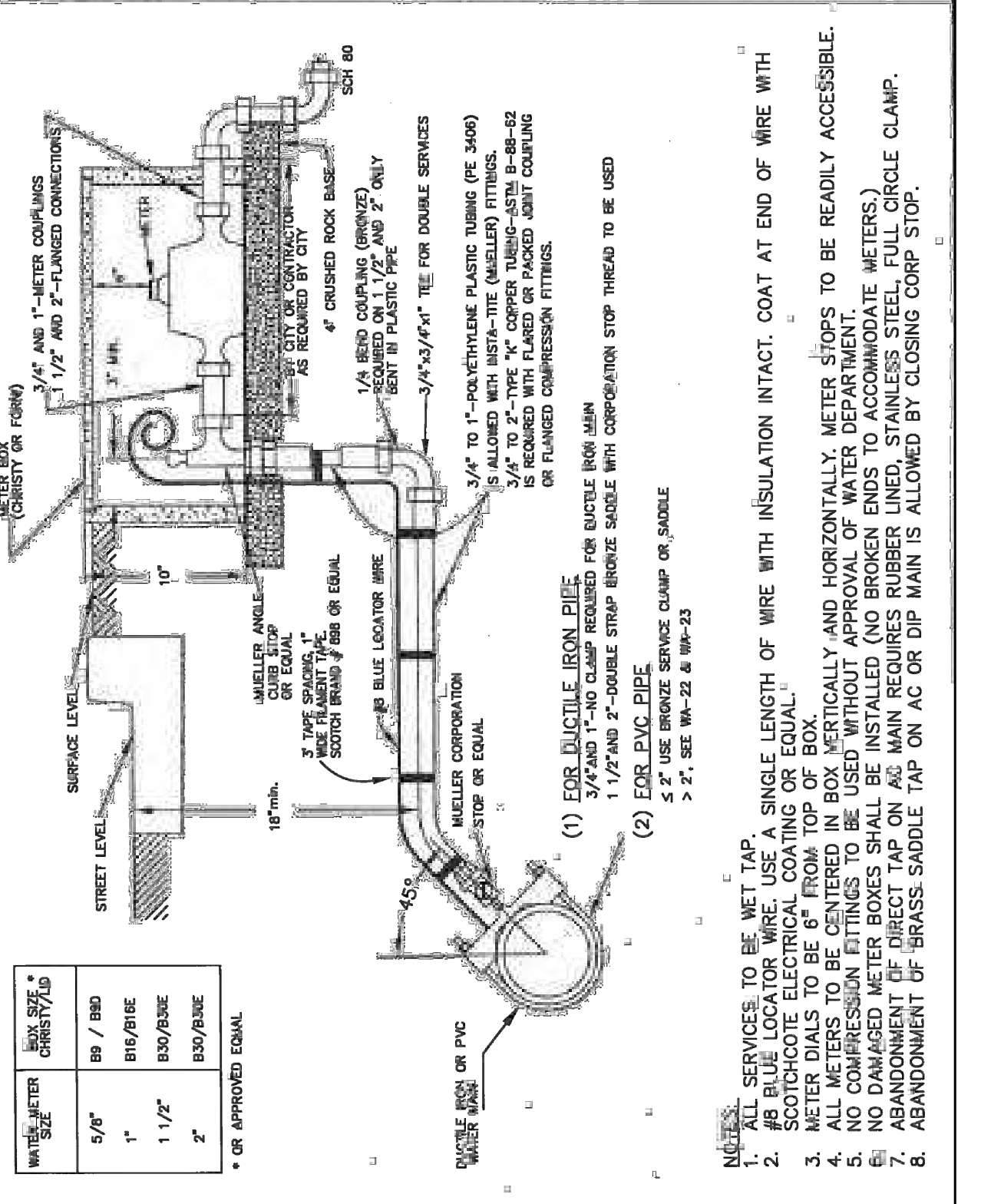
APPROVED: [Signature]

DATE: 2/14/12

SCALE: NTS

SHEET: 1 OF 1

STD. DETAIL No.: WA-6



- NOTES:**
1. SERVICES TO BE WET TAP.
  2. AS BLUE LOCATOR WIRE USE A SINGLE LENGTH OF WIRE WITH INSULATION INTACT. COAT AT END OF WIRE WITH SCOTCHCOE ELECTRICAL COATING OR EQUAL.
  3. METER DIALS TO BE 6" FROM TOP OF BOX.
  4. ALL VALVES SHALL BE CHAIN LOCKED IN AN OPEN POSITION AT ALL TIMES.
  5. NO COMPRESSION FITTINGS TO BE USED WITHOUT APPROVAL OF WATER DEPARTMENT.
  6. UNDAMAGED METER BOXES SHALL BE INSTALLED (NO BROKEN ENDS TO ACCOMMODATE METERS).
  7. ABANDONMENT OF DIRECT TAP ON AC MAIN REQUIRES RUBBER LINED, STAINLESS STEEL FULL CIRCLE CLAMP.
  8. ABANDONMENT OF BRASS SADDLE TAP ON AC OR DP MAIN IS ALLOWED BY CLOSING COMP STOP.

**CITY OF MENLO PARK STANDARD DETAILS**

NO. REVISIONS DATE

1" AND 2" STANDARD WATER SERVICE

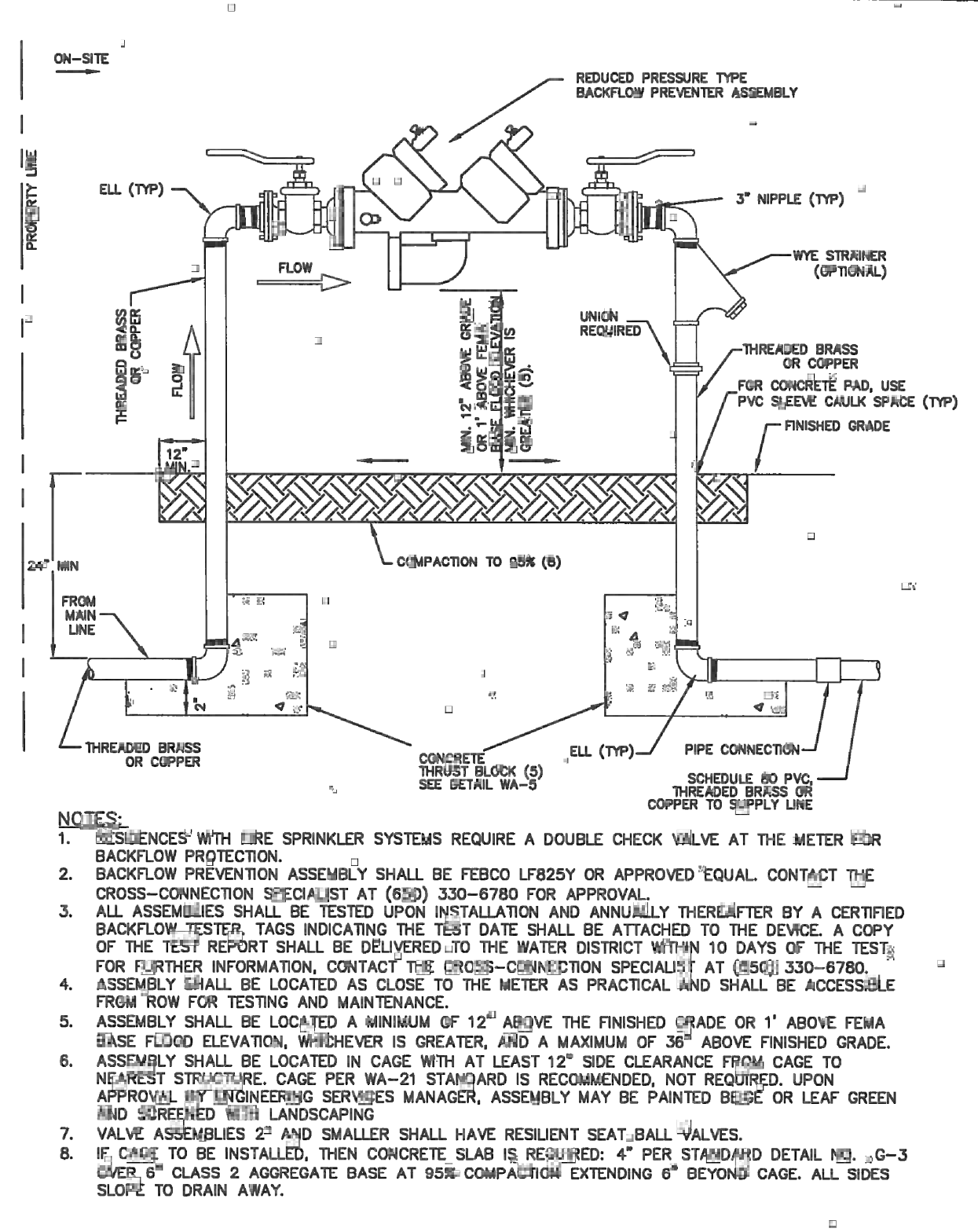
APPROVED: [Signature]

DATE: 2/14/12

SCALE: NTS

SHEET: 1 OF 1

STD. DETAIL No.: WA-17



- NOTES:**
1. RESIDENCES WITH FIRE SPRINKLER SYSTEMS REQUIRE A DOUBLE CHECK VALVE AT THE METER FOR BACKFLOW PROTECTION.
  2. BACKFLOW PREVENTION ASSEMBLY SHALL BE FEBO LF282Y OR APPROVED EQUAL. CONTACT THE CROSS-CONNECTION SPECIALIST AT (650) 330-6780 FOR APPROVAL.
  3. ALL ASSEMBLIES SHALL BE TESTED UPON INSTALLATION AND ANNUALLY THEREAFTER BY A CERTIFIED BACKFLOW TESTER. TAGS INDICATING TEST DATE SHALL BE ATTACHED TO THE DEVICE. A COPY OF THE TEST REPORT SHALL BE DELIVERED TO THE WATER DISTRICT WITHIN 10 DAYS OF THE TEST. FOR FURTHER INFORMATION, CONTACT THE CROSS-CONNECTION SPECIALIST AT (650) 330-6780.
  4. ASSEMBLY SHALL BE LOCATED AS CLOSE TO THE METER AS PRACTICAL AND SHALL BE ACCESSIBLE FROM ROW FOR TESTING AND MAINTENANCE.
  5. ASSEMBLY SHALL BE LOCATED A MINIMUM OF 12" ABOVE THE FINISHED GRADE OR 1" ABOVE FEMA BASE FLOOD ELEVATION, WHICHEVER IS GREATER, AND A MAXIMUM OF 36" ABOVE FINISHED GRADE.
  6. ASSEMBLY SHALL BE LOCATED IN CASE WITH AT LEAST 12" SIDE CLEARANCE FROM CASE TO NEAREST STRUCTURE. CASE PER WA-21 STANDARD IS RECOMMENDED, NOT REQUIRED, UPON APPROVAL BY ENGINEERING SERVICE MANAGER. ASSEMBLY MAY BE PAINTED BEIGE OR LEAF GREEN AND SCREENED WITH LANDSCAPING.
  7. VALVE ASSEMBLIES 2" AND SMALLER SHALL HAVE RESILIENT SEAT-BALL VALVES.
  8. IF CASE TO BE INSTALLED, THEN CONCRETE SLAB IS REQUIRED: 4" PER STANDARD DETAIL NO. 0-3 OVER # 2 CLASS 2 AGGREGATE BASE AT 95% COMPACTION EXTENDING 6" BEYOND CASE. ALL SIDES SLOPE TO DRAIN AWAY.

**CITY OF MENLO PARK STANDARD DETAILS**

NO. REVISIONS DATE

BACKFLOW PREVENTION ASSEMBLY INSTALLATION AT THE METER FOR 2" AND SMALLER

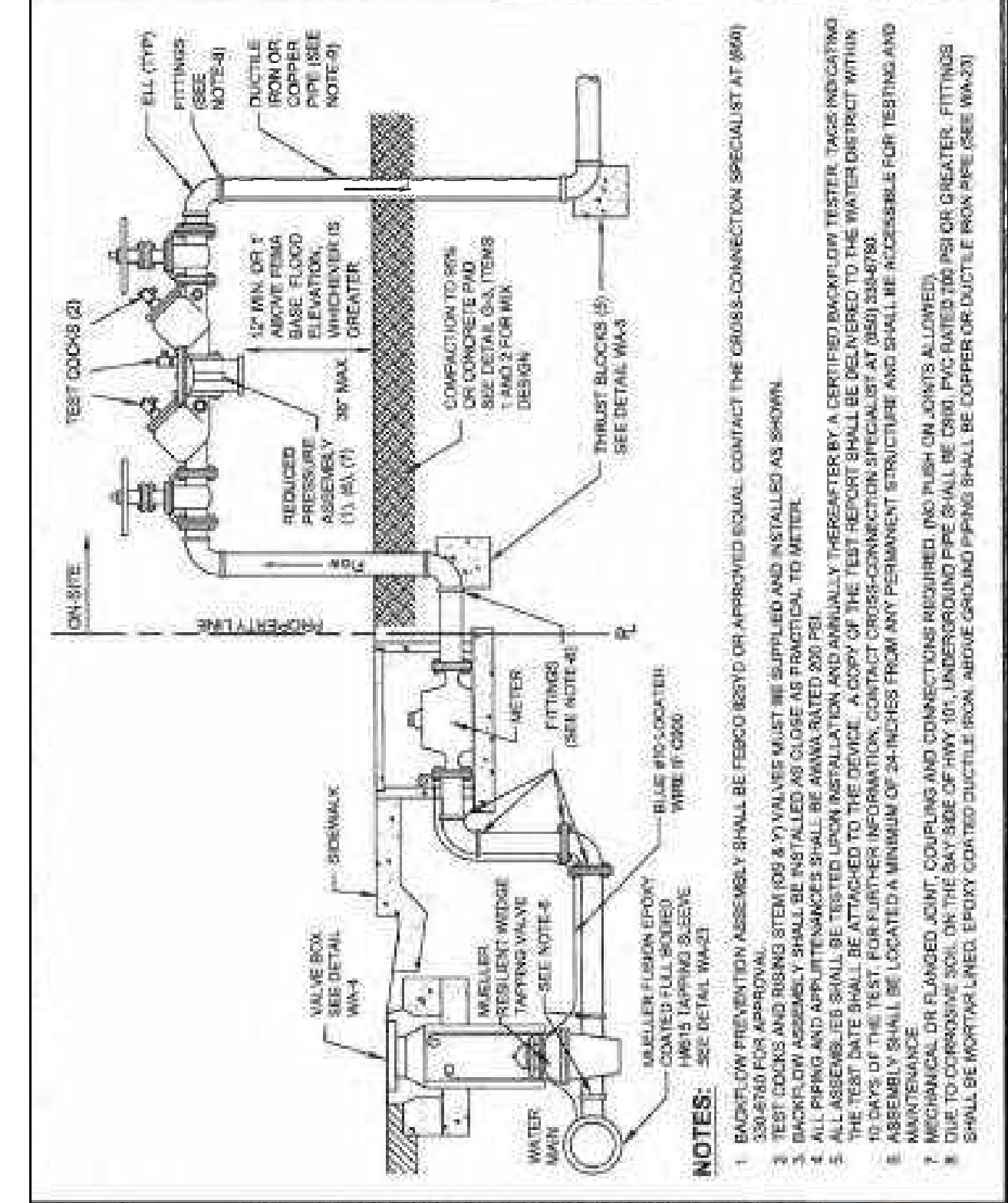
APPROVED: [Signature]

DATE: 2/14/12

SCALE: NTS

SHEET: 1 OF 1

STD. DETAIL No.: WA-20



- NOTES:**
1. BACKFLOW PREVENTION ASSEMBLY SHALL BE FEBO LF282Y OR APPROVED EQUAL. CONTACT THE CROSS-CONNECTION SPECIALIST AT (650) 330-6780 FOR APPROVAL.
  2. VALVE ASSEMBLY SHALL BE INSTALLED AS CLOSE AS PRACTICAL TO METER.
  3. BACKFLOW ASSEMBLY SHALL BE INSTALLED AS CLOSE AS PRACTICAL TO METER.
  4. ALL PIPING AND FITTINGS SHALL BE ANNI RATED 200 PSI.
  5. ALL VALVES SHALL BE CHAIN LOCKED IN AN OPEN POSITION AT ALL TIMES.
  6. THE TEST DATE SHALL BE ATTACHED TO THE DEVICE. A COPY OF THE TEST REPORT SHALL BE DELIVERED TO THE WATER DISTRICT WITHIN 10 DAYS OF THE TEST. FOR FURTHER INFORMATION, CONTACT THE CROSS-CONNECTION SPECIALIST AT (650) 330-6780.
  7. MAINTENANCE SHALL BE LOCATED A MINIMUM OF 12" ABOVE FINISHED GRADE OR 1" ABOVE FEMA BASE FLOOD ELEVATION, WHICHEVER IS GREATER, AND A MAXIMUM OF 36" ABOVE FINISHED GRADE.
  8. MECHANICAL JOINT COUPLINGS AND CONNECTIONS REQUIRED (NO PUSH ON JOINTS ALLOWED).
  9. MECHANICAL OR FLANGED JOINTS, COUPLING AND CONNECTIONS REQUIRED; NO PUSH ON JOINTS ALLOWED.
  10. MECHANICAL OR FLANGED JOINTS, COUPLING AND CONNECTIONS REQUIRED; NO PUSH ON JOINTS ALLOWED.

**CITY OF MENLO PARK STANDARD DETAILS**

NO. REVISIONS DATE

2" AND LARGER BACKFLOW PREVENTION ASSEMBLY

APPROVED: [Signature]

DATE: 2/14/2011

SCALE: NTS

SHEET: 1 OF 1

STD. DETAIL No.: WA-24



**LEA & BRAZE ENGINEERING, INC.**  
 CIVIL ENGINEERS & LAND SURVEYORS  
 REGIONAL OFFICES:  
 DUBLIN, CALIFORNIA 94568  
 HAYWARD, CALIFORNIA 94545  
 SAN JOSE, CALIFORNIA 95128  
 (510) 887-4066  
 WWW.LEABRAZE.COM

3705 HAVEN AVENUE  
 MENLO PARK, CALIFORNIA  
 APN: 055-170-240  
 SAN MATEO COUNTY

CITY DETAILS

NO.	REVISIONS	BY
9	07-16-24	VA
8	05-31-24	VA
7	03-21-24	VA
6	10-17-23	VA
5	10-04-23	VA

JOB NO: 2220759  
 DATE: 11-18-22  
 SCALE: NTS  
 DESIGN BY: VA  
 CHECKED BY: JH/PC  
 SHEET NO:



**PURPOSE:**

THE PURPOSE OF THIS PLAN IS TO STABILIZE THE SITE TO PREVENT EROSION OF GRADED AREAS AND TO PREVENT SEDIMENTATION FROM LEAVING THE CONSTRUCTION AREA AND AFFECTING NEIGHBORING SITES, NATURAL AREAS, PUBLIC FACILITIES OR ANY OTHER AREA THAT MIGHT BE AFFECTED BY SEDIMENTATION. ALL MEASURES SHOWN ON THIS PLAN SHOULD BE CONSIDERED THE MINIMUM REQUIREMENTS NECESSARY. SHOULD FIELD CONDITIONS DICTATE ADDITIONAL MEASURES, SUCH MEASURES SHALL BE PER CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD'S FIELD MANUAL FOR EROSION AND SEDIMENTATION CONTROL AND THE CALIFORNIA STORM WATER QUALITY ASSOCIATION BEST MANAGEMENT PRACTICES HANDBOOK FOR CONSTRUCTION. LEA & BRAZE ENGINEERING SHOULD BE NOTIFIED IMMEDIATELY SHOULD CONDITIONS CHANGE.

**EROSION CONTROL NOTES:**

- IT SHALL BE THE OWNER'S/CONTRACTOR'S RESPONSIBILITY TO MAINTAIN CONTROL OF THE ENTIRE CONSTRUCTION OPERATION AND TO KEEP THE ENTIRE SITE IN COMPLIANCE WITH THIS EROSION CONTROL PLAN.
- THE INTENTION OF THIS PLAN IS FOR INTERIM EROSION AND SEDIMENT CONTROL ONLY. ALL EROSION CONTROL MEASURES SHALL CONFORM TO CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD'S FIELD MANUAL FOR EROSION AND SEDIMENTATION CONTROL, THE CALIFORNIA STORM WATER QUALITY ASSOCIATION BEST MANAGEMENT PRACTICES HANDBOOK FOR CONSTRUCTION, AND THE LOCAL GOVERNING AGENCY FOR THIS PROJECT.
- OWNER/CONTRACTOR SHALL BE RESPONSIBLE FOR MONITORING EROSION AND SEDIMENT CONTROL MEASURES PRIOR TO, DURING, AND AFTER STORM EVENTS. PERSON IN CHARGE OF MAINTAINING EROSION CONTROL MEASURES SHOULD WATCH LOCAL WEATHER REPORTS AND ACT APPROPRIATELY TO MAKE SURE ALL NECESSARY MEASURES ARE IN PLACE.
- SANITARY FACILITIES SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.
- DURING THE RAINY SEASON, ALL PAVED AREAS SHALL BE KEPT CLEAR OF EARTH MATERIAL AND DEBRIS. THE SITE SHALL BE MAINTAINED SO AS TO MINIMIZE SEDIMENT-LADEN RUNOFF TO ANY STORM DRAINAGE SYSTEM, INCLUDING EXISTING DRAINAGE SWALES AND WATERCOURSES.
- CONSTRUCTION OPERATIONS SHALL BE CARRIED OUT IN SUCH A MANNER THAT EROSION AND WATER POLLUTION WILL BE MINIMIZED. COMPLIANCE WITH FEDERAL, STATE AND LOCAL LAWS CONCERNING POLLUTION SHALL BE MAINTAINED AT ALL TIMES.
- CONTRACTOR SHALL PROVIDE DUST CONTROL AS REQUIRED BY THE APPROPRIATE FEDERAL, STATE AND LOCAL AGENCY REQUIREMENTS.
- ALL MATERIALS NECESSARY FOR THE APPROVED EROSION CONTROL MEASURES SHALL BE IN PLACE BY OCTOBER 15TH.
- EROSION CONTROL SYSTEMS SHALL BE INSTALLED AND MAINTAINED THROUGHOUT THE RAINY SEASON, OR FROM OCTOBER 15TH THROUGH APRIL 15TH, WHICHEVER IS LONGER.
- IN THE EVENT OF RAIN, ALL GRADING WORK IS TO CEASE IMMEDIATELY AND THE SITE IS TO BE SEALED IN ACCORDANCE WITH THE APPROVAL EROSION CONTROL MEASURES AND APPROVED EROSION CONTROL PLAN.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CHECKING AND REPAIRING EROSION CONTROL SYSTEMS AFTER EACH STORM.
- ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED BY LOCAL JURISDICTION'S ENGINEERING DEPARTMENT OR BUILDING OFFICIALS.
- MEASURES SHALL BE TAKEN TO COLLECT OR CLEAN ANY ACCUMULATION OR DEPOSIT OF DIRT, MUD, SAND, ROCKS, GRAVEL OR DEBRIS ON THE SURFACE OF ANY STREET, ALLEY OR PUBLIC PLACE OR IN ANY PUBLIC STORM DRAIN SYSTEMS. THE REMOVAL OF AFORESAID SHALL BE DONE BY STREET SWEEPING OR HAND SWEEPING. WATER SHALL NOT BE USED TO WASH SEDIMENTS INTO PUBLIC OR PRIVATE DRAINAGE FACILITIES.
- EROSION CONTROL MEASURES SHALL BE ON-SITE FROM SEPTEMBER 15TH THRU APRIL 15TH.
- ALL EROSION CONTROL MEASURES SHALL BE INSTALLED AND MAINTAINED THROUGHOUT THE RAINY SEASON OR FROM OCTOBER 15 THROUGH APRIL 15, WHICHEVER IS GREATER.
- PLANS SHALL BE DESIGNED TO MEET C3 REQUIREMENTS OF THE MUNICIPAL STORMWATER REGIONAL PERMIT("MRP") NPDES PERMIT CAS 612008.
- THE CONTRACTOR TO NPDES (NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM) BEST MANAGEMENT PRACTICES (BMP) FOR SEDIMENTATION PREVENTION AND EROSION CONTROL TO PREVENT DELETERIOUS MATERIALS OR POLLUTANTS FROM ENTERING THE TOWN OR COUNTY STORM DRAIN SYSTEMS.
- THE CONTRACTOR MUST INSTALL ALL EROSION AND SEDIMENT CONTROL MEASURES PRIOR TO THE INCEPTION OF ANY WORK ONSITE AND MAINTAIN THE MEASURES UNTIL THE COMPLETION OF ALL LANDSCAPING.
- THE CONTRACTOR SHALL MAINTAIN ADJACENT STREETS IN A NEAT, CLEAN DUST FREE AND SANITARY CONDITION AT ALL TIMES AND TO THE SATISFACTION OF THE TOWN INSPECTOR. THE ADJACENT STREET SHALL AT ALL TIMES BE KEPT CLEAN OF DEBRIS, WITH DUST AND OTHER NUISANCE BEING CONTROLLED AT ALL TIMES. THE CONTRACTOR BE RESPONSIBLE FOR ANY CLEAN UP ON ADJACENT STREETS AFFECTED BY THE BY THEIR CONSTRUCTION, METHOD OF STREET CLEANING SHALL BE BY DRY SWEEPING OF ALL PAVED AREAS. NO STOCKPILING OF BUILDING MATERIALS WITHIN THE TOWN RIGHT-OF-WAY.
- SEDIMENTS AND OTHER MATERIALS SHALL NOT BE TRACKED FROM THE SITE BY VEHICLE TRAFFIC. THE CONTRACTOR SHALL INSTALL A STABILIZED CONSTRUCTION ENTRANCE PRIOR TO THE INSPECTION OF ANY WORK ONSITE AND MAINTAIN IT FOR THE DURATION OF THE CONSTRUCTION PROCESS SO AS TO NOT INHIBIT SEDIMENTS FROM BEING DEPOSITED INTO THE PUBLIC RIGHT-OF-WAY UNTIL THE COMPLETION OF ALL LANDSCAPING.
- THE CONTRACTOR SHALL PROTECT DOWN SLOPE DRAINAGE COURSES, STREAMS AND STORM DRAINS WITH ROCK FILLED SAND BAGS, TEMPORARY SWALES, SILT FENCES, AND EARTH PERMS IN CONJUNCTION OF ALL LANDSCAPING.
- STOCKPILED MATERIALS SHALL BE COVERED WITH VISQUEEN OR A TARPULIN UNTIL THE MATERIAL IS REMOVED FROM THE SITE. ANY REMAINING BARE SOIL THAT EXISTS AFTER THE STOCKPILE HAS BEEN REMOVED SHALL BE COVERED UNTIL A NATURAL GROUND COVER IS ESTABLISHED OR IT IS SEEDED OR PLANTED TO PROVIDE GROUND COVER PRIOR TO THE FALL RAINY SEASON.
- EXCESS OR WASTE CONCRETE MUST NOT BE WASHED INTO THE PUBLIC RIGHT-OF-WAY OR ANY OTHER DRAINAGE SYSTEM. PROVISIONS SHALL BE MADE TO RETAIN CONCRETE WASTES ON SITE UNTIL THEY CAN BE DISPOSED OF AS SOLID WASTE.
- TRASH AND CONSTRUCTION RELATED SOLID WASTES MUST BE DEPOSITED INTO A COVERED RECEPTACLE TO PREVENT CONTAMINATION AND DISPERSAL BY WIND

**EROSION CONTROL NOTES CONTINUED:**

- FUELS, OILS, SOLVENTS AND OTHER TOXIC MATERIALS MUST BE STORED IN ACCORDANCE WITH THEIR LISTING AND ARE NOT TO CONTAMINATE THE SOIL AND SURFACE WATERS. ALL APPROVED STORAGE CONTAINERS ARE TO BE PROTECTED FROM THE WEATHER. SPILLS MUST BE CLEANED UP IMMEDIATELY AND DISPOSED OF IN A PROPER MANNER. SPILLS MUST NOT BE WASHED INTO THE DRAINAGE SYSTEM,
- DUST CONTROL SHALL BE DONE BY WATERING AND AS OFTEN AS REQUIRED BY THE TOWN INSPECTOR.
- SILT FENCE(S) AND/OR FIBER ROLL(S) SHALL BE INSTALLED PRIOR TO SEPTEMBER 15TH AND SHALL REMAIN IN PLACE UNTIL THE LANDSCAPING GROUND COVER IS INSTALLED. CONTRACTOR SHALL CONTINUOUSLY MONITOR THESE MEASURES, FOLLOWING AND DURING ALL RAIN EVENTS, TO PUBLIC OWNED FACILITIES.

**EROSION CONTROL MEASURES:**

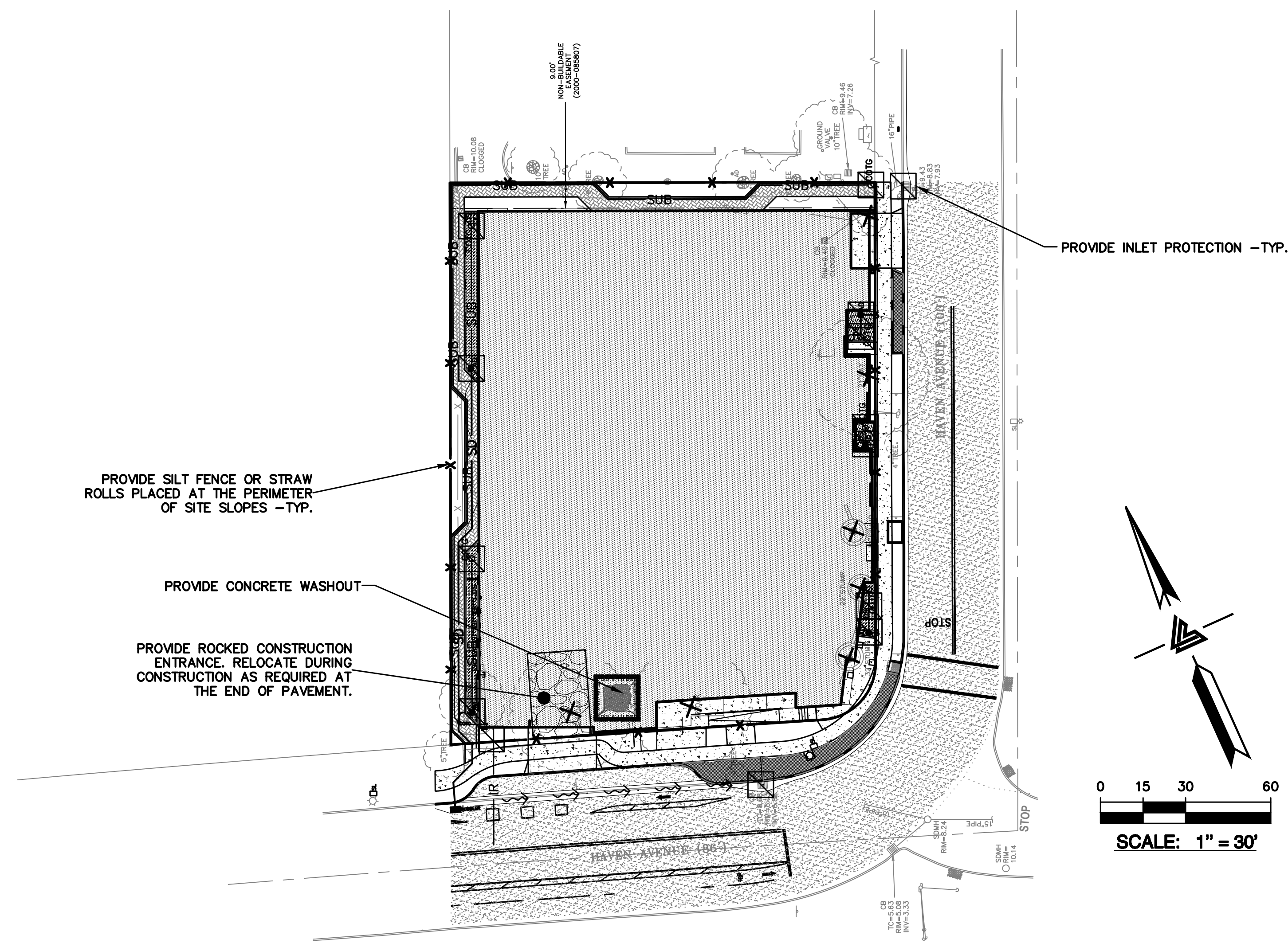
- THE FACILITIES SHOWN ON THIS PLAN ARE DESIGNED TO CONTROL EROSION AND SEDIMENT DURING THE RAINY SEASON, OCTOBER 15TH TO APRIL 15. EROSION CONTROL FACILITIES SHALL BE IN PLACE PRIOR TO OCTOBER 15TH OF ANY YEAR. GRADING OPERATIONS DURING THE RAINY SEASON WHICH LEAVE DENUDED SLOPES SHALL BE PROTECTED WITH EROSION CONTROL MEASURES IMMEDIATELY FOLLOWING GRADING ON THE SLOPES.
- SITE CONDITIONS AT TIME OF PLACEMENT OF EROSION CONTROL MEASURES WILL VARY. APPROPRIATE ACTION INCLUDING TEMPORARY SWALES, INLETS, HYDROSEEDING, STRAW BALES, ROCK SACKS, ETC. SHALL BE TAKEN TO PREVENT EROSION AND SEDIMENTATION FROM LEAVING SITE. EROSION CONTROL MEASURES SHALL BE ADJUSTED AS THE CONDITIONS CHANGE AND THE NEED OF CONSTRUCTION SHIFT.
- CONSTRUCTION ENTRANCES SHALL BE INSTALLED PRIOR TO COMMENCEMENT OF GRADING. ALL CONSTRUCTION TRAFFIC ENTERING ONTO THE PAVED ROADS MUST CROSS THE STABILIZED CONSTRUCTION ENTRANCES. CONTRACTOR SHALL MAINTAIN STABILIZED ENTRANCE AT EACH VEHICLE ACCESS POINT TO EXISTING PAVED STREETS. ANY MUD OR DEBRIS TRACKED ONTO PUBLIC STREETS SHALL BE REMOVED DAILY AND AS REQUIRED BY THE GOVERNING AGENCY.
- ALL EXPOSED SLOPES THAT ARE NOT VEGETATED SHALL BE HYDROSEEDED. IF HYDROSEEDING IS NOT USED OR IS NOT EFFECTIVE BY OCTOBER 15, THEN OTHER IMMEDIATE METHODS SHALL BE IMPLEMENTED, SUCH AS EROSION CONTROL BLANKETS, OR A THREE-STEP APPLICATION OF 1) SEED, MULCH, FERTILIZER 2) BLOWN STRAW 3) TACKIFIER AND MULCH. HYDROSEEDING SHALL BE IN ACCORDANCE WITH THE PROVISIONS OF SECTION 20" EROSION CONTROL AND HIGHWAY PLANTING" OF THE STANDARD SPECIFICATION OF THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION, AS LAST REVISED. REFER TO THE EROSION CONTROL SECTION OF THE GRADING SPECIFICATIONS THAT ARE A PART OF THIS PLAN SET FOR FURTHER INFORMATION.
- INLET PROTECTION SHALL BE INSTALLED AT OPEN INLETS TO PREVENT SEDIMENT FROM ENTERING THE STORM DRAIN SYSTEM. INLETS NOT USED IN CONJUNCTION WITH EROSION CONTROL ARE TO BE BLOCKED TO PREVENT ENTRY OF SEDIMENT. MINIMUM INLET PROTECTION SHALL CONSIST OF A ROCK SACKS OR AS SHOWN ON THIS PLAN
- THIS EROSION AND SEDIMENT CONTROL PLAN MAY NOT COVER ALL THE SITUATIONS THAT MAY ARISE DURING CONSTRUCTION DUE TO UNANTICIPATED FIELD CONDITIONS. VARIATIONS AND ADDITIONS MAY BE MADE TO THIS PLAN IN THE FIELD. A REPRESENTATIVE OF LEA & BRAZE ENGINEERING SHALL PERFORM A FIELD REVIEW AND MAKE RECOMMENDATIONS AS NEEDED. CONTRACTOR IS RESPONSIBLE TO NOTIFY LEA & BRAZE ENGINEERING AND THE GOVERNING AGENCY OF ANY CHANGES.
- THE EROSION CONTROL MEASURES SHALL CONFORM TO THE LOCAL JURISDICTION'S STANDARDS AND THE APPROVAL OF THE LOCAL JURISDICTION'S ENGINEERING DEPARTMENT.
- STRAW ROLLS SHALL BE PLACED AT THE TOE OF SLOPES AND ALONG THE DOWN SLOPE PERIMETER OF THE PROJECT. THEY SHALL BE PLACED AT 25 FOOT INTERVALS ON GRADED SLOPES. PLACEMENT SHALL RUN WITH THE CONTOURS AND ROLLS SHALL BE TIGHTLY END BUTTED. CONTRACTOR SHALL REFER TO MANUFACTURER'S SPECIFICATIONS FOR PLACEMENT AND INSTALLATION INSTRUCTIONS.

**REFERENCES:**

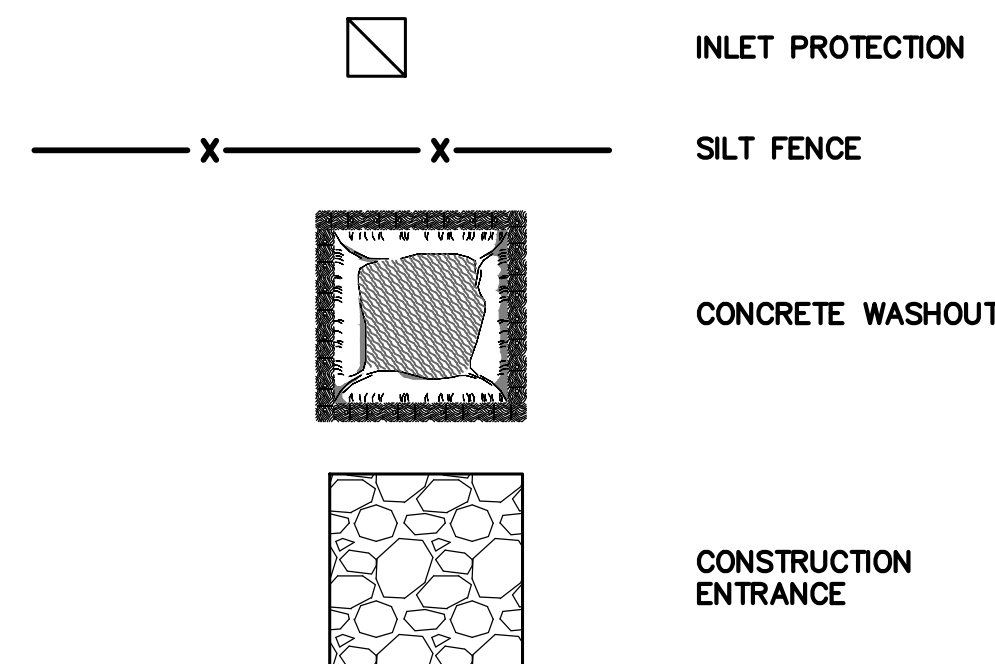
- CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD'S FIELD MANUAL FOR EROSION AND SEDIMENTATION CONTROL
- CALIFORNIA STORM WATER QUALITY ASSOCIATION BEST MANAGEMENT PRACTICES HANDBOOK FOR CONSTRUCTION

**PERIODIC MAINTENANCE:**

- MAINTENANCE IS TO BE PERFORMED AS FOLLOWS:
  - DAMAGES CAUSED BY SOIL EROSION OR CONSTRUCTION SHALL BE REPAIRED AT THE END OF EACH WORKING DAY.
  - SWALES SHALL BE INSPECTED PERIODICALLY AND MAINTAINED AS NEEDED.
  - SEDIMENT TRAPS, BERMS, AND SWALES ARE TO BE INSPECTED AFTER EACH STORM AND REPAIRS MADE AS NEEDED.
  - SEDIMENT SHALL BE REMOVED AND SEDIMENT TRAP RESTORED TO ITS ORIGINAL DIMENSIONS WHEN SEDIMENT HAS ACCUMULATED TO A DEPTH OF 1" FOOT.
  - SEDIMENT REMOVED FROM TRAP SHALL BE DEPOSITED IN A SUITABLE AREA AND IN SUCH A MANNER THAT IT WILL NOT ERODE.
  - RILLS AND GULLIES MUST BE REPAIRED.
- GRAVEL BAG INLET PROTECTION SHALL BE CLEANED OUT WHENEVER SEDIMENT DEPTH IS ONE HALF THE HEIGHT OF ONE GRAVEL BAG.
- STRAW ROLLS SHALL BE PERIODICALLY CHECKED TO ASSURE PROPER FUNCTION AND CLEANED OUT WHENEVER THE SEDIMENT DEPTH REACHED HALF THE HEIGHT OF THE ROLL.
- SILT FENCE SHALL BE PERIODICALLY CHECKED TO ASSURE PROPER FUNCTION AND CLEANED OUT WHENEVER THE SEDIMENT DEPTH REACHES ONE FOOT IN HEIGHT.
- CONSTRUCTION ENTRANCE SHALL BE REGRAVELED AS NECESSARY FOLLOWING SILT/SOIL BUILDUP.
- ANY OTHER EROSION CONTROL MEASURES SHOULD BE CHECKED AT REGULAR INTERVALS TO ASSURE PROPER FUNCTION



**EROSION CONTROL LEGEND**



**NOTE:**  
SEAL ALL OTHER INLETS NOT INTENDED TO ACCEPT STORM WATER AND DIRECT FLOWS TEMPORARILY TO FUNCTIONAL SEDIMENTATION BASIN INLETS. -TYP



**LEA & BRAZE ENGINEERING, INC.**  
CIVIL ENGINEERS & LAND SURVEYORS  
REGIONAL OFFICES:  
DUBLIN, CALIFORNIA 94568  
HAYWARD, CALIFORNIA 94545  
SAN JOSE  
(510) 887-4086  
WWW.LEABRAZE.COM

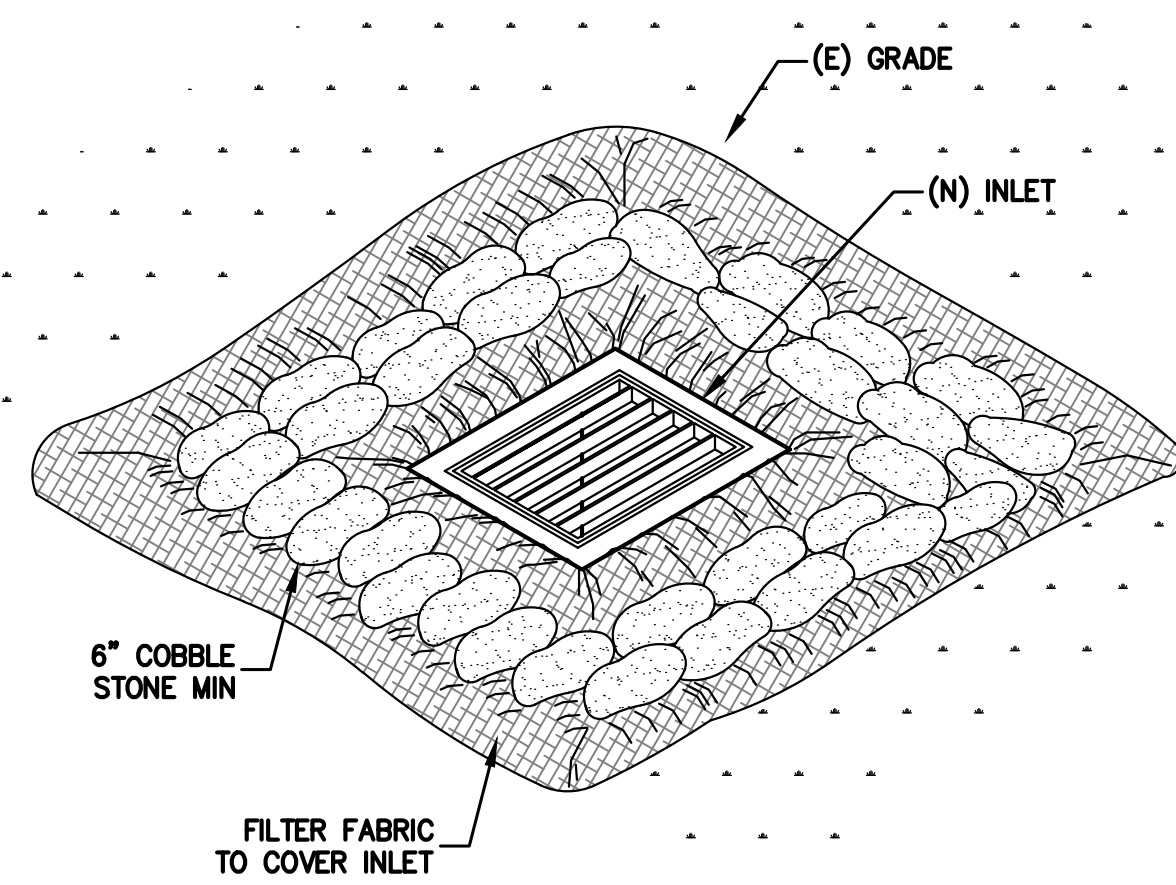
**3705 HAVEN AVENUE**  
**MENLO PARK, CALIFORNIA**  
SAN MATEO COUNTY  
APN: 055-170-240

**EROSION CONTROL PLAN**

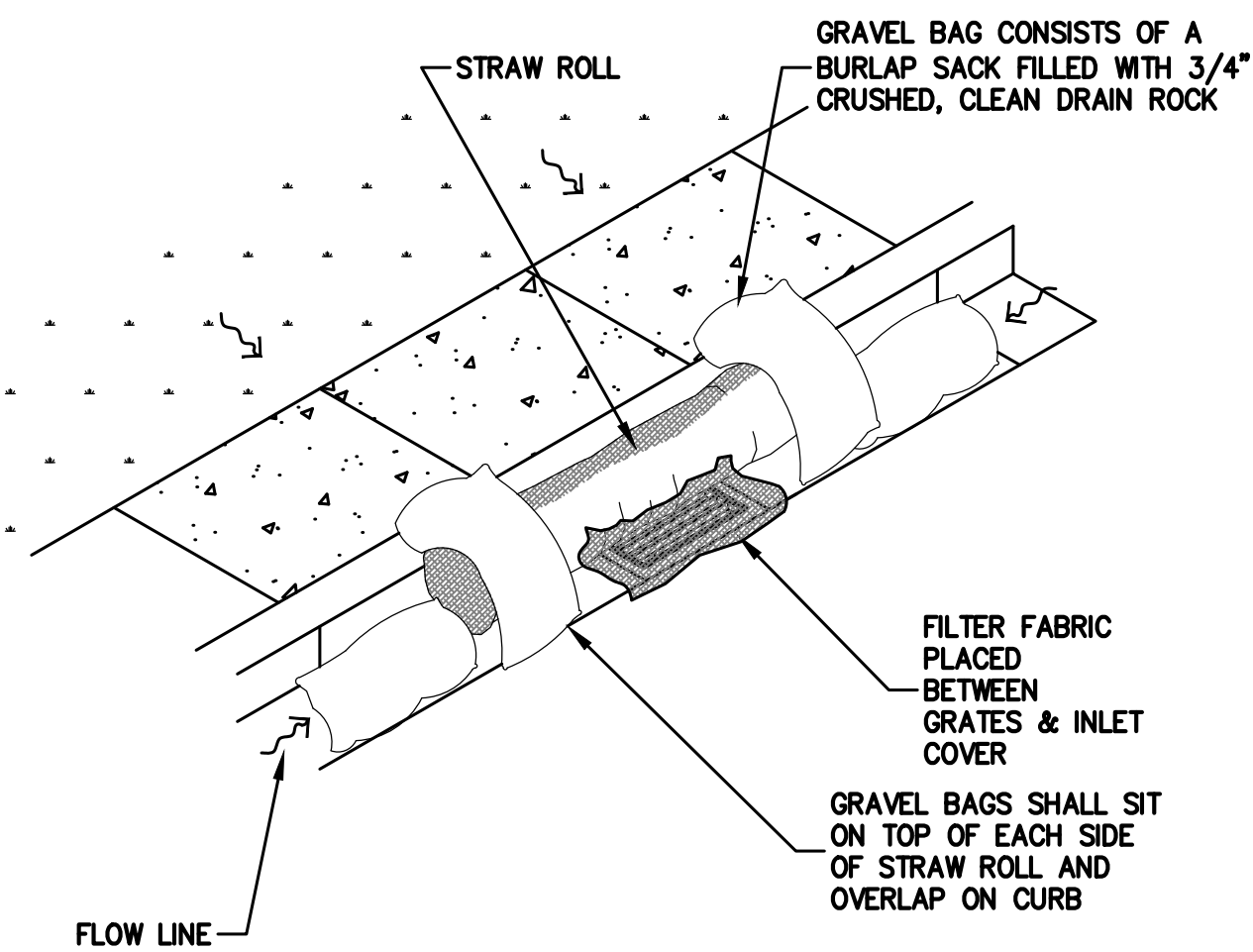
9	COMP REVIEW	VA
8	07-16-24	VA
8	05-31-24	VA
7	COMP REVIEW	VA
6	03-21-24	VA
6	C3 PLAN CHK	VA
6	10-17-23	VA
5	C3 PLAN CHK	VA
5	10-04-23	VA
	REVISIONS	BY

JOB NO: 2220759  
DATE: 11-18-22  
SCALE: AS NOTED  
DESIGN BY: VA  
CHECKED BY: JH/PC  
SHEET NO:

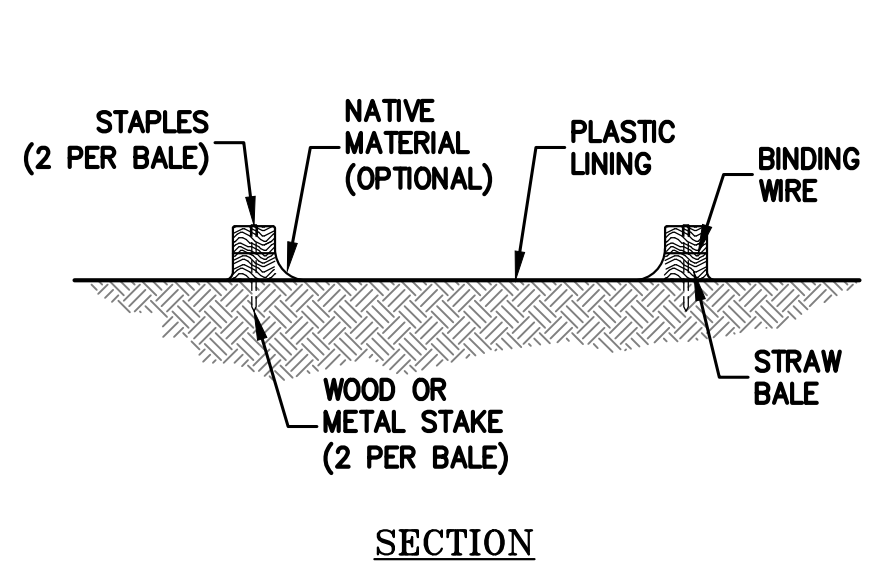
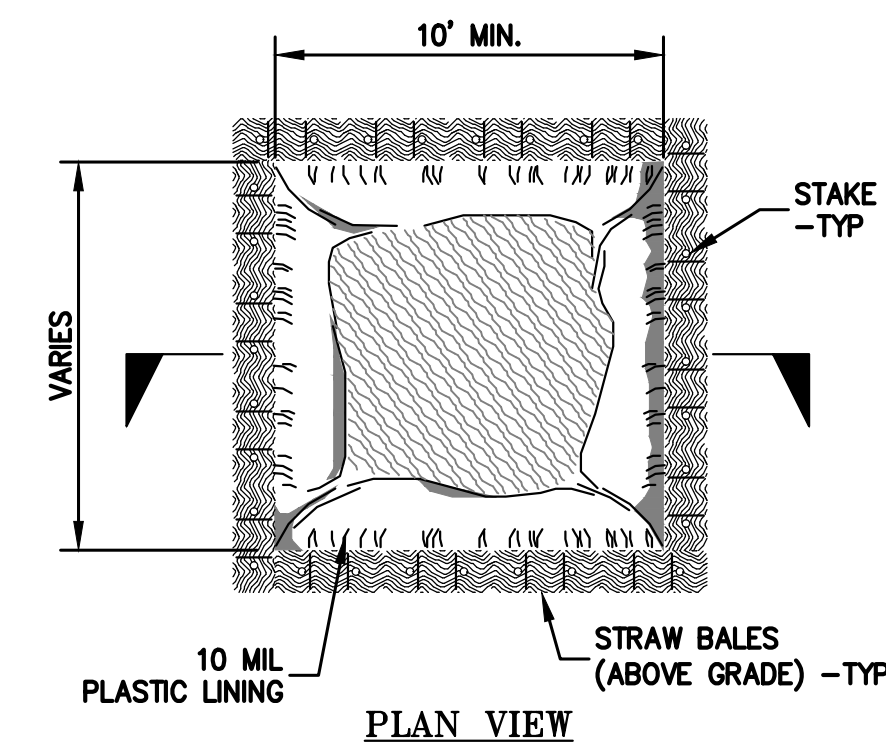




1 INLET PROTECTION  
ER-2 NTS

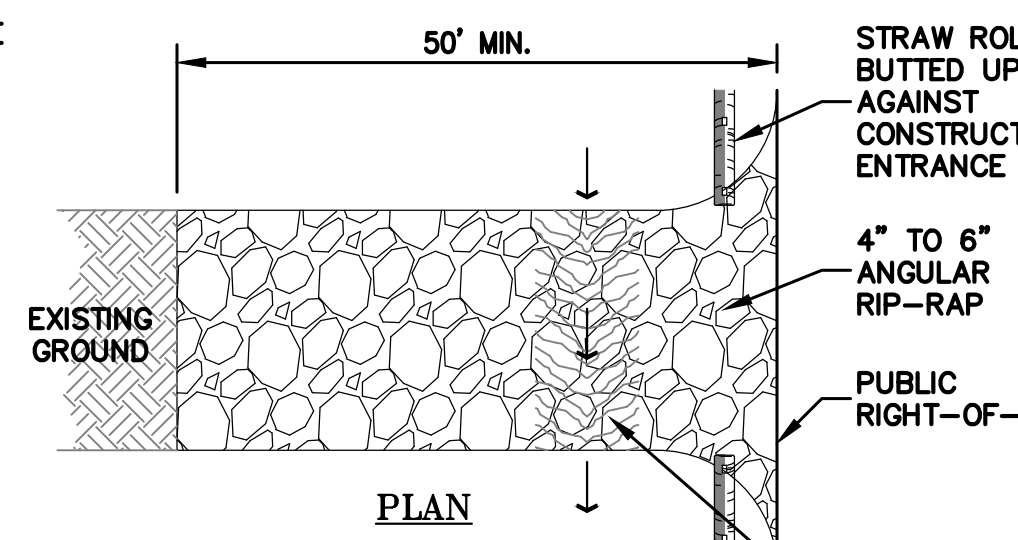
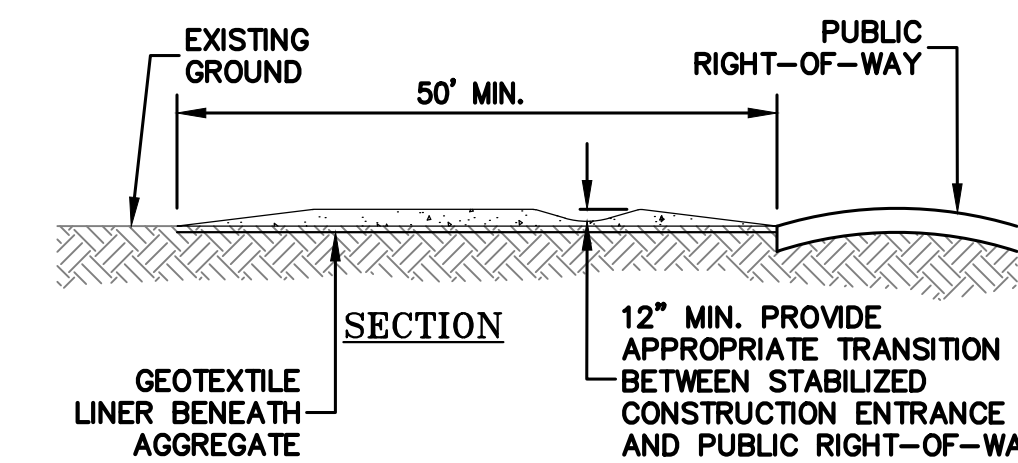


2 STREET INLET PROTECTION  
ER-2 NTS



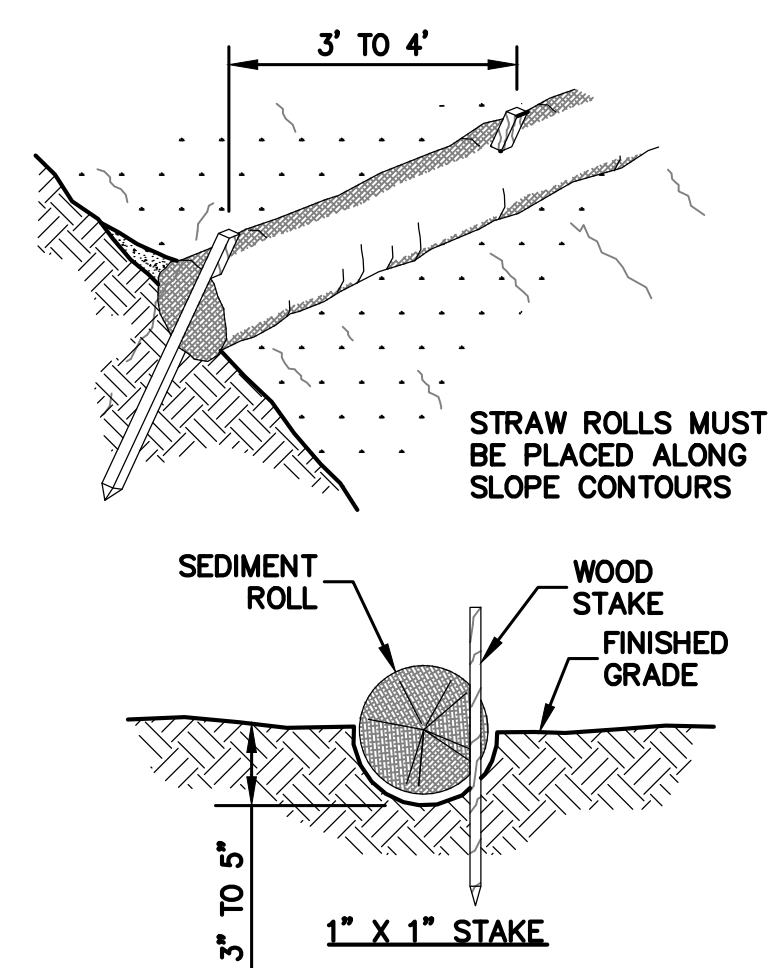
3 CONCRETE WASHOUT  
ER-2 NTS

NOTES:  
ACTUAL LAYOUT DETERMINED IN FIELD.  
THE CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 10' OF THE TEMPORARY CONCRETE WASHOUT FACILITY.



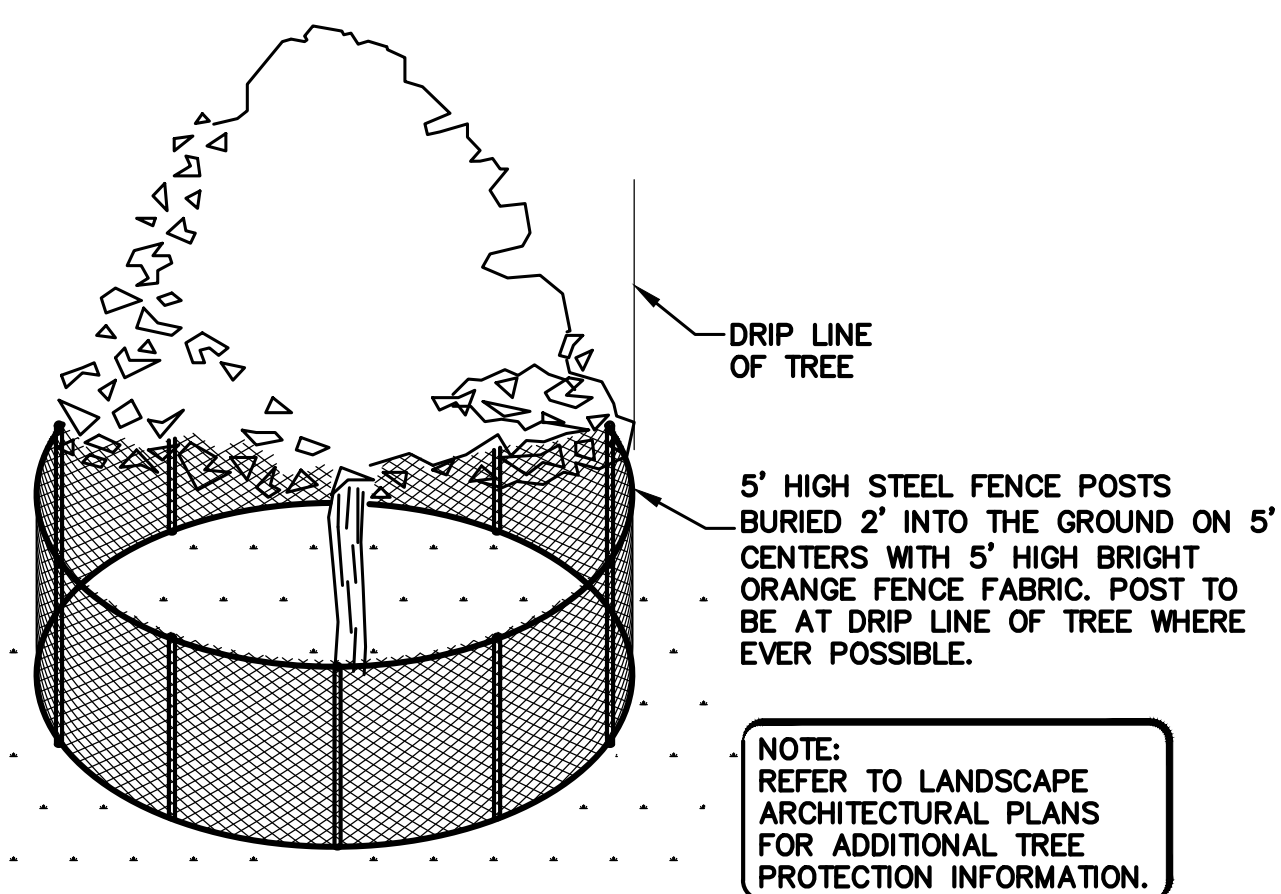
4 CONSTRUCTION ENTRANCE  
ER-2 NTS

NOTES:  
STABILIZED CONSTRUCTION SITE ACCESS SHALL BE CONSTRUCTED OF 3" TO 4" WASHED, FRACTURED STONE AGGREGATE.  
MATERIAL SHALL BE PLACED TO A MINIMUM THICKNESS OF 12". LENGTH OF ENTRANCE SHALL BE A MINIMUM OF 50'.  
WIDTH SHALL BE A MIN. OF 15' OR GREATER IF NECESSARY TO COVER ALL VEHICULAR INGRESS AND EGRESS. PROVIDE AMPLE TURNING RADIUS.  
THE ENTRANCE SHALL BE KEPT IN GOOD CONDITION BY OCCASIONAL TOP DRESSING WITH MATERIAL AS SPECIFIED IN ABOVE NOTE.  
ACCESSES SHALL BE INSPECTED WEEKLY DURING PERIODS OF HEAVY USAGE, MONTHLY DURING NORMAL USAGE, AND AFTER EACH RAINFALL, WITH MAINTENANCE PROVIDED AS NECESSARY.  
PERIODIC TOP DRESSING SHALL BE DONE AS NEEDED.



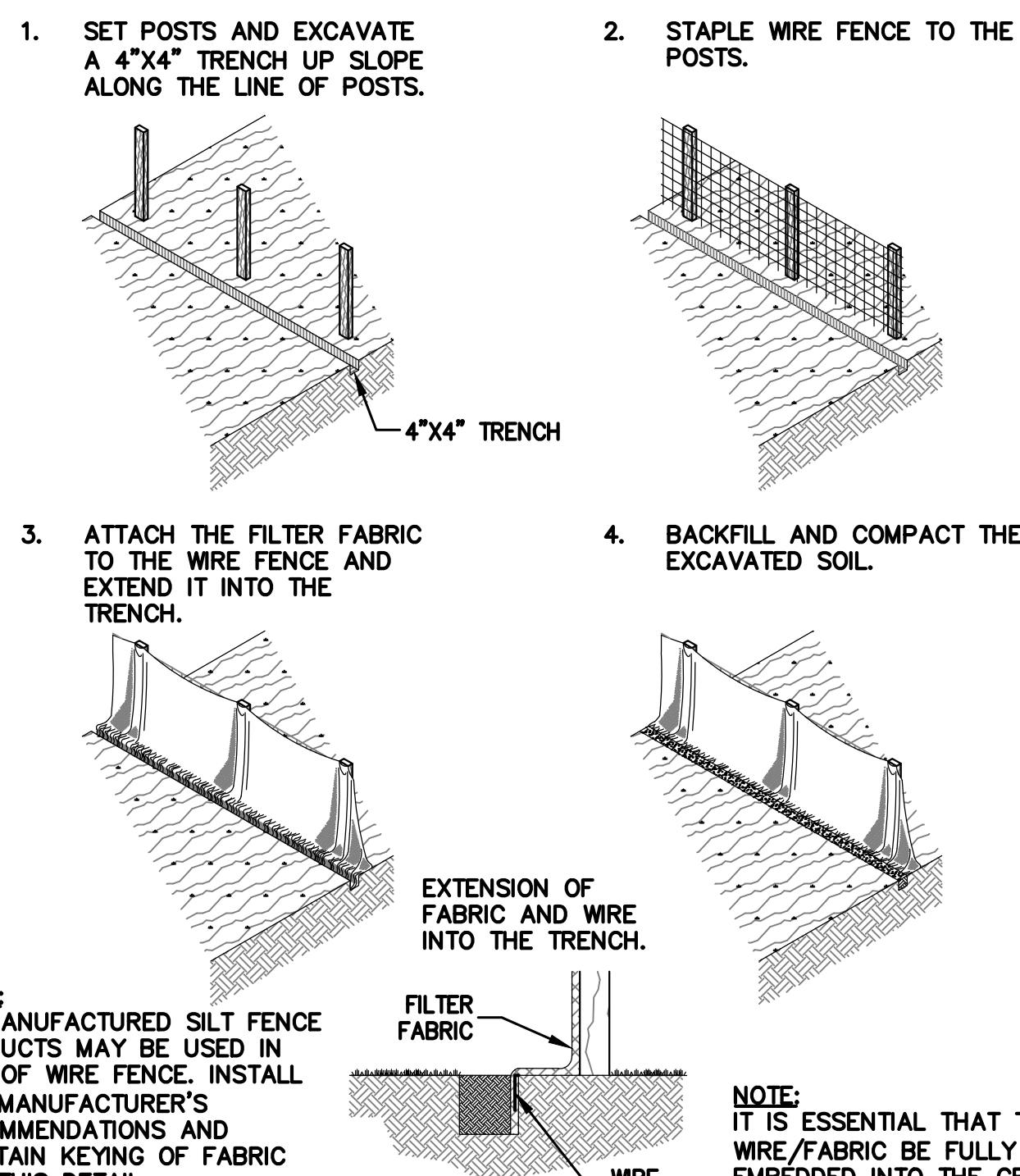
5 STRAW ROLLS FLAT LOT  
ER-2 NTS

NOTE:  
1. STRAW ROLL INSTALLATION REQUIRES THE PLACEMENT AND SECURE STAKING OF THE ROLL IN A TRENCH, 3" TO 5" DEEP, DUG ON CONTOUR. RUNOFF MUST NOT BE ALLOWED TO RUN UNDER OR AROUND ROLL.  
2. CONTRACTOR IS RESPONSIBLE FOR REGULAR MAINTENANCE AND INSPECTION. THE SILT SHALL BE CLEANED OUT WHEN IT REACHES HALF THE HEIGHT OF THE ROLL.



6 EXISTING TREE PROTECTION DETAIL  
ER-2 NTS

NOTE:  
REFER TO LANDSCAPE ARCHITECTURAL PLANS FOR ADDITIONAL TREE PROTECTION INFORMATION.  
NOTE:  
LOCAL JURISDICTION MIGHT HAVE MORE STRINGENT REQUIREMENTS. CONTRACTOR IS RESPONSIBLE FOR COORDINATING W/ INSPECTOR TO ENSURE PROPER PROCEDURES ARE BEING FOLLOWED.



7 SILT FENCE  
ER-2 NTS

NOTE:  
PREMANUFACTURED SILT FENCE PRODUCTS MAY BE USED IN LIEU OF WIRE FENCE. INSTALL PER MANUFACTURER'S RECOMMENDATIONS AND MAINTAIN KEYING OF FABRIC PER THIS DETAIL.

NOTE:  
IT IS ESSENTIAL THAT THE WIRE/FABRIC BE FULLY EMBEDDED INTO THE GROUND SO RUN-OFF CANNOT FLOW FREELY UNDER FENCE.



LEA & BRAZE ENGINEERING, INC.  
CIVIL ENGINEERS & LAND SURVEYORS  
REGIONAL OFFICES:  
DUBLIN, CALIFORNIA 94568  
SAN JOSE, CALIFORNIA 95128  
SAN JOSE, CALIFORNIA 95128  
(510) 887-4066  
WWW.LEABRAZE.COM

3705 HAVEN AVENUE  
MENLO PARK, CALIFORNIA  
SAN MATEO COUNTY

APN: 055-170-240

EROSION CONTROL  
DETAILS

9	COMP REVIEW	07-16-24	VA
8	COMP REVIEW	05-31-24	VA
7	COMP REVIEW	03-21-24	VA
6	C3 PLN CHK	10-17-23	VA
5	C3 PLN CHK	10-04-23	VA
	REVISIONS		BY

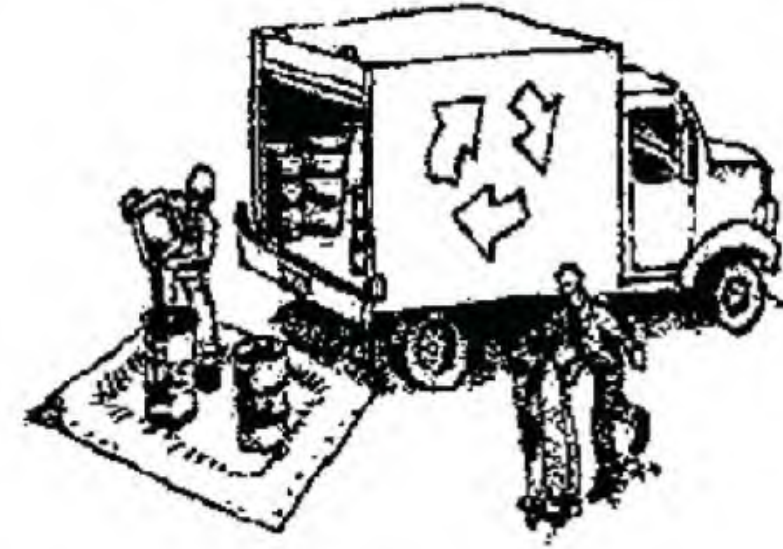
JOB NO: 2220759  
DATE: 11-18-22  
SCALE: AS NOTED  
DESIGN BY: VA  
CHECKED BY: JH/PC  
SHEET NO:



# Construction Best Management Practices (BMPs)

Construction projects are required to implement the stormwater best management practices (BMP) on this page, as they apply to your project, all year long.

## Materials & Waste Management



### Non-Hazardous Materials

- Berm and cover stockpiles of sand, dirt or other construction material with tarps when rain is forecast or if not actively being used within 14 days.
- Use (but don't overuse) reclaimed water for dust control.

### Hazardous Materials

- Label all hazardous materials and hazardous wastes (such as pesticides, paints, thinners, solvents, fuel, oil, and antifreeze) in accordance with city, county, state and federal regulations.
- Store hazardous materials and wastes in water tight containers, store in appropriate secondary containment, and cover them at the end of every work day or during wet weather or when rain is forecast.
- Follow manufacturer's application instructions for hazardous materials and be careful not to use more than necessary. Do not apply chemicals outdoors when rain is forecast within 24 hours.
- Arrange for appropriate disposal of all hazardous wastes.

### Waste Management

- Cover waste disposal containers securely with tarps at the end of every work day and during wet weather.
- Check waste disposal containers frequently for leaks and to make sure they are not overfilled. Never hose down a dumpster on the construction site.
- Clean or replace portable toilets, and inspect them frequently for leaks and spills.
- Dispose of all wastes and debris properly. Recycle materials and wastes that can be recycled (such as asphalt, concrete, aggregate base materials, wood, gyp board, pipe, etc.)
- Dispose of liquid residues from paints, thinners, solvents, glues, and cleaning fluids as hazardous waste.

### Construction Entrances and Perimeter

- Establish and maintain effective perimeter controls and stabilize all construction entrances and exits to sufficiently control erosion and sediment discharges from site and tracking off site.
- Sweep or vacuum any street tracking immediately and secure sediment source to prevent further tracking. Never hose down streets to clean up tracking.

## Equipment Management & Spill Control



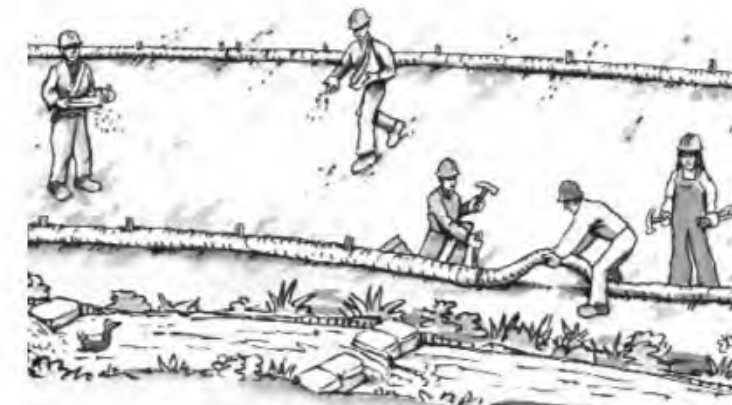
### Maintenance and Parking

- Designate an area, fitted with appropriate BMPs, for vehicle and equipment parking and storage.
- Perform major maintenance, repair jobs, and vehicle and equipment washing off site.
- If refueling or vehicle maintenance must be done onsite, work in a bermed area away from storm drains and over a drip pan or drop cloths big enough to collect fluids. Recycle or dispose of fluids as hazardous waste.
- If vehicle or equipment cleaning must be done onsite, clean with water only in a bermed area that will not allow rinse water to run into gutters, streets, storm drains, or surface waters.
- Do not clean vehicle or equipment onsite using soaps, solvents, degreasers, or steam cleaning equipment.

### Spill Prevention and Control

- Keep spill cleanup materials (e.g., rags, absorbents and cat litter) available at the construction site at all times.
- Inspect vehicles and equipment frequently for and repair leaks promptly. Use drip pans to catch leaks until repairs are made.
- Clean up spills or leaks immediately and dispose of cleanup materials properly.
- Do not hose down surfaces where fluids have spilled. Use dry cleanup methods (absorbent materials, cat litter, and/or rags).
- Sweep up spilled dry materials immediately. Do not try to wash them away with water, or bury them.
- Clean up spills on dirt areas by digging up and properly disposing of contaminated soil.
- Report significant spills immediately. You are required by law to report all significant releases of hazardous materials, including oil. To report a spill: 1) Dial 911 or your local emergency response number, 2) Call the Governor's Office of Emergency Services Warning Center, (800) 852-7550 (24 hours).

## Earthmoving



- Schedule grading and excavation work during dry weather.
- Stabilize all denuded areas, install and maintain temporary erosion controls (such as erosion control fabric or bonded fiber matrix) until vegetation is established.
- Remove existing vegetation only when absolutely necessary, and seed or plant vegetation for erosion control on slopes or where construction is not immediately planned.
- Prevent sediment from migrating offsite and protect storm drain inlets, gutters, ditches, and drainage courses by installing and maintaining appropriate BMPs, such as fiber rolls, silt fences, sediment basins, gravel bags, berms, etc.
- Keep excavated soil on site and transfer it to dump trucks on site, not in the streets.

### Contaminated Soils

- If any of the following conditions are observed, test for contamination and contact the Regional Water Quality Control Board:
  - Unusual soil conditions, discoloration, or odor.
  - Abandoned underground tanks.
  - Abandoned wells
  - Buried barrels, debris, or trash.

## Paving/Asphalt Work



- Avoid paving and seal coating in wet weather or when rain is forecast, to prevent materials that have not cured from contacting stormwater runoff.
- Cover storm drain inlets and manholes when applying seal coat, tack coat, slurry seal, fog seal, etc.
- Collect and recycle or appropriately dispose of excess abrasive gravel or sand. Do NOT sweep or wash it into gutters.
- Do not use water to wash down fresh asphalt concrete pavement.

### Sawcutting & Asphalt/Concrete Removal

- Protect nearby storm drain inlets when saw cutting. Use filter fabric, catch basin inlet filters, or gravel bags to keep slurry out of the storm drain system.
- Shovel, absorb, or vacuum saw-cut slurry and dispose of all waste as soon as you are finished in one location or at the end of each work day (whichever is sooner!).
- If sawcut slurry enters a catch basin, clean it up immediately.

## Concrete, Grout & Mortar Application



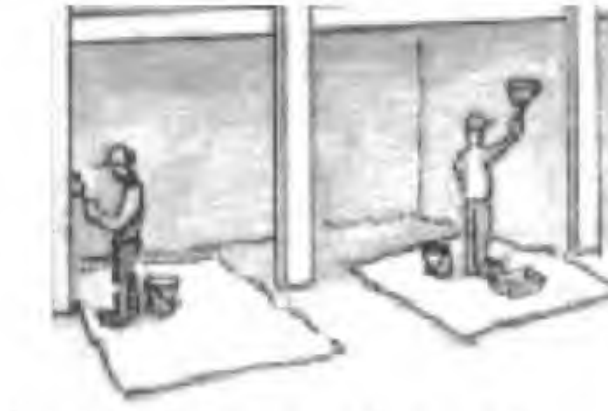
- Store concrete, grout, and mortar away from storm drains or waterways, and on pallets under cover to protect them from rain, runoff, and wind.
- Wash out concrete equipment/trucks offsite or in a designated washout area, where the water will flow into a temporary waste pit, and in a manner that will prevent leaching into the underlying soil or onto surrounding areas. Let concrete harden and dispose of as garbage.
- When washing exposed aggregate, prevent washwater from entering storm drains. Block any inlets and vacuum gutters, hose washwater onto dirt areas, or drain onto a bermed surface to be pumped and disposed of properly.

## Landscaping



- Protect stockpiled landscaping materials from wind and rain by storing them under tarps all year-round.
- Stack bagged material on pallets and under cover.
- Discontinue application of any erodible landscape material within 2 days before a forecast rain event or during wet weather.

## Painting & Paint Removal



### Painting Cleanup and Removal

- Never clean brushes or rinse paint containers into a street, gutter, storm drain, or stream.
- For water-based paints, paint out brushes to the extent possible, and rinse into a drain that goes to the sanitary sewer. Never pour paint down a storm drain.
- For oil-based paints, paint out brushes to the extent possible and clean with thinner or solvent in a proper container. Filter and reuse thinners and solvents. Dispose of excess liquids as hazardous waste.
- Paint chips and dust from non-hazardous dry stripping and sand blasting may be swept up or collected in plastic drop cloths and disposed of as trash.
- Chemical paint stripping residue and chips and dust from marine paints or paints containing lead, mercury, or tributyltin must be disposed of as hazardous waste. Lead based paint removal requires a state-certified contractor.

## Dewatering



- Discharges of groundwater or captured runoff from dewatering operations must be properly managed and disposed. When possible send dewatering discharge to landscaped area or sanitary sewer. If discharging to the sanitary sewer call your local wastewater treatment plant.
- Divert run-on water from offsite away from all disturbed areas.
- When dewatering, notify and obtain approval from the local municipality before discharging water to a street gutter or storm drain. Filtration or diversion through a basin, tank, or sediment trap may be required.
- In areas of known or suspected contamination, call your local agency to determine whether the ground water must be tested. Pumped groundwater may need to be collected and hauled off-site for treatment and proper disposal.

**Storm drain polluters may be liable for fines of up to \$10,000 per day!**



**LEA & BRAZE ENGINEERING, INC.**  
CIVIL ENGINEERS | LAND SURVEYORS  
REGIONAL OFFICES:  
DUBLIN, CA 94568  
DUBLIN, CA 94568  
SAN JOSE, CA 95128  
(510) 887-4066  
WWW.LEABRAZE.COM

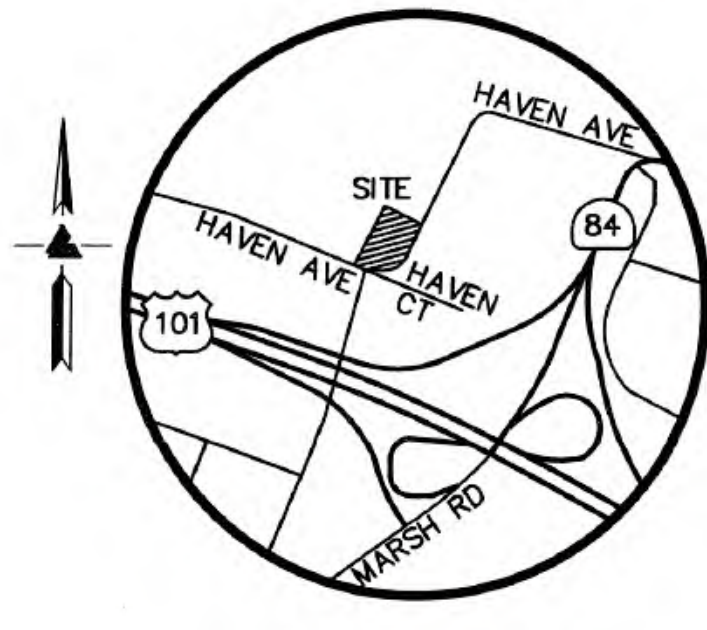
3705 HAVEN AVENUE  
MENLO PARK, CALIFORNIA

BEST MANAGEMENT PRACTICES

9	COMP REVIEW	07-16-24	VA
8	COMP REVIEW	05-31-24	VA
7	COMP REVIEW	03-21-24	VA
6	C3 PLN CHK	10-17-23	VA
5	C3 PLN CHK	10-04-23	VA
	REVISIONS		BY

JOB NO: 2220759  
DATE: 11-18-22  
SCALE: AS NOTED  
DESIGN BY: VA  
CHECKED BY: JH/PC  
SHEET NO:





VICINITY MAP  
NO SCALE

**LEGEND AND NOTES**

- BOUNDARY LINE
- BUILDING OVERHANG LINE
- ETC ELECTRICAL/TELEPHONE/CABLE TV OVERHEAD LINE
- EASEMENT
- x- FENCE LINE
- FLOW LINE
- SS SANITARY SEWER LINE
- SD STORM DRAIN LINE
- C COMMUNICATION LINE (PAINT MARKINGS)
- E ELECTRICAL LINE (PAINT MARKINGS)
- S STORM DRAIN LINE (PAINT MARKINGS)
- W WATER LINE (PAINT MARKINGS)
- ACCESSIBILITY PARKING
- AD AREA DRAIN
- BFP BACK FLOW PREVENTER
- BENCHMARK
- CB CATCH BASIN
- DW DRIVEWAY
- FF FINISH FLOOR
- FDC FIRE DEPARTMENT CONNECTION
- FIRE HYDRANT
- FL FLOW LINE
- GM GAS METER
- GUY ANCHOR
- INV INVERT
- ICB IRRIGATION CONTROL BOX
- ICV IRRIGATION CONTROL VALVE
- JOINT POLE
- OVH OVERHEAD
- RP ROOF PEAK
- SSCO SANITARY SEWER CLEAN-OUT
- SSMH SANITARY SEWER MAINTENANCE HOLE
- SDMH STORM DRAIN MAINTENANCE HOLE
- ★ STREET LIGHT
- SL STREET LIGHT BOX
- STREET SIGN
- TC TOP OF CURB
- WM WATER METER
- WV WATER VALVE
- W WATER VAULT
- XXX.XX SPOTGRADE

**NOTES**

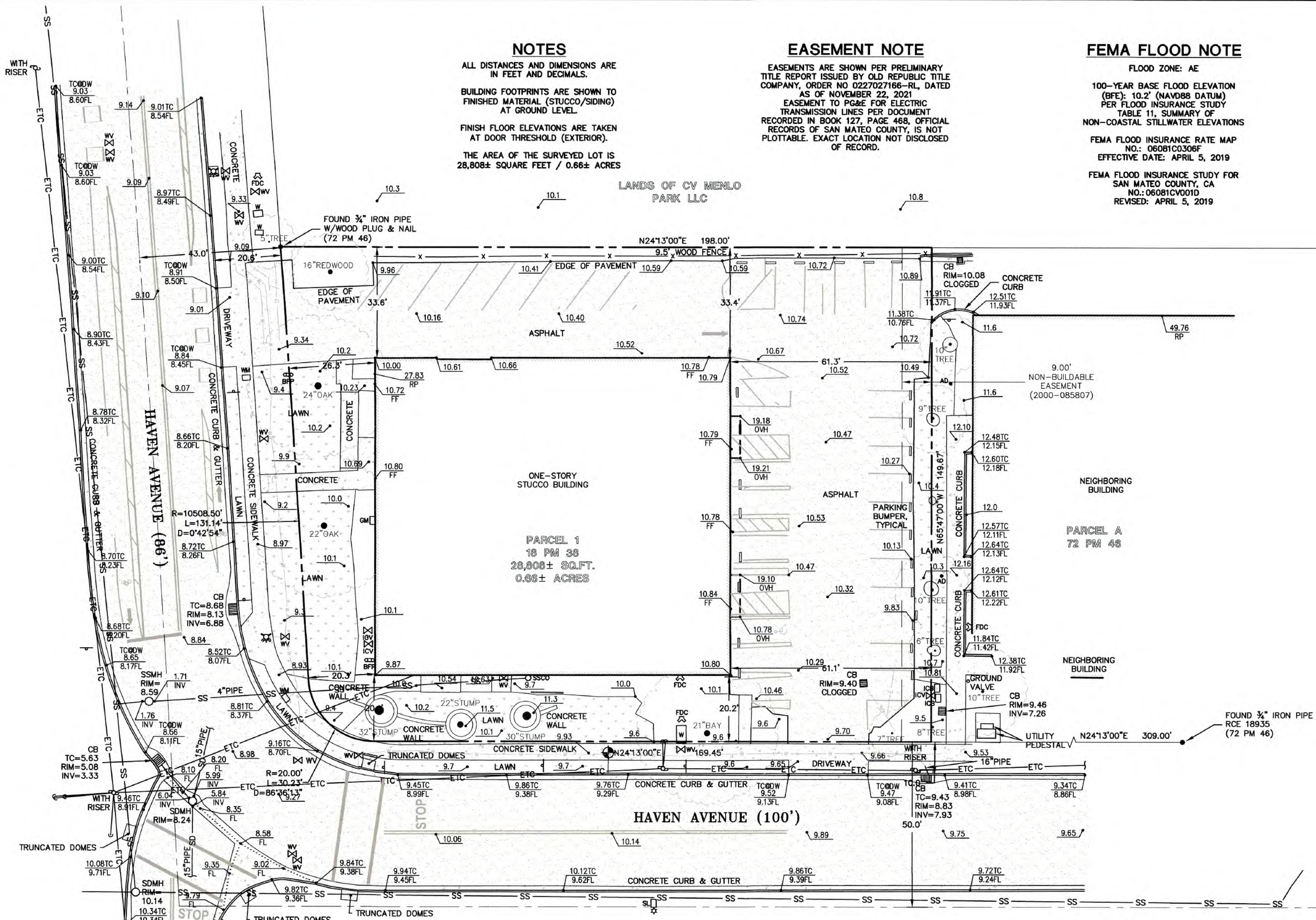
ALL DISTANCES AND DIMENSIONS ARE IN FEET AND DECIMALS.  
 BUILDING FOOTPRINTS ARE SHOWN TO FINISHED MATERIAL (STUCCO/SIDING) AT GROUND LEVEL.  
 FINISH FLOOR ELEVATIONS ARE TAKEN AT DOOR THRESHOLD (EXTERIOR).  
 THE AREA OF THE SURVEYED LOT IS 28,808± SQUARE FEET / 0.66± ACRES

**EASEMENT NOTE**

EASEMENTS ARE SHOWN PER PRELIMINARY TITLE REPORT ISSUED BY OLD REPUBLIC TITLE COMPANY, ORDER NO 0227027166-RL, DATED AS OF NOVEMBER 22, 2021  
 EASEMENT TO PG&E FOR ELECTRIC TRANSMISSION LINES PER DOCUMENT RECORDED IN BOOK 127, PAGE 468, OFFICIAL RECORDS OF SAN MATEO COUNTY, IS NOT PLOTTABLE. EXACT LOCATION NOT DISCLOSED OF RECORD.

**FEMA FLOOD NOTE**

FLOOD ZONE: AE  
 100-YEAR BASE FLOOD ELEVATION (BFE): 10.2' (NAVD88 DATUM)  
 PER FLOOD INSURANCE STUDY TABLE 11, SUMMARY OF NON-COASTAL STILLWATER ELEVATIONS  
 FEMA FLOOD INSURANCE RATE MAP NO.: 06081C0306F  
 EFFECTIVE DATE: APRIL 5, 2019  
 FEMA FLOOD INSURANCE STUDY FOR SAN MATEO COUNTY, CA NO.: 06081C0010D  
 REVISED: APRIL 5, 2019



**UTILITY NOTE**

ALL UNDERGROUND PIPE TYPES, SIZES AND LOCATION SHOWN ON THIS SURVEY ARE BASED ON VISUAL OBSERVATION. ANY USE OF THIS INFORMATION SHOULD BE VERIFIED, BEFORE ITS USE, WITH THE CONTROLLING MUNICIPALITY OR UTILITY PROVIDER. THIS SURVEY MAKES NO GUARANTEE OF THE INSTALLED ACTUAL LOCATION, DEPTHS OR SIZE.

**TREE NOTE**

TREE SIZE, TYPE AND DRUPLINES ARE BASED ON A VISUAL OBSERVATION. FINAL DETERMINATION SHOULD BE MADE BY THE PROJECT ARBORIST.

**BENCHMARK**

CITY OF MENLO PARK BM3 BRONZE DISK EPOXIED INTO THE TOP OF A CONCRETE CURB OF THE NORTHERLY CURB LINE OF HAVEN AVENUE AT #3585 HAVEN AVENUE AT THE WESTERLY SIDE OF A STORM WATER CATCH BASIN. ELEVATION = 8.178' (ADJUSTED TO NAVD 88 DATUM)

**SITE BENCHMARK**

SURVEY CONTROL POINT CUT CROSS IN CONCRETE ELEVATION = 9.91' (ADJUSTED TO NAVD 88 DATUM)

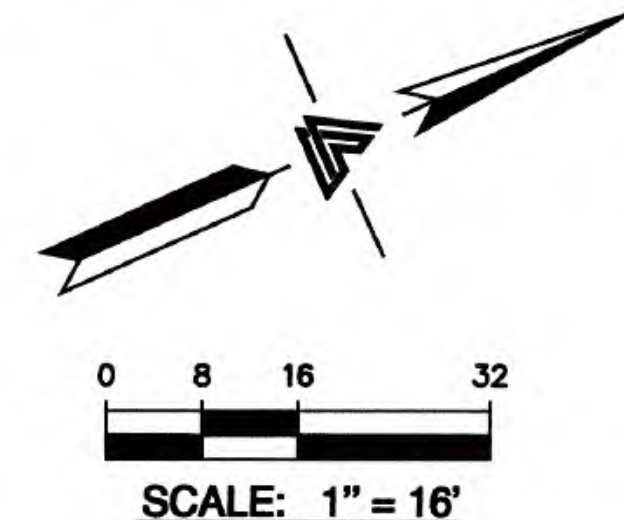
**BASIS OF BEARINGS**

THE BEARING NORTH 24°13'00" EAST ALONG THE WESTERLY RIGHT OF WAY OF HAVEN AVENUE AS SHOWN ON THAT CERTAIN PARCEL MAP FILED IN BOOK 72 OF PARCEL MAPS AT PAGE 46, SAN MATEO COUNTY RECORDS, IS THE BASIS OF ALL BEARINGS SHOWN ON THIS MAP.

**SURVEYOR'S STATEMENT**

I CERTIFY THAT THIS PARCEL'S BOUNDARY WAS ESTABLISHED BY ME OR UNDER MY SUPERVISION AND IS BASED ON A FIELD SURVEY IN CONFORMANCE WITH THE LAND SURVEYOR'S ACT. ALL MONUMENTS ARE OF THE CHARACTER AND OCCUPY THE POSITIONS INDICATED AND ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED.

*Michael W. Thompson* 8-21-23  
 MICHAEL W. THOMPSON DATE  
 L.S. NO. 9023



**LEA & BRAZE ENGINEERING, INC.**  
 CIVIL ENGINEERS & LAND SURVEYORS  
 REGIONAL OFFICES:  
 MAIN OFFICE: 2495 INDUSTRIAL PARKWAY WEST  
 PLEASANTON, CALIFORNIA 94566  
 (510) 887-4686  
 WWW.LEABRAZE.COM

3705 HAVEN AVENUE  
 MENLO PARK  
 CALIFORNIA

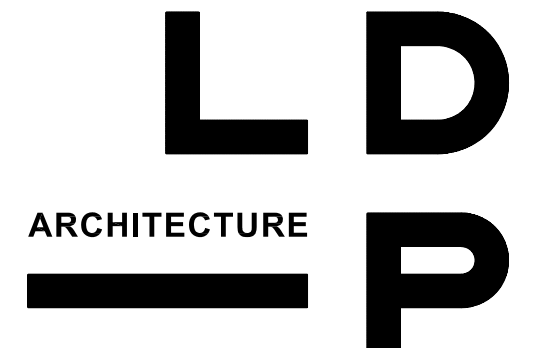
BOUNDARY AND  
 TOPOGRAPHIC SURVEY

PLANNING COMMENTS 8-29-23	DB
REVISIONS	BY
JOB NO: 22122996	
DATE: 2-11-22	
SCALE: 1" = 16'	
BNDY BY: RM	
FIELD BY: BC	
DRAWN BY: JN	
SHEET NO:	





- SHEET LIST**
- L-1 OVERALL LANDSCAPE PLAN
  - L-2 LANDSCAPE PLAN - GROUND FLOOR
  - L-3 LANDSCAPE PLAN - PODIUM & ROOFS
  - L-4 TREE REMOVAL & REPLACEMENT PLAN
  - L-5 WELO CHECKLIST, PLANT PALETTE, AND NOTES
  - L-6 LANDSCAPE FRONTAGE CALCULATIONS



NOTICE:  
 THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY AND COPYRIGHT OF LEVY DESIGN PARTNERS, INC. (LDP ARCHITECTURE) AND SHALL NOT BE USED EXCEPT BY WRITTEN AGREEMENT WITH LEVY DESIGN PARTNERS.



**3705 HAVEN AVE  
 MENLO PARK, CA**

3705 HAVEN AVE  
 MENLO PARK, CA

PROJECT NO. 21-07  
 PARCEL NO. 055170240

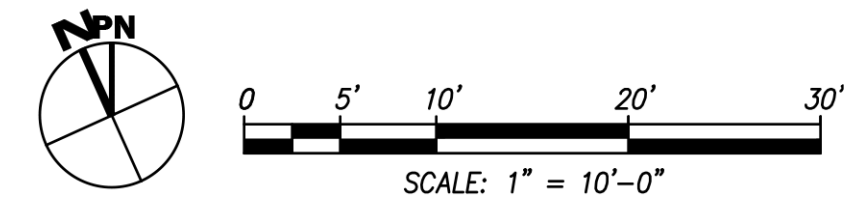
REV	DATE	DESCRIPTION
04-29-2022	SB330 PRELIM APPLICATION	
11-17-2022	PLANNING APPLICATION	
05-12-2023	PLANNING RESUBMITTAL	
09-01-2023	PLANNING RESUBMITTAL DRAFT	
09-21-2023	PLANNING RESUBMITTAL	

CONTACT:

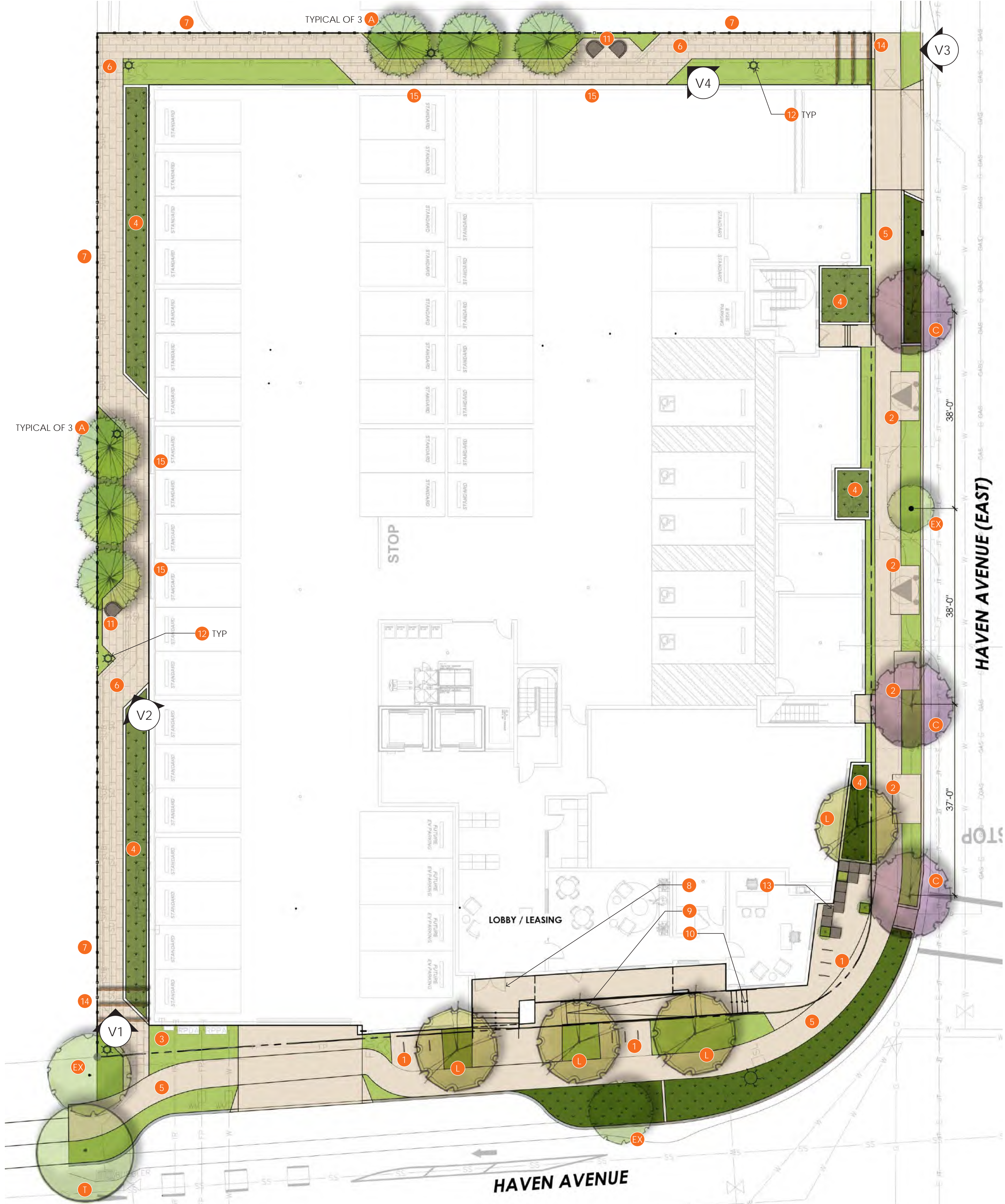
(415) 777-0561 P  
 (415) 777-5117 F

SCALE: 1" = 10'-0"

OVERALL  
 LANDSCAPE PLAN







**LEGEND**

- 1 CLASS II BIKE RACKS, TYP. TOTAL 18 SHORT TERM PARKING SPACES PROVIDED
- 2 UNDERGROUND TRANSFORMER/UTILITY
- 3 BACKFLOWS WITH PLANT SCREENING
- 4 STORMWATER FLOW-THROUGH PLANTER, TYP
- 5 NEW SIDEWALK, SEE CIVIL DRAWINGS
- 6 PUBLICLY ACCESSIBLE OPEN SPACE
- 7 FENCE ALONG PROPERTY LINE
- 8 MAIN ENTRY WITH STAIRCASE
- 9 ACCESSIBLE RAMP
- 10 STAIRS
- 11 SCULPTURAL PRECAST CONCRETE SEATING
- 12 BOLLARD LIGHTS, TYP
- 13 CORNER PLAZA WITH MODULAR STACKED SEATING AND PLANTERS, DECORATIVE PAVERS. BIKE RACKS NEAR THE PLAZA WILL HAVE A UNIQUE DESIGN TO COMPLIMENT THE PLAZA.
- 14 FEATURE GATEWAY WITH LIGHTING
- 15 MURAL OR DECORATIVE ARCHITECTURAL PANEL, TYP. SEE ARCHITECTURAL DRAWINGS AND ELEVATIONS.

NOTE: REFER TO SHEET L-5 FOR PLANT PALETTE AND IMAGERY, IRRIGATION AND PLANTING DESIGN INTENT NOTES.

**TREE LEGEND**

BOTANICAL NAME	COMMON NAME	CONT. SIZE
A AFROCARPUS GRACILIOR	AFRICAN FERN PINE	36" BOX SIZE
L LAURUS NOBILIS 'SARATOGA'	SARATOGA LAUREL	36" BOX SIZE
C LAGERSTROEMIA X 'MUSKOGEE'	MUSKOGEE CRAPE MYRTLE	48" BOX SIZE
T TILIA TOMENTOSA	SILVER LEAF LINDEN	48" BOX SIZE
EX EXISTING TREE		

NOTE: REFER TO SHEET L-4 FOR TREE REMOVAL & REPLACEMENT PLAN.

**PUBLICLY ACCESSIBLE OPEN SPACE: WALKWAY VIEWS**



NOTICE: THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY AND COPYRIGHT OF LEVY DESIGN PARTNERS, INC. (LDP ARCHITECTURE) AND SHALL NOT BE USED EXCEPT BY WRITTEN AGREEMENT WITH LEVY DESIGN PARTNERS.

**3705 HAVEN AVE  
MENLO PARK, CA**

3705 HAVEN AVE  
MENLO PARK, CA

PROJECT NO. 21-07  
PARCEL NO. 055170240

REV	DATE	DESCRIPTION
04-29-2022		SB330 PRELIM APPLICATION
11-17-2022		PLANNING APPLICATION
05-12-2023		PLANNING RESUBMITTAL
09-01-2023		PLANNING RESUBMITTAL DRAFT
09-21-2023		PLANNING RESUBMITTAL

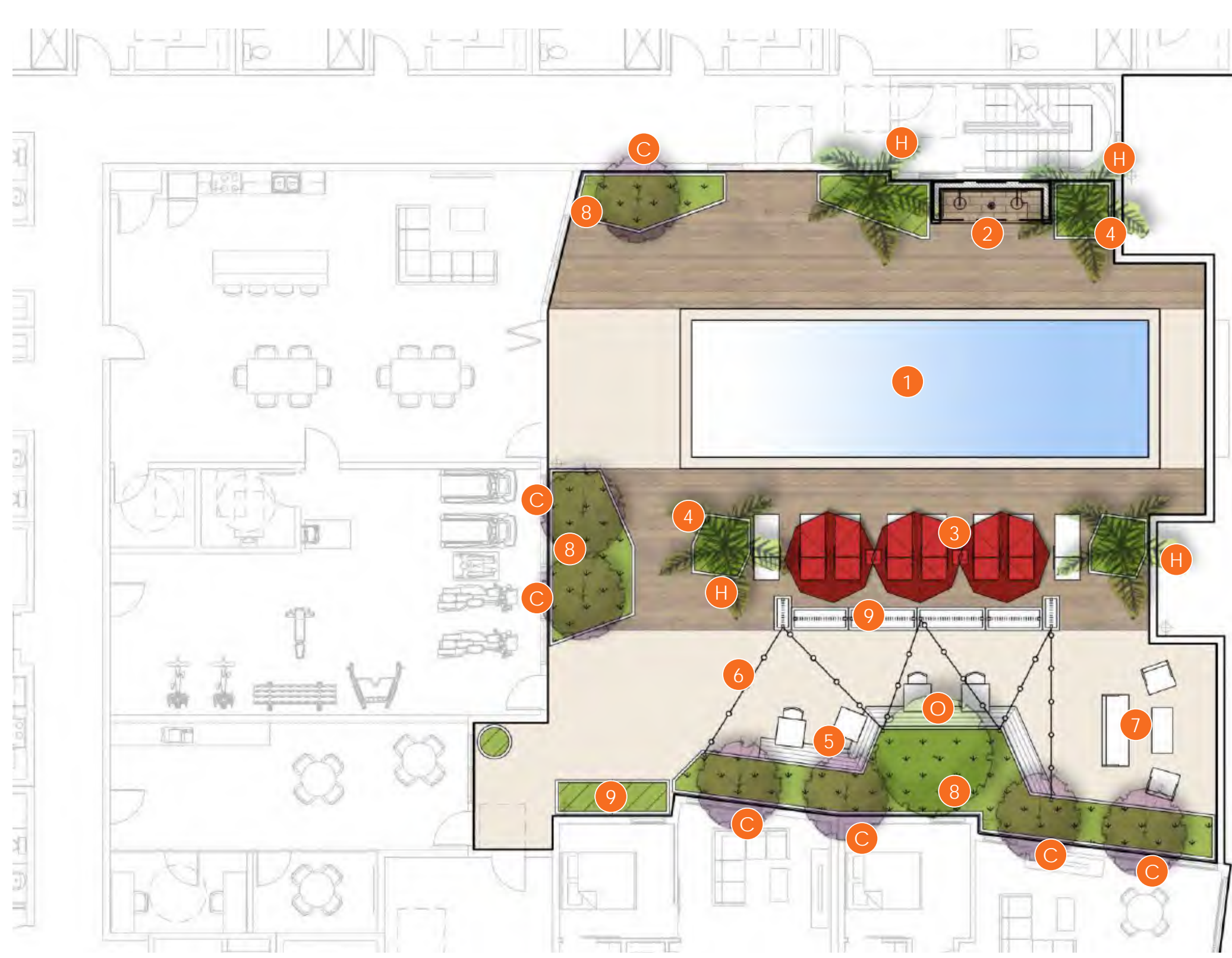
CONTACT:

(415) 777-0561 P  
(415) 777-5117 F

SCALE: 1" = 10'-0"

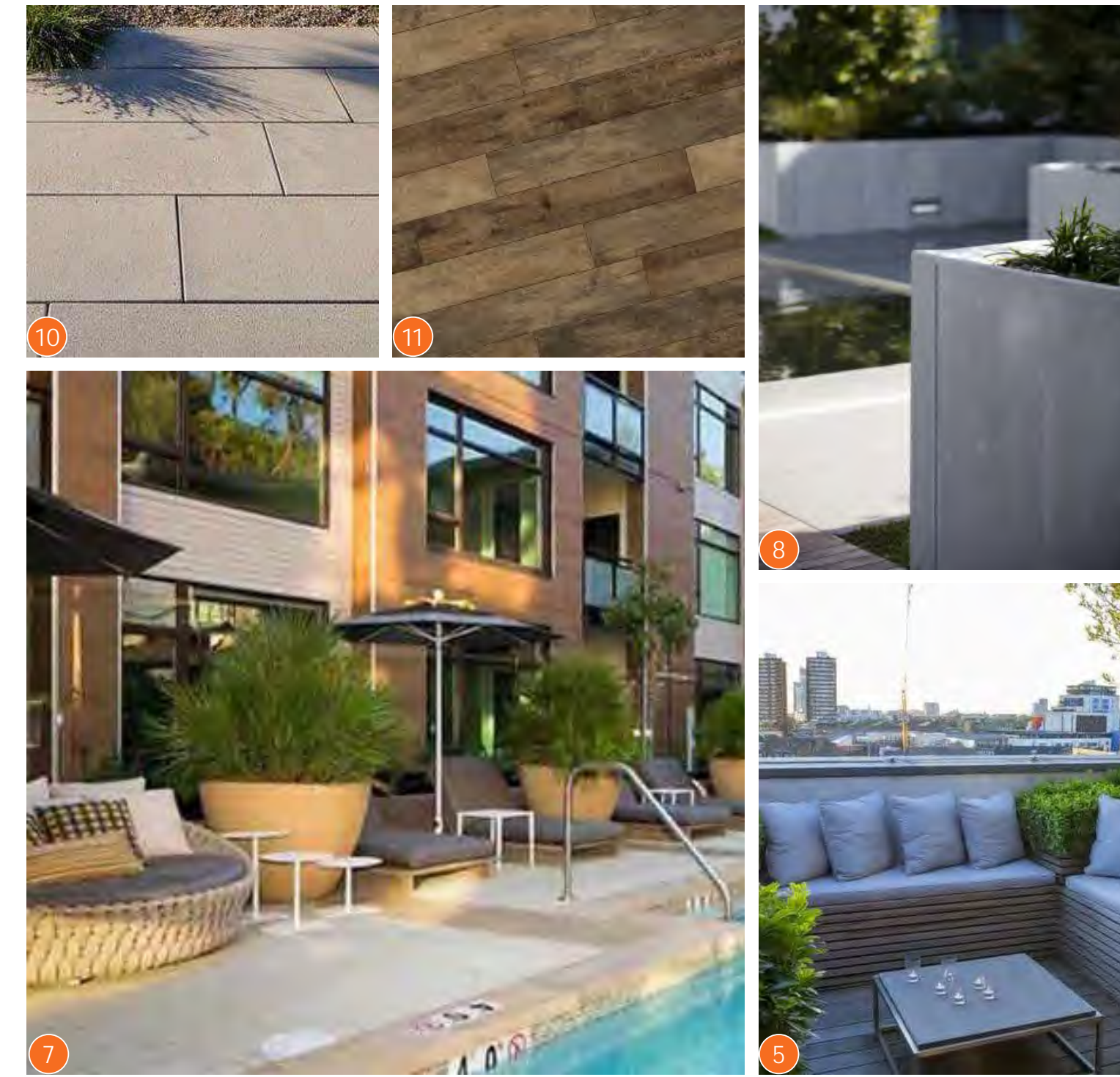
LANDSCAPE PLAN -  
GROUND FLOOR





**LEGEND**

- 1 12X40 POOL
- 2 COVERED OUTDOOR SHOWER
- 3 POOL CHAISE LOUNGE SEATING WITH UMBRELLAS
- 4 PALMS IN RAISED PLANTERS, TYP
- 5 BUILT-IN SEATING
- 6 STRING LIGHTS
- 7 LOUNGE SEATING, TYP
- 8 STORMWATER PLANTERS
- 9 PREFABRICATED PLANTERS, TYP
- 10 PAVER: CONCRETE
- 11 PAVER: WOOD GRAIN



NOTICE: THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY AND COPYRIGHT OF LEVY DESIGN PARTNERS, INC. (LDP ARCHITECTURE) AND SHALL NOT BE USED EXCEPT BY WRITTEN AGREEMENT WITH LEVY DESIGN PARTNERS.

3705 HAVEN AVE  
MENLO PARK, CA

PROJECT NO. 21-07  
PARCEL NO. 055170240

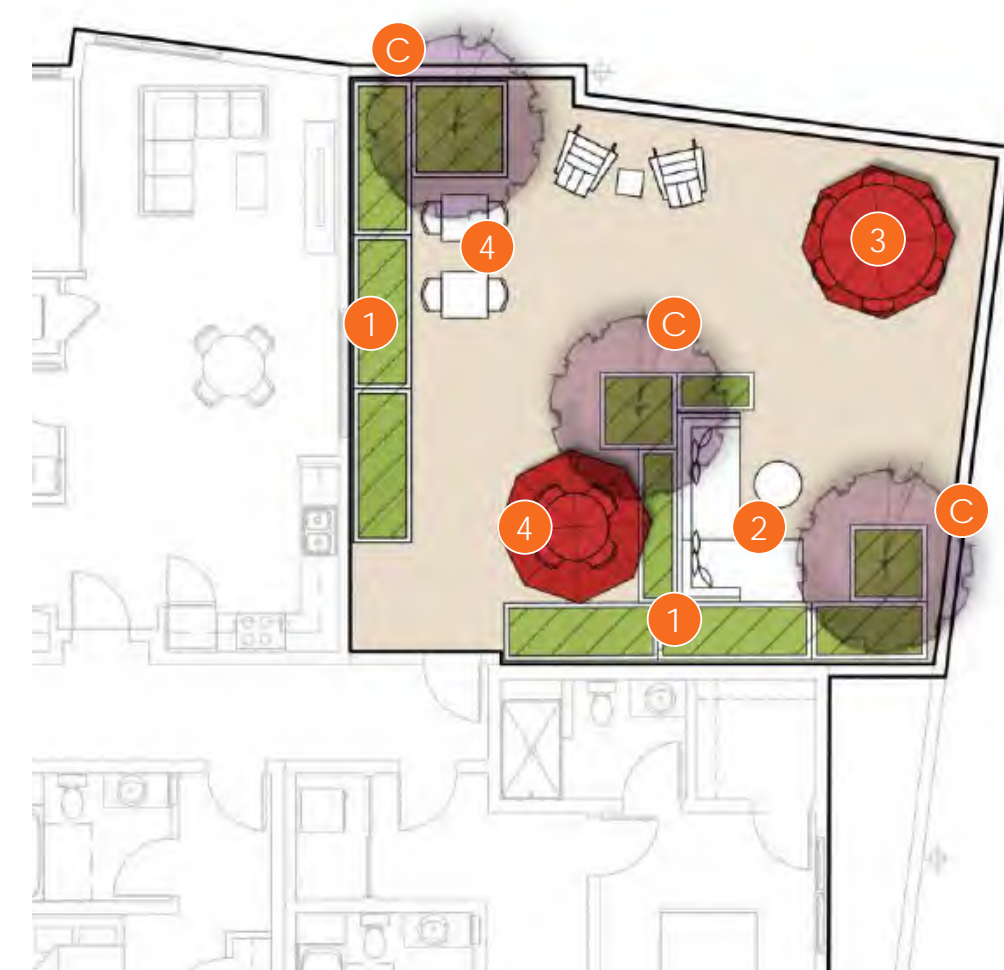
REV	DATE	DESCRIPTION
04-29-2022		SB330 PRELIM APPLICATION
11-17-2022		PLANNING APPLICATION
05-12-2023		PLANNING RESUBMITTAL
09-01-2023		PLANNING RESUBMITTAL DRAFT
09-21-2023		PLANNING RESUBMITTAL

CONTACT:

(415) 777-0561 P  
(415) 777-5117 F

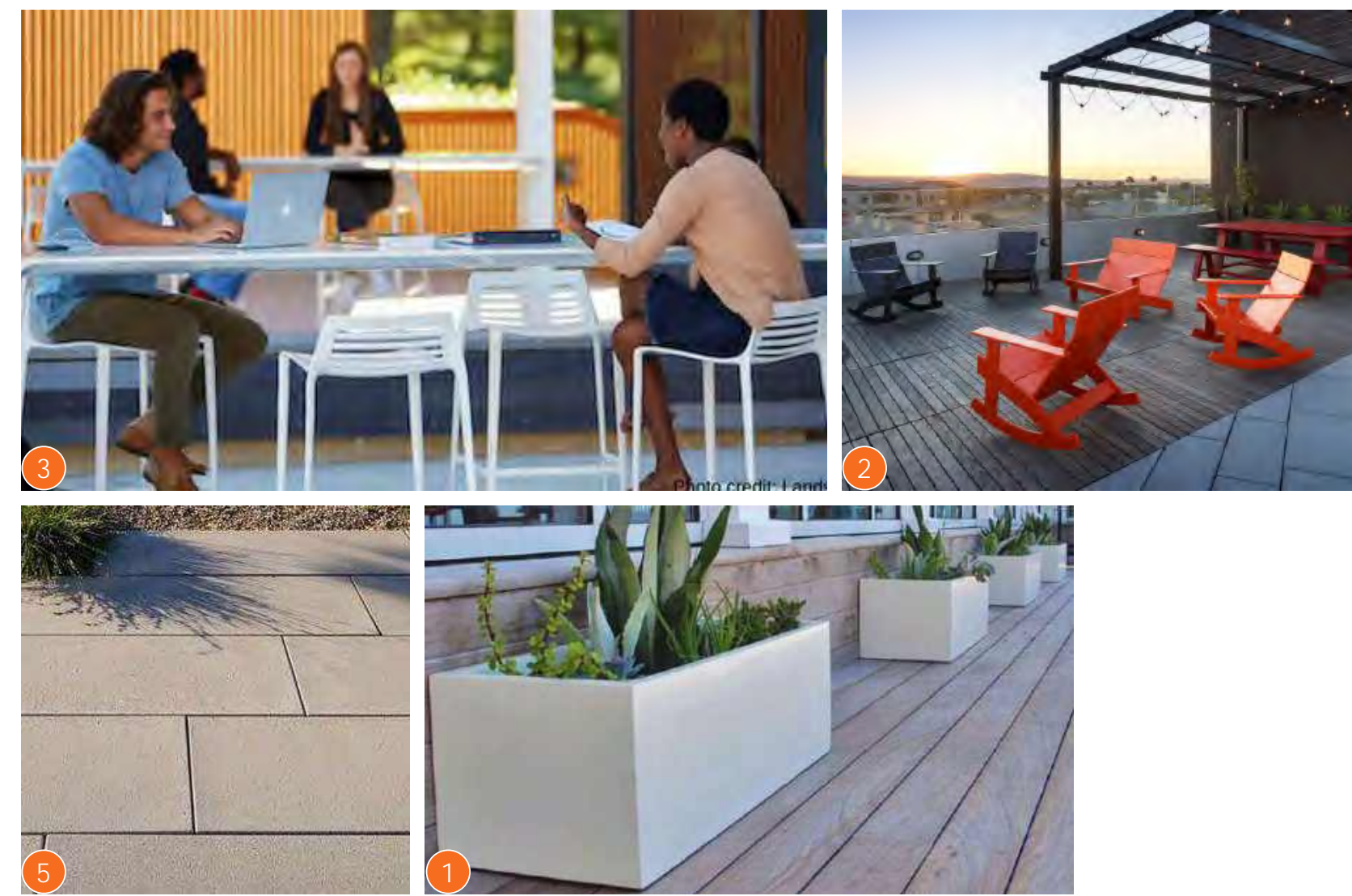
SCALE: 1" = 10'-0"

1 LEVEL 3 PODIUM COURTYARD  
SCALE: 1"=10'-0"



**LEGEND**

- 1 PREFABRICATED PLANTERS, TYP
- 2 LOUNGE SEATING
- 3 COMMUNAL WORK TABLE
- 4 SMALLER WORK AREA, TYP
- 5 PAVER: CONCRETE

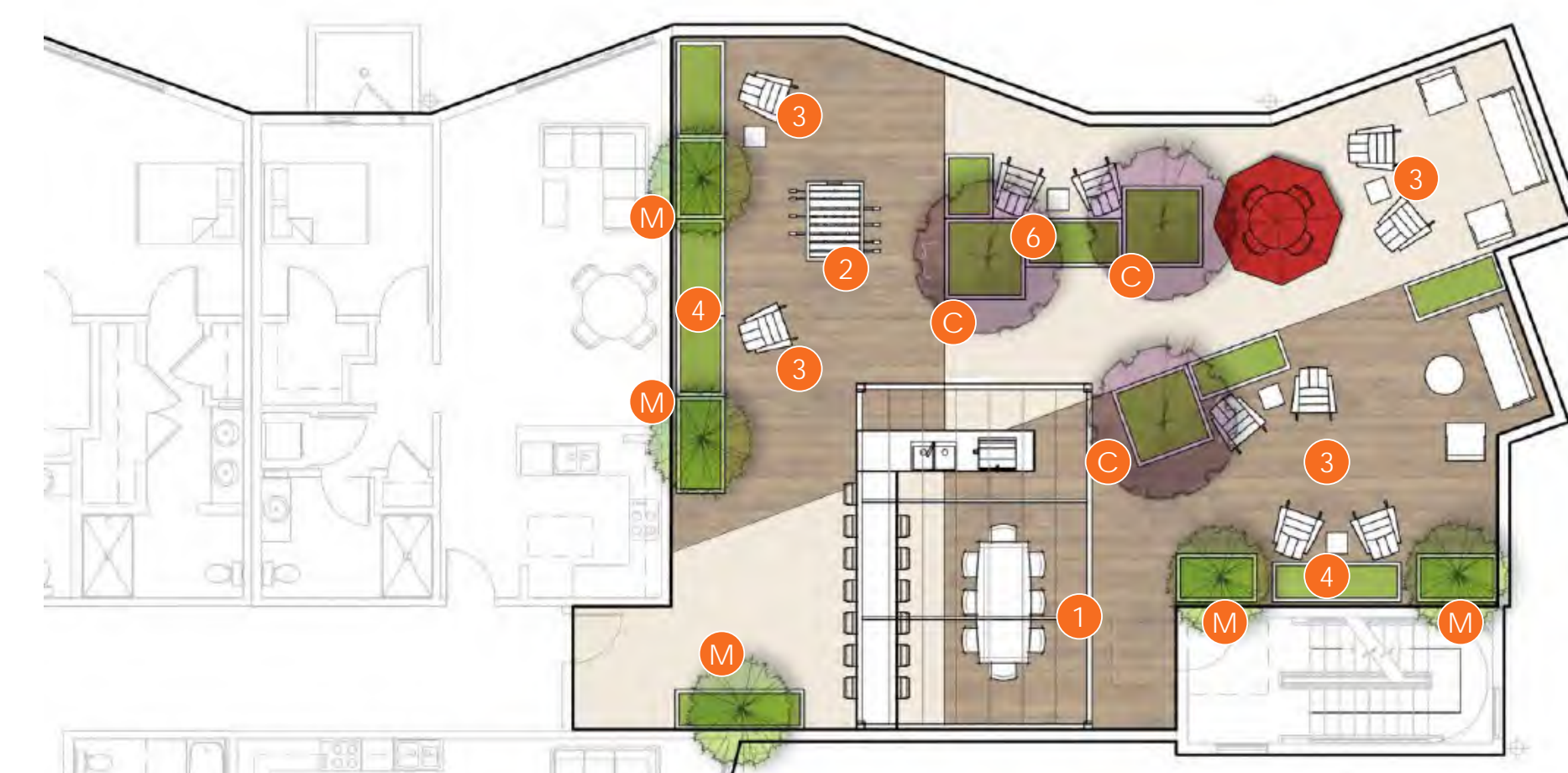


**TREE LEGEND**

	BOTANICAL NAME	COMMON NAME	CONT. SIZE
C	*X CHITALPA 'PINK DAWN'	PINK CHITALPTA	24" BOX
H	HOWEA FORESTRIANA	KENTIA PALM	24" BOX
M	*MAGNOLIA 'LITTLE GEM'	LITTLE GEM MAGNOLIA	24" BOX
O	*OLEA 'SWAN HILL'	SWAN HILL OLIVE	24" BOX

\*OR SIMILAR, SEE PLANT PALETTE ON SHEET L-5  
NOTES: REFER TO SHEET L-4 FOR TREE REMOVAL & REPLACEMENT PLAN.

2 LEVEL 5 ROOF DECK  
SCALE: 1"=10'-0"



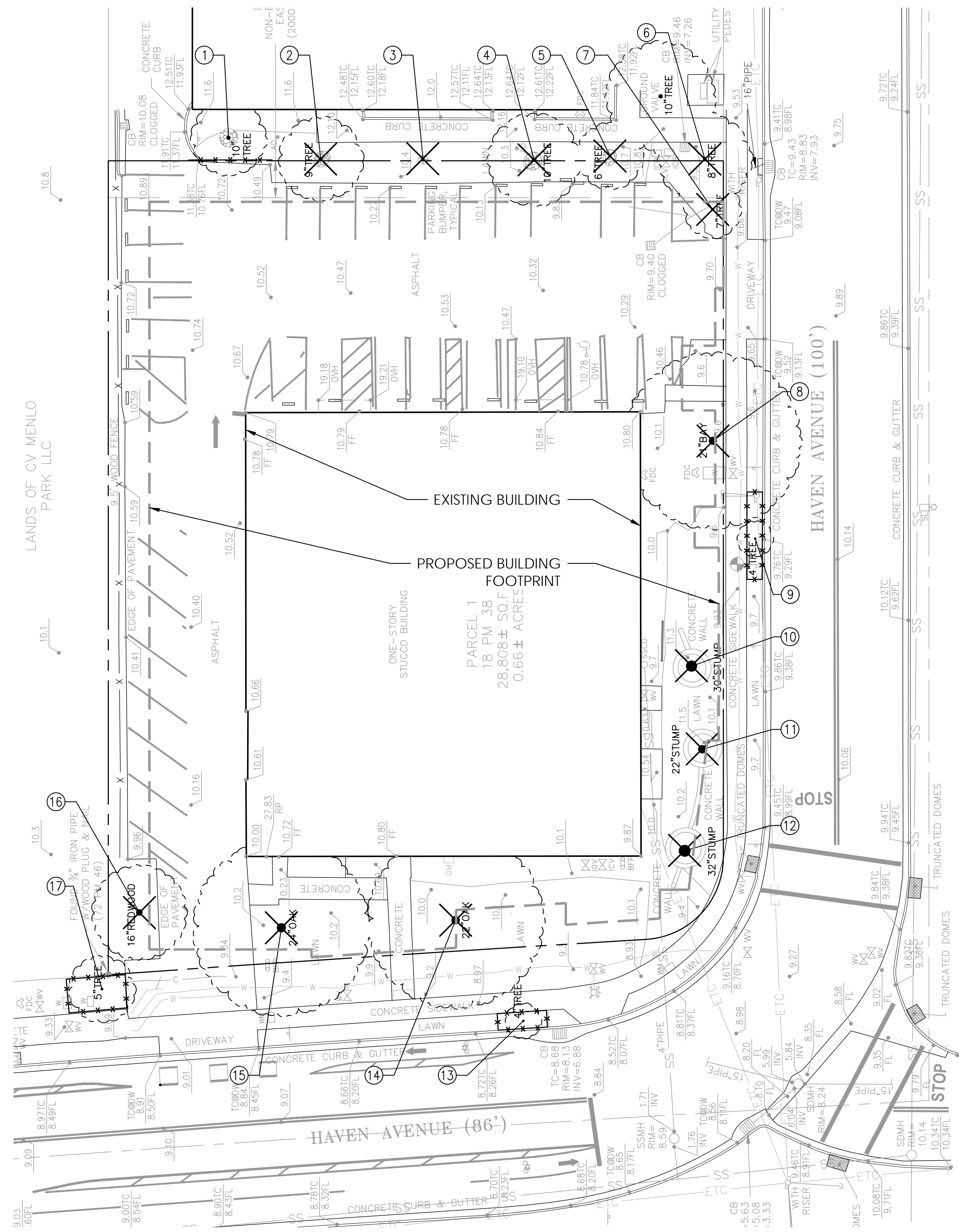
**LEGEND**

- 1 SHADE STRUCTURE WITH OUTDOOR KITCHEN, DINING SPACE, SPACE HEATERS, TV LOUNGE, WITH OVERHEAD LIGHTING
- 2 GAME TABLE
- 3 LOUNGE SEATING, TYP
- 4 PREFABRICATED PLANTERS, TYP
- 5 COMMUNAL DINING TABLE, TYP
- 6 PAVER: CONCRETE
- 7 PAVER: WOOD GRAIN



3 LEVEL 8 ROOF DECK  
SCALE: 1"=10'-0"





**TREE PROTECTION NOTES:**

- 6" LAYER OF COARSE MULCH OR WOODCHIPS IS TO BE PLACED BENEATH THE DRIPLINE OF THE PROTECTED TREES. MULCH IS TO BE KEPT 12" FROM THE TRUNK.
- A PROTECTIVE BARRIER OF 6' CHAIN LINK FENCING SHALL BE INSTALLED AROUND THE DRIPLINE OF PROTECTED TREE(S), "TPZ".
- AVOID THE FOLLOWING CONDITIONS:  
DO NOT:
  - ALLOW RUN OFF OF SPILLAGE OF DAMAGING MATERIALS INTO THE AREA BELOW ANY TREE CANOPY.
  - STORE MATERIALS, STOCKPILE SOIL, OR PARK OR DRIVE VEHICLES WITHIN THE TPZ.
  - CUT, BREAK, SKIN, OR BRUISE ROOTS, BRANCHES, OR TRUNKS WITHOUT FIRST OBTAINING AUTHORIZATION FROM THE CITY ARBORIST.
  - ALLOW FIRES UNDER AND ADJACENT TO TREES.
  - DISCHARGE EXHAUST INTO FOLIAGE.
  - SECURE CABLE, CHAIN, OR ROPE TO TREES OR SHRUBS.
  - TRENCH, DIG, OR OTHERWISE EXCAVATE WITHIN THE DRIPLINE OR TPZ OF THE TREE(S) WITHOUT FIRST OBTAINING AUTHORIZATION FROM THE CITY ARBORIST.
  - APPLY SOIL STERILANTS UNDER PAVEMENT NEAR EXISTING TREES.
- ONLY EXCAVATION BY HAND OR COMPRESSED AIR SHALL BE ALLOWED WITHIN THE DRIPLINE OF TREES. MACHINE TRENCHING SHALL NOT BE ALLOWED.
- AVOID INJURY TO TREE ROOTS.
- ROUTE PIPES OUTSIDE OF THE AREA THAT IS 10 TIMES THE DIAMETER OF A PROTECTED TREE TO AVOID CONFLICT WITH ROOTS.
- ANY DAMAGE DUE TO CONSTRUCTION ACTIVITIES SHALL BE REPORTED TO THE PROJECT ARBORIST OR CITY ARBORIST WITHIN SIX HOURS SO THAT REMEDIAL ACTION CAN BE TAKEN.
- AN ISA CERTIFIED ARBORIST OR ASCA REGISTERED CONSULTING ARBORIST SHALL BE RETAINED AS THE PROJECT ARBORIST TO MONITOR THE TREE PROTECTION SPECIFICATIONS.

- LEGEND**
- EXISTING TREE TO BE REMOVE
  - EXISTING TREE TO REMAIN & PROTECTED
  - TEMPORARY 6' CHAIN-LINK FENCE AT (TPZ), TEMPORARY TREE PROTECTION ZONE

**EXISTING TREES**

TREE NO	TREE SPECIES	STATUS	REASON FOR REMOVAL	SIZE DBH (INCH)	HERITAGE OR PROTECTED TREE	APPRAISED VALVE
1	CALLERY PEAR, PYRUS CALLERYANA	SAVE	-	11.5	NO	-
2	CALLERY PEAR, PYRUS CALLERYANA	REMOVE	IN PROPOSED BUILDING	9.1	NO	-
3	STUMP	REMOVE	-	-	NO	-
4	CALLERY PEAR, PYRUS CALLERYANA	REMOVE	IN PROPOSED BUILDING	10.0	NO	-
5	CALLERY PEAR, PYRUS CALLERYANA	REMOVE	IN PROPOSED BUILDING	7.0	NO	-
6	CALLERY PEAR, PYRUS CALLERYANA	REMOVE	IN PROPOSED BUILDING	10.0	NO	-
7	JAPANESE MAPLE, ACER PALMATUM	REMOVE	IN PROPOSED BUILDING	6.9	NO	-
8	EUCALYPTUS SPP.	REMOVE	STRUCTURAL ISSUES	24.0	HERITAGE	\$12,500.00
9	CRAPE MYRTLE, LAGERSTROEMIA INDICA	SAVE	-	4.0	NO	-
10	STUMP	REMOVE	-	-	NO	-
11	STUMP	REMOVE	-	-	NO	-
12	STUMP	REMOVE	-	-	NO	-
13	LINDEN, TILIA SPP.	SAVE	-	4.0	NO	-
14	COAST LIVE OAK, QUERCUS AGRIFOLIA	REMOVE	IN PROPOSED BUILDING	20.5	HERITAGE	\$10,800.00
15	COAST LIVE OAK, QUERCUS AGRIFOLIA	REMOVE	IN PROPOSED BUILDING	23.7	HERITAGE	\$14,400.00
16	COAST REDWOOD, SEQUOIA SEMPERVIRENS	REMOVE	IN PROPOSED GRADING	14.4	NO	-
17	ZELKOVA, ZELKOVA SERRATA	SAVE	-	5.0	NO	-
TOTAL NUMBER OF (E) TREES					17	
TOTAL NUMBER OF (E) TREES TO BE REMOVED					13	
TOTAL NUMBER OF HERITAGE TREES TO BE REMOVED					4	
<b>TOTAL APPRAISED VALVE</b>						<b>\$37,700.00</b>

REFER TO FULL ARBORIST REPORT AS PREPARED BY KATHERINE NAEGELE AT AESCULUS ARBORCULTURAL CONSULTING (AACARBOR.COM), DATED 05-30-2022.

**REPLACEMENT TREE**

BOTANICAL NAME	COMMON NAME	CONT SIZE	MONETARY VALUE	QTY	VALUE PER TREE
<b>STREET TREE</b>					
LAGERSTROEMIA x 'MUSKOGEE'	'MUSKOGEE' CRAPE MYRTLE	48" BOX	\$5,000.00	3	\$15,000.00
TILIA TOMENTOSA	SILVER LINDEN	48" BOX	\$5,000.00	1	\$5,000.00
<b>TREE ON GROUND LEVEL</b>					
AFROCARPUS GRACILIOR	AFRICAN FERN PINE	36" BOX	\$1,200.00	6	\$7,200.00
LAURUS NOBILIS 'SARATOGA'	SARATOGA LAUREL	36" BOX	\$1,200.00	4	\$4,800.00
<b>TREE ON PODIUM AND ROOF TERRACE</b>					
x CHITALPA 'PINK DAWN'	PINK CHITALPA	24" BOX	\$400.00	13	\$5,200.00
HOWEA FORESTRIANA	KENTIA PALM	24" BOX	\$400.00	4	\$1,600.00
MAGNOLIA 'LITTLE GEM'	LITTLE GEM MAGNOLIA	24" BOX	\$400.00	5	\$2,000.00
OLEA 'SWAN HILL'	SWAN HILL OLIVE	24" BOX	\$400.00	1	\$400.00
<b>TOTAL VALVE</b>					<b>\$41,200.00</b>

APPROVED HERITAGE REPLACEMENT TREES & MONETARY VALUE PER SIZES REFER TO CITY ORDINANCE SECTION 13.24.090. ALSO SEE SHEET L-1 LANDSCAPE PLANS.

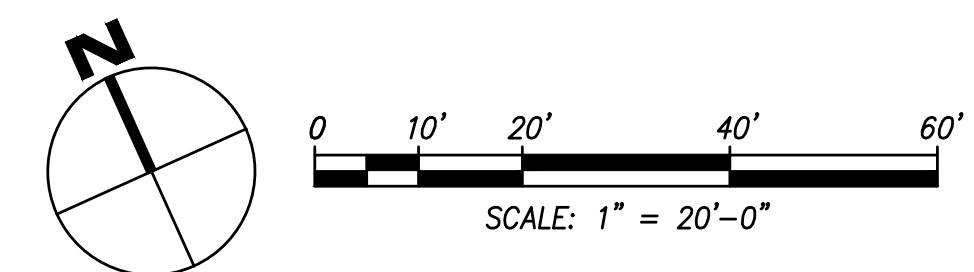
REV	DATE	DESCRIPTION
04-29-2022	SB330 PRELIM APPLICATION	
11-17-2022	PLANNING APPLICATION	
05-12-2023	PLANNING RESUBMITTAL	
09-01-2023	PLANNING RESUBMITTAL DRAFT	
09-21-2023	PLANNING RESUBMITTAL	

CONTACT:














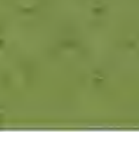

(415) 777-0561 P  
(415) 777-5117 F

SCALE: 1" = 10'-0"

TREE REMOVAL & REPLACEMENT PLAN





PRELIMINARY PLANT PALETTE					
SYMBOL	BOTANICAL NAME	COMMON NAME	CONT SIZE	SPACING	WTR USE
<b>STREET TREES</b>					
	LAGERSTROEMIA x 'MUSKOGEE'	'MUSKOGEE' CRAPE MYRTLE	48" BOX	PER PLAN	L
	TILIA TOMENTOSA	SILVER LINDEN	48" BOX	PER PLAN	L
<b>TREES ON GROUND LEVEL</b>					
	AFROCARPUS GRACILIOR	AFRICAN FERN PINE	36" BOX	PER PLAN	M
	LAURUS NOBILIS 'SARATOGA'	SWEET BAY	36" BOX	PER PLAN	L
<b>PODIUM AND ROOF TERRACE TREES</b>					
	X CHITALPA TASHKENTENSIS 'PINK DAWN'	PINK CHITALPA	24" BOX	PER PLAN	L
	ACER PALMATUM 'SANGO KAKU'	JAPANESE MAPLE	24" BOX	PER PLAN	M
	ALBIZIA JULIBRISSIN 'ROSEA'	MIMOSA TREE	24" BOX	PER PLAN	L
	ARBUTUS 'MARINA'	'MARINA' STRAWBERRY TREE	24" BOX	PER PLAN	L
	HOWEA FORSTERIANA	KENTIA PALM	24" BOX	PER PLAN	M
	KOELREUTERIA BIPINNATA	CHINESE FLAME TREE	24" BOX	PER PLAN	M
	MAGNOLIA GRANDIFLORA 'LITTLE GEM'	LITTLE GEM MAGNOLIA	24" BOX	PER PLAN	M
	OLEA EUROPAEA 'SWAN HILL'	SWAN HILL FRUITLESS OLIVE	24" BOX	PER PLAN	L
<b>SHRUBS, GRASSES &amp; PERENNIALS</b>					
	ACACIA COGNATA 'COUSIN ITT'	LITTLE RIVER WATTLE	5 GAL	4'-0" OC	L
	AEONIUM 'MINT SAUCER'	SAUCER PLANT	1 GAL	2'-0" OC	L
	AGAVE ATTENUATA 'NOVA'	BLUE FOXTAIL AGAVE	1 GAL	5'-0" OC	L
	ARCTOSTAPHYLOS 'JOHN DOURLEY'	JOHN DOURLEY MANZANITA	5 GAL	4'-0" OC	L
	ASPIDISTRA ELATIOR	CAST IRON PLANT	1 GAL	2'-0" OC	L
	CEANOETHUS 'DARK STAR'	DARK STAR CEANOETHUS	1 GAL/♀	8'-0" OC	L
	CHONDROPETALUM TECTORUM 'EL CAMPO'	EL CAMPO CAPE RUSH	5 GAL/♀	4'-0" OC	L
	CISTUS X HYBRIDUS	ROCK ROSE	5 GAL/♀	1'-0" OC	L
	DIANELLA REVOLUTA 'LITTLE REV'	LITTLE REV FLAX LILY	5 GAL	2'-0" OC	L
	DIETES BICOLOR	FORTNIGHT LILY	5 GAL	3'-0" OC	L
	EUPHORBIA X MARTINII 'RED MARTIN'	SPURGE	1 GAL/♀	2'-0" OC	L
	FESTUCA MAIREI	MT ATLAS FESCUE	1 GAL/♀	3'-0" OC	L
	HELIHOTRICHON SEMPERVIRENS	BLUE OAT GRASS	1 GAL/♀	2'-0" OC	L
	HESPERALOE PARVIFOLIA 'BREAKLIGHT'	RED YUCCA	5 GAL	4'-0" OC	L
	NANDINA 'LEMON LIME'	HEAVENLY BAMBOO	5 GAL/♀	2'-0" OC	L
	LOMANDRA L. 'BREEZE'	DWARF MAT RUSH	1 GAL	3'-0" OC	L
	MAHONIA AQUIFOLIUM	OREGON GRAPE	♀	2'-0" OC	L
	MUHLENBERGIA DUBIA	PINE MUHLY	5 GAL	2'-6" OC	L
	PITOSPORUM 'CREMA DE MINT'	DWARF MOCK ORANGE	5 GAL	3'-0" OC	L
	PITOSPORUM TENUIFOLIUM 'SILVER SHEEN'	SILVER SHEEN KOHUJU	5 OR **1.5 GAL/♀	3'-0" OC	L
	POLYSTICHUM MUNIUM	WESTERN SWORD FERN	1 GAL	3'-0" OC	M
	SARCOCOCCA HOOKERIANA VAR HUMILIS	SWEET BOX	1 GAL/♀	3'-0" OC	L
	SOLLYA HETEROPHYLLA	AUSTRALIAN BLUEBELL	5 GAL	3'-0" OC	L
	LOROPETALUM CHINENSE 'SHANG-WHITE'	EMERALD SNOW FRINGE FLOWER	5 GAL	4'-0" OC	L
	PHORMIUM SPECIES	NEW ZEALAND FLAX	5 GAL	VARIES	L
	PITOSPORUM TOBIRA 'VARIEGATA'	VARIEGATED MOCK ORANGE	5 GAL	4'-0" OC	L
	ROSMARINUS TUSCAN BLUE	ROSEMARY	5 GAL	4'-0" OC	L
	SALVIA LEUCANTHA 'SANTA BARBARA'	MEXICAN BUSH SAGE	5 GAL	4'-0" OC	L
	SANTOLINA CHAMAECYPARISSUS	GRAY LAVENDER COTTON	1 GAL	3'-0" OC	L
<b>GROUND COVER</b>					
	CAREX TUMULICOLA	BERKELEY SEDGE	1 GAL	3'-0" OC	L
	CISTUS S. 'PROSTRATUS'	SAGELEAF ROCKROSE	1 GAL	4'-0" OC	L
	SATUREJA DOUGLASII	YERBA BUENA	1 GAL	2'-0" OC	L
	SASA VEITCHII	NAGASA BAMBOO	1 GAL	3'-0" OC	L
	SENECIO SERPENS	BLUE CHALK STICK	1 GAL	2'-0" OC	L
	STACHYS BYZANTINA	LAMB'S EAR	1 GAL	1'-6" OC	L
<b>STORMWATER</b>					
	CAREX TUMULICOLA	BERKELEY SEDGE	5 GAL	2'-0" OC	L
	CHONDROPETALUM ELEPHANTINUM	LARGE CAPE RUSH	5 GAL	6'-0" OC	L
	FESTUCA MAIREI	ATLAS FESCUE	5 GAL	3'-0" OC	L
	IRIS DOUGLASIANA	DOUGLAS IRIS	5 GAL	2'-0" OC	L
	JUNCUS PATENS	CALIFORNIA GRAY RUSH	5 GAL	2'-6" OC	L
	SALVIA ULIGINOSA	BLUE SPIKE SAGE	5 GAL	2'-0" OC	L
	SYRINGIUM BELLUM 'NORTH COAST'	BLUE-EYED GRASS	5 GAL	1'-0" OC	L

## PLANT IMAGERY TREES



## SHRUBS, GRASSES & PERENNIALS

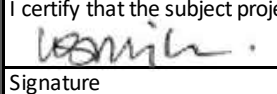


## IRRIGATION DESIGN INTENT

- THESE PLANT SHALL COMPLY WITH THE REQUIREMENTS OF THE STATE OF CALIFORNIA'S MODEL WATER EFFICIENT LANDSCAPE ORDINANCE (MWELO), AND THE CITY OF MENLO PARK DESIGN GUIDELINES.
- IRRIGATION WITHIN PUBLIC RIGHT OF WAY SHALL COMPLY WITH CITY STANDARD DETAILS LS-1 THROUGH LS-19 AND SHALL BE CONNECTED TO THE ON-SITE WATER SYSTEM.
- THE IRRIGATION SYSTEM SHALL BE DESIGNED TO PROVIDE THE MINIMUM AMOUNT OF WATER NECESSARY TO SUSTAIN GOOD PLANT HEALTH.
- THE IRRIGATION SYSTEM IS TO BE A FULLY AUTOMATIC, WEATHER-BASED SYSTEM USING RAIN SENSOR, LOW FLOW DRIP AND BUBBLER DISTRIBUTION, AND SPRINKLERS WITH MATCHED PRECIPITATION RATE NOZZLES DESIGNED FOR HEAD-TO-HEAD COVERAGE.
- IRRIGATION CONTROLLER DO NOT LOSE PROGRAMMING DATA WHEN POWER SOURCE IS INTERRUPTED.
- ALL SELECTED COMPONENTS SHALL BE PERMANENT, COMMERCIAL GRADE, SELECTED FOR DURABILITY, VANDAL RESISTANCE, AND MINIMUM MAINTENANCE REQUIREMENT.
- THE SYSTEM SHALL INCLUDE A MANUAL SHUT-OFF VALVE, PRESSURE REGULATOR, MASTER CONTROL VALVE, AND FLOW SENSING CAPABILITY WHICH WILL SHUT DOWN ALL OR PART OF THE SYSTEM IF LEAKS ARE DETECTED.
- THE IRRIGATION SYSTEM SHALL BE DESIGNED TO DELIVER WATER TO HYDROZONES BASED ON MOISTURE REQUIREMENTS OF THE PLANT GROUPING.

## PLANTING DESIGN INTENT

- ALL TREES WITHIN 5' OF PAVEMENT SHALL USE TREE ROOT BARRIERS.
- ALL TREES, EXISTING AND PROPOSED, SHALL BE A MINIMUM OF FIVE (5) FEET FROM ANY EXISTING OR PROPOSED ELECTRIC DEPARTMENT FACILITIES. EXISTING TREES IN CONFLICT WILL HAVE TO BE REMOVED. TREES SHALL NOT BE PLANTED IN PUE'S OR ELECTRIC EASEMENTS.
- THE PLANTING DESIGN SHALL UTILIZE A VARIETY OF MEDITERRANEAN-STYLE, NATIVE, AND DROUGHT-TOLERANT PLANT SPECIES TO CREATE LAYERS OF COLOR AND TEXTURE TO COMPLEMENT THE ARCHITECTURE AND SETTING.
- PLANT SPECIES SHALL BE SELECTED BASED ON LOCAL CLIMATE SUITABILITY, DISEASE AND PEST RESISTANCE, AND WATER-USE AS LISTED IN THE STATE OF CALIFORNIA'S MODEL WATER EFFICIENT LANDSCAPE ORDINANCE (MWELO) PLANT LIST, WUCOLS IV.
- 80% OF PLANT MATERIAL TO BE NATIVE OR LOW WATER USE AND FOLLOW MWELO GUIDELINES.
- TURF/LAWN SHALL NOT EXCEED 10% OF THE LANDSCAPE AREA. TURF SPECIES, IF INCLUDED, SHALL BE A FESCUE-BLEND TURF GRASS TO MINIMIZE WATER CONSUMPTION.
- NO PLANT CONSIDERED INVASIVE IN THE REGION AS LISTED BY THE CAL-IPC WILL BE USED.
- THE PLANTING DESIGN SHALL ALLOW FOR THE PLANTS TO REACH THEIR NATURAL, FULL-GROWN SIZE TO ELIMINATE THE NEED FOR EXCESSIVE PRUNING OR HEDGING.
- PLANTS SHALL BE GROUPED IN HYDROZONES BASED ON WATER USE AND EXPOSURE.
- TREE LOCATIONS SHALL BE DESIGNED FOR MAXIMUM AESTHETIC EFFECTS AND PASSIVE SOLAR BENEFITS, CREATING SUMMER SHADE AND WINTER SUN EXPOSURE.
- ALL PLANTING AREAS SHALL RECEIVE A 3-INCH LAYER OF MULCH.

City of Menlo Park - Water Efficient Landscape Ordinance (WELO) Landscape Application Checklist			
Page 1 of 2			
I certify that the subject project meets the specified requirements of the Water Conservation in Landscaping Ordinance.			
Signature: 		Date: 7/29/2022	
<b>Project Information</b>			
<input checked="" type="checkbox"/> New Construction <input type="checkbox"/> Rehabilitated <input type="checkbox"/> Other:			
<input type="checkbox"/> Single Family <input checked="" type="checkbox"/> Multi-Family <input type="checkbox"/> Institutional <input type="checkbox"/> Irrigation only <input type="checkbox"/> Industrial <input type="checkbox"/> Other:			
Applicant Name (print): March Capital Fund		Contact Phone #: (310) 498-7575	
Project Site Address: 3705 Haven Avenue			
Project Area (sq. ft. or acre): 28,808sf	# of Units: 112	# of Meters: 2 (dom+irr)	Agency Review (Pass) (Fail)
For a single-family project, or a single-family development project, enter this information on an average, per unit basis. For all other projects, input an aggregate value for the entire project.		Total Landscape Area (sq. ft.): 4,102	<input type="checkbox"/> <input type="checkbox"/>
		Turf Irrigated Area (sq. ft.): 0	<input type="checkbox"/> <input type="checkbox"/>
		Non-Turf Irrigated Area (sq. ft.): 4,102	<input type="checkbox"/> <input type="checkbox"/>
		Irrigated Special Landscape Area (SLA) (sq. ft.): 0	<input type="checkbox"/> <input type="checkbox"/>
		Water Feature Surface Area (sq. ft.): 480 (pool)	<input type="checkbox"/> <input type="checkbox"/>
<b>Compliance (Choose One)</b>			
<input type="checkbox"/> Prescriptive A (Residential under 2,500 SF)	Impacted landscape is ≤ 2,500 sf Project has 25% max turf Project has 75% low WUCOLS (0.3 avg)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> <input type="checkbox"/>
<input type="checkbox"/> Prescriptive B (Commercial under 2,500 SF)	Impacted landscape is ≤ 2,500 sf Project has 0% turf Project has 100% low WUCOLS (0.3 avg)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No	
<input type="checkbox"/> Prescriptive C (All Projects over 2,500 SF)	Impacted landscape is ≥ 2,500 sf Project has 0% turf and 0% High WUCOLS Project has 80% low WUCOLS	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No	
<input checked="" type="checkbox"/> Water Budget	Worksheet is from City's WELO webpage ETWU < MAWA	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
		Documentation to be provided in Improvement Plans	
<b>Landscape Parameter Requirements Project Compliance</b>			
<b>Turf</b>	There is no turf in parkways < 10 feet wide All turf is planted on slopes ≤ 25%	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No, if adjacent to a parking strip <input checked="" type="checkbox"/> Yes	<input type="checkbox"/> <input type="checkbox"/>
<b>Hydrozones</b>	Plants are grouped by Hydrozones	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> <input type="checkbox"/>
<b>Compost</b>	At least 4 cubic yards per 1,000 sq ft to a depth of 6 inches	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No, See Soil Test	<input type="checkbox"/> <input type="checkbox"/>
<b>Mulch</b>	At least 3-inches of mulch on exposed soil surfaces	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> <input type="checkbox"/>
<b>Irrigation System</b>	Use of automatic irrigation controllers that use evapotranspiration or soil moisture sensor data and utilize a rain sensor	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> <input type="checkbox"/>
	Irrigation controllers do not lose programming data when power source is interrupted	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> <input type="checkbox"/>
	Irrigation system includes pressure regulators	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> <input type="checkbox"/>
	Manual shut-off valves are installed near the connection to the water supply	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> <input type="checkbox"/>
<b>Metering</b>	Separate irrigation meter (Residential ONLY)	<input type="checkbox"/> Yes <input type="checkbox"/> No, not required if < 5,000 sq ft	<input type="checkbox"/> <input type="checkbox"/>
	Separate irrigation submeters for landscape areas ≥ 1,000 sq ft (Commercial ONLY)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> <input type="checkbox"/>
<b>Swimming Pools / Spas</b>	Cover required for new pools and spas	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No, no new pool or spa	<input type="checkbox"/> <input type="checkbox"/>
<b>Water Features</b>	Recirculating	<input type="checkbox"/> Yes NA	<input type="checkbox"/> <input type="checkbox"/>
	Project Information	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> <input type="checkbox"/>
<b>Documentation (per section 492.3)</b>	Water Budget Calculation Worksheet (optional if Prescriptive Option is chosen)	<input type="checkbox"/> Prepared by professional	<input type="checkbox"/> <input type="checkbox"/>
	Landscape Design Plan (optional if < 1,000 sq ft of landscape area)	<input type="checkbox"/> Prepared by professional	<input type="checkbox"/> <input type="checkbox"/>
	Irrigation Design Plan (optional if < 1,000 sq ft of landscape area)	<input type="checkbox"/> Prepared by professional	<input type="checkbox"/> <input type="checkbox"/>
<b>Audit</b>	Grading Design Plan (optional if < 1,000 sq ft of landscape area)	<input type="checkbox"/> Prepared by professional	<input type="checkbox"/> <input type="checkbox"/>
	Landscape Audit Report completed	<input type="checkbox"/> Completed by professional	<input type="checkbox"/> <input type="checkbox"/>
<b>Auditor:</b>	<b>Material Distributed to Applicant</b>		
<b>Materials Received and Reviewed:</b>	<input type="checkbox"/> Project Information	<input type="checkbox"/> Regional Water Efficient Landscape Ordinance	
	<input type="checkbox"/> Water Budget Calculation Worksheet	<input type="checkbox"/> Landscape Application Checklist	
	<input type="checkbox"/> Landscape Application Checklist	<input type="checkbox"/> Water Budget Calculation Worksheet	
	<input type="checkbox"/> Certificate of Completion	<input type="checkbox"/> WUCOLS Listing	
	<input type="checkbox"/> Landscape Audit Report	<input type="checkbox"/> Other:	
	<input type="checkbox"/> Landscape Design Plan w/ WUCOLS Listing		
	<input type="checkbox"/> Soil Management Report		
<input type="checkbox"/> Irrigation Design Plan			
<input type="checkbox"/> Grading Design Plan			
<b>Date Reviewed:</b>	<b>Measures Recommended to Applicant</b>		
<input type="checkbox"/> Follow up required (explain):	<input type="checkbox"/> Drip irrigation		
<b>Date Resubmitted:</b>	<input type="checkbox"/> Plant palette		
<b>Date Approved:</b>	<input type="checkbox"/> Grading		
<b>Dedicated Irrigation Meter Required:</b>	<input type="checkbox"/> Pool and/or spa cover		
<b>Meter sizing:</b>	<input type="checkbox"/> Dedicated irrigation meter		
<b>Comments:</b>	<input type="checkbox"/> Other:		

Page 2 of 2			
<b>Metering</b>	Separate irrigation meter (Residential ONLY)	<input type="checkbox"/> Yes <input type="checkbox"/> No, not required if < 5,000 sq ft	<input type="checkbox"/> <input type="checkbox"/>
<b>Swimming Pools / Spas</b>	Cover required for new pools and spas	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No, no new pool or spa	<input type="checkbox"/> <input type="checkbox"/>
<b>Water Features</b>	Recirculating	<input type="checkbox"/> Yes NA	<input type="checkbox"/> <input type="checkbox"/>
<b>Documentation (per section 492.3)</b>	Project Information	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> <input type="checkbox"/>
	Water Budget Calculation Worksheet (optional if Prescriptive Option is chosen)	<input type="checkbox"/> Prepared by professional	<input type="checkbox"/> <input type="checkbox"/>
<b>Audit</b>	Landscape Design Plan (optional if < 1,000 sq ft of landscape area)	<input type="checkbox"/> Prepared by professional	<input type="checkbox"/> <input type="checkbox"/>
	Irrigation Design Plan (optional if < 1,000 sq ft of landscape area)	<input type="checkbox"/> Prepared by professional	<input type="checkbox"/> <input type="checkbox"/>
	Grading Design Plan (optional if < 1,000 sq ft of landscape area)	<input type="checkbox"/> Prepared by professional	<input type="checkbox"/> <input type="checkbox"/>
<b>Audit</b>	Landscape Audit Report completed	<input type="checkbox"/> Completed by professional	<input type="checkbox"/> <input type="checkbox"/>
<b>Auditor:</b>	<b>Material Distributed to Applicant</b>		
<b>Materials Received and Reviewed:</b>	<input type="checkbox"/> Project Information	<input type="checkbox"/> Regional Water Efficient Landscape Ordinance	
	<input type="checkbox"/> Water Budget Calculation Worksheet	<input type="checkbox"/> Landscape Application Checklist	
	<input type="checkbox"/> Landscape Application Checklist	<input type="checkbox"/> Water Budget Calculation Worksheet	
	<input type="checkbox"/> Certificate of Completion	<input type="checkbox"/> WUCOLS Listing	
	<input type="checkbox"/> Landscape Audit Report	<input type="checkbox"/> Other:	
	<input type="checkbox"/> Landscape Design Plan w/ WUCOLS Listing		
	<input type="checkbox"/> Soil Management Report		
<input type="checkbox"/> Irrigation Design Plan			
<input type="checkbox"/> Grading Design Plan			
<b>Date Reviewed:</b>	<b>Measures Recommended to Applicant</b>		
<input type="checkbox"/> Follow up required (explain):	<input type="checkbox"/> Drip irrigation		
<b>Date Resubmitted:</b>	<input type="checkbox"/> Plant palette		
<b>Date Approved:</b>	<input type="checkbox"/> Grading		
<b>Dedicated Irrigation Meter Required:</b>	<input type="checkbox"/> Pool and/or spa cover		
<b>Meter sizing:</b>	<input type="checkbox"/> Dedicated irrigation meter		
<b>Comments:</b>	<input type="checkbox"/> Other:		



NOTICE: THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY AND COPYRIGHT OF LEVY DESIGN PARTNERS, INC. (LDP ARCHITECTURE) AND SHALL NOT BE USED EXCEPT BY WRITTEN AGREEMENT WITH LEVY DESIGN PARTNERS.



Landscape Architecture + Design

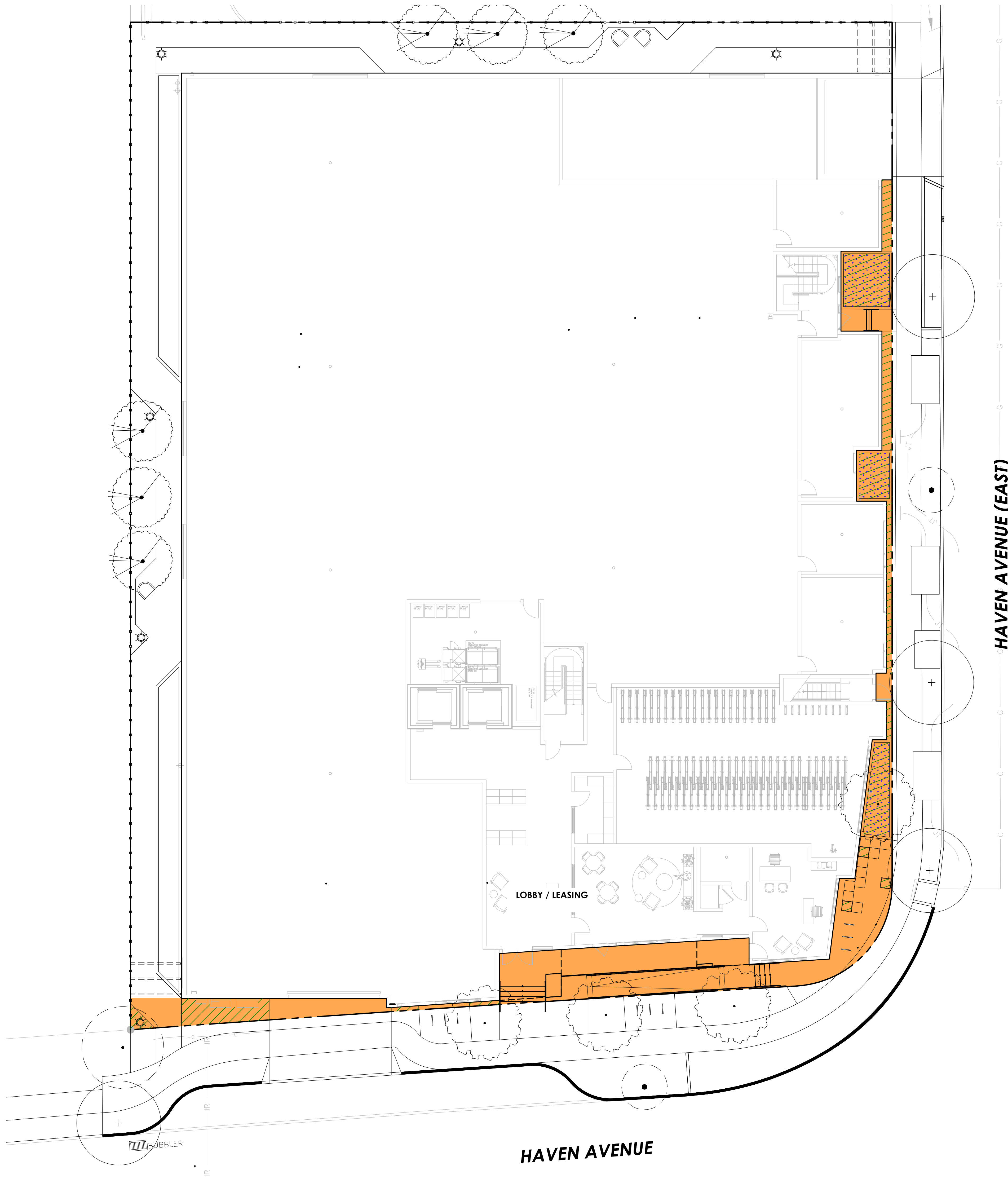
3705 HAVEN AVE  
MENLO PARK, CA

REV	DATE	DESCRIPTION
	04-29-2022	SB330 PRELIM APPLICATION
	11-17-2022	PLANNING APPLICATION
	05-12-2023	PLANNING RESUBMITTAL
	09-01-2023	PLANNING RESUBMITTAL DRAFT
	09-21-2023	PLANNING RESUBMITTAL

CONTACT:  
  
(415) 777-0561 P  
(415) 777-5117 F  
  
SCALE: N/A

WELO CHECKLIST,  
PLANT PALETTE,  
AND NOTES





**LANDSCAPE FRONTAGE CALCULATIONS**

	FRONTAGE AREA/SETBACK (AREA BETWEEN PROPERTY LINE AND FACE OF BUILDING)	1484 SF			
		REQUIRED AREA (SF)	REQUIRED %	PROVIDED AREA (SF)	PROVIDED %
	FRONTAGE LANDSCAPING (AREA OF FRONTAGE DEDICATED TO VEGETATION)	371 SF	25%	438 SF	30%
	STORMWATER TREATMENT WITHIN FRONTAGE LANDSCAPING	186 SF	50%	223 SF	60%

**3705 HAVEN AVE  
MENLO PARK, CA**

3705 HAVEN AVE  
MENLO PARK, CA

PROJECT NO. 21-07  
PARCEL NO. 055170240

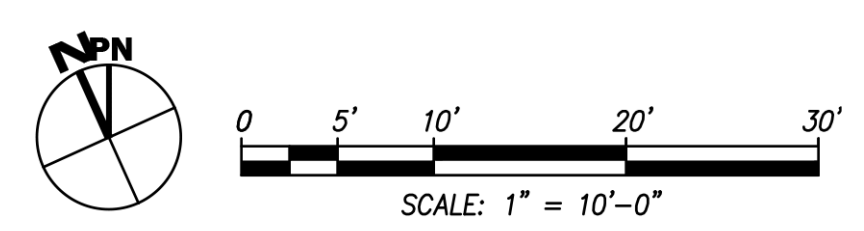
REV	DATE	DESCRIPTION
04-29-2022		SB330 PRELIM APPLICATION
11-17-2022		PLANNING APPLICATION
05-12-2023		PLANNING RESUBMITTAL
09-01-2023		PLANNING RESUBMITTAL DRAFT
09-21-2023		PLANNING RESUBMITTAL

CONTACT:

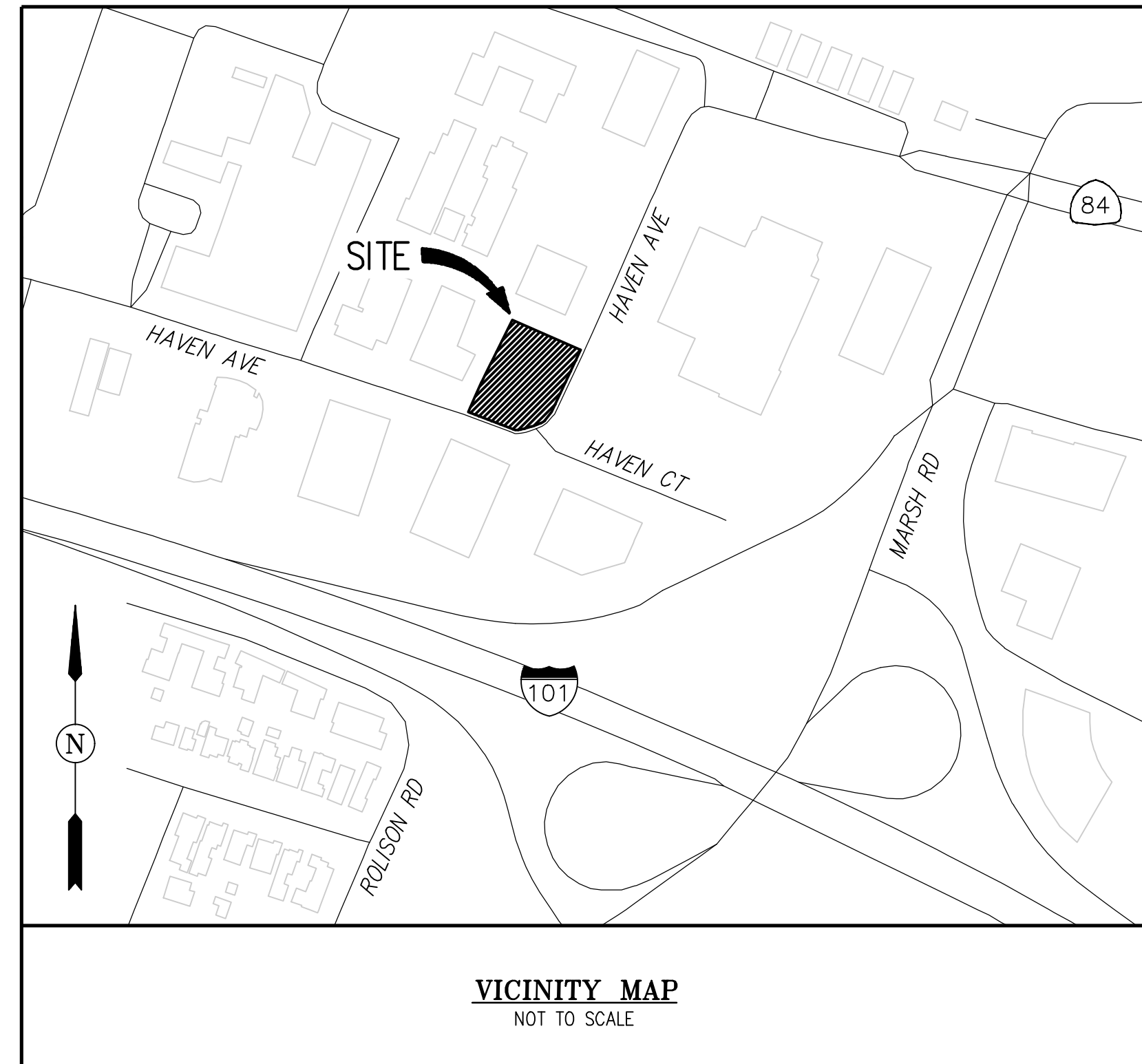
(415) 777-0561 P  
(415) 777-5117 F

SCALE: 1" = 10'-0"

**LANDSCAPE  
FRONTAGE  
CALCULATIONS**

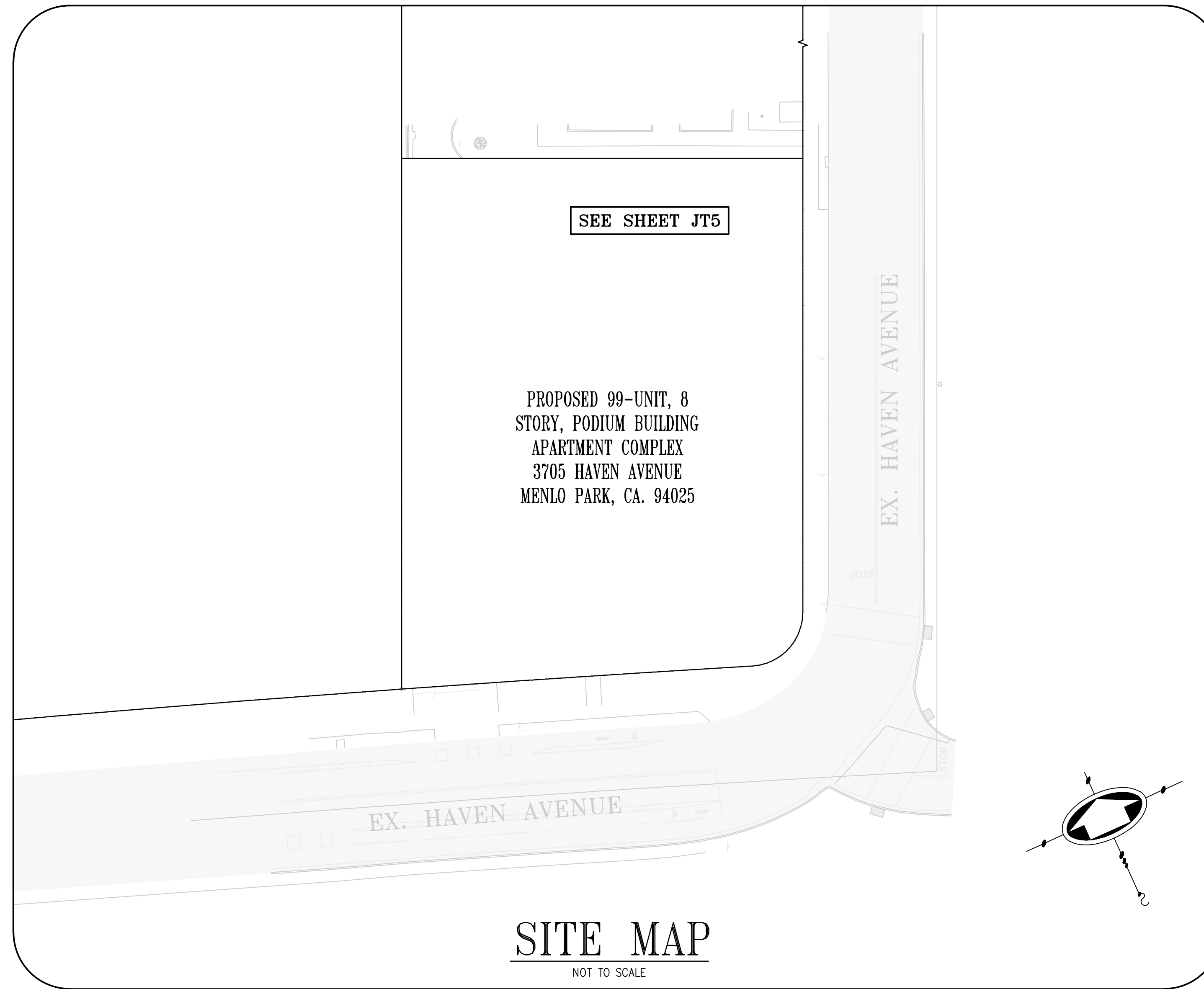


MARCH CAPITAL MANAGEMENT  
 3705 HAVEN AVENUE  
 MENLO PARK SAN MATEO COUNTY CALIFORNIA



**SHEET INDEX**

SHEET NO.	DESCRIPTION
JT1	JOINT TRENCH COMPOSITE TITLE SHEET
JT2	JOINT TRENCH GENERAL NOTES AND DETAILS
JT3	JOINT TRENCH DETAILS
JT4	JOINT TRENCH SECTIONS AND DETAILS
JT5	JOINT TRENCH COMPOSITE PLAN



**LEGEND**

— JT —	PROPOSED JOINT TRENCH
— JTX —	PROPOSED JOINT TRENCH CROSSING
— SVC —	PROPOSED JOINT TRENCH SERVICE
— EX-JT —	EXISTING JOINT TRENCH
— EX-GAS —	EXISTING GAS
— ESL —	EXISTING STREET LIGHT CONDUIT
— EEUG —	EXISTING UNDERGROUND ELECTRIC LINES
— EUUG —	EXISTING UNDERGROUND UTILITY LINES
— EUOH —	EXISTING OVERHEAD UTILITY LINES
— EEOH —	EXISTING OVERHEAD ELECTRIC LINES
— CUG —	PROPOSED UNDERGROUND CATV LINES
— EUG —	PROPOSED UNDERGROUND ELECTRIC LINES
— TUG —	PROPOSED UNDERGROUND TELEPHONE LINES
— [Symbol] —	DESIGNATES UTILITY LINES TO BE REMOVED
[Symbol]	EXISTING PRIMARY SPLICE BOX
[Symbol]	EXISTING SECONDARY SPLICE BOX
[7]	PG&E SPLICE BOX, 4'6" x 8'6" x 6" (LID DIMENSIONS) 5'6" x 9'6" x 6'7" (OVERALL DIMENSIONS)
[Symbol]	PG&E 3ø, UCD, SUBSURFACE TRANSFORMER, 4'6" x 8'6" x 7'6" 5'6" x 9'6" x 6'7" (OVERALL DIMENSIONS)
[T8]	TELEPHONE SERVICE BOX, 48" x 72" x 48"
[Symbol]	JOINT/UTILITY POLE
[Symbol]	EXISTING JOINT/UTILITY POLE
[Symbol]	ELECTROLIER, SINGLE ARM

TARRAR UTILITY REP.:	KARA PEDERSEN	JOB NO.	222068	PHONE NO.	(925) 240-2595
DEVELOPER:	EDUARDO SAGUES	JOB NO.	222068	PHONE NO.	(310) 498-7575
PG&E ELECTRIC COORDINATOR:	JASON KWAN	JOB NO.	127555781	PHONE NO.	(650) 830-1475
PG&E GAS COORDINATOR:	-	JOB NO.	-	PHONE NO.	-
TELEPHONE REP.:	DAVID CLARK	JOB NO.	-	PHONE NO.	(408) 635-8824
CABLE T.V. REP.:	COMCAST CALIFORNIA INTENTS	JOB NO.	-	PHONE NO.	-

TARRAR UTILITY CONSULTANTS  
 APPROVED FOR SUBMITTAL  
 KARA PEDERSEM  
 QUALIFIED APPLICANT DESIGNER

DESIGN CHANGE COMPONENT  
 ANY CHANGES TO THIS DESIGN  
 MUST BE APPROVED BY  
 \_\_\_\_\_  
 PG&E GAS ADE

COMPOSITE DRAWING BY DEVELOPER

Estimate # \_\_\_\_\_

Approved \_\_\_\_\_ Gas ADE \_\_\_\_\_ Date \_\_\_\_\_

Approved \_\_\_\_\_ Electric ADE \_\_\_\_\_ Date \_\_\_\_\_

PG & E is not responsible for the accuracy of the specifications shown on this drawing.

485 L.F. OF JOINT TRENCH AND ONE PUBLIC STREET LIGHT  
 SHALL BE INSTALLED WITH THIS JOINT TRENCH PLAN SET

- 1 NEW PODIUM APARTMENTS (99 UNITS)
- 1 NEW SERVICE COMPLETIONS (ELECTRIC, TELEPHONE, CATV)

**FILES STATUS**

DESCRIPTION:	BY:	DATE:	STATUS:
CIVIL PLANS (ELECTRONIC FILE)	LEA & BRAZE ENGINEERING, INC.	05-12-2022	R
ARCHITECTURAL PLANS (ELECTRONIC FILE)	LDP ARCHITECTURE	05-12-2022	R
LANDSCAPE PLANS (ELECTRONIC FILE)	JETT LANDSCAPE	05-12-2022	R
GAS DESIGN	-	-	-
ELECTRIC DESIGN	BROWN ELECTRIC ESTIMATING	XX-XX-XXXX	XXXX
TELEPHONE INTENT REPLY	AT&T	XX-XX-XXXX	XXXX
CATV INTENT REPLY	COMCAST	XX-XX-XXXX	XXXX
STREET LIGHT PLANS - PUBLIC	-	-	-
STREET LIGHT PLANS - PRIVATE	-	-	-
SOILS REPORT	XXXX	XX-XX-XXXX	XXXX

A = APPROVED • ANS = APPROVED NOT SIGNED • NA = NOT APPROVED • F = FIRST SUBMITTAL • SS = SECOND SUBMITTAL • R = RECEIVED

SUBSTRUCTURE VERIFICATION STAMP

DEVELOPER NOTE AND SIGN

ALL PG&E ENCLOSURES AND BOXES HAVE BEEN SET TO GRADE  
 ACCORDING TO GRADE STAKES PROVIDED BY DEVELOPERS ENGINEER.  
 ALL COSTS TO RELOCATE OR READJUST BOXES AT A LATER DATE  
 WILL BE BILLED TO THE DEVELOPER. PLEASE HAVE YOUR JOB SUPT.  
 VERIFY THE CORRECT GRADE OF ALL ENCLOSURES AND BOXES, AND  
 SIGN AND DATE DRAWING.

THANK YOU

SIGNED \_\_\_\_\_  
 DATE: \_\_\_\_\_

COMPOSITE DRAWING BY DEVELOPER

Approved \_\_\_\_\_ Telephone representative \_\_\_\_\_ Date \_\_\_\_\_

Approved \_\_\_\_\_ CATV representative \_\_\_\_\_ Date \_\_\_\_\_

813 First Street  
 Brentwood, CA 94513  
 (925) 240-2595  
 (925) 240-7013 fax  
 www.tarrar.com

**TARRAR**  
 UTILITY CONSULTANTS

- Planning
- Design
- Estimating
- Joint Trench
- Street Lighting
- Fiber Optic
- T-24
- PG&E Gas Design
- PG&E Elec Design
- M. E. P. Design
- Cost Analysis
- Due Diligence

JOINT TRENCH COMPOSITE TITLE SHEET  
 MARCH CAPITAL MANAGEMENT  
 3705 HAVEN AVENUE  
 MENLO PARK CALIFORNIA

NO.	REVISIONS	BY	DATE

DATE: MAY 2022      DATE LAST WORKED ON: 3/20/2024

SCALE: NOT TO SCALE      DRAWN: HK      CHECKED: AR

JOB NO.: 222068

INTENT TO CONSTRUCT

811  
 CALL BEFORE YOU DIG  
 UNDERGROUND SERVICE ALERT

REGISTERED PROFESSIONAL ENGINEER  
 KARA PEDERSEM  
 C 59346  
 Exp. 06/30/23  
 CIVIL  
 STATE OF CALIFORNIA

SHEET  
 JT1  
 OF  
 JT5  
 SHEETS



**PROJECT NOTES:**

- FIELD ADJUST SERVICES TO MINIMIZE INTERFERENCE WITH EXISTING FACILITIES (TYPICAL).
- CONTRACTOR SHALL PERFORM ALL TRENCHING, EXCAVATING, BACKFILLING AND OTHER WORK AS SHOWN OR NOTED ON PLANS, AND AS SPECIFIED ON UTILITY BID DOCUMENTS.
- FIELD ADJUST SPLICE BOXES TO KEEP CLEAR OF SIDEWALK, DRIVEWAYS AND EXISTING FACILITIES (TYPICAL).
- A 3 FOOT LEVEL WORKING AREA MUST BE MAINTAINED AROUND ALL ELECTRIC ENCLOSURES. PRIOR TO ENERGIZING THE SYSTEM, THE ELECTRIC UTILITY COMPANY INSPECTOR WILL DETERMINE IF RETAINING WALLS ARE REQUIRED TO MEET MINIMUM CLEARANCE BETWEEN ENCLOSURES AND THE TOPS OR TOES OF SLOPES. IF RETAINING WALLS ARE REQUIRED, THE DEVELOPER AND/OR CONTRACTOR SHALL OBTAIN THE NECESSARY PERMITS FROM THE CITY/COUNTY BUILDING DEPARTMENT PRIOR TO WALL CONSTRUCTION.
- TRANSITION TO VAULTS FROM TRENCH NOT SHOWN, SEE TRANSITION DETAIL SHEET JT3 (TYPICAL).
- CONTRACTOR SHALL PLACE ALL UTILITY SPLICE BOXES, ENCLOSURES & CONDUIT IN PROPER RELATIONSHIP TO FINAL GRADE (SHOWN SCHEMATICALLY).
- ALL PG&E, TELEPHONE, CABLE T.V. AND FIBER OPTIC BOXES AND JOINT TRENCH FACILITIES ARE TO MAINTAIN A MINIMUM OF 3' SEPARATION FROM SEWER, WATER LATERALS AND DRIVEWAYS.
- CONTRACTOR SHALL COORDINATE ALL CONNECTIONS BETWEEN PROPOSED AND EXISTING FACILITIES AS DIRECTED BY THE RESPECTIVE UTILITY COMPANY INSPECTOR. UTILITY COMPANY PERSONNEL SHALL MAKE ALL "HOT TIE-INS"; THE CONTRACTOR IS PROHIBITED FROM WORKING IN ANY ENERGIZED FACILITIES.
- THE CONTRACTOR SHALL OBTAIN THE APPROPRIATE STREET EXCAVATION AND ENCROACHMENT PERMIT(S) FROM THE CITY/COUNTY PRIOR TO STARTING WORK IN THE PUBLIC STREET AREA.
- FIELD LOCATE JOINT TRENCH FACILITIES TO KEEP CLEAR OF SERVICE LATERALS. SERVICE LATERALS TO BE ROUTED TO AVOID SPLICE BOX (ADDITIONAL P.U.E MAY BE REQUIRED).
- RESPECTIVE UTILITY COMPANY TO OBTAIN CITY APPROVAL OF ALL ABOVE GROUND EQUIPMENT.
- UNLESS OTHERWISE SHOWN ON THE PLANS, NATURAL BENDS SHALL BE USED FOR ALL CONDUIT EXCEPT STREET LIGHT CONDUIT.
- INCIDENTAL TRENCHING TO SPLICE BOXES NOT SHOWN (TYPICAL). CONTRACTOR TO PROVIDE ADDITIONAL TRENCHING AS REQUIRED FOR CONDUIT ROUTING TO SPLICE BOXES AND CABINETS (TYPICAL).
- ALL CONDUITS SHALL ENTER OR EXIT PERPENDICULAR TO BOX WALLS.
- ALL CONDUITS MUST BE MANDREL TESTED AND APPROVED.
- OFFSET SPLICE BOXES TO ROUTE TELEPHONE/FIBER OPTIC CONDUIT AS NEEDED (TYPICAL).
- PULL ROPES SHALL BE PLACED IN ALL EMPTY CONDUITS AS REQUIRED BY EACH UTILITY COMPANY.
- ALL PG&E SPLICE BOXES ADJACENT TO TRANSFORMER SHALL BE 26" IN DEPTH (TYPICAL).
- ALL CONDUITS NOT ENTERING SPLICE BOXES OR ENCLOSURES SHALL BE CAPPED.
- COORDINATE TIE-IN WITH UTILITY COMPANY AS REQUIRED.
- THE STREET LIGHT SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE "MATERIAL AND LABOR RECAP" AND LIGHT SCHEDULE AS SHOWN ON THESE PLANS.
- ALL EXISTING DUCTS TO BE USED IN THESE PLANS SHALL BE "VERIFIED" BY PULLING A MANDREL THROUGH THE ENTIRE EXISTING LENGTH PRIOR TO CONNECTION.
- EDGE OF SPLICE BOXES & PEDESTALS SHALL BE 5' FROM EDGE OF FIRE HYDRANT AND 3' FROM STREET LIGHT (TYPICAL). CONTRACTOR TO AVOID DISTURBING FIRE HYDRANT THRUST BLOCK.
- ALL UTILITY SUBSTRUCTURES SHALL BE INSTALLED IN ACCORDANCE WITH THE "MATERIAL AND LABOR RECAP" SHOWN ON THESE PLANS.
- MAINTAIN 3' CLEARANCE AND LEVEL AREA AROUND PRIMARY SPLICE BOXES & XFMRs.
- DUE TO UNCERTAINTIES OF THE EXACT LOCATION OF EXISTING FACILITIES, FIELD LOCATION OF PROPOSED FACILITIES MAY BE REQUIRED. CONFIRM WITH VARIOUS UTILITIES FOR EXACT PLACEMENT.
- FOR CLARITY - BOXES/PEDESTALS ARE SHOWN AT LARGER SIZE THAN ACTUAL. FIELD ADJUST TO KEEP CLEAR OF DRIVEWAYS (TYPICAL).
- ALL SERVICE FACILITIES SHALL BE EXTENDED TO EITHER THE PROPERTY LINE OR TO POSITION SHOWN ON THE PLANS, AND THEN CAPPED, BURIED AND LOCATION STAKED.
- THESE PLANS WERE PREPARED UTILIZING PLANS RECEIVED FROM LDP ARCHITECTURE (415) 777-0561.

**GENERAL NOTES:**

- ALL JOINT TRENCH CONSTRUCTION WORK SHALL BE IN ACCORDANCE WITH PG&E UTILITY OPERATIONS UO STANDARD 55453.
- ALL WORK SHALL BE SUBJECT TO THE INSPECTION AND SATISFACTION OF ALL PARTICIPATING UTILITIES AND CITY INSPECTORS.
- BACKFILL SELECTION SHALL BE SUBJECT TO THE APPROVAL OF THE RESPECTIVE UTILITY COMPANIES, THE SOILS ENGINEER AND THE CITY AND/OR COUNTY WHERE THE PROJECT IS LOCATED. CONSULT PARTICIPATING UTILITIES, SOILS ENGINEER, AND THE CITY FOR APPROVED BACKFILL MATERIAL. COMPACTION TO MEET LOCAL AGENCIES REQUIREMENTS.
- THE BOTTOM OF THE TRENCH SHALL BE CLEARED OF ROCKS AND OTHER HARD SURFACES. DISTRIBUTION TRENCHES WITHOUT TELEPHONE CONDUIT DO NOT REQUIRE BEDDING MATERIAL. SERVICE TRENCHES WITHOUT TELEPHONE CONDUIT REQUIRE 2" SAND BEDDING AS A PAD ON WHICH UTILITY FACILITIES CAN REST. SERVICE TRENCHES CONTAINING TELEPHONE CONDUIT ONLY REQUIRE A 1" SAND BEDDING. ALL OTHER TRENCHES CONTAINING TELEPHONE CONDUIT REQUIRE A 3" SAND BEDDING. REFER TO PG&E GREEN BOOK PUBLICATION 55453, EXHIBIT B AND AT&T SPEC95 "AT&T SPECIFICATIONS" TRENCHING AND CONDUIT GUIDE FOR FURTHER INFORMATION.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO REPLACE PAVEMENT AND/OR SIDEWALK WHERE REMOVED OR DAMAGED AS A RESULT OF ITS OPERATION (UNLESS OTHERWISE NOTED). REPLACEMENT OF PAVEMENT AND/OR SIDEWALK TO BE PER CITY SPECIFICATIONS.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE AND NOTIFY ALL PARTICIPATING UTILITY INSTALLATIONS.
- THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY FIELD CHANGES MADE WITHOUT FIRST NOTIFYING TARRAR UTILITY CONSULTANTS.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE EXISTENCE AND/OR PRECISE LOCATION OF ALL UNDERGROUND FACILITIES PRIOR TO THE START OF CONSTRUCTION. TARRAR UTILITY CONSULTANTS MAKES NO WARRANTY WHATSOEVER THAT THE EXISTING UNDERGROUND UTILITIES AND/OR STRUCTURES DEPICTED ON THE PLANS HAVE BEEN ACCURATELY LOCATED OR THAT THERE ARE NO OTHER UNDERGROUND UTILITIES AND STRUCTURES IN ADDITION TO WHAT HAS BEEN SHOWN. CALL U.S.A. A MINIMUM OF 48 HOURS PRIOR TO STARTING CONSTRUCTION. FOR CALIFORNIA NORTH, (KERN COUNTY AND NORTHERLY, AND NEVADA) CALL (800)227-2600. FOR CALIFORNIA SOUTH, (SAN BERNARDINO COUNTY AND SOUTHERLY) CALL (800)422-4133.
- CONTRACTOR SHALL COMPLY WITH ALL STATE, COUNTY AND CITY LAWS AND ORDINANCES AND WITH THE REGULATIONS OF THE DEPARTMENT OF INDUSTRIAL RELATIONS, O.S.H.A. AND ANY OTHER GOVERNMENTAL AGENCY RELATING TO THE SAFETY AND CHARACTER OF WORK, EQUIPMENT AND LABOR PERSONNEL.
- THE DRAWINGS AND SPECIFICATIONS SHALL BE CONSIDERED TO BE COMPLEMENTARY TO EACH OTHER. ANYTHING SHOWN ON THE DRAWINGS AND NOT MENTIONED IN THE SPECIFICATIONS, OR MENTIONED IN THE SPECIFICATIONS AND NOT SHOWN ON THE DRAWINGS, SHALL BE OF LIKE EFFECT AS IF SHOWN ON OR MENTIONED IN BOTH. IF DISCREPANCY IS FOUND, NOTIFY TARRAR UTILITY CONSULTANTS PRIOR TO STARTING WORK.
- TRENCH AND CONDUIT LAYOUTS ARE SHOWN SCHEMATICALLY.
- TRENCHING OR SUBSTRUCTURE EXCAVATION MAY NECESSITATE OPERATION OVER, UNDER, OR ADJACENT TO OTHER UNDERGROUND UTILITIES (STORM, SEWER, WATER, ETC...). THE CONTRACTOR IS RESPONSIBLE TO LOCATE, PROSPECT, EXPOSE AND PROTECT ALL ADJACENT OR CROSSING UNDERGROUND UTILITIES. THIS WORK TO PROTECT THOSE UTILITIES IS NOT CONSIDERED AS EXTRA WORK. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REVIEW IMPROVEMENT PLANS, IN CONJUNCTION WITH THIS PLAN, AND BID THE WORK ACCORDINGLY.
- THE QUANTITIES SHOWN ON THESE PLANS ARE ONLY ESTIMATES OF WHAT WILL ACTUALLY BE REQUIRED FOR THE CONSTRUCTION OF THE OVERALL PROJECT. FINAL QUANTITIES MAY VARY ACCORDING TO CHANGES, ADDITIONS, DELETIONS OR OMISSIONS ON THE ORIGINAL PLAN.
- VERIFY ALL SUBSTRUCTURE EXCAVATION DIMENSIONS WITH SUPPLIER(S) BEFORE BIDDING.
- TARRAR UTILITY CONSULTANTS ASSUMES NO RESPONSIBILITY FOR ANY VARIANCE BETWEEN THESE PLANS AND THE ACTUAL FIELD CONDITIONS. THE CONTRACTOR SHOULD REVIEW THE PROJECT SITE PRIOR TO SUBMITTING ITS BID.
- THE CONTRACTOR IS REQUIRED TO EXCAVATE BELL HOLE(S) AT TIE-IN LOCATIONS AS DIRECTED BY PARTICIPATING UTILITY.
- CONTRACTOR WILL COMPLY WITH ALL LAWS, ORDINANCES AND REGULATIONS. CONTRACTOR SHALL BE FAMILIAR WITH O.S.H.A. INDUSTRIAL ORDERS AND SHALL CONDUCT HIS WORK ACCORDINGLY. WHEN WORKING ENERGIZED EQUIPMENT, THE UTILITY OWNER SHALL BE NOTIFIED TO SUPPLY THE APPROPRIATE MAN POWER AND SAFETY PRECAUTIONS AS NEEDED. THE CONTRACTOR IS RESPONSIBLE FOR PUBLIC SAFETY AND TRAFFIC CONTROL MEASURES.
- THE CONTRACTOR IS RESPONSIBLE TO PROVIDE AS-BUILT DRAWINGS AFTER INSTALLATION OF PG&E'S GAS AND ELECTRIC SYSTEMS (PRIOR TO "HOT TIE-INS").
- THE CITY INSPECTOR SHALL BE NOTIFIED TWO WORKING DAYS PRIOR TO COMMENCEMENT OF WORK. COORDINATE WITH THE INSPECTOR ANY SERVICES TO BE ABANDONED.
- THE CONTRACTOR IS TO VERIFY THE RIGHT OF WAY, PUBLIC UTILITY EASEMENT AND/OR PUBLIC SERVICE EASEMENT ACQUISITION WITH THE APPLICANT PRIOR TO CONSTRUCTION WITHIN AREAS OF QUESTION.
- PG&E'S GENERAL TERM AND CONDITIONS FOR GAS AND ELECTRIC EXTENSION AND SERVICE CONSTRUCTION BY "APPLICANT" (EFFECTIVE 07/1/95) TO BE UTILIZED FOR ALL TRENCHING, BACKFILLING, AND INSTALLATION WORK.
- IN THE EVENT OF DISPUTES OR DISAGREEMENT OVER ANY INSTALLATIONS, DESIGNS, PLANS OR DRAWINGS, THE SPECIFICATIONS AND REQUIREMENTS OF THE INDIVIDUAL UTILITY COMPANIES AND THEIR INSPECTORS SHALL TAKE PRECEDENCE. IN CASE OF DISCREPANCIES WITHIN THE DRAWINGS AND SPECIFICATIONS HEREIN, THE CONTRACTOR SHALL CONSULT TARRAR UTILITY CONSULTANTS FOR INTERPRETATION BEFORE WORK IS STARTED.
- TARRAR UTILITY CONSULTANTS HEREIN, ASSUMES NO RESPONSIBILITY WHATSOEVER FOR THE QUALITY, QUANTITY OR TIMING OF WORK TO BE PERFORMED BY THE CONTRACTOR, UTILITY COMPANY CONSTRUCTION CREWS, OR OTHER SUB-CONTRACTOR OF DEVELOPER.
- ALL TRENCHING, BACKFILLING AND INSTALLATION WORK IS TO BE IN ACCORDANCE WITH THE STANDARD PRACTICES AND SPECIFICATIONS OF EACH UTILITY COMPANY PARTICIPATING IN THE UTILITY TRENCHES WITHIN THE PROJECT.
- THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING POINTS OF ACCESS THAT ARE AGREEABLE TO ADJACENT LAND USES AND TENANTS AT ALL TIMES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ASCERTAINING WHAT INSPECTIONS WILL BE REQUIRED FOR APPROVAL OF THE WORK AND FOR COORDINATING ALL SUCH INSPECTIONS. THE CONTRACTOR SHALL GIVE AT LEAST 48 HOURS PRIOR NOTICE TO THE CITY, SOILS ENGINEER, UTILITY COMPANIES OR ANY OTHER INDIVIDUALS OR PUBLIC AGENCIES, THAT THE WORK IS READY FOR INSPECTION.
- THE CONTRACTOR SHALL NOTIFY DEVELOPER 48 HOURS PRIOR TO THE NEED FOR SURVEY STAKING. THE CONTRACTOR IS RESPONSIBLE FOR THE PRESERVATION OF ALL CONSTRUCTION STAKING SET BY THE DEVELOPER'S SURVEYORS AND WILL BE BACK CHARGED FOR ANY RE-STAKING THAT IS REQUIRED. ANY EXTRA CONSTRUCTION STAKING NECESSITATED SOLELY BY THE CONTRACTOR'S NEGLIGENCE WILL BE CHARGED TO AND PAID FOR BY THE CONTRACTOR.
- ALL TRANSFORMERS AND TRANSFORMER PADS ARE TO BE INSTALLED PER PG&E SPECIFICATIONS. PROTECTIVE BOLLARDS ARE TO BE PLACED WHERE NEEDED.
- THE CONTRACTOR SHALL MAKE HIMSELF FAMILIAR WITH THE PROJECT IMPROVEMENT PLANS AND CONDUCT HIS WORK ACCORDINGLY.
- KEEP ALL BOXES AND PEDESTALS WITHIN PUBLIC UTILITY EASEMENTS OR RIGHT OF WAY. AS SHOWN.
- ALL SAND BACKFILL MUST HAVE TESTING OF PH LEVEL AS WELL AS SAND EQUIVALENT. SEE CITY OF MENLO PARK REQUIREMENTS.
- THE PROPOSED CONSTRUCTION OPERATION MAY TAKE PLACE AT OR NEAR FENCE LINES, PROPERTY LINES AND PROPERTY IMPROVEMENTS PRIOR TO CONSTRUCTION, CONTRACTOR SHALL BE RESPONSIBLE FOR IDENTIFYING THESE AREAS AND FOR MAINTAINING THESE AREAS AND FACILITIES AT ALL TIMES DURING THE CONSTRUCTION OPERATION.
- THE CONTRACTOR ASSUMES SOLE AND COMPLETE RESPONSIBILITY FOR THE SITE CONDITION AND SHALL DEFEND AND HOLD THE DEVELOPER AND TARRAR UTILITY CONSULTANTS HARMLESS FROM ANY ALLEGED CLAIMS OR LIABILITIES, EXCEPT THOSE ARISING FROM SOLE NEGLIGENCE OF THE DEVELOPER OR TARRAR UTILITY CONSULTANTS.
- THE APPROXIMATE LOCATIONS OF ALL EXISTING UTILITY COMPANY UNDERGROUND LINES, POLES BOXES, ETC., WERE OBTAINED FROM A REVIEW OF AVAILABLE UTILITY COMPANY RECORDS, REPRESENTATIONS OF UTILITY COMPANY PERSONAL, OR FIELD OBSERVATIONS. NEITHER THE DEVELOPER NOR TARRAR UTILITY CONSULTANTS ASSUME ANY RESPONSIBILITY FOR VARIANCES BETWEEN THESE PLANS AND THE ACTUAL FIELD CONDITIONS. NO EXTRA PAYMENT WILL BE MADE TO THE CONTRACTOR FOR ANY ADDITIONAL TRENCHING, BOX EXCAVATIONS, MATERIALS, ETC., THAT MAY BE REQUIRED TO COMPLETE THIS PROJECT IN THE EVENT AN EXISTING TIE-IN POINT SUBSTRUCTURE IS EITHER NON-EXISTING OR IS NOT SHOWN ON THE PLANS IN ITS ACTUAL FIELD POSITION. IT IS THE CONTRACTOR'S OBLIGATION AND RESPONSIBILITY TO SAFELY LOCATE ALL EXISTING UNDERGROUND FACILITIES BY SURFACE MARKING AND/OR HAND EXCAVATION PRIOR TO STARTING CONSTRUCTION.
- "DEVELOPER AND/OR CONTRACTOR IS RESPONSIBLE TO OBTAIN A CITY OF MENLO PARK ENCROACHMENT PERMIT FOR ALL WORK DONE IN THE PUBLIC RIGHT OF WAY. DEVELOPER AND/OR CONTRACTOR IS ALSO RESPONSIBLE TO PROVIDE JOINT TRENCH PLANS TO THE CITY OF MENLO PARK AT THE TIME OF APPLICATION FOR THE ENCROACHMENT PERMIT."

**ABBREVIATION LIST**

B/C	BACK OF CURB	H.P.S.	HIGH PRESSURE SODIUM	RT	RETAINING WALL
B/W	BACK OF WALK	IRR.	IRRIGATION CONTROLLER	R/W	RIGHT OF WAY
BTU	BRITISH TERM UNITS	J.T.	JOINT TRENCH	SCH.	SCHEDULE
CB	CATCH BASIN	KV	KILO-VOLTS	SD	STORM DRAIN
CL	CENTERLINE	LE	LANDSCAPE EASEMENT	SHT.	SHEET
CAT.	CATALOG	LF	LINEAR FOOT/FEET	S/W	SIDE WALK
C OR CATV	CABLE TELEVISION	MH	MANHOLE	SS	SANITARY SEWER
CFH	CUBIC FEET PER HOUR	MIN.	MINIMUM	SSE	SANITARY SEWER EASEMENT
C.I.P.	CAPITOL IMPROVEMENT PROJECT	MPGE	MINIMUM POINT OF ENTRY	ST. LT.-S/L	STREET LIGHT
CL	CENTER LINE	N.T.S.	NOT TO SCALE	SUBD'V	SUBDIVISION
CU	COPPER	O.D.	OUTER DIAMETER	Sqft.	SQUARE FOOTAGE
E	ELECTRIC	O.H.	OVER HEAD	T	TELEPHONE
EP	EDGE OF PAVEMENT	PIEUE	PRIVATE INGRESS, EGRESS, AND UTILITY EASEMENT	TUC	TARRAR UTILITY CONSULTANTS
EVAE	EMERGENCY VEHICLE ACCESS EASEMENT	PL	PROPERTY LINE	TYP.	TYPICAL
EX	EXISTING	P.S.	POWER SUPPLY	T/S	TRAFFIC SIGNAL
F/C	FACE OF CURB	PROJ.	PROJECT	U.G.	UNDERGROUND
FH	FIRE HYDRANT	PSDE	PRIVATE STORM DRAIN EASEMENT	U.O.N.	UNLESS OTHERWISE NOTED
FUT.	FUTURE	PSE	PUBLIC SERVICE EASEMENT	V	VOLT
F.O.	FIBER OPTIC	PVAW	PRIVATE VEHICLE ACCESS WAY	W	WATT
G	GAS	P.V.C.	POLY VINYL CHLORIDE	WT	WATER
GALV.	GALVANIZE	P.W.E	PUBLIC WATER LINE EASEMENT	W/	WITH
G.E.	GENERAL ELECTRIC	PWR	POWER	W/O	WITHOUT
GRD.	GROUND	PUE	PUBLIC UTILITY EASEMENT	WLE	WATER LINE EASEMENT
H.O.A.	HOME OWNERS ASSOCIATION			XFMR	TRANSFORMER

813 First Street  
Brentwood, CA 94513  
(925) 240-2595  
(925) 240-7013 fax  
www.tarrar.com



- Planning
- Design
- Estimating
- Joint Trench
- Street Lighting
- Fiber Optic
- T-24
- PG&E Gas Design
- PG&E Elec Design
- M.E.P. Design
- Cost Analysis
- Due Diligence

**JOINT TRENCH GENERAL NOTES AND DETAILS**  
MARCH CAPITAL MANAGEMENT  
3705 HAVEN AVENUE  
MENLO PARK CALIFORNIA

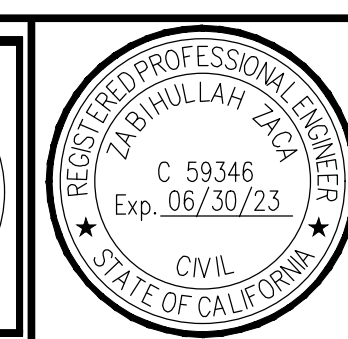
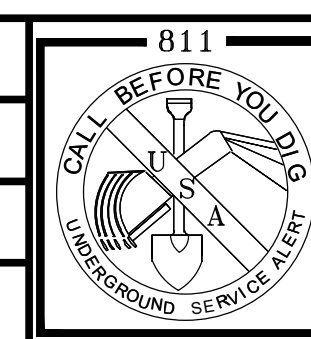
NO.	REVISIONS	BY	DATE

DATE: MAY 2022      DATE LAST WORKED ON: 3/20/2024

SCALE: NOT TO SCALE      DRAWN: HK      CHECKED: AR

JOB NO.: 222068

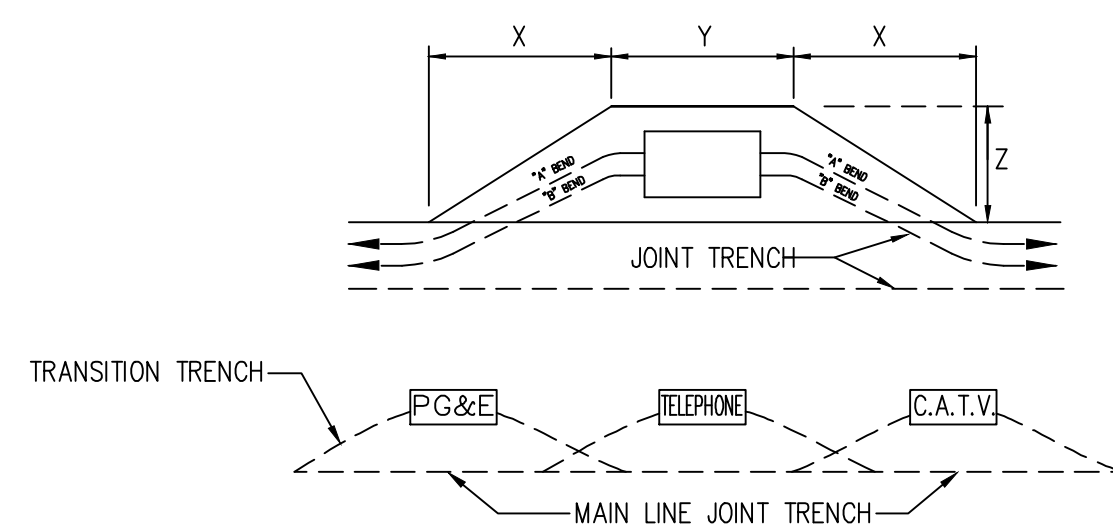
**INTENT TO CONSTRUCT**



SHEET  
**JT2**  
OF  
**JT5**  
SHEETS



**JOINT TRENCH TRANSITION**



BEND	PRIMARY BOX SIZE	DISTANCE (when conduit enters box)			NOTES
		"X"	"Y"	"Z"	
"A"	3' x 5'	24"	7'	5'	BEND IS 60° RADIUS WITH AN ANGLE OF 10 DEG. USE 2-5 COUPLINGS WITH 1-5' CONDUIT SECTION FOR EACH BEND SHOWN.
	4'-6" x 8'-6"	24"	11'	7'	
"B"	3' x 5'	32"	7'	5'	BEND IS 30° RADIUS WITH AN ANGLE OF 15 DEG. USE 3-5 COUPLINGS WITH 2-2 1/2' CONDUIT SECTION FOR EACH BEND SHOWN.
	4'-6" x 8'-6"	32"	11'	7'	

- NOTE:**
- CONTRACTOR TO EXCAVATE TRANSITIONS FROM MAIN-LINE TRENCH TO VAULTS AS REQUIRED BY EACH UTILITY.
  - TRANSITIONS NOT SHOWN ON COMPOSITE DRAWING FOR CLARITY.
  - CONTRACTOR TO INCLUDE COST OF TRANSITIONS IN VAULT EXCAVATION COST.

DETAIL 1 TYPICAL PRIMARY BOX EXCAVATION USING CONDUIT  
N.T.S. JT3

**CONSTRUCTION LABOR AND MATERIAL RESPONSIBILITY**

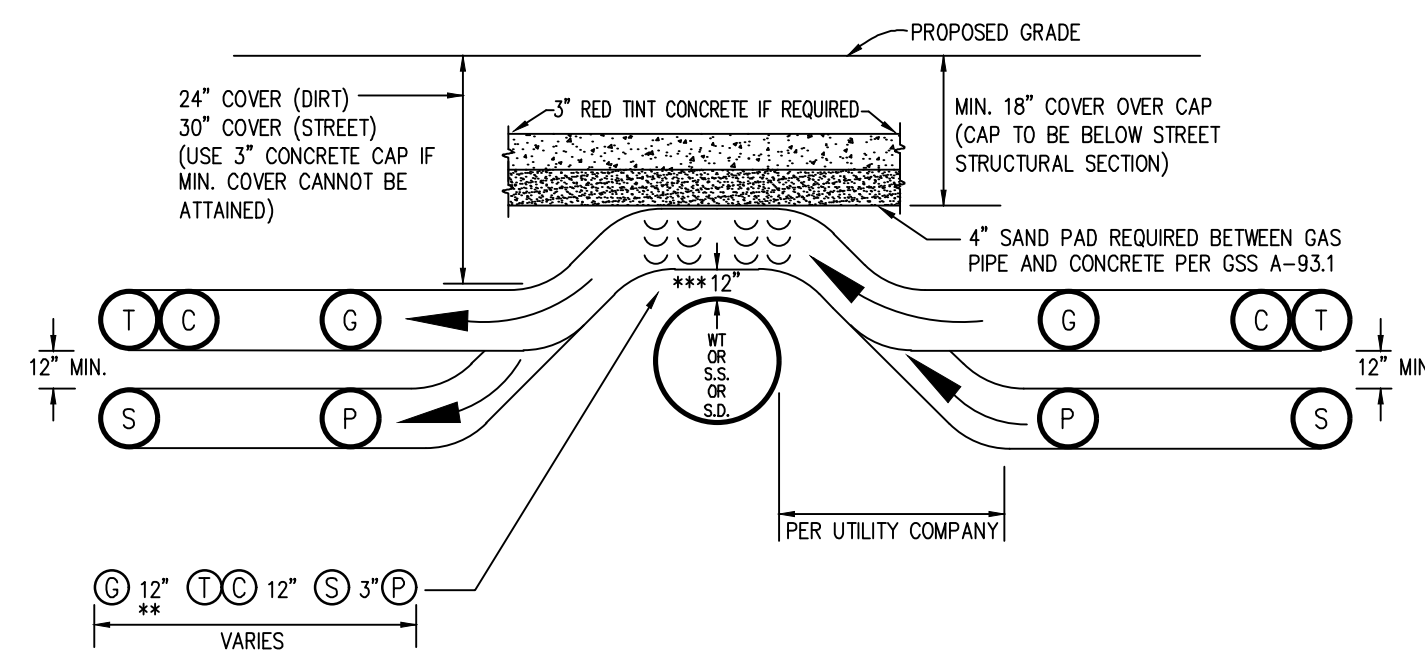
**PUBLIC UTILITY SYSTEM (JOINT TRENCH)**

- TRENCHING: EXCAVATE, BACKFILL AND COMPACT. ○
- GAS MATERIAL: FURNISH ○
- ELECTRIC CABLE: FURNISH ○
- ELECTRIC CONDUIT: FURNISH ○
- ELECTRIC SPLICE BOXES: EXCAVATE, FURNISH ○
- ELECTRIC TMFR ENCLS.: EXCAVATE, FURNISH ○
- ELECTRIC EQUIP. ENCLS.: EXCAVATE, FURNISH ○
- ELECTRIC TMFR PADS: EXCAVATE, FURNISH ○
- ELECTRIC SWITCH PADS: EXCAVATE, FURNISH ○
- TELEPHONE CONDUIT: FURNISH ○
- TELEPHONE CABLE: FURNISH ○
- TELEPHONE SPLICE BOX: EXCAVATE, FURNISH ○
- TELEPHONE INTER. PADS: EXCAVATE, FURNISH ○
- C.A.T.V. CONDUITS: FURNISH ○
- C.A.T.V. SPLICE BOXES: EXCAVATE, FURNISH ○

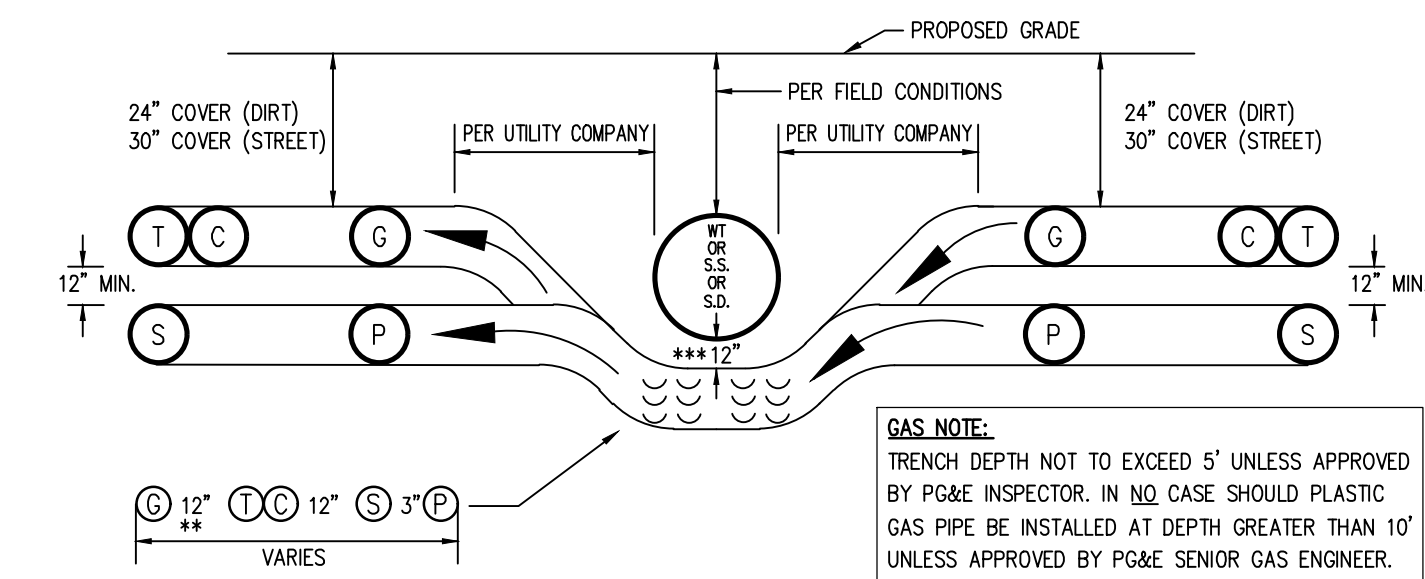
**STREET LIGHTING SYSTEM (N/A)**

- WIRE: FURNISH ○
  - CONDUIT: FURNISH ○
  - BASES: FURNISH ○
  - LUMINAIRES: FURNISH ○
  - SPLICE BOXES: EXCAVATE, FURNISH ○
  - POLES & ARMS: EXCAVATE, FURNISH ○
- SCHEDULE:  
 INSTALL IN JOINT TRENCH: \_\_\_\_\_  
 INSTALL IN SEPARATE TRENCH: \_\_\_\_\_  
 CONDUIT SIZE: \_\_\_\_\_  
 CONDUIT TYPE: \_\_\_\_\_  
 WIRE SIZE: \_\_\_\_\_ TYPE: \_\_\_\_\_
- ADDITIONAL NOTES:  
 DEVELOPER TO SUPPLY AND INSTALL GAS & ELECTRIC FACILITIES UNDER THE COMPETITIVE BIDDING PROVISIONS OF PG&E GREEN BOOK RULES 15, 16 AND 20.

● DESIGNATES THE WORK TO BE PERFORMED BY THE CONTRACTOR AND EACH UTILITY COMPANY.



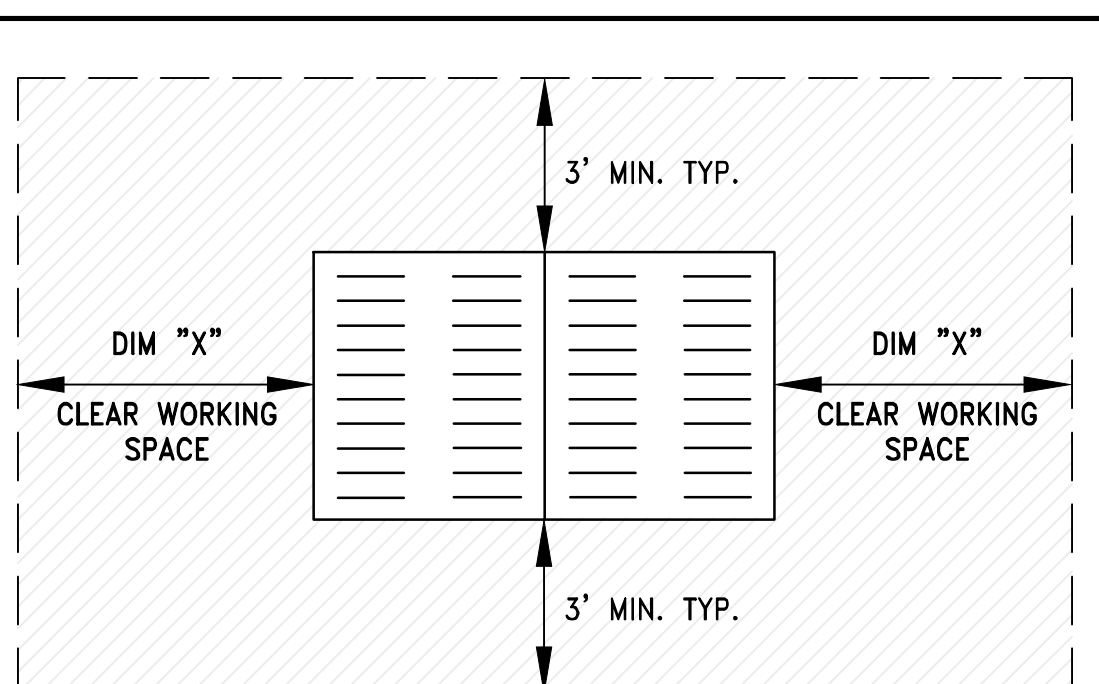
**JOINT TRENCH OVER WATER, SANITARY SEWER OR STORM DRAIN CHOICE 1 (PREFERRED METHOD)**



**JOINT TRENCH UNDER WATER, SANITARY SEWER OR STORM DRAIN CHOICE 2 (OPTIONAL METHOD)**

- \* SEE MINIMUM COVER & CLEARANCE CHART
- \*\* WITH MUTUAL AGREEMENT, WHEN 4" O.D. OR SMALLER GAS PIPE IS INSTALLED SEPARATION MAY BE REDUCED TO NOT LESS THAN 6" BETWEEN GAS AND COMMUNICATION DUCTS (TELEPHONE & CATV).
- \*\*\* 6" MINIMUM REQUIRED BY PG&E-ADDITIONAL CLEARANCE MAYBE REQUIRED BY CITY OR COUNTY

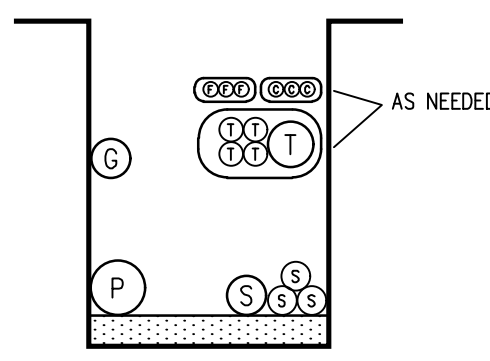
DETAIL 2 OVER UNDER DETAILS  
N.T.S. JT3



- 3' MIN. 3'0" x 5'0" ENCLOSURES
- 4' MIN. 4' x 6'6" x 5'0" ENCLOSURES
- 5' MIN. 4'6" x 8'6" x 6'0" ENCLOSURES (OR EASEMENT REQUIRED)

DETAIL 3 PG&E ENCLOSURE CLEARANCES  
N.T.S. JT3

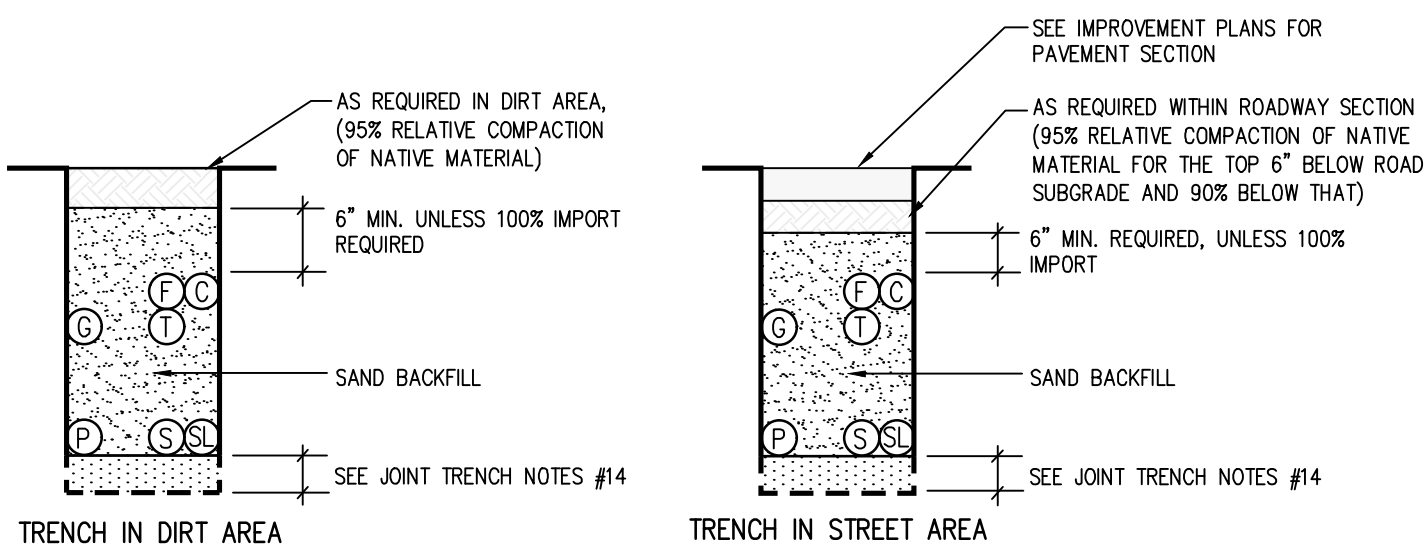
JOINT TRENCH MINIMUM COVER AND CLEARANCES												
MINIMUM SEPARATION FROM												
UTILITY	G	T	TD	C	S	P	SL	SLP	F	FE	MINIMUM COVER	
G (GAS)*	-	12"	12"	12"	6"	12"	12"	6"	12"	12"	24"; 30" IN STREET	
T (TELEPHONE) DUCT	12"	-	1"	12"	12"	12"	12"	12"	1"	12"	24"; 30" IN STREET	
TD (TELEPHONE) DIRECT BURY	12"	1"	-	12"	12"	12"	12"	12"	1"	12"	24"; 30" IN STREET	
C (CABLE T.V.)	12"	1"	1"	-	12"	12"	12"	12"	1"	12"	24"; 30" IN STREET	
S (ELECT. SECONDARY)	6"	12"	12"	12"	1.5"	3"	12"	1.5"	12"	12"	24"; 30" IN STREET	
P (ELECT. PRIMARY)	12"	12"	12"	12"	3"	3"	3"	3"	12"	12"	36"; 36" IN STREET	
SL (PUBLIC AND PRIVATE-STREET LIGHT)**	12"	12"	12"	12"	12"	-	12"	12"	12"	12"	24"; 30" IN STREET	
SLP (P.G.E.-STREET LIGHT)	6"	12"	12"	12"	1.5"	3"	12"	1.5"	12"	12"	24"; 30" IN STREET	
FE (FOREIGN ELECTRIC SOURCES, NON PG&E)	12"	12"	12"	12"	12"	12"	12"	12"	12"	-	24"; 30" IN STREET	
F (FIBER OPTIC)	12"	1"	1"	1"	12"	12"	12"	12"	-	12"	24"; 30" IN STREET	



TYPICAL EXAMPLE OF STACKING FACILITIES IN JOINT TRENCH

**LEGEND**

- MEETS UTILITY TRENCH ALLOTMENT
- EXCEEDS UTILITY TRENCH ALLOTMENT
- GAS
- ELECTRIC PRIMARY
- ELECTRIC SECONDARY
- TELEPHONE (DUCT OR DIRECT BURY)
- CATV
- STREET LIGHT (PUBLIC OR PRIVATE)
- STREET LIGHT (PG&E)
- FOREIGN ELECTRIC
- FIBER OPTIC



TRENCH IN DIRT AREA

TRENCH IN STREET AREA

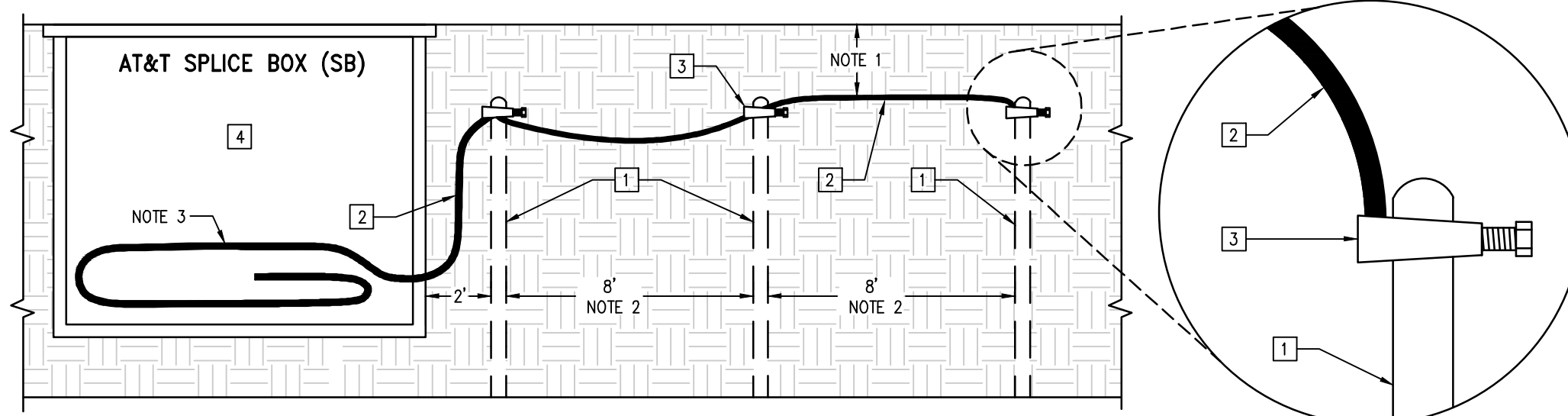
**JOINT TRENCH NOTES:**

- TRENCH COVER & CLEARANCES SHOWN ARE MINIMUMS ONLY AND MAY REQUIRE ALTERATIONS TO SUIT FIELD CONDITIONS.
- IT IS RECOMMENDED THAT ALL FACILITIES ARE TO BE A MINIMUM OF 12" BELOW SUB-BASE DISTURBANCE.
- \* WITH MUTUAL AGREEMENT FROM PARTICIPATING UTILITIES, WHEN 4" O.D. OR SMALLER GAS PIPE IS INSTALLED, SEPARATION MAY BE REDUCED TO NOT LESS THAN 6" BETWEEN GAS AND COMMUNICATION DUCTS (TELEPHONE, C.A.T.V. & FIBER OPTIC).
- \* WHERE 6" GAS MAIN IS LOCATED IN THE JOINT TRENCH A 18" MINIMUM SEPARATION FROM GAS MAIN TO ALL UTILITIES WILL BE REQUIRED.
- \*\* WITH MUTUAL AGREEMENT FROM PARTICIPATING UTILITIES, STREET LIGHT SEPARATION MAY BE REDUCED TO 0" BETWEEN STREET LIGHT AND COMMUNICATION DUCTS (TELEPHONE, C.A.T.V. & FIBER OPTIC).
- TRENCH CONFIGURATIONS SHOWN ARE FOR INSTALLATION WHERE EACH OCCUPANT IS UTILIZING HIS ENTIRE SPACE ALLOCATION. OTHER CONFIGURATIONS OR REDUCED DIMENSIONS MAY BE USED, PROVIDED THAT MINIMUM COVER AND CLEARANCES ARE MAINTAINED.
- THE CONTRACTOR IS TO ADJUST TRENCH DEPTHS AT ALL JOINT TRENCH LATERAL CROSSINGS TO MAINTAIN REQUIRED CLEARANCES BETWEEN ALL PARTICIPATING UTILITIES.
- TRENCH SECTIONS ARE SHOWN SCHEMATICALLY AND INDICATE AREAS OF OCCUPANCY ONLY; THEY DO NOT REFLECT SIZE OR QUANTITY OF FACILITIES TO BE INSTALLED.
- TRENCH FOOTAGES PER SECTION ARE APPROXIMATE. SECTIONS ARE DESIGNED TO ACCOMMODATE ALL REQUIRED FACILITIES AS INDICATED ON EACH TRENCH PARTICIPANT'S CONSTRUCTION DRAWINGS.
- THE CONTRACTOR SHALL VERIFY TRENCH FOOTAGES FOR ACCURACY PRIOR TO EXCAVATION AND TAKE NECESSARY PRECAUTION CROSSING WATER AND SEWER FACILITIES.
- THE CONTRACTOR SHALL REFER TO THE COMPOSITE, CONDUIT, AND/OR EACH RESPECTIVE UTILITY INSTALLATION PLAN FOR THE NECESSARY CONDUIT CABLE AND/OR PIPE TO BE INSTALLED IN THIS PROJECT.
- TYPE "M2" TRENCH SHALL BE INSTALLED AFTER CURB AND GUTTER INSTALLATION. CONTRACTOR SHALL COORDINATE ADDITIONAL MOVE-INS NECESSARY TO COMPLETE THE SERVICES TO THE DWELLING UNITS WITH THE DEVELOPER, ALL AGENCIES AND THE UTILITY COMPANIES. THE COST OF THESE MOVE-INS SHALL BE INCLUDED IN THE CONTRACTOR'S UNIT PRICE FOR TRENCHING.
- THE AVERAGE TRENCH DEPTHS SHOWN ARE BASED ON THE MINIMUM UTILITY COMPANY REQUIREMENTS FOR DEPTH AND SEPARATION. CONTRACTOR SHALL ADJUST TRENCH WIDTH & DEPTH AS REQUIRED TO ADEQUATELY CLEAR EXISTING UNDERGROUND FACILITIES AND MAINTAIN MINIMUM UTILITY CLEARANCES. ALL TRENCHES OVER 60" DEEP MUST COMPLY WITH OSHA REQUIREMENTS. (SEE THE JOINT TRENCH MINIMUM COVER AND CLEARANCE TABLE)
- CONTRACTOR SHALL USE SAND BEDDING AND SHADING AS REQUIRED BY THE UTILITY COMPANIES. THE BOTTOM OF THE TRENCH SHALL BE CLEARED OF ROCKS AND OTHER HARD SURFACES. DISTRIBUTION TRENCHES WITHOUT TELEPHONE CONDUIT DO NOT REQUIRE BEDDING MATERIAL. SERVICE TRENCHES WITHOUT TELEPHONE CONDUIT REQUIRE 2" SAND BEDDING AS A PAD ON WHICH UTILITY FACILITIES CAN REST. SERVICE TRENCHES CONTAINING TELEPHONE CONDUIT ONLY REQUIRE A 1" SAND BEDDING. ALL OTHER TRENCHES CONTAINING TELEPHONE CONDUIT REQUIRE A 3" SAND BEDDING. REFER TO PG&E GREEN BOOK PUBLICATION S5453, EXHIBIT B AND AT&T SPEC95 "AT&T SPECIFICATIONS" TRENCHING AND CONDUIT GUIDE FOR FURTHER INFORMATION.
- ALL TRENCHING AND BACKFILLING TO BE DONE IN ACCORDANCE WITH THE CITY OF MENLO PARK ENGINEERING STANDARDS AND SPECIFICATIONS.
- ALL PG&E, TELEPHONE, CABLE, AND FIBER OPTIC BOXES AND JOINT TRENCH FACILITIES ARE TO MAINTAIN A MINIMUM OF 3" SEPARATION FROM SEWER AND WATER LATERALS AND DRIVEWAYS. ALL UTILITY VAULTS, BOXES, PEDESTALS, ETC. MUST MAINTAIN A 5' MINIMUM CLEARANCE FROM FIRE HYDRANTS, AND 3' MINIMUM FROM STREETLIGHTS.

**JOINT TRENCH OCCUPANCY GUIDE**

TRENCH SECTION	A*	B*	C*	D*	E*	F*	G*	H*	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	
GAS	X	X	X	X					X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
TELEPHONE	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
CABLE T.V.	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
ELECTRIC SEC.	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
ELECTRIC PRI.	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
FIBER OPTICS	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	

\*THESE SECTIONS MAY OR MAY NOT CONTAIN SECONDARY



**LEGEND**

- 8' LENGTH x 5/8" DIAMETER GROUND ROD POLES
- BARE CONTINUOUS SOLID NUMBER 6 AWG. WIRE
- GROUND CLAMP
- TELEPHONE SPLICE BOX

**NOTES**

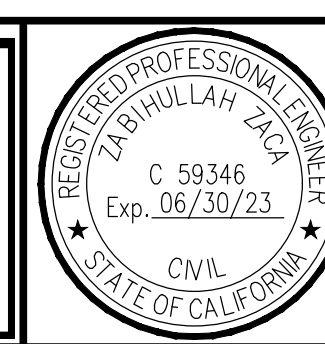
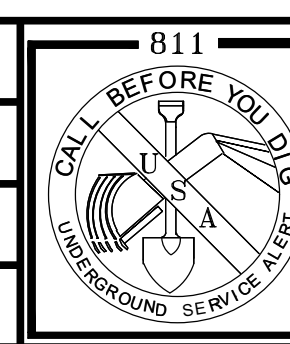
- MINIMUM DEPTH = 12 INCHES
- GROUND BEDS MAY BE PLACED IN ANY CONFIGURATION AS LONG AS THE 8 FOOT SEPARATION BETWEEN GROUND RODS IS MAINTAINED AND THE 2 FOOT SEPARATION FROM THE SB WALL IS NOT ENCRUCED UPON.
- BARE #6 GROUND WIRE TO ENTER THROUGH SIDEWALL OR BOTTOM OF SB AND WRAP SB ONCE.

DETAIL 1 AT&T AERIAL AND BURIED  
N.T.S. JT4 GROUND BED DESIGN

THIS AREA RESERVED FOR JOINT TRENCH SECTIONS  
TO BE PLACED AT A LATER TIME

NO.	REVISIONS	BY	DATE

DATE: MAY 2022	DATE LAST WORKED ON: 3/21/2024
SCALE: NOT TO SCALE	DRAWN: HK
	CHECKED: AR
JOB NO.: 222068	
<b>INTENT TO CONSTRUCT</b>	





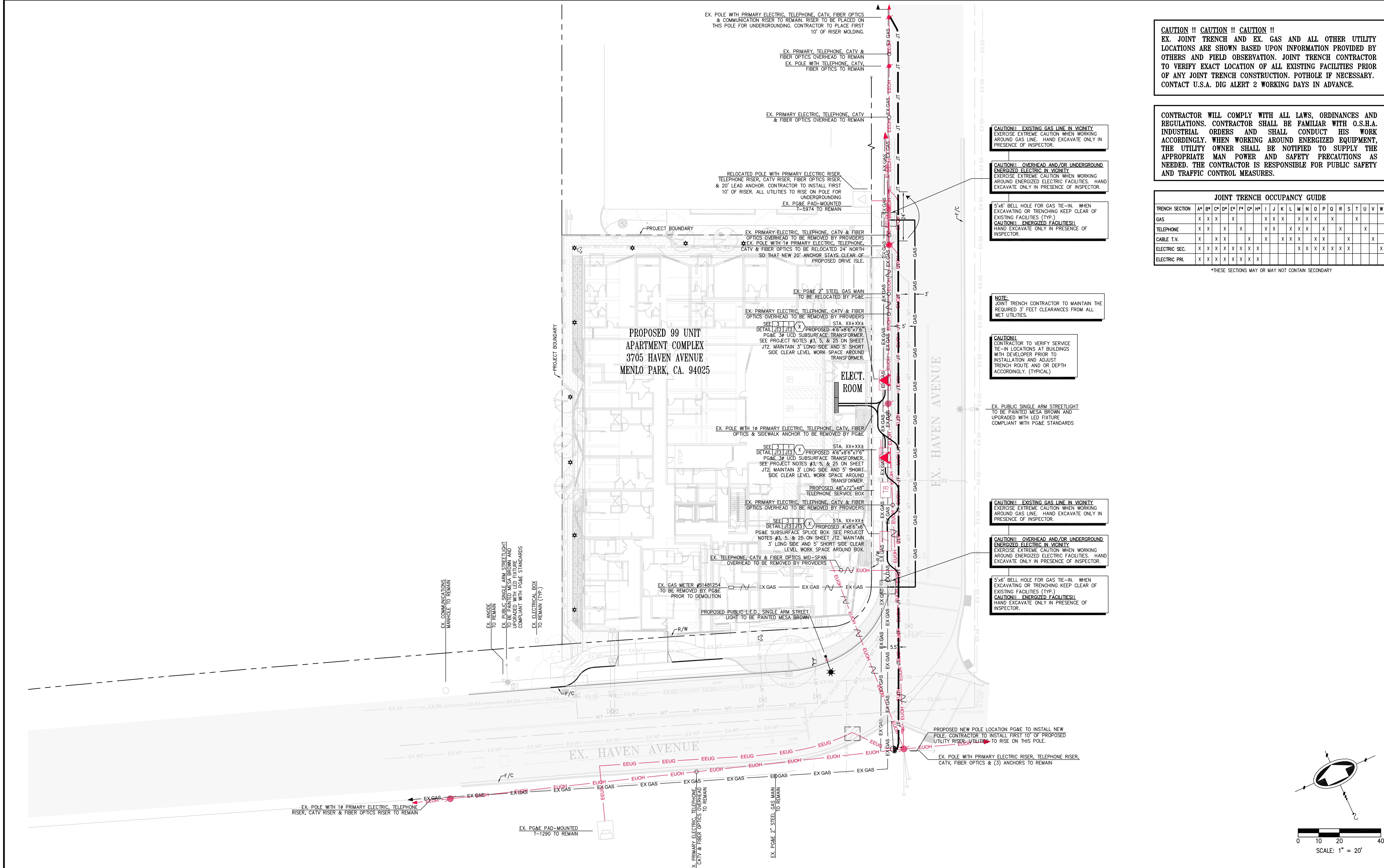
**CAUTION !! CAUTION !! CAUTION !!**  
 EX. JOINT TRENCH AND EX. GAS AND ALL OTHER UTILITY LOCATIONS ARE SHOWN BASED UPON INFORMATION PROVIDED BY OTHERS AND FIELD OBSERVATION. JOINT TRENCH CONTRACTOR TO VERIFY EXACT LOCATION OF ALL EXISTING FACILITIES PRIOR TO ANY JOINT TRENCH CONSTRUCTION. POTHOLE IF NECESSARY. CONTACT U.S.A. DIG ALERT 2 WORKING DAYS IN ADVANCE.

CONTRACTOR WILL COMPLY WITH ALL LAWS, ORDINANCES AND REGULATIONS. CONTRACTOR SHALL BE FAMILIAR WITH O.S.H.A. INDUSTRIAL ORDERS AND SHALL CONDUCT HIS WORK ACCORDINGLY. WHEN WORKING AROUND ENERGIZED EQUIPMENT, THE UTILITY OWNER SHALL BE NOTIFIED TO SUPPLY THE APPROPRIATE MAN POWER AND SAFETY PRECAUTIONS AS NEEDED. THE CONTRACTOR IS RESPONSIBLE FOR PUBLIC SAFETY AND TRAFFIC CONTROL MEASURES.

**JOINT TRENCH OCCUPANCY GUIDE**

TRENCH SECTION	A*	B*	C*	D*	E*	F*	G*	H*	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W
GAS	X	X	X	X	X				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
TELEPHONE	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CABLE T.V.	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ELECTRIC SEC.	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ELECTRIC PRI.	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

\*THESE SECTIONS MAY OR MAY NOT CONTAIN SECONDARY



**CAUTION!! EXISTING GAS LINE IN VICINITY**  
 EXERCISE EXTREME CAUTION WHEN WORKING AROUND GAS LINE. HAND EXCAVATE ONLY IN PRESENCE OF INSPECTOR.

**CAUTION!! OVERHEAD AND/OR UNDERGROUND ENERGIZED ELECTRIC IN VICINITY**  
 EXERCISE EXTREME CAUTION WHEN WORKING AROUND ENERGIZED ELECTRIC FACILITIES. HAND EXCAVATE ONLY IN PRESENCE OF INSPECTOR.

**5'x6" BELL HOLE FOR GAS TIE-IN**. WHEN EXCAVATING OR TRENCHING KEEP CLEAR OF EXISTING FACILITIES (TYP.)  
**CAUTION!! ENERGIZED FACILITIES!**  
 HAND EXCAVATE ONLY IN PRESENCE OF INSPECTOR.

**NOTE:**  
 JOINT TRENCH CONTRACTOR TO MAINTAIN THE REQUIRED 3' FEET CLEARANCES FROM ALL WET UTILITIES.

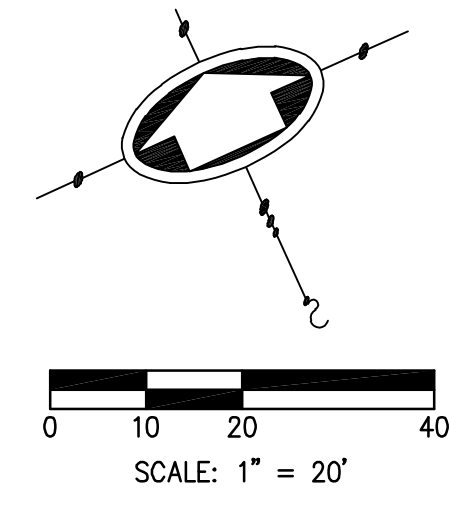
**CAUTION!!**  
 CONTRACTOR TO VERIFY SERVICE TIE-IN LOCATIONS AT BUILDINGS WITH DEVELOPER PRIOR TO INSTALLATION AND ADJUST TRENCH ROUTE AND OR DEPTH ACCORDINGLY. (TYPICAL)

**EX. PUBLIC SINGLE ARM STREETLIGHT**  
 TO BE PAINTED MESA BROWN AND UPGRADED WITH LED FIXTURE COMPLIANT WITH PG&E STANDARDS

**CAUTION!! EXISTING GAS LINE IN VICINITY**  
 EXERCISE EXTREME CAUTION WHEN WORKING AROUND GAS LINE. HAND EXCAVATE ONLY IN PRESENCE OF INSPECTOR.

**CAUTION!! OVERHEAD AND/OR UNDERGROUND ENERGIZED ELECTRIC IN VICINITY**  
 EXERCISE EXTREME CAUTION WHEN WORKING AROUND ENERGIZED ELECTRIC FACILITIES. HAND EXCAVATE ONLY IN PRESENCE OF INSPECTOR.

**5'x6" BELL HOLE FOR GAS TIE-IN**. WHEN EXCAVATING OR TRENCHING KEEP CLEAR OF EXISTING FACILITIES (TYP.)  
**CAUTION!! ENERGIZED FACILITIES!**  
 HAND EXCAVATE ONLY IN PRESENCE OF INSPECTOR.



813 First Street  
 Brentwood, CA 94513  
 (925) 240-2595  
 (925) 240-7013 fax  
 www.tarrar.com

**TARRAR**  
 UTILITY CONSULTANTS

- Planning
- Design
- Estimating
- Joint Trench
- Street Lighting
- Fiber Optic
- T-24
- PG&E Gas Design
- PG&E Elec Design
- H.E.P. Design
- Cost Analysis
- Due Diligence

**JOINT TRENCH COMPOSITE PLAN**  
 MARCH CAPITAL MANAGEMENT  
 3705 HAVEN AVENUE  
 MENLO PARK CALIFORNIA

NO.	REVISIONS	BY	DATE

DATE: MAY 2022  
 DATE LAST WORKED ON: 3/21/2024  
 SCALE: 1" = 20'  
 DRAWN: HK  
 CHECKED: AR  
 JOB NO.: 222068  
**INTENT TO CONSTRUCT**

811  
 CALL BEFORE YOU DIG  
 UNDERGROUND SERVICE ALERT

C 59346  
 Exp. 06/30/25  
 CIVIL  
 STATE OF CALIFORNIA

SHEET  
**JT5**  
 OF  
**JT5**  
 SHEETS

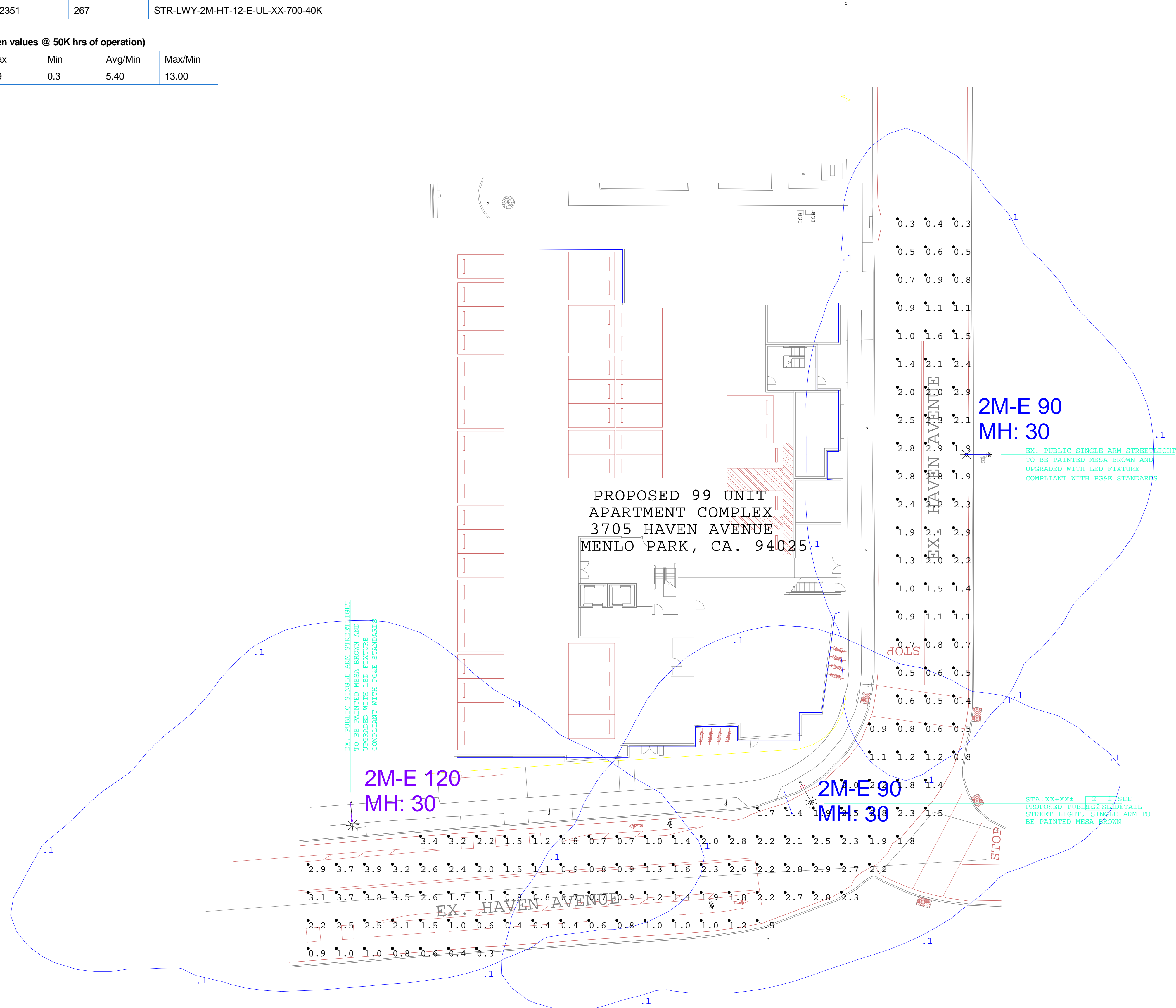


Luminaire Schedule							
Symbol	Qty	Label	Arrangement	LMF	Lum. Lumens	Lum. Watts	Part Number
→	2	2M-E 90	SINGLE	0.970	16774	203	STR-LWY-2M-HT-09-E-UL-XX-700-40K
→	1	2M-E 120	SINGLE	0.970	22351	267	STR-LWY-2M-HT-12-E-UL-XX-700-40K

Calculation Summary (Footcandles calculated using predicted lumen values @ 50K hrs of operation)						
Label	Units	Avg	Max	Min	Avg/Min	Max/Min
ROADWAY	Fc	1.62	3.9	0.3	5.40	13.00

\*\*\*NOTE: EXISTING POLES AND FIXTURES\*\*\*

\*\*\* CUSTOMER TO VERIFY ORDERING INFORMATION AND CATALOGUE NUMBER PRIOR TO PLACING ORDER \*\*\*





# MARCH CAPITAL MANAGEMENT 3705 HAVEN AVENUE MENLO PARK SAN MATEO COUNTY CALIFORNIA

## PUBLIC STREET LIGHTING NOTES

1. ALL MATERIAL AND WORKMANSHIP SHALL FULLY CONFORM WITH THE NATIONAL ELECTRIC CODE AND STANDARD SPECIFICATIONS AND DETAILS OF THE CITY OF MENLO PARK.
2. THE ELECTRICAL CONTRACTOR SHALL INSTALL THE UNDERGROUND SERVICE FROM THE LUMINAIRE TO PG&E SERVICE POINT AND TERMINATE CONDUIT AND WIRES AT BOX AS DIRECTED BY THE CITY.
3. KEEP STREET LIGHTS A MINIMUM OF 3 FEET AWAY FROM THE EDGE OF DRIVEWAYS, SEWER AND WATER LATERALS, AND 5 FEET AWAY FROM FIRE HYDRANTS & CATCH BASINS.
4. TWO OR MORE STREET LIGHTS ON THE SAME CIRCUIT SHALL BE WIRED TO BALANCE THE LOAD. (SEE WIRING DIAGRAM), UNLESS OTHERWISE NOTED.
5. **CONDUIT AND FITTINGS:** ALL CONDUIT AND FITTINGS SHALL BE U.L. APPROVED SCHEDULE 40 P.V.C., USE MINIMUM 1-1/2" SCH. 40 P.V.C. CONDUIT AND FITTINGS BELOW GRADE, UNLESS OTHERWISE NOTED OR REQUIRED. MINIMUM RADIUS BENDS SHALL BE 18". FOR ABOVE GROUND INSTALLATION USE METALLIC RIGID STEEL CONDUIT. PROVIDE PULL WIRE IN EMPTY CONDUITS. ALL CROSSINGS TO BE PERPENDICULAR TO STREET.
6. **CONDUIT DEPTH:** 24" UNDER SIDEWALK; 24" UNDER PLANTER STRIP; 30" UNDER PAVEMENT.
7. **CABLE:** CABLE SHALL BE U.L. A.W.G. NO. 8, 7-STRAND SOFT COPPER, TYPE THW OR THWN WITH MINIMUM OF 3/64" (40 MIL) POLYVINYLCHLORIDE INSULATION, UNLESS OTHERWISE NOTED. U.L. LISTED 600 VOLT, NO. 10 IN POLE MAY BE USED (40 MIL INSULATION).
8. **SPlice BOXES:** SPlice BOXES SHALL BE NO. 3-1/2 STATE TYPE WITH LID AND BRASS HOLD DOWN BOLTS, UNLESS OTHERWISE NOTED. LIDS TO BE INSCRIBED "STREET LIGHTING". SPlice BOXES SHALL NOT BE MORE THAN 200 FEET APART ON LONG RUNS. SPlice BOXES TO BE SET ON A CONCRETE FOOTING WHEN SUBJECT TO TRAFFIC LOAD.
9. **FUSES:** EACH POLE SHALL BE FUSED WITH WATERPROOF IN-LINE FUSE HOLDERS AT EACH ADJACENT BOX WITH 5 AMP FUSE. FOR DUPLEX LIGHTS, EACH LUMINAIRE SHALL BE FUSED SEPARATELY.
10. **SPlicing:** ALL SPlicing SHALL BE MADE IN HAND HOLES OR SPlice BOXES ONLY. SPlicing SHALL BE MADE WITH "STACK-ON" CRIMP JOINTS, "SCOTCH LOCK" FASTENERS, OR APPROVED EQUAL. ON SPlicing MADE BELOW GRADE, WRAP WITH MOISTURE PROOF INSULATION THICKNESS.
11. **POLE NUMBERS:** OBTAIN AND PLACE POLE NUMBERS ON ALL STREET LIGHT STANDARDS AS REQUIRED. COORDINATE WITH PG&E AND/OR CITY FOR THEIR REQUIREMENTS.
12. **TRENCH:** CONDUIT CANNOT BE PLACED IN JOINT TRENCH. THE CONDUIT LAYOUT IS SHOWN SCHEMATICALLY. SEE COMPOSITE DRAWING FOR TRENCH AND BOX LOCATIONS. ANY INCIDENTAL TRENCHING NOT PROVIDED BY TRENCHING AGENT IS CONTRACTOR'S RESPONSIBILITY.
13. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY FIELD CHANGES MADE WITHOUT FIRST NOTIFYING TARRAR UTILITY CONSULTANTS.
14. TARRAR UTILITY CONSULTANTS ASSUMES NO RESPONSIBILITY FOR ANY VARIANCE BETWEEN THESE PLANS AND THE ACTUAL FIELD CONDITIONS. CONTRACTOR SHOULD REVIEW PROJECT SITE PRIOR TO SUBMITTING ITS BID.
15. CONTRACTOR TO CONSULT WITH LOCAL AGENCIES FOR THEIR CIRCUIT GROUNDING REQUIREMENTS. IF GROUND WIRE IS REQUIRED IN CONDUIT, INSTALL ACCORDINGLY.
16. LEGEND SYMBOLS ARE SHOWN IN STREET AREA FOR CLARITY. INSTALL BEHIND CURB AND/OR SIDEWALK PER THE CITY SPECIFICATIONS KEEP CLEAR OF DRIVEWAYS AND PATHWAYS (TYPICAL).
17. CENTERLINE OF STREET LIGHTS SHALL BE LOCATED ON THE LOT LINE UNLESS OTHERWISE NOTED ON THESE PLANS.
18. ANY CHANGES OR MODIFICATIONS TO PROPOSED STREET LIGHT LOCATIONS SHALL BE APPROVED, IN WRITING, BY THE CITY PRIOR TO INSTALLATION.
19. SET ALL STREET LIGHTS TO ULTIMATE FINISHED GRADE. CONSULT WITH CITY FOR PROPER PHYSICAL PROTECTION AND/OR SIGNING AND STRIPING ADJACENT TO ANY STREET LIGHTS INSTALLED IN THEIR ULTIMATE LOCATIONS THAT ARE NOT PROTECTED BY A VERTICAL CURB. BERM AND COMPACT EARTH TO FINISHED GRADE A MINIMUM OF 5' AROUND STREET LIGHT BASES AT THESE LOCATIONS.
20. CONTACT U.S.A. (2) FULL WORKING DAYS PRIOR TO STARTING WORK IF EXISTING UTILITIES CONFLICT WITH POLE LOCATION, FIELD ADJUST TO CLEAR EXISTING UTILITIES A MINIMUM OF 3'-0".
21. STREET LIGHT CONDUIT BENDS SHALL HAVE A MINIMUM 2 FOOT RADIUS. UNLESS OTHERWISE SHOWN ON THE PLANS, NO BEND SHALL BE INSTALLED IN THE STREET LIGHT SYSTEM WITHOUT PRIOR APPROVAL OF THE CITY INSPECTOR.
22. ALL BOXES ARE TO BE INSTALLED WITHIN THE R/W AND/OR P.U.E. AREA.

### CONSTRUCTION LABOR AND MATERIAL RESPONSIBILITY STREET LIGHTING SYSTEM (PUBLIC)

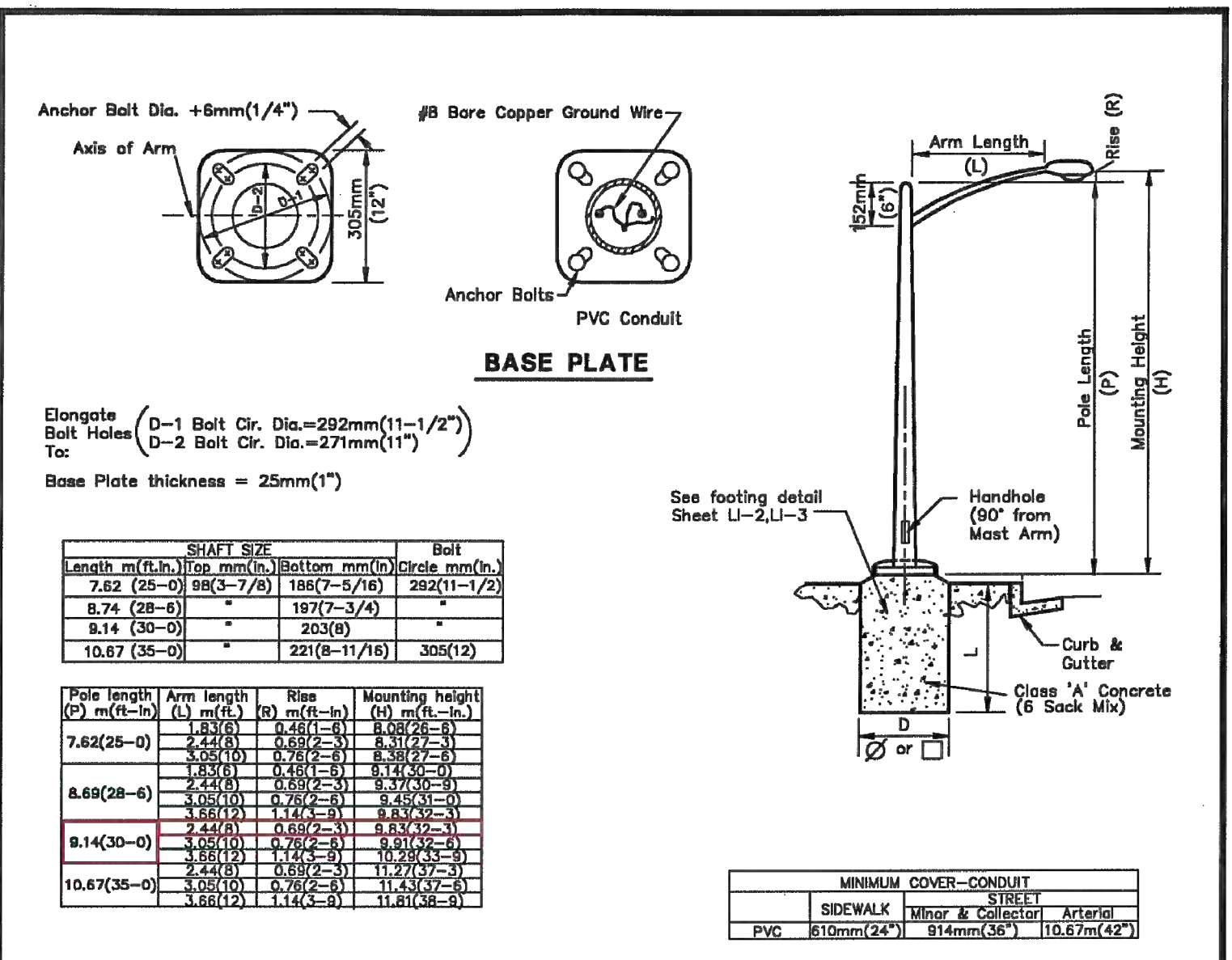
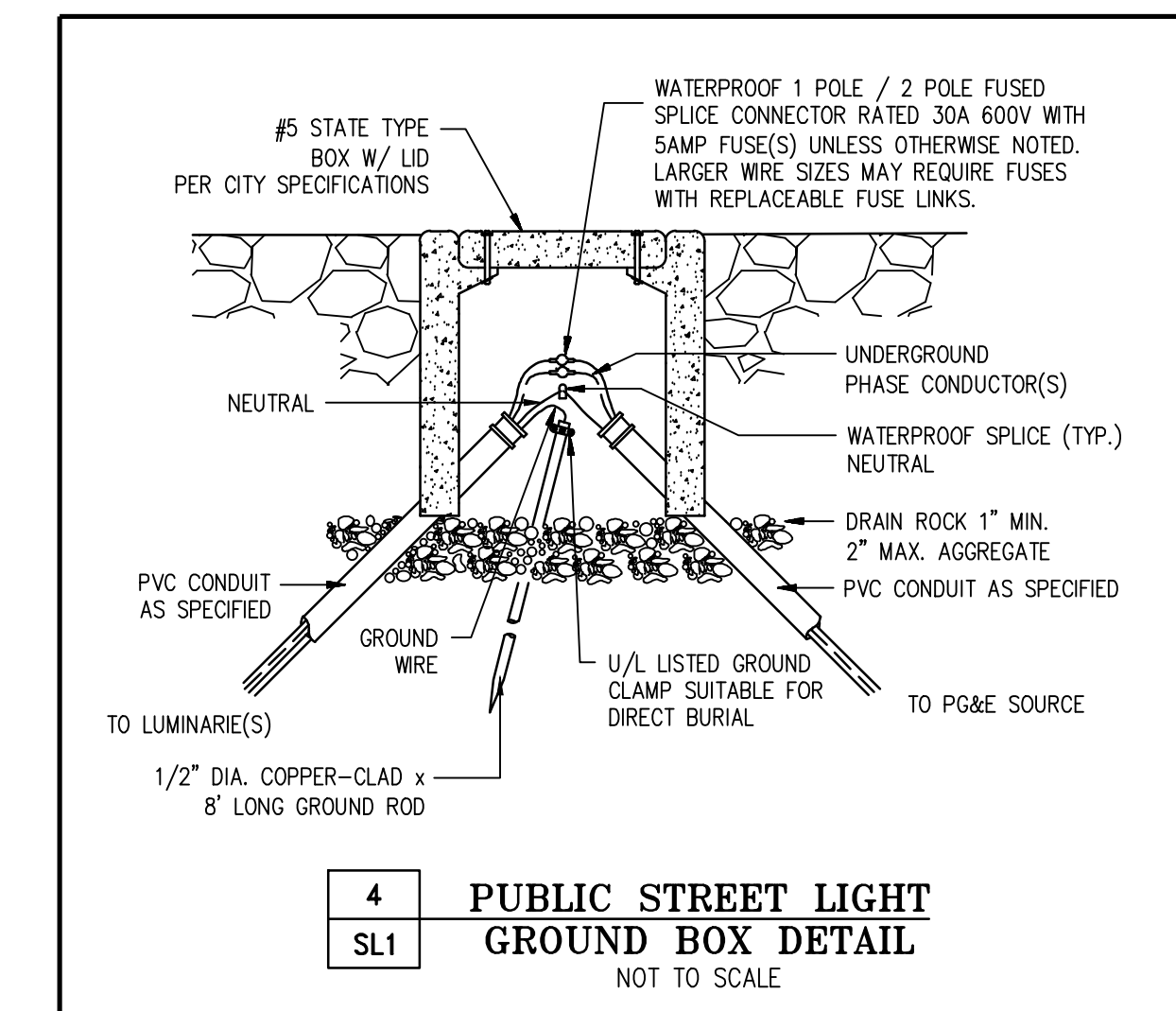
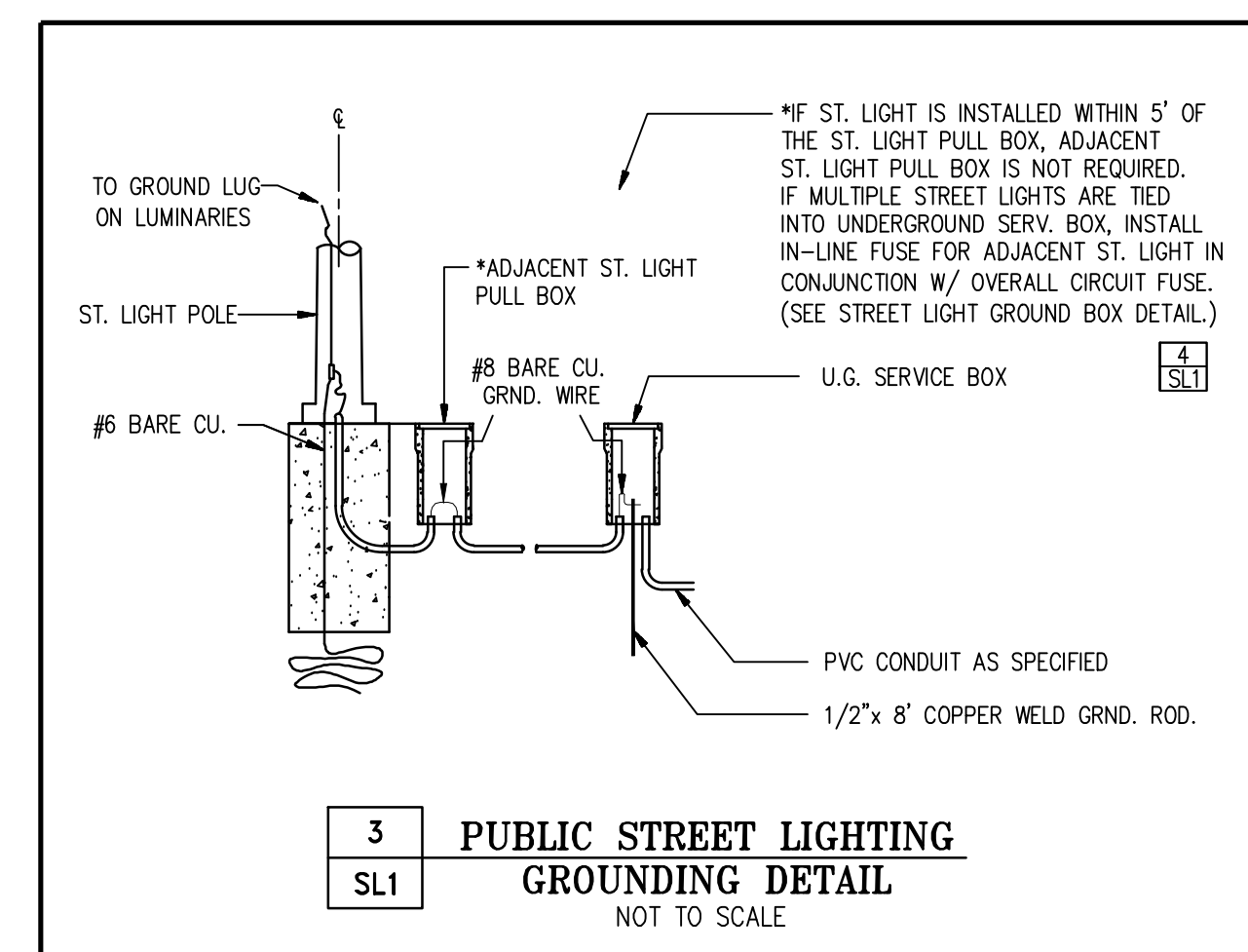
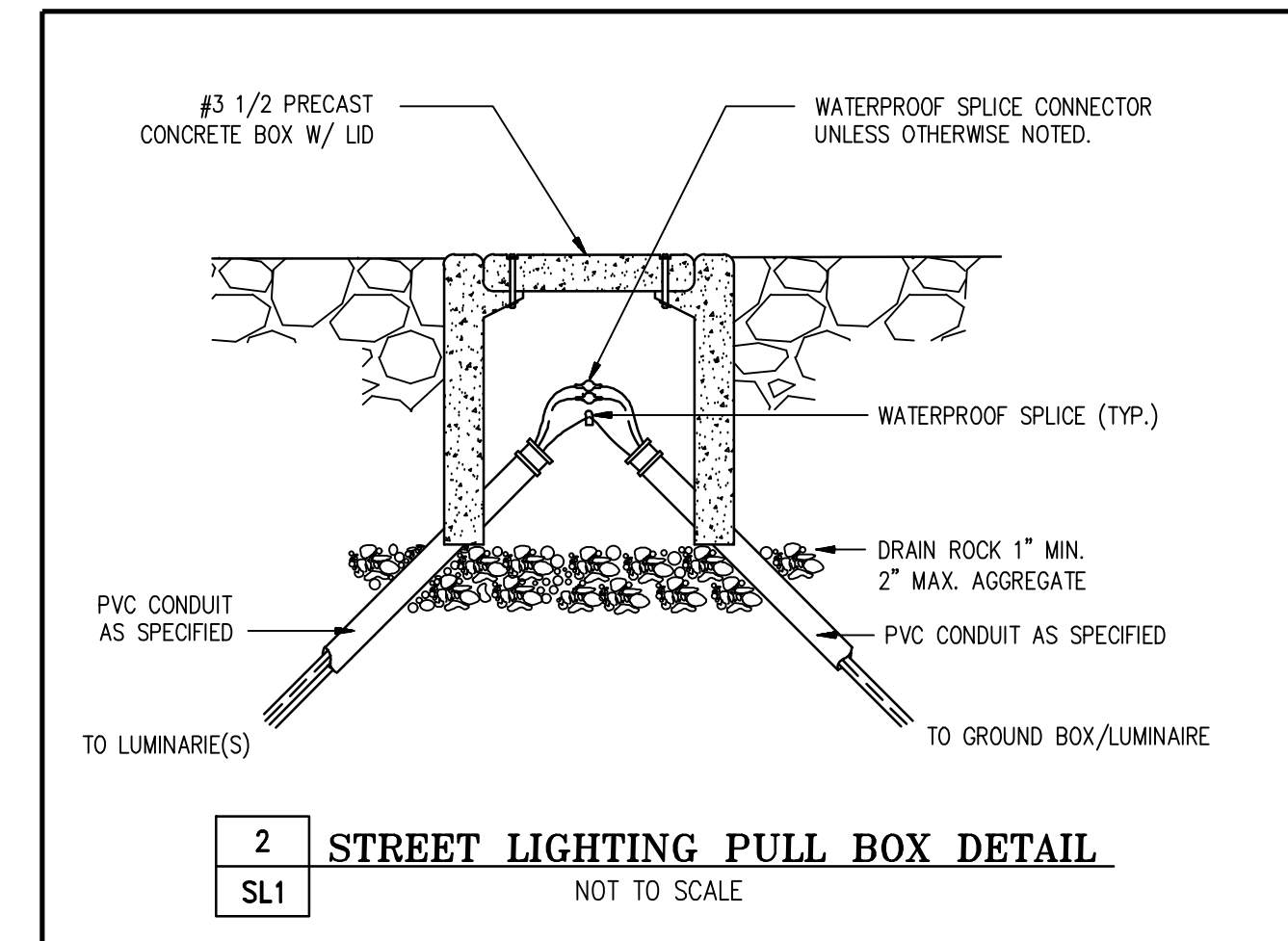
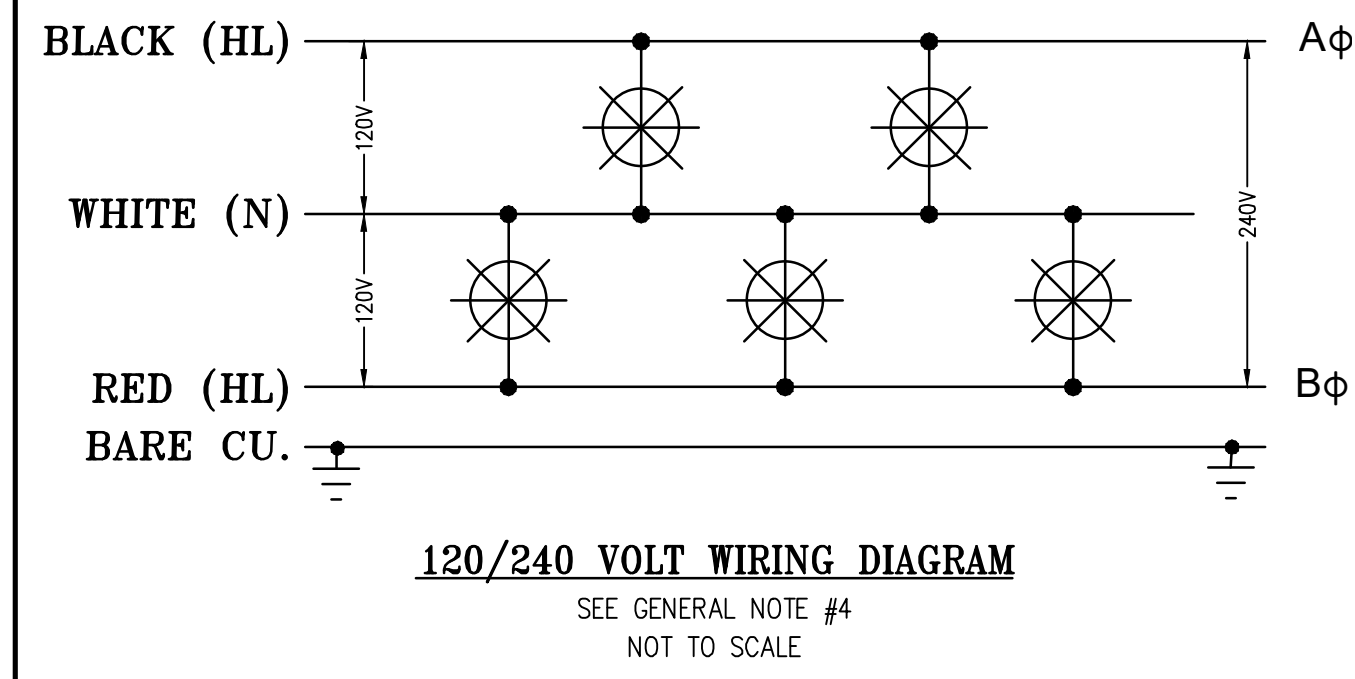
WIRE:	FURNISH:	INSTALL:
CONDUIT:	FURNISH	INSTALL
BASES:	FURNISH	INSTALL
LUMINAIRES:	FURNISH	INSTALL
SPlicing BOXES:	FURNISH	INSTALL
EXCAVATE:	FURNISH	INSTALL
POLES & ARMS:	FURNISH	INSTALL

SCHEDULE:	LSZA
INSTALL IN JOINT TRENCH:	NO
INSTALL IN SEPARATE TRENCH:	YES
CONDUIT SIZE:	1 1/2"
CONDUIT TYPE:	SCH. 40
WIRE SIZE:	#8
TYPE:	CU

**ADDITIONAL NOTES:**  
 -DEVELOPER TO SUPPLY AND INSTALL ELECTRIC FACILITIES UNDER THE COMPETITIVE BIDDING PROVISIONS OF PG&E GREEN BOOK RULES 15, 16 AND 20.  
 -STREET LIGHTS TO BE MAINTAINED BY LANDSCAPING DISTRICT #X-X, UPON TRACT ACCEPTANCE.  
 -SEE JOINT TRENCH COMPOSITE FOR TRENCH.

### LEGEND

- ESL — EXISTING STREET LIGHT CONDUIT
- SL — PROPOSED STREET LIGHT CONDUIT
- X'(XX)'S.L. COND.) STREET LIGHTING CONDUIT LABEL, X' INDICATES CONDUIT LENGTH, (XX)'S.L. COND.) INDICATES CONDUIT SIZE
- X'(XX) STREET LIGHTING WIRE LABEL, X' INDICATES WIRE LENGTH, (XX) INDICATES WIRE TYPE.
- (2W) 2-#8 CU. WIRE (SEE NOTE 15)
- (3W) 3-#8 CU. WIRE (SEE NOTE 15)
- (3WG) 2-#8 CU. WIRE & 1-#8 BARE CU. GROUND (UNLESS OTHERWISE NOTED); SEE NOTE 15 & GROUNDING DETAIL
- (4WG) 3-#8 CU. WIRE & 1-#8 BARE CU. GROUND (UNLESS OTHERWISE NOTED); SEE NOTE 15 & GROUNDING DETAIL
- STREET LIGHTING PULL BOX STATE TYPE #3 1/2, 10" x 17" x 12"
- ⊠ STREET LIGHTING GROUND BOX STATE TYPE #5, 13" x 24" x 12"
- PROPOSED PUBLIC STREET LIGHT, SINGLE ARM
- EXISTING STREET LIGHT, SINGLE ARM
- ⊙ CIRCUIT NUMBER/PHASE (SEE ELECTRIC SOURCE DETAILS)
- (XXXX) POLE NUMBER
- ⊕ STREET LIGHT POINT OF SERVICE
- F/C FACE OF CURB



- GENERAL NOTES:**
1. Anchor bolts - 25x91x102mm(1"x 3/8" x 4") (4 ea.)
  2. All steel parts shall be hot dip galvanized after fabrication.
  3. Base cover required.
  4. Pole shall be 401 (10 ga.)
  5. Conduit size: 32mm(1-1/4") min. unless otherwise noted.
  6. Conductor size: In streetlight pole & arm use #10 THWN. In conduit use #8 THWN.
  7. Handhole reinforcement ring to be 6x38mm(1/4" x 1-1/2").
  8. Luminaire shall be high pressure sodium vapor (HPSV) manufactured by General Electric or approved equal. The wattage and distribution as shown on approved plans.
  9. All street lights shall be wired to a multiple circuit, 240 volts.
  10. Poles and mounting arms shall be steel, prime coated and painted with two coats of paint, semi gloss, "Kelly Moore # 183," "Mesa Brown."
  11. All luminaires shall be installed with integral ballasts and individual photo-electric control.
  12. Luminaires shall be Semi-Cut-Off and housing shall be provided with a slip-filter capable of mounting on two inch pipe tenon and of being adjusted ±5 degrees from the axis of the tenon.

**ELEVATION**

FOOTING DIMENSIONS	
SINGLE ARM	DUPLEX ARM
D 762mm (30")	762mm (30")
L 1,520mm (60")	1,630mm (65")

\*Except 10.67m(35') Pole L=1,630mm(65")

**CITY OF MENLO PARK STANDARD DETAILS**

NO.	REVISIONS	DATE
1		

**STREET LIGHT POLE AND FITTINGS**

APPROVED: *[Signature]*  
Director of Engineering Services, P.E. No. 10358

STANDARD DETAIL No.: LL-1

**1 PUBLIC STREET LIGHT CITY DETAIL**  
NOT TO SCALE

FOR REVIEW ONLY

813 First Street  
Brentwood, CA 94513  
(925) 240-2595  
(925) 240-7013 fax  
www.tarrar.com

# TARRAR

UTILITY CONSULTANTS

- Planning
- T-24
- Design
- PG&E Gas Design
- Estimating
- PG&E Elec Design
- Joint Trench
- H. E. P. Design
- Street Lighting
- Cost Analysis
- Fiber Optic
- Due Diligence

## STREET LIGHTING GENERAL NOTES AND DETAILS

MARCH CAPITAL MANAGEMENT  
3705 HAVEN AVENUE  
MENLO PARK CALIFORNIA

NO.	REVISIONS	BY	DATE

DATE: MAY 2022      DATE LAST WORKED ON: 4/21/2023

SCALE: NOT TO SCALE      DRAWN: SM      CHECKED: AR

JOB NO.: 222068      PRELIMINARY NOT FOR CONSTRUCTION

INTENT TO CONSTRUCT

811  
CALL BEFORE YOU DIG  
UNDERGROUND SERVICE ALERT

SL1

SL3

SHEETS



**LEDway® Series**

LEDway® LED Street Light

Rev. Date: V5.04/24/2020

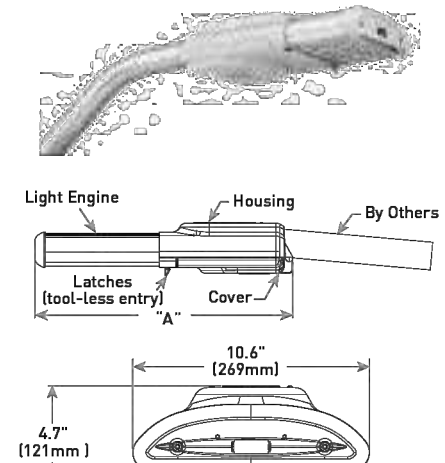
**Product Description**  
Luminaire housing is all aluminum construction. Standard luminaire utilizes terminal block for power input suitable for #2-#14 AWG wire. Luminaire is designed to mount on a 2" (51mm) IP: 2.375" (60mm) O.D. horizontal tenon and/or a 1.25" (32mm) IP: 1.44" (37mm) O.D. horizontal tenon (minimum 8" (203mm) in length) and is adjustable +/- 3° to allow for luminaire leveling (two axis 1-level included).  
**Applications:** Roadway, parking lots, walkways and general area spaces

**Performance Summary**

- Patented Non-Cold-Start Protection Technology
- Assembled in the U.S.A. of U.S. and imported parts
- UL Minimum 70 CRI
- CEC: 400K (v-f: 300K, 5700K (v-f: 500K) standard
- Limited Warranty: 10 years on luminaire/10 years on ColorSelect DetailShield® Finish

**Accessories**

Part Number	Description	Part Number	Description
31-31-LED	31-31-LED	31-31-LED	31-31-LED
31-31-LED	31-31-LED	31-31-LED	31-31-LED
31-31-LED	31-31-LED	31-31-LED	31-31-LED
31-31-LED	31-31-LED	31-31-LED	31-31-LED
31-31-LED	31-31-LED	31-31-LED	31-31-LED



**Ordering Information**

Complete: STR-LWP-2M-HT-09-E-UL-09-700

STR-LWP	2M	HT	09	E	UL	700	40K
Product	Style	Mounting	LED Count (x10)	Series	Color Options	Drive Current	Options
09-100	HT	Horizontal Tenon	82	E	UL (Universal) / 70-200	347-480V	09-100

UL US  
CUL  
US: cressall@tarrar.com (800) 234-4800  
Canada: cressall@tarrar.com (800) 473-1234

**CREE LIGHTING**

**LEDway® Series**

LEDway® LED Street Light

Rev. Date: V5.04/24/2020

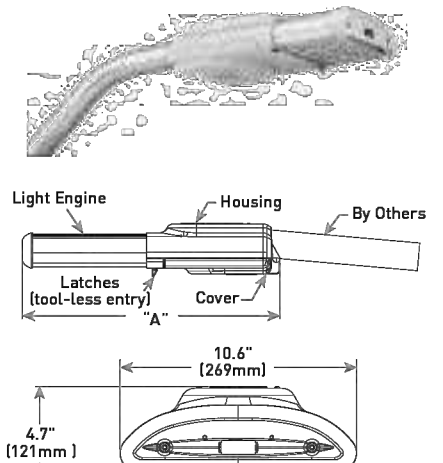
**Product Description**  
Luminaire housing is all aluminum construction. Standard luminaire utilizes terminal block for power input suitable for #2-#14 AWG wire. Luminaire is designed to mount on a 2" (51mm) IP: 2.375" (60mm) O.D. horizontal tenon and/or a 1.25" (32mm) IP: 1.44" (37mm) O.D. horizontal tenon (minimum 8" (203mm) in length) and is adjustable +/- 3° to allow for luminaire leveling (two axis 1-level included).  
**Applications:** Roadway, parking lots, walkways and general area spaces

**Performance Summary**

- Patented Non-Cold-Start Protection Technology
- Assembled in the U.S.A. of U.S. and imported parts
- UL Minimum 70 CRI
- CEC: 400K (v-f: 300K, 5700K (v-f: 500K) standard
- Limited Warranty: 10 years on luminaire/10 years on ColorSelect DetailShield® Finish

**Accessories**

Part Number	Description	Part Number	Description
31-31-LED	31-31-LED	31-31-LED	31-31-LED
31-31-LED	31-31-LED	31-31-LED	31-31-LED
31-31-LED	31-31-LED	31-31-LED	31-31-LED
31-31-LED	31-31-LED	31-31-LED	31-31-LED
31-31-LED	31-31-LED	31-31-LED	31-31-LED



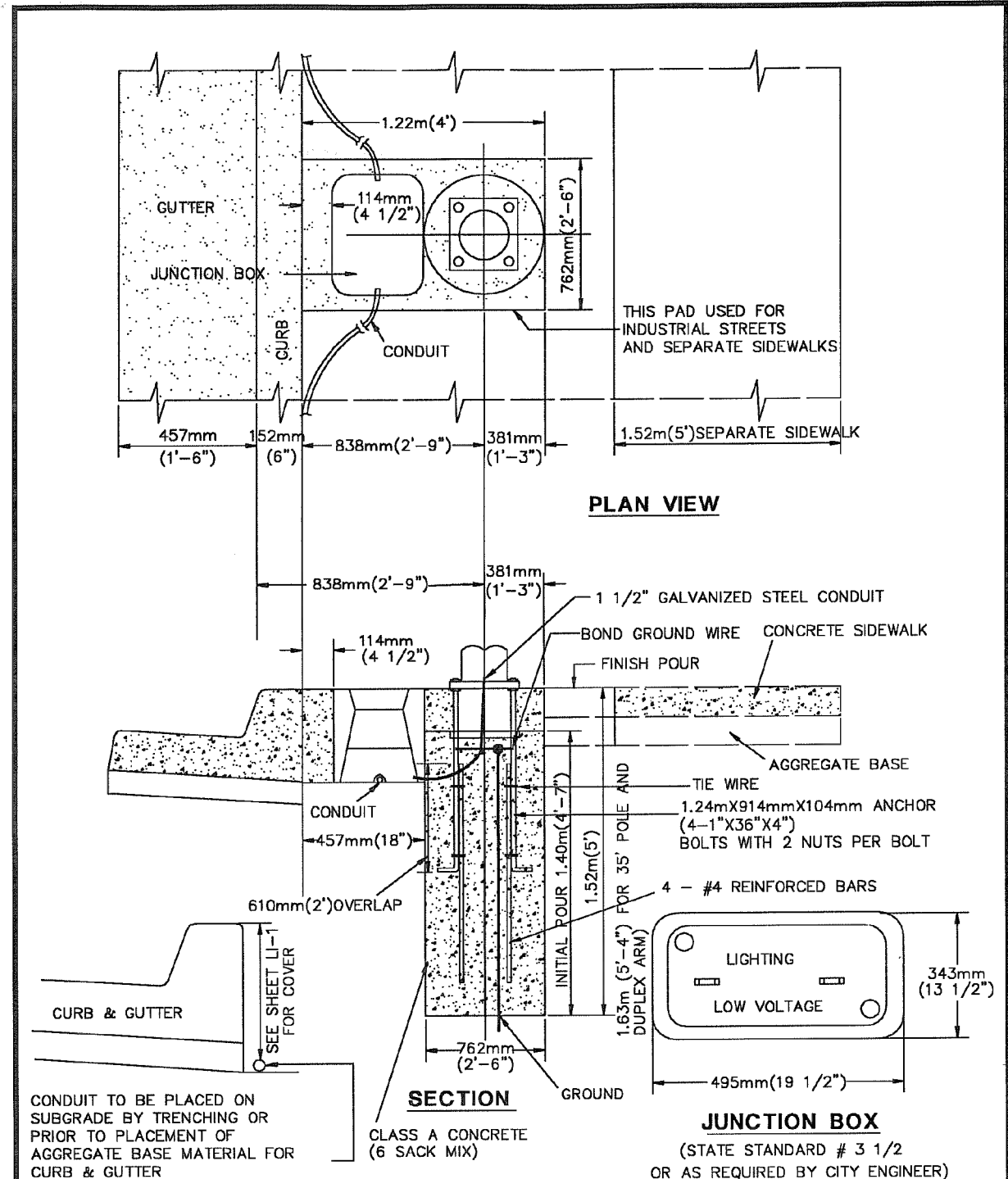
**Ordering Information**

Complete: STR-LWP-2M-HT-09-E-UL-09-700

STR-LWP	2M	HT	09	E	UL	700	40K
Product	Style	Mounting	LED Count (x10)	Series	Color Options	Drive Current	Options
09-100	HT	Horizontal Tenon	82	E	UL (Universal) / 70-200	347-480V	09-100

UL US  
CUL  
US: cressall@tarrar.com (800) 234-4800  
Canada: cressall@tarrar.com (800) 473-1234

**CREE LIGHTING**



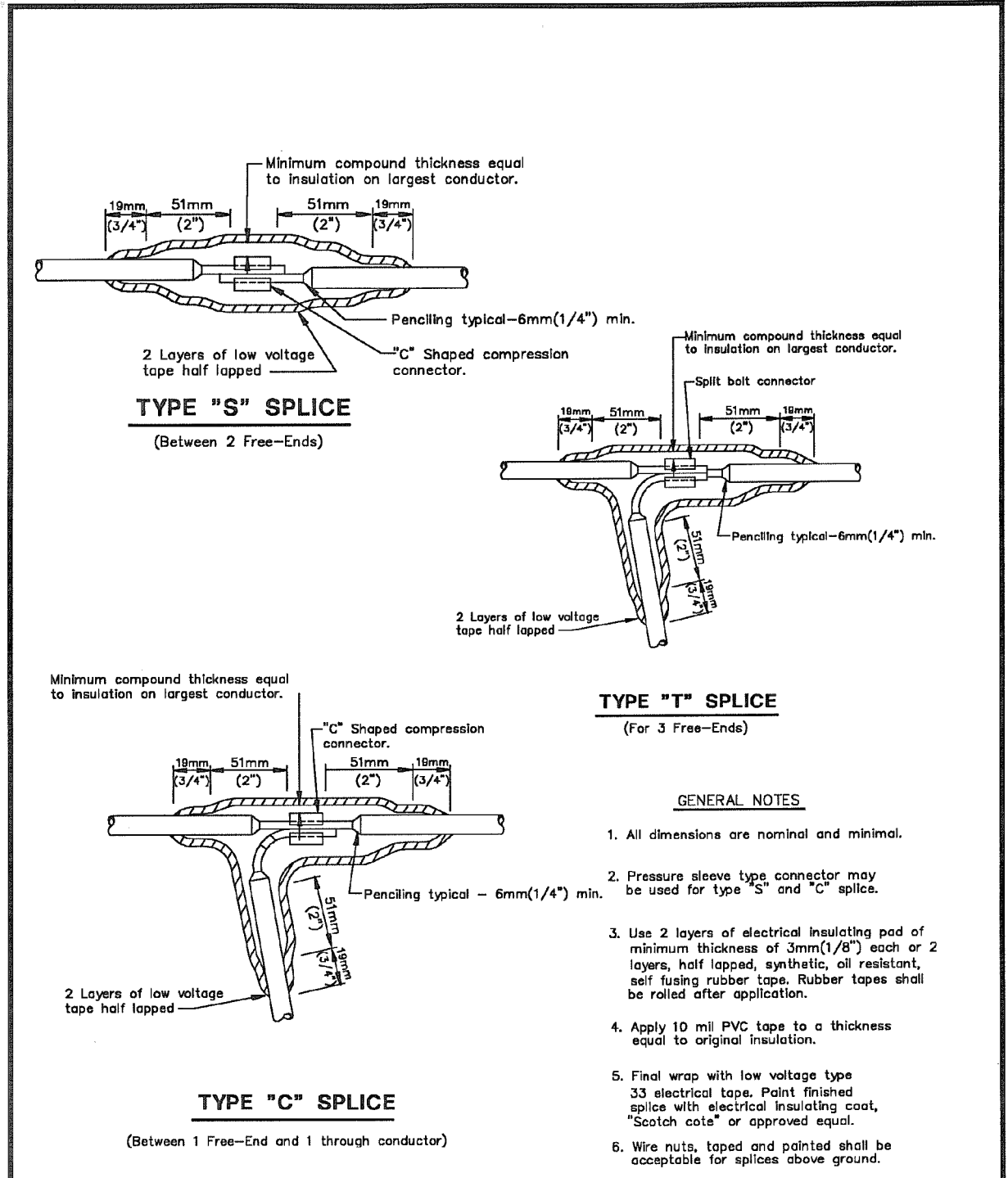
**CITY OF MENLO PARK STANDARD DETAILS**

**ELECTROLIER AND CONDUIT LOCATION FOR STREETS WITH SEPARATE SIDEWALK**

APPROVED: [Signature]

DATE: 1-1-97

3 CITY OF MENLO PARK ELECTROLIER AND CONDUIT DETAIL  
SL2 NOT TO SCALE



**CITY OF MENLO PARK STANDARD DETAILS**

**STREET LIGHT UNDERGROUND SPLICES**

APPROVED: [Signature]

DATE: 1-1-97

4 CITY OF MENLO PARK UNDERGROUND SPLICES DETAIL  
SL2 NOT TO SCALE

**LEDway® LED Street Light**

Product Specifications

- CONSTRUCTION & MATERIALS**
  - Housing is all aluminum construction
  - Terminal block for power input suitable for #2-#14 AWG wire
  - HT Mount is designed to mount on a 2" (51mm) IP: 2.375" (60mm) O.D. horizontal tenon and/or a 1.25" (32mm) IP: 1.44" (37mm) O.D. horizontal tenon (minimum 8" (203mm) in length) and is adjustable +/- 3° to allow for luminaire leveling (two axis 1-level included)
  - Exclusive ColorSelect DetailShield® Finish features an E-Coat epoxy primer with an ultra-durable powder topcoat, providing excellent resistance to corrosion, ultraviolet degradation and abrasion. Black, bronze, and silver are available
  - Weight: See Dimensions and Weight chart on page 1
- ELECTRICAL SYSTEM**
  - Input Voltage: 120-277V or 347-480V, 50/60Hz, Class 1 drivers
  - Power Factor: > 0.9 at full load
  - Total Harmonic Distortion: < 20% at full load
  - Quick disconnect harness suitable for mate and break under load provided on power feed to driver for ease of maintenance
  - Integral 100V surge suppression protection standard
  - To address inrush current, slow blow fuse or type C/D breaker should be used
  - 10V Source Current: 20-40 LED: 0.15mA, 80-120 LED: 0.30mA
- REGULATORY & VOLUNTARY QUALIFICATIONS**
  - cULus Listed
  - Suitable for wet locations
  - Meets CALTRANS #11 Vibration testing and GR-43-CORE Section 4.4.1/5.4.2 Earthquake Zone 4
  - Certified to ANSI C136.31-2001, 30 bridge and overpass vibration standards
  - ANSI C136.2 100V surge protection, tested in accordance with IEEE/ANSI C42.41.2
  - Luminaire and finish are endurance tested to withstand 5,000 hours of elevated ambient salt fog as defined in ASTM Standard B 117
  - Meets Bay American requirements within ARRA
  - Meets FCC Part 15, Subpart B, Class A limits for conducted and radiated emissions

**Electrical Data\***

LED Count (x10)	System Watts 120-277V	System Watts 347-480V	Total Current (A)				
	120V	208V	240V	277V	347V	480V	
02	35	39	0.30	0.18	0.16	0.15	0.12
03	53	59	0.45	0.26	0.23	0.21	0.16
04	71	79	0.56	0.33	0.29	0.26	0.21
05	89	99	0.72	0.42	0.37	0.33	0.25
06	107	119	0.86	0.51	0.45	0.39	0.30
07	125	139	1.01	0.60	0.54	0.47	0.37
08	143	159	1.17	0.69	0.61	0.54	0.41
09	161	179	1.34	0.80	0.70	0.61	0.38
10	179	199	1.54	0.89	0.79	0.70	0.45
11	197	219	1.67	0.94	0.83	0.73	0.49
12	197	219	1.67	0.94	0.83	0.73	0.49

**LEDway® Ambient Adjusted Lumen Maintenance\***

Ambient	CCT	Initial LMF	25K hr Report <sup>†</sup> LMF	50K hr Report <sup>†</sup> LMF	75K hr Estimate <sup>†</sup> LMF	100K hr Estimate <sup>†</sup> LMF
5°C (41°F)	3000K/5000K	1.04	1.01	0.99	0.98	0.96
	TRL	1.06	1.06	1.06	1.06	1.06
10°C (50°F)	3000K/5000K	1.03	1.00	0.98	0.97	0.95
	TRL	1.04	1.04	1.04	1.04	1.04
15°C (59°F)	3000K/5000K	1.02	0.99	0.97	0.96	0.94
	TRL	1.03	1.03	1.03	1.03	1.03
20°C (68°F)	3000K/5000K	1.01	0.98	0.96	0.95	0.93
	TRL	1.01	1.01	1.01	1.01	1.01
25°C (77°F)	3000K/5000K	1.00	0.97	0.95	0.94	0.92
	TRL	1.00	1.00	1.00	1.00	1.00

US: cressall@tarrar.com (800) 234-4800  
Canada: cressall@tarrar.com (800) 473-1234

**CREE LIGHTING**

**LEDway® LED Street Light**

Product Specifications

- CONSTRUCTION & MATERIALS**
  - Housing is all aluminum construction
  - Terminal block for power input suitable for #2-#14 AWG wire
  - HT Mount is designed to mount on a 2" (51mm) IP: 2.375" (60mm) O.D. horizontal tenon and/or a 1.25" (32mm) IP: 1.44" (37mm) O.D. horizontal tenon (minimum 8" (203mm) in length) and is adjustable +/- 3° to allow for luminaire leveling (two axis 1-level included)
  - Exclusive ColorSelect DetailShield® Finish features an E-Coat epoxy primer with an ultra-durable powder topcoat, providing excellent resistance to corrosion, ultraviolet degradation and abrasion. Black, bronze, and silver are available
  - Weight: See Dimensions and Weight chart on page 1
- ELECTRICAL SYSTEM**
  - Input Voltage: 120-277V or 347-480V, 50/60Hz, Class 1 drivers
  - Power Factor: > 0.9 at full load
  - Total Harmonic Distortion: < 20% at full load
  - Quick disconnect harness suitable for mate and break under load provided on power feed to driver for ease of maintenance
  - Integral 100V surge suppression protection standard
  - To address inrush current, slow blow fuse or type C/D breaker should be used
  - 10V Source Current: 20-40 LED: 0.15mA, 80-120 LED: 0.30mA
- REGULATORY & VOLUNTARY QUALIFICATIONS**
  - cULus Listed
  - Suitable for wet locations
  - Meets CALTRANS #11 Vibration testing and GR-43-CORE Section 4.4.1/5.4.2 Earthquake Zone 4
  - Certified to ANSI C136.31-2001, 30 bridge and overpass vibration standards
  - ANSI C136.2 100V surge protection, tested in accordance with IEEE/ANSI C42.41.2
  - Luminaire and finish are endurance tested to withstand 5,000 hours of elevated ambient salt fog as defined in ASTM Standard B 117
  - Meets Bay American requirements within ARRA
  - Meets FCC Part 15, Subpart B, Class A limits for conducted and radiated emissions

**Electrical Data\***

LED Count (x10)	System Watts 120-277V	System Watts 347-480V	Total Current (A)				
	120V	208V	240V	277V	347V	480V	
02	35	39	0.30	0.18	0.16	0.15	0.12
03	53	59	0.45	0.26	0.23	0.21	0.16
04	71	79	0.56	0.33	0.29	0.26	0.21
05	89	99	0.72	0.42	0.37	0.33	0.25
06	107	119	0.86	0.51	0.45	0.39	0.30
07	125	139	1.01	0.60	0.54	0.47	0.37
08	143	159	1.17	0.69	0.61	0.54	0.41
09	161	179	1.34	0.80	0.70	0.61	0.38
10	179	199	1.54	0.89	0.79	0.70	0.45
11	197	219	1.67	0.94	0.83	0.73	0.49
12	197	219	1.67	0.94	0.83	0.73	0.49

**LEDway® Ambient Adjusted Lumen Maintenance\***

Ambient	CCT	Initial LMF	25K hr Report <sup>†</sup> LMF	50K hr Report <sup>†</sup> LMF	75K hr Estimate <sup>†</sup> LMF	100K hr Estimate <sup>†</sup> LMF
5°C (41°F)	3000K/5000K	1.04	1.01	0.99	0.98	0.96
	TRL	1.06	1.06	1.06	1.06	1.06
10°C (50°F)	3000K/5000K	1.03	1.00	0.98	0.97	0.95
	TRL	1.04	1.04	1.04	1.04	1.04
15°C (59°F)	3000K/5000K	1.02	0.99	0.97	0.96	0.94
	TRL	1.03	1.03	1.03	1.03	1.03
20°C (68°F)	3000K/5000K	1.01	0.98	0.96	0.95	0.93
	TRL	1.01	1.01	1.01	1.01	1.01
25°C (77°F)	3000K/5000K	1.00	0.97	0.95	0.94	0.92
	TRL	1.00	1.00	1.00	1.00	1.00

US: cressall@tarrar.com (800) 234-4800  
Canada: cressall@tarrar.com (800) 473-1234

**CREE LIGHTING**

1 PUBLIC LUMINAIRE DETAIL  
SL2 NOT TO SCALE

2 PUBLIC LUMINAIRE DETAIL  
SL2 NOT TO SCALE

FOR REVIEW ONLY

813 First Street  
Brentwood, CA 94513  
(925) 240-2595  
(925) 240-7013 fax  
www.tarrar.com

**TARRAR**  
UTILITY CONSULTANTS

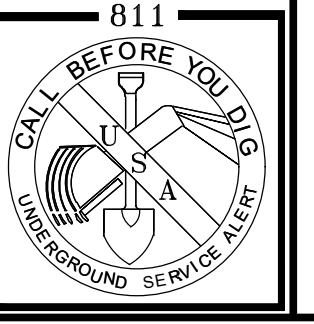
- Planning
- Design
- Estimating
- Joint Trench
- Street Lighting
- Fiber Optic
- T-24
- PG&E Gas Design
- PG&E Elec Design
- H. E. P. Design
- Cost Analysis
- Due Diligence

STREET LIGHTING GENERAL NOTES AND DETAILS

MARCH CAPITAL MANAGEMENT  
3705 HAVEN AVENUE  
MENLO PARK CALIFORNIA

NO.	REVISIONS	BY	DATE

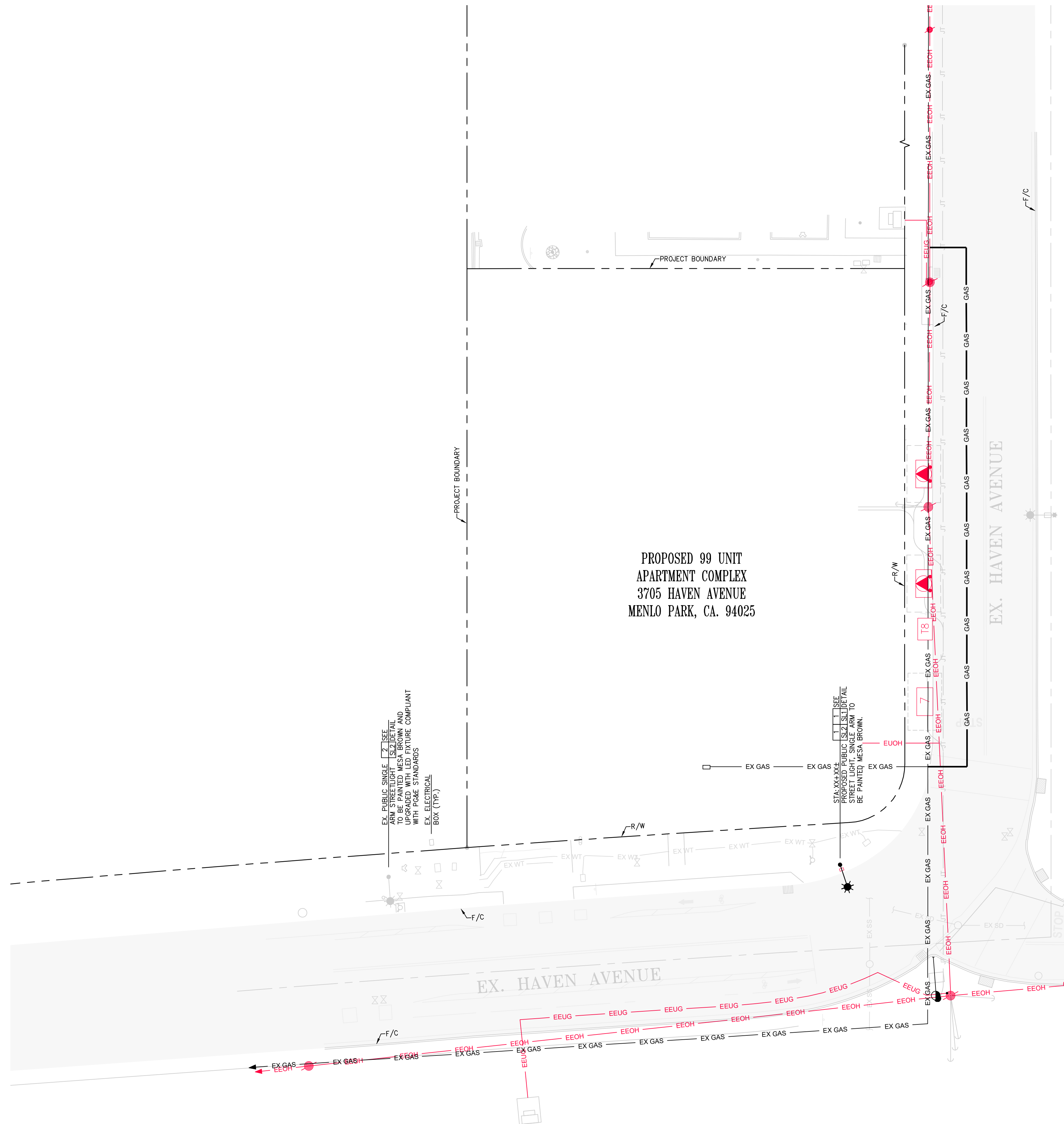
DATE: MAY 2022	DATE LAST WORKED ON: 4/21/2023
SCALE: NOT TO SCALE	DRAWN: SM CHECKED: AR
JOB NO.: 222068	PRELIMINARY NOT FOR CONSTRUCTION
INTENT TO CONSTRUCT	



SHEET  
SL2  
SL3  
OF SHEETS



PROPOSED 99 UNIT  
APARTMENT COMPLEX  
3705 HAVEN AVENUE  
MENLO PARK, CA. 94025

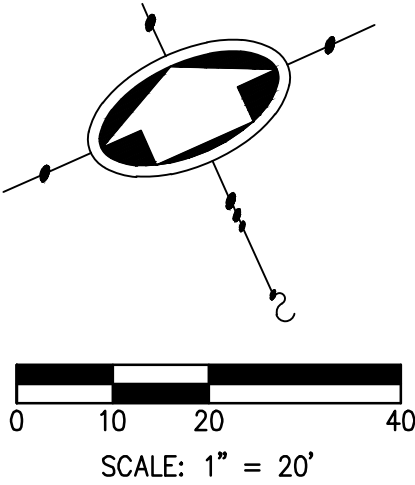


EX. PUBLIC SINGLE ARM STREETLIGHT SEE DETAIL TO BE PAINTED MESA BROWN AND UPGRADED WITH LED FIXTURE COMPLIANT WITH PG&E STANDARDS

PROPOSED PUBLIC SINGLE ARM STREET LIGHT, SINGLE ARM TO BE PAINTED MESA BROWN.

EX. PUBLIC SINGLE ARM STREETLIGHT SEE DETAIL TO BE PAINTED MESA BROWN AND UPGRADED WITH LED FIXTURE COMPLIANT WITH PG&E STANDARDS

FOR REVIEW ONLY



813 First Street  
Brentwood, CA 94513  
(925) 240-2595  
(925) 240-7013 fax  
www.tarrar.com

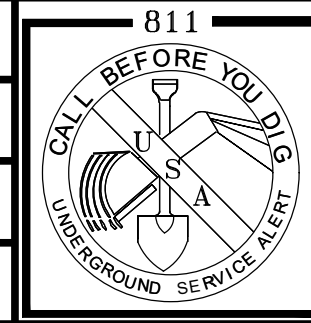


- Planning
- Design
- Estimating
- Joint Trench
- Street Lighting
- Fiber Optic
- T-24
- PG&E Gas Design
- PG&E Elec Design
- M. E. P. Design
- Cost Analysts
- Due Diligence

STREET LIGHTING SITE PLAN  
MARCH CAPITAL MANAGEMENT  
3705 HAVEN AVENUE  
MENLO PARK CALIFORNIA

NO.	REVISIONS	BY	DATE

DATE: MAY 2022	DATE LAST WORKED ON: 4/21/2023
SCALE: 1" = 20'	DRAWN: HK CHECKED: AR
JOB NO.: 222068	PRELIMINARY NOT FOR CONSTRUCTION
INTENT TO CONSTRUCT	



SHEET  
SL3  
OF  
SL3  
SHEETS

## APPENDIX B: EXISTING VISTRO REPORTS

## Menlo Park Haven Ave Residential EIR

Vistro File: H:\...\Haven Ave\_AM\_v3.vistro

Scenario 16 Existing AM

Report File: H:\...\Existing AM.pdf

7/10/2024

**Intersection Analysis Summary**

ID	Intersection Name	Control Type	Method	Worst Mvmt	V/C	Delay (s/veh)	LOS
1	Bayfront Expy/Marsh Rd	Signalized	HCM 7th Edition	NB Left	0.853	68.0	E

V/C, Delay, LOS: For two-way stop, these values are taken from the movement with the worst (highest) delay value. For all other control types, they are taken for the whole intersection.

**Intersection Level Of Service Report**  
**Intersection 1: Bayfront Expy/Marsh Rd**

Control Type:	Signalized	Delay (sec / veh):	68.0
Analysis Method:	HCM 7th Edition	Level Of Service:	E
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.853

**Intersection Setup**

Name	Bayfront Expressway			Haven Avenue			Marsh Road			Marsh Road		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration	⇐⇐⇐			⇐⇐			⇐⇐⇐⇐			⇐⇐		
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Entry Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Entry Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
No. of Lanes in Exit Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Exit Pocket Length [ft]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present	No			No			No			No		
Crosswalk	Yes			Yes			Yes			Yes		

**Volumes**

Name	Bayfront Expressway			Haven Avenue			Marsh Road			Marsh Road		
Base Volume Input [veh/h]	2195	252	28	3	95	246	150	37	1798	1	24	6
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	5.20	4.40	0.00	0.00	9.50	6.10	6.70	2.70	2.90	0.00	4.20	0.00
Proportion of CAVs [%]	0.00											
Growth Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right Turn on Red Volume [veh/h]	0	0	0	0	0	191	0	0	0	0	0	0
Total Hourly Volume [veh/h]	2195	252	28	3	95	55	150	37	1798	1	24	6
Peak Hour Factor	0.9400	0.9400	0.9400	0.9400	0.9400	0.9400	0.9400	0.9400	0.9400	0.9400	0.9400	0.9400
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	584	67	7	1	25	15	40	10	478	0	6	2
Total Analysis Volume [veh/h]	2335	268	30	3	101	59	160	39	1913	1	26	6
Presence of On-Street Parking	No		No	No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	6			0			6			0		
v_di, Inbound Pedestrian Volume crossing m	6			0			6			0		
v_co, Outbound Pedestrian Volume crossing	2			0			0			2		
v_ci, Inbound Pedestrian Volume crossing mi	2			0			0			2		
v_ab, Corner Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			8			1			1		

**Intersection Settings**

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	180
Active Pattern	Pattern 1
Coordination Type	Time of Day Pattern Coordinated
Actuation Type	Fully actuated
Offset [s]	81.0
Offset Reference	LagCoordGreen
Permissive Mode	SingleBand
Lost time [s]	12.00

**Phasing & Timing (Basic)**

Control Type	Split	Split	Split	Split	Split	Split	Split	Split	Overlap	Split	Split	Split
Signal Group	1	2	8	4	1	4	2	3	3	7	4	6
Auxiliary Signal Groups								3	2,3			
Maximum Green [s]	24	70	0	15	24	15	70	27	27	0	15	10
Amber [s]	3.7	5.2	0.0	3.7	3.7	3.7	5.2	4.1	4.1	0.0	3.7	3.6
All red [s]	0.0	1.0	0.0	0.5	0.0	0.5	1.0	1.0	1.0	0.0	0.5	0.5
Walk [s]	4	4	0	4	4	4	4	0	0	0	4	10
Pedestrian Clearance [s]	27	16	0	31	27	31	16	0	0	0	31	10
Delayed Vehicle Green [s]	3.0	3.0	0.0	3.0	3.0	3.0	3.0	0.0	0.0	0.0	3.0	0.0
Rest In Walk		No			No			No			No	
I1, Start-Up Lost Time [s]	2.0	2.0	0.0	2.0	2.0	2.0	2.0	2.0	2.0	0.0	2.0	2.0
I2, Clearance Lost Time [s]	1.7	0.5	0.0	0.1	1.7	0.1	0.5	0.5	0.5	0.0	0.1	2.1
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	20.0	20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

**Phasing & Timing: Pattern 1**

Split [s]	40	72	0	43	40	43	72	25	25	0	43	25
Lead / Lag	Lead	-	-	Lag	-	-	Lag	-	-	-	-	-
Minimum Green [s]	6	10	0	11	6	11	10	11	11	0	11	10
Vehicle Extension [s]	2.0	4.5	0.0	2.0	2.0	2.0	4.5	2.0	2.0	0.0	2.0	3.0
Minimum Recall		Yes			No			No	No		No	
Maximum Recall		No			No			No	No		No	
Pedestrian Recall		No			No			No	No		No	

**Exclusive Pedestrian Phase**

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0



**Lane Group Calculations**

Lane Group	L	C	C	C	R	C	R	C	C
C, Cycle Length [s]	180	180	180	180	180	180	180	180	180
L, Total Lost Time per Cycle [s]	2.50	2.50	3.70	3.70	3.70	2.50	2.50	2.10	2.10
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	0.50	0.50	1.70	1.70	1.70	0.50	0.00	0.10	0.10
g_i, Effective Green Time [s]	73	73	9	9	9	76	152	11	11
g / C, Green / Cycle	0.40	0.40	0.05	0.05	0.05	0.42	0.84	0.06	0.06
(v / s)_i Volume / Saturation Flow Rate	0.46	0.17	0.03	0.03	0.04	0.11	0.46	0.01	0.01
s, saturation flow rate [veh/h]	5055	1801	1752	1757	1464	1788	4131	1831	1708
c, Capacity [veh/h]	2045	729	87	88	73	759	3395	112	104
d1, Uniform Delay [s]	53.57	38.22	83.71	83.70	84.47	33.56	5.23	80.06	80.11
k, delay calibration	0.50	0.50	0.04	0.04	0.04	0.04	0.50	0.04	0.04
l, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	70.14	1.70	2.38	2.37	7.60	0.07	0.68	0.22	0.26
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

**Lane Group Results**

X, volume / capacity	1.14	0.41	0.59	0.59	0.81	0.26	0.56	0.15	0.16
d, Delay for Lane Group [s/veh]	123.71	39.91	86.09	86.07	92.07	33.63	5.91	80.28	80.37
Lane Group LOS	F	D	F	F	F	C	A	F	F
Critical Lane Group	Yes	No	No	No	Yes	No	Yes	No	Yes
50th-Percentile Queue Length [veh/ln]	44.09	9.95	2.45	2.45	2.89	5.81	7.25	0.74	0.74
50th-Percentile Queue Length [ft/ln]	1102.27	248.72	61.20	61.24	72.30	145.23	181.30	18.55	18.50
95th-Percentile Queue Length [veh/ln]	60.43	15.12	4.41	4.41	5.21	9.76	11.67	1.34	1.33
95th-Percentile Queue Length [ft/ln]	1510.70	378.04	110.15	110.23	130.13	244.05	291.71	33.39	33.30

**Movement, Approach, & Intersection Results**

d_M, Delay for Movement [s/veh]	123.71	39.91	39.91	86.09	86.08	92.07	33.63	33.63	5.91	80.28	80.32	80.37
Movement LOS	F	D	D	F	F	F	C	C	A	F	F	F
d_A, Approach Delay [s/veh]	114.23			88.25			8.52			80.32		
Approach LOS	F			F			A			F		
d_I, Intersection Delay [s/veh]	67.96											
Intersection LOS	E											
Intersection V/C	0.853											

**Emissions**

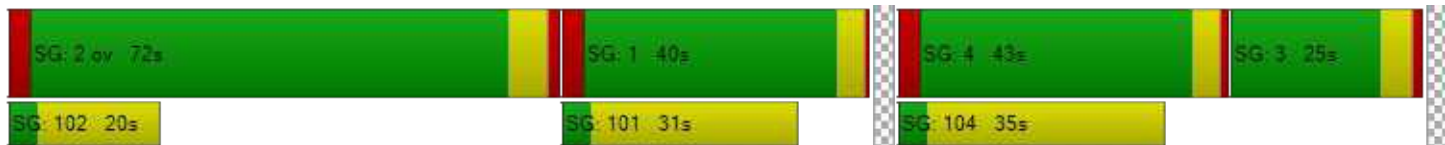
Vehicle Miles Traveled [mph]	661.01	84.36	5.90	5.90	6.70	8.34	80.13	0.54	0.54
Stops [stops/h]	2645.63	198.99	48.96	48.99	57.84	116.19	435.15	14.84	14.80
Fuel consumption [US gal/h]	100.60	6.99	1.42	1.42	1.70	2.35	8.00	0.37	0.37
CO [g/h]	7032.07	488.77	99.53	99.59	118.86	164.03	559.44	26.17	26.09
NOx [g/h]	1368.19	95.10	19.36	19.38	23.13	31.91	108.85	5.09	5.08
VOC [g/h]	1629.75	113.28	23.07	23.08	27.55	38.02	129.66	6.07	6.05

**Other Modes**

g_Walk,mi, Effective Walk Time [s]	19.9	8.0	8.0	8.0
M_corner, Corner Circulation Area [ft <sup>2</sup> /ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft <sup>2</sup> /ped]	0.00	0.00	0.00	1730.84
d_p, Pedestrian Delay [s]	71.19	82.17	82.17	82.17
I_p,int, Pedestrian LOS Score for Intersectio	3.270	2.629	3.286	2.008
Crosswalk LOS	C	B	C	B
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	698	370	221	398
d_b, Bicycle Delay [s]	38.15	60.01	71.23	57.78
I_b,int, Bicycle LOS Score for Intersection	5.904	1.852	5.044	1.587
Bicycle LOS	F	A	F	A

**Sequence**

Ring 1	2	1	4	3	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



## Menlo Park Haven Ave Residential EIR

Vistro File: H:\...\Haven Ave\_PM\_v3.vistro

Scenario 16 16 Existing PM

Report File: H:\...\Existing PM.pdf

7/9/2024

**Intersection Analysis Summary**

ID	Intersection Name	Control Type	Method	Worst Mvmt	V/C	Delay (s/veh)	LOS
1	Bayfront Expy/Marsh Rd	Signalized	HCM 7th Edition	SB Right	0.829	43.2	D

V/C, Delay, LOS: For two-way stop, these values are taken from the movement with the worst (highest) delay value. For all other control types, they are taken for the whole intersection.

**Intersection Level Of Service Report**  
**Intersection 1: Bayfront Expy/Marsh Rd**

Control Type:	Signalized	Delay (sec / veh):	43.2
Analysis Method:	HCM 7th Edition	Level Of Service:	D
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.829

**Intersection Setup**

Name	Bayfront Expressway			Haven Avenue			Marsh Road			Marsh Road		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration	⇐⇐⇐			⇐⇐			⇐⇐⇐⇐			⇐⇐		
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Entry Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Entry Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
No. of Lanes in Exit Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Exit Pocket Length [ft]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present	No			No			No			No		
Crosswalk	Yes			Yes			Yes			Yes		

**Volumes**

Name	Bayfront Expressway			Haven Avenue			Marsh Road			Marsh Road		
Base Volume Input [veh/h]	1607	69	8	3	226	239	225	17	1839	4	23	5
Base Volume Adjustment Factor	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Heavy Vehicles Percentage [%]	2.40	11.60	12.50	0.00	2.20	1.70	7.10	0.00	3.60	0.00	4.30	0.00
Proportion of CAVs [%]	0.00											
Growth Factor	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	1607	69	8	3	226	239	225	17	1839	4	23	5
Peak Hour Factor	0.960	0.960	0.960	0.960	0.960	0.960	0.960	0.960	0.960	0.960	0.960	0.960
Other Adjustment Factor	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Total 15-Minute Volume [veh/h]	418	18	2	1	59	62	59	4	479	1	6	1
Total Analysis Volume [veh/h]	1674	72	8	3	235	249	234	18	1916	4	24	5
Presence of On-Street Parking	No		No	No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing major street [ped/h]	7			0			7			0		
v_di, Inbound Pedestrian Volume crossing major street [ped/h]	7			0			7			0		
v_co, Outbound Pedestrian Volume crossing minor street [ped/h]	1			0			0			2		
v_ci, Inbound Pedestrian Volume crossing minor street [ped/h]	2			0			0			1		
v_ab, Corner Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	9			4			2			0		

**Intersection Settings**

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	200
Active Pattern	Pattern 1
Coordination Type	Time of Day Pattern Coordinated
Actuation Type	Fully actuated
Offset [s]	100.0
Offset Reference	LagCoordGreen
Permissive Mode	SingleBand
Lost time [s]	12.00

**Phasing & Timing (Basic)**

Control Type	Split	Split	Split	Split	Split	Split	Split	Split	Overlap	Split	Split	Split
Signal Group	1	2	8	4	1	4	2	3	3	6	4	6
Auxiliary Signal Groups									2,3			
Maximum Green [s]	24	70	0	15	24	15	70	27	27	10	15	10
Amber [s]	3.7	5.2	0.0	3.7	3.7	3.7	5.2	4.1	4.1	3.6	3.7	3.6
All red [s]	0.0	1.0	0.0	0.5	0.0	0.5	1.0	1.0	1.0	0.5	0.5	0.5
Walk [s]	4	4	0	4	4	4	4	0	0	10	4	10
Pedestrian Clearance [s]	27	16	0	31	27	31	16	0	0	10	31	10
Delayed Vehicle Green [s]	3.0	3.0	0.0	3.0	3.0	3.0	3.0	0.0	0.0	0.0	3.0	0.0
Rest In Walk		No			No			No			No	
I1, Start-Up Lost Time [s]	2.0	2.0	0.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
I2, Clearance Lost Time [s]	1.7	0.5	0.0	0.1	1.7	0.1	0.5	0.5	0.5	2.1	0.1	2.1
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	20.0	20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

**Phasing & Timing: Pattern 1**

Split [s]	39	82	0	43	39	43	82	36	36	25	43	25
Lead / Lag	Lead	-	-	Lag	-	-	Lag	-	-	Lag	-	-
Minimum Green [s]	6	10	0	11	6	11	10	11	11	10	11	10
Vehicle Extension [s]	2.0	4.5	0.0	2.0	2.0	2.0	4.5	2.0	2.0	3.0	2.0	3.0
Minimum Recall		Yes			No			No	No		No	
Maximum Recall		No			No			No	No		No	
Pedestrian Recall		No			No			No	No		No	

**Exclusive Pedestrian Phase**

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

**Lane Group Calculations**

Lane Group	L	C	C	C	R	C	R	C	C
C, Cycle Length [s]	200	200	200	200	200	200	200	200	200
L, Total Lost Time per Cycle [s]	2.50	2.50	3.70	3.70	3.70	2.50	2.50	2.10	2.10
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	0.50	0.50	1.70	1.70	1.70	0.50	0.00	0.10	0.10
g_i, Effective Green Time [s]	81	81	33	33	33	64	147	11	11
g / C, Green / Cycle	0.40	0.40	0.17	0.17	0.17	0.32	0.74	0.06	0.06
(v / s)_i Volume / Saturation Flow Rate	0.32	0.05	0.06	0.06	0.16	0.14	0.47	0.01	0.01
s, saturation flow rate [veh/h]	5171	1690	1865	1867	1566	1816	4110	1814	1742
c, Capacity [veh/h]	2083	680	308	309	259	583	2949	103	99
d1, Uniform Delay [s]	52.73	37.43	74.39	74.39	82.55	53.50	14.73	89.78	89.81
k, delay calibration	0.50	0.50	0.04	0.04	0.37	0.04	0.50	0.04	0.04
l, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	3.41	0.35	0.29	0.29	39.41	0.19	1.12	0.27	0.29
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

**Lane Group Results**

X, volume / capacity	0.80	0.12	0.39	0.39	0.96	0.43	0.65	0.16	0.17
d, Delay for Lane Group [s/veh]	56.14	37.79	74.69	74.68	121.95	53.69	15.86	90.05	90.10
Lane Group LOS	E	D	E	E	F	D	B	F	F
Critical Lane Group	Yes	No	No	No	Yes	No	Yes	No	Yes
50th-Percentile Queue Length [veh/ln]	25.63	2.61	5.55	5.55	15.66	10.23	15.43	0.83	0.83
50th-Percentile Queue Length [ft/ln]	640.82	65.21	138.71	138.84	391.61	255.72	385.81	20.83	20.79
95th-Percentile Queue Length [veh/ln]	33.94	4.70	9.41	9.42	22.16	15.47	21.87	1.50	1.50
95th-Percentile Queue Length [ft/ln]	848.40	117.38	235.29	235.46	553.88	386.84	546.87	37.50	37.43

**Movement, Approach, & Intersection Results**

d_M, Delay for Movement [s/veh]	56.14	37.79	37.79	74.69	74.68	121.95	53.69	53.69	15.86	90.05	90.07	90.10
Movement LOS	E	D	D	E	E	F	D	D	B	F	F	F
d_A, Approach Delay [s/veh]	55.30			98.85			20.25			90.07		
Approach LOS	E			F			C			F		
d_I, Intersection Delay [s/veh]	43.23											
Intersection LOS	D											
Intersection V/C	0.829											

**Emissions**

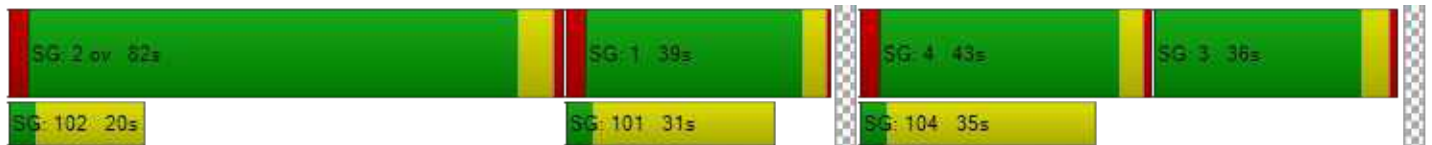
Vehicle Miles Traveled [mph]	273.04	13.05	13.49	13.51	28.25	12.52	95.18	0.58	0.57
Stops [stops/h]	1384.33	46.96	99.88	99.98	281.99	184.14	833.44	15.00	14.97
Fuel consumption [US gal/h]	38.01	1.41	2.91	2.92	8.90	4.29	14.71	0.41	0.41
CO [g/h]	2656.92	98.68	203.74	203.93	622.05	299.55	1027.89	28.61	28.55
NOx [g/h]	516.94	19.20	39.64	39.68	121.03	58.28	199.99	5.57	5.55
VOC [g/h]	615.77	22.87	47.22	47.26	144.17	69.42	238.22	6.63	6.62

**Other Modes**

g_Walk,mi, Effective Walk Time [s]	30.9	8.0	8.0	8.0
M_corner, Corner Circulation Area [ft <sup>2</sup> /ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft <sup>2</sup> /ped]	0.00	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	71.48	92.15	92.15	92.15
I_p,int, Pedestrian LOS Score for Intersectio	3.167	2.364	3.206	1.999
Crosswalk LOS	C	B	C	A
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	728	323	309	358
d_b, Bicycle Delay [s]	40.62	70.44	71.55	67.39
I_b,int, Bicycle LOS Score for Intersection	4.454	1.961	5.137	1.587
Bicycle LOS	E	A	F	A

**Sequence**

Ring 1	2	1	4	3	-	-	-	-	-	-	-	-	-	-	-
Ring 2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-





## APPENDIX C: NEAR-TERM (2027) CONDITIONS VISTRO REPORTS

## Menlo Park Haven Ave Residential EIR

Vistro File: H:\...\Haven Ave\_AM\_v3.vistro

Scenario 17 2027 AM

Report File: H:\...\2027 AM.pdf

7/10/2024

**Intersection Analysis Summary**

ID	Intersection Name	Control Type	Method	Worst Mvmt	V/C	Delay (s/veh)	LOS
1	Bayfront Expy/Marsh Rd	Signalized	HCM 7th Edition	SB Left	0.906	47.0	D

V/C, Delay, LOS: For two-way stop, these values are taken from the movement with the worst (highest) delay value. For all other control types, they are taken for the whole intersection.

**Intersection Level Of Service Report**  
**Intersection 1: Bayfront Expy/Marsh Rd**

Control Type:	Signalized	Delay (sec / veh):	47.0
Analysis Method:	HCM 7th Edition	Level Of Service:	D
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.906

**Intersection Setup**

Name	Bayfront Expressway			Haven Avenue			Marsh Road			Marsh Road		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration	TTT			TTT			TTT			TT		
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Entry Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Entry Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
No. of Lanes in Exit Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Exit Pocket Length [ft]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present	No			No			No			No		
Crosswalk	Yes			Yes			Yes			Yes		

**Volumes**

Name	Bayfront Expressway			Haven Avenue			Marsh Road			Marsh Road		
Base Volume Input [veh/h]	2389	499	29	3	295	246	150	37	1872	2	24	6
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	5.20	4.40	0.00	0.00	9.50	6.10	6.70	2.70	2.90	0.00	4.20	0.00
Proportion of CAVs [%]	0.00											
Growth Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right Turn on Red Volume [veh/h]	0	0	0	0	0	199	0	0	0	0	0	0
Total Hourly Volume [veh/h]	2389	499	29	3	295	47	150	37	1872	2	24	6
Peak Hour Factor	0.9400	0.9400	0.9400	0.9400	0.9400	0.9400	0.9400	0.9400	0.9400	0.9400	0.9400	0.9400
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	635	133	8	1	78	13	40	10	498	1	6	2
Total Analysis Volume [veh/h]	2541	531	31	3	314	50	160	39	1991	2	26	6
Presence of On-Street Parking	No		No	No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	6			0			6			0		
v_di, Inbound Pedestrian Volume crossing m	6			0			6			0		
v_co, Outbound Pedestrian Volume crossing	2			0			0			2		
v_ci, Inbound Pedestrian Volume crossing mi	2			0			0			2		
v_ab, Corner Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			8			1			1		

**Intersection Settings**

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	200
Active Pattern	Pattern 1
Coordination Type	Time of Day Pattern Coordinated
Actuation Type	Fully actuated
Offset [s]	81.0
Offset Reference	LagCoordGreen
Permissive Mode	SingleBand
Lost time [s]	12.00

**Phasing & Timing (Basic)**

Control Type	Split	Split	Split	Split	Split	Split	Split	Split	Overlap	Split	Split	Split
Signal Group	1	2	8	4	1	4	2	3	3	7	4	6
Auxiliary Signal Groups								3	2,3			
Maximum Green [s]	24	70	0	15	24	15	70	27	27	0	15	10
Amber [s]	3.7	5.2	0.0	3.7	3.7	3.7	5.2	4.1	4.1	0.0	3.7	3.6
All red [s]	0.0	1.0	0.0	0.5	0.0	0.5	1.0	1.0	1.0	0.0	0.5	0.5
Walk [s]	4	4	0	4	4	4	4	0	0	0	4	10
Pedestrian Clearance [s]	27	16	0	31	27	31	16	0	0	0	31	10
Delayed Vehicle Green [s]	3.0	3.0	0.0	3.0	3.0	3.0	3.0	0.0	0.0	0.0	3.0	0.0
Rest In Walk		No			No			No			No	
I1, Start-Up Lost Time [s]	2.0	2.0	0.0	2.0	2.0	2.0	2.0	2.0	2.0	0.0	2.0	2.0
I2, Clearance Lost Time [s]	1.7	0.5	0.0	0.1	1.7	0.1	0.5	0.5	0.5	0.0	0.1	2.1
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	20.0	20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

**Phasing & Timing: Pattern 1**

Split [s]	38	102	0	43	38	43	102	17	17	0	43	20
Lead / Lag	Lead	-	-	Lag	-	-	Lag	-	-	-	-	-
Minimum Green [s]	6	10	0	11	6	11	10	11	11	0	11	10
Vehicle Extension [s]	2.0	4.5	0.0	2.0	2.0	2.0	4.5	2.0	2.0	0.0	2.0	3.0
Minimum Recall		Yes			No			No	No		No	
Maximum Recall		No			No			No	No		No	
Pedestrian Recall		No			No			No	No		No	

**Exclusive Pedestrian Phase**

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

**Lane Group Calculations**

Lane Group	L	C	C	C	R	C	R	C	C
C, Cycle Length [s]	200	200	200	200	200	200	200	200	200
L, Total Lost Time per Cycle [s]	2.50	2.50	3.70	3.70	3.70	2.50	2.50	2.10	2.10
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	0.50	0.50	1.70	1.70	1.70	0.50	0.00	0.10	0.10
g_i, Effective Green Time [s]	100	100	20	20	20	58	160	11	11
g / C, Green / Cycle	0.50	0.50	0.10	0.10	0.10	0.29	0.80	0.06	0.06
(v / s)_i Volume / Saturation Flow Rate	0.50	0.31	0.09	0.09	0.03	0.11	0.48	0.01	0.01
s, saturation flow rate [veh/h]	5055	1816	1756	1757	1492	1788	4147	1826	1711
c, Capacity [veh/h]	2524	907	176	177	150	516	3242	105	98
d1, Uniform Delay [s]	50.02	36.26	88.87	88.86	83.56	56.86	9.03	89.64	89.69
k, delay calibration	0.50	0.50	0.04	0.04	0.04	0.04	0.50	0.04	0.04
l, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	19.53	3.18	6.48	6.43	0.48	0.18	0.88	0.27	0.31
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

**Lane Group Results**

X, volume / capacity	1.01	0.62	0.90	0.90	0.33	0.39	0.61	0.16	0.17
d, Delay for Lane Group [s/veh]	69.54	39.44	95.34	95.29	84.05	57.03	9.91	89.91	90.00
Lane Group LOS	F	D	F	F	F	E	A	F	F
Critical Lane Group	Yes	No	Yes	No	No	No	Yes	No	Yes
50th-Percentile Queue Length [veh/ln]	46.45	21.08	8.51	8.52	2.45	8.22	11.92	0.86	0.86
50th-Percentile Queue Length [ft/ln]	1161.35	527.12	212.85	212.91	61.30	205.54	297.88	21.46	21.40
95th-Percentile Queue Length [veh/ln]	57.96	28.62	13.30	13.30	4.41	12.92	17.58	1.55	1.54
95th-Percentile Queue Length [ft/ln]	1449.03	715.39	332.48	332.56	110.35	323.11	439.40	38.63	38.53

**Movement, Approach, & Intersection Results**

d_M, Delay for Movement [s/veh]	69.54	39.44	39.44	95.34	95.32	84.05	57.03	57.03	9.91	89.91	89.95	90.00
Movement LOS	F	D	D	F	F	F	E	E	A	F	F	F
d_A, Approach Delay [s/veh]	64.09			93.78			14.19			89.95		
Approach LOS	E			F			B			F		
d_I, Intersection Delay [s/veh]	46.97											
Intersection LOS	D											
Intersection V/C	0.906											

**Emissions**

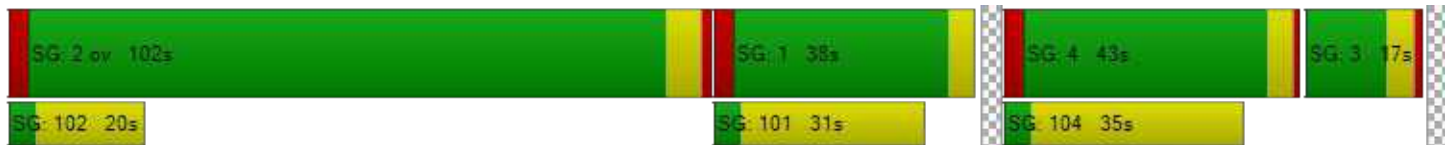
Vehicle Miles Traveled [mph]	719.33	159.10	17.99	18.00	5.68	8.34	83.39	0.56	0.56
Stops [stops/h]	2509.62	379.69	153.32	153.36	44.16	148.06	643.70	15.46	15.42
Fuel consumption [US gal/h]	79.43	13.16	4.66	4.66	1.33	3.47	11.00	0.42	0.42
CO [g/h]	5552.40	919.68	325.82	325.88	93.15	242.58	769.15	29.36	29.27
NOx [g/h]	1080.30	178.94	63.39	63.40	18.12	47.20	149.65	5.71	5.70
VOC [g/h]	1286.82	213.14	75.51	75.53	21.59	56.22	178.26	6.80	6.78

**Other Modes**

g_Walk,mi, Effective Walk Time [s]	11.9	8.0	8.0	8.0
M_corner, Corner Circulation Area [ft <sup>2</sup> /ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft <sup>2</sup> /ped]	326.90	0.00	0.00	1517.54
d_p, Pedestrian Delay [s]	88.41	92.12	92.12	92.12
I_p,int, Pedestrian LOS Score for Intersectio	3.384	2.761	3.330	2.014
Crosswalk LOS	C	C	C	B
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	928	313	119	358
d_b, Bicycle Delay [s]	28.70	71.39	88.45	67.40
I_b,int, Bicycle LOS Score for Intersection	6.680	2.027	5.173	1.588
Bicycle LOS	F	B	F	A

**Sequence**

Ring 1	2	1	4	3	-	-	-	-	-	-	-	-	-	-	-
Ring 2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



## Menlo Park Haven Ave Residential EIR

Vistro File: H:\...\Haven Ave\_PM\_v3.vistro

Scenario 17 2027 PM

Report File: H:\...\2027 PM.pdf

7/9/2024

**Intersection Analysis Summary**

<b>ID</b>	<b>Intersection Name</b>	<b>Control Type</b>	<b>Method</b>	<b>Worst Mvmt</b>	<b>V/C</b>	<b>Delay (s/veh)</b>	<b>LOS</b>
1	Bayfront Expy/Marsh Rd	Signalized	HCM 7th Edition	SB Left	0.906	53.1	D

V/C, Delay, LOS: For two-way stop, these values are taken from the movement with the worst (highest) delay value. For all other control types, they are taken for the whole intersection.



**Intersection Level Of Service Report**  
**Intersection 1: Bayfront Expy/Marsh Rd**

Control Type:	Signalized	Delay (sec / veh):	53.1
Analysis Method:	HCM 7th Edition	Level Of Service:	D
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.906

**Intersection Setup**

Name	Bayfront Expressway			Haven Avenue			Marsh Road			Marsh Road		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration	TTT			TTT			TTT			TT		
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Entry Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Entry Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
No. of Lanes in Exit Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Exit Pocket Length [ft]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present	No			No			No			No		
Crosswalk	Yes			Yes			Yes			Yes		

**Volumes**

Name	Bayfront Expressway			Haven Avenue			Marsh Road			Marsh Road		
	1958	392	8	3	467	239	225	17	2008	4	23	5
Base Volume Input [veh/h]	1958	392	8	3	467	239	225	17	2008	4	23	5
Base Volume Adjustment Factor	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Heavy Vehicles Percentage [%]	2.40	11.60	12.50	0.00	2.20	1.70	7.10	0.00	3.60	0.00	4.30	0.00
Proportion of CAVs [%]	0.00											
Growth Factor	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right Turn on Red Volume [veh/h]	0	0	0	0	0	187	0	0	0	0	0	0
Total Hourly Volume [veh/h]	1958	392	8	3	467	52	225	17	2008	4	23	5
Peak Hour Factor	0.960	0.960	0.960	0.960	0.960	0.960	0.960	0.960	0.960	0.960	0.960	0.960
Other Adjustment Factor	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Total 15-Minute Volume [veh/h]	510	102	2	1	122	14	59	4	523	1	6	1
Total Analysis Volume [veh/h]	2040	408	8	3	486	54	234	18	2092	4	24	5
Presence of On-Street Parking	No		No	No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing major street [ped/h]	7			0			7			0		
v_di, Inbound Pedestrian Volume crossing major street [ped/h]	7			0			7			0		
v_co, Outbound Pedestrian Volume crossing minor street [ped/h]	1			0			0			2		
v_ci, Inbound Pedestrian Volume crossing minor street [ped/h]	2			0			0			1		
v_ab, Corner Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	9			4			2			0		

**Intersection Settings**

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	200
Active Pattern	Pattern 1
Coordination Type	Time of Day Pattern Coordinated
Actuation Type	Fully actuated
Offset [s]	100.0
Offset Reference	LagCoordGreen
Permissive Mode	SingleBand
Lost time [s]	12.00

**Phasing & Timing (Basic)**

Control Type	Split	Split	Split	Split	Split	Split	Split	Split	Split	Overlap	Split	Split	Split
Signal Group	1	2	8	4	1	4	2	3	3	3	6	4	6
Auxiliary Signal Groups										2,3			
Maximum Green [s]	24	70	0	15	24	15	70	27	27	10	15	10	
Amber [s]	3.7	5.2	0.0	3.7	3.7	3.7	5.2	4.1	4.1	3.6	3.7	3.6	
All red [s]	0.0	1.0	0.0	0.5	0.0	0.5	1.0	1.0	1.0	0.5	0.5	0.5	
Walk [s]	4	4	0	4	4	4	4	0	0	10	4	10	
Pedestrian Clearance [s]	27	16	0	31	27	31	16	0	0	10	31	10	
Delayed Vehicle Green [s]	3.0	3.0	0.0	3.0	3.0	3.0	3.0	0.0	0.0	0.0	3.0	0.0	
Rest In Walk		No			No			No			No		
I1, Start-Up Lost Time [s]	2.0	2.0	0.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	
I2, Clearance Lost Time [s]	1.7	0.5	0.0	0.1	1.7	0.1	0.5	0.5	0.5	2.1	0.1	2.1	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Detector Length [ft]	20.0	20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	

**Phasing & Timing: Pattern 1**

Split [s]	39	82	0	43	39	43	82	36	36	25	43	25
Lead / Lag	Lead	-	-	Lag	-	-	Lag	-	-	Lag	-	-
Minimum Green [s]	6	10	0	11	6	11	10	11	11	10	11	10
Vehicle Extension [s]	2.0	4.5	0.0	2.0	2.0	2.0	4.5	2.0	2.0	3.0	2.0	3.0
Minimum Recall		Yes			No			No	No		No	
Maximum Recall		No			No			No	No		No	
Pedestrian Recall		No			No			No	No		No	

**Exclusive Pedestrian Phase**

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

**Lane Group Calculations**

Lane Group	L	C	C	C	R	C	R	C	C
C, Cycle Length [s]	200	200	200	200	200	200	200	200	200
L, Total Lost Time per Cycle [s]	2.50	2.50	3.70	3.70	3.70	2.50	2.50	2.10	2.10
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	0.50	0.50	1.70	1.70	1.70	0.50	0.00	0.10	0.10
g_i, Effective Green Time [s]	79	79	28	28	28	70	152	11	11
g / C, Green / Cycle	0.40	0.40	0.14	0.14	0.14	0.35	0.76	0.06	0.06
(v / s)_i Volume / Saturation Flow Rate	0.39	0.24	0.13	0.13	0.03	0.14	0.51	0.01	0.01
s, saturation flow rate [veh/h]	5171	1719	1866	1867	1564	1816	4108	1814	1742
c, Capacity [veh/h]	2051	682	263	263	220	638	3047	103	99
d1, Uniform Delay [s]	60.07	47.99	84.85	84.85	76.32	48.77	13.33	89.71	89.74
k, delay calibration	0.50	0.50	0.23	0.23	0.04	0.04	0.50	0.04	0.04
l, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	18.64	4.04	23.84	23.81	0.21	0.15	1.28	0.27	0.29
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

**Lane Group Results**

X, volume / capacity	0.99	0.61	0.93	0.93	0.24	0.39	0.69	0.16	0.17
d, Delay for Lane Group [s/veh]	78.71	52.03	108.70	108.66	76.54	48.92	14.62	89.98	90.03
Lane Group LOS	E	D	F	F	E	D	B	F	F
Critical Lane Group	Yes	No	Yes	No	No	No	Yes	No	Yes
50th-Percentile Queue Length [veh/ln]	37.91	17.56	14.35	14.35	2.52	9.73	16.38	0.83	0.83
50th-Percentile Queue Length [ft/ln]	947.69	439.03	358.64	358.76	62.94	243.14	409.58	20.83	20.78
95th-Percentile Queue Length [veh/ln]	48.01	24.43	20.56	20.56	4.53	14.84	23.02	1.50	1.50
95th-Percentile Queue Length [ft/ln]	1200.13	610.85	513.93	514.07	113.29	371.00	575.54	37.49	37.41

**Movement, Approach, & Intersection Results**

d_M, Delay for Movement [s/veh]	78.71	52.03	52.03	108.70	108.68	76.54	48.92	48.92	14.62	89.98	90.00	90.03
Movement LOS	E	D	D	F	F	E	D	D	B	F	F	F
d_A, Approach Delay [s/veh]	74.19			105.48			18.30			90.00		
Approach LOS	E			F			B			F		
d_I, Intersection Delay [s/veh]	53.08											
Intersection LOS	D											
Intersection V/C	0.906											

**Emissions**

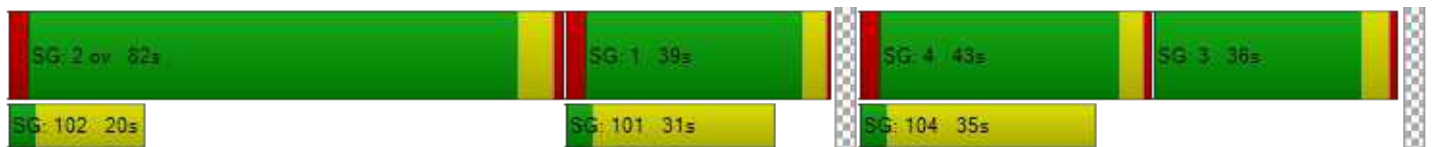
Vehicle Miles Traveled [mph]	332.74	67.85	27.73	27.74	6.13	12.52	103.92	0.58	0.57
Stops [stops/h]	2047.91	316.24	258.34	258.42	45.34	175.14	885.09	15.00	14.97
Fuel consumption [US gal/h]	57.68	8.94	7.97	7.98	1.34	3.99	15.39	0.41	0.41
CO [g/h]	4031.88	625.20	557.43	557.57	93.92	278.99	1075.78	28.59	28.53
NOx [g/h]	784.46	121.64	108.46	108.48	18.27	54.28	209.31	5.56	5.55
VOC [g/h]	934.43	144.90	129.19	129.22	21.77	64.66	249.32	6.63	6.61

**Other Modes**

g_Walk,mi, Effective Walk Time [s]	30.9	8.0	8.0	8.0
M_corner, Corner Circulation Area [ft <sup>2</sup> /ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft <sup>2</sup> /ped]	0.00	0.00	0.00	2335.99
d_p, Pedestrian Delay [s]	71.44	92.12	92.12	92.12
I_p,int, Pedestrian LOS Score for Intersectio	3.324	2.771	3.280	1.999
Crosswalk LOS	C	C	C	A
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	728	323	309	358
d_b, Bicycle Delay [s]	40.59	70.41	71.52	67.36
I_b,int, Bicycle LOS Score for Intersection	5.612	2.162	5.427	1.587
Bicycle LOS	F	B	F	A

**Sequence**

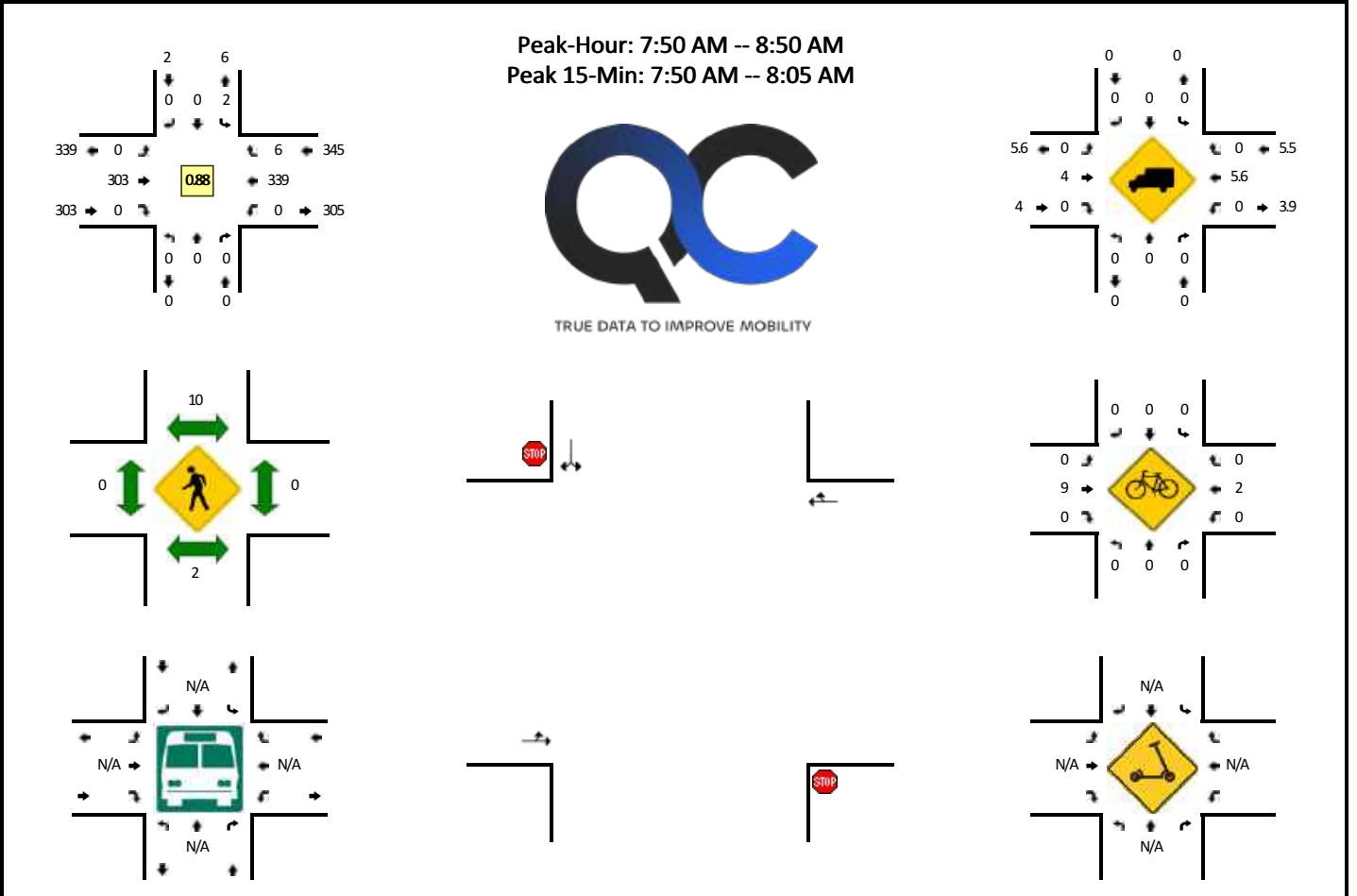
Ring 1	2	1	4	3	-	-	-	-	-	-	-	-	-	-	-
Ring 2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



## APPENDIX D: TRAFFIC COUNTS

**LOCATION:** North Entr. Dwy -- Haven Ave  
**CITY/STATE:** Menlo Park, CA

**QC JOB #:** 16502201  
**DATE:** Tue, Mar 5 2024

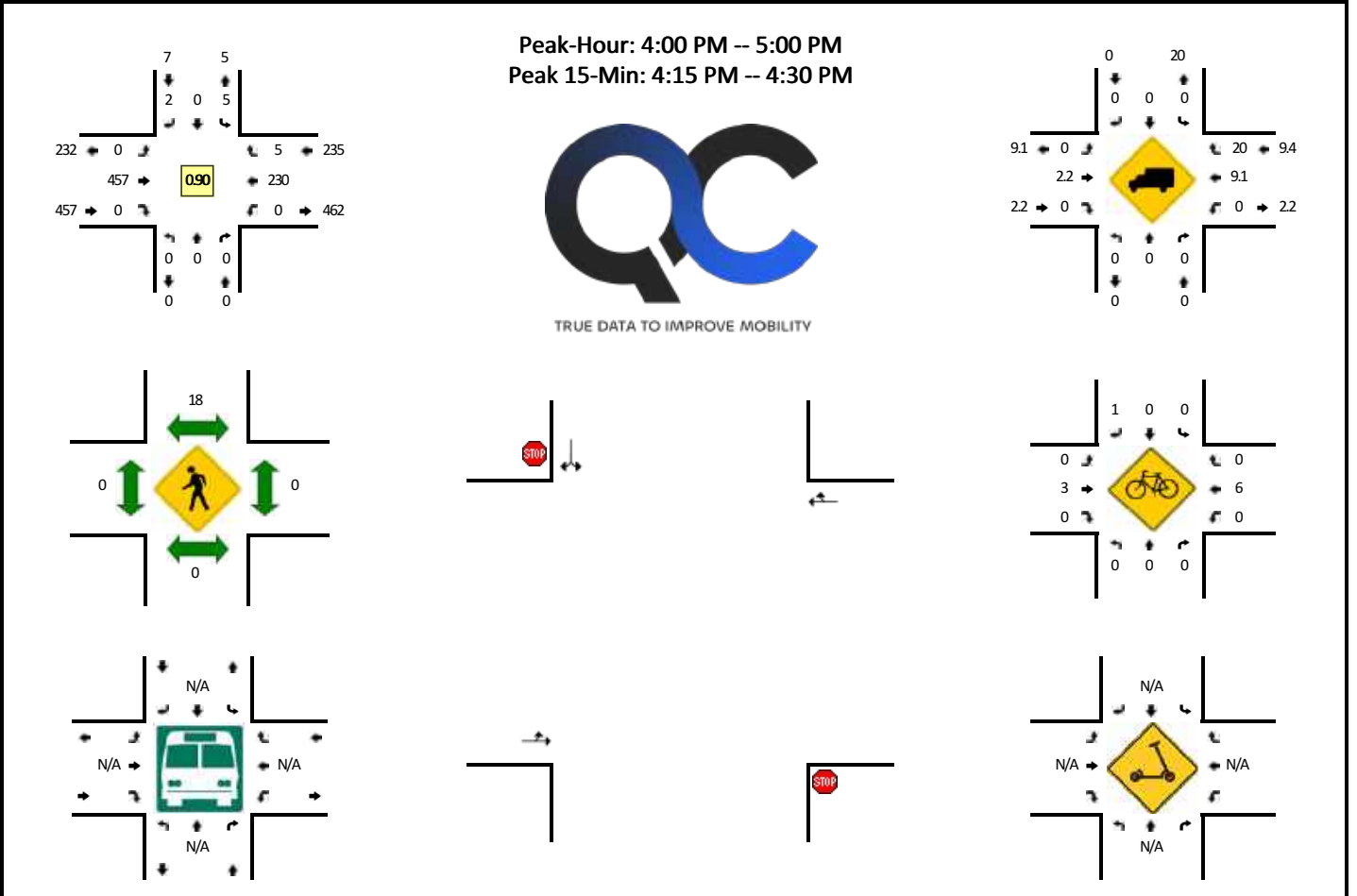


5-Min Count Period Beginning At	North Entr. Dwy (Northbound)				North Entr. Dwy (Southbound)				Haven Ave (Eastbound)				Haven Ave (Westbound)				Total	Hourly Totals
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U		
7:00 AM	0	0	0	0	1	0	0	0	0	21	0	0	0	16	1	0	39	
7:05 AM	0	0	0	0	0	0	0	0	0	18	0	0	0	17	1	0	36	
7:10 AM	0	0	0	0	0	0	0	0	0	18	0	0	0	24	1	0	43	
7:15 AM	0	0	0	0	0	0	1	0	0	12	0	0	0	13	1	0	27	
7:20 AM	0	0	0	0	2	0	0	0	0	15	0	0	0	31	0	0	48	
7:25 AM	0	0	0	0	2	0	0	0	0	21	0	0	0	24	3	0	50	
7:30 AM	0	0	0	0	2	0	0	0	0	28	0	0	0	16	0	0	46	
7:35 AM	0	0	0	0	1	0	0	0	0	30	0	0	0	12	0	0	43	
7:40 AM	0	0	0	0	0	0	0	0	0	26	0	0	0	20	0	0	46	
7:45 AM	0	0	0	0	1	0	0	0	0	32	0	0	0	14	1	0	48	
7:50 AM	0	0	0	0	0	0	0	0	0	28	0	0	0	34	2	0	64	
7:55 AM	0	0	0	0	1	0	0	0	0	29	0	0	0	31	1	0	62	552
8:00 AM	0	0	0	0	0	0	0	0	0	31	0	0	0	27	0	0	58	571
8:05 AM	0	0	0	0	0	0	0	0	0	21	0	0	0	22	0	0	43	578
8:10 AM	0	0	0	0	1	0	0	0	0	25	0	0	0	28	1	0	55	590
8:15 AM	0	0	0	0	0	0	0	0	0	18	0	0	0	18	0	0	36	599
8:20 AM	0	0	0	0	0	0	0	0	0	28	0	0	0	19	0	0	47	598
8:25 AM	0	0	0	0	0	0	0	0	0	16	0	0	0	42	0	0	58	606
8:30 AM	0	0	0	0	0	0	0	0	0	26	0	0	0	17	0	0	43	603
8:35 AM	0	0	0	0	0	0	0	0	0	32	0	0	0	38	1	0	71	631
8:40 AM	0	0	0	0	0	0	0	0	0	23	0	0	0	36	1	0	60	645
8:45 AM	0	0	0	0	0	0	0	0	0	26	0	0	0	27	0	0	53	650
8:50 AM	0	0	0	0	0	0	0	0	0	19	0	0	0	31	2	0	52	638
8:55 AM	0	0	0	0	1	0	1	0	0	25	0	0	0	40	0	0	67	643
Peak 15-Min Flowrates	Northbound				Southbound				Eastbound				Westbound				Total	
All Vehicles	0	0	0	0	4	0	0	0	0	352	0	0	0	368	12	0	736	
Heavy Trucks	0	0	0	0	0	0	0	0	0	24	0	0	0	24	0	0	48	
Buses																		
Pedestrians		0				16				0				0			16	
Bicycles	0	0	0		0	0	0		0	12	0		0	0	0		12	
Scooters																		

*Comments:*

**LOCATION:** North Entr. Dwy -- Haven Ave  
**CITY/STATE:** Menlo Park, CA

**QC JOB #:** 16502202  
**DATE:** Tue, Mar 5 2024



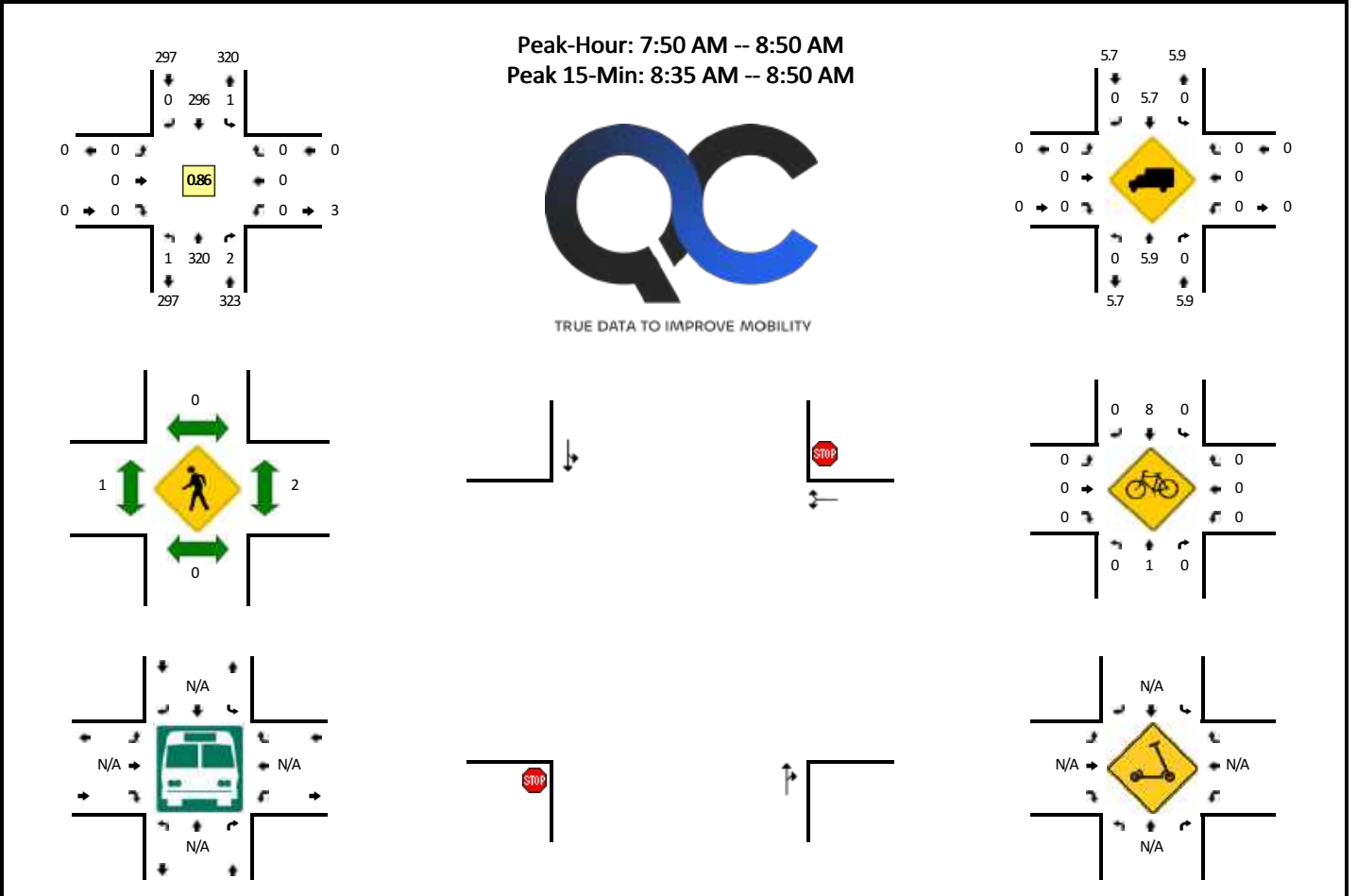
5-Min Count Period Beginning At	North Entr. Dwy (Northbound)				North Entr. Dwy (Southbound)				Haven Ave (Eastbound)				Haven Ave (Westbound)				Total	Hourly Totals	
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U			
4:00 PM	0	0	0	0	0	0	0	0	0	0	38	0	0	0	16	0	0	54	
4:05 PM	0	0	0	0	0	0	0	0	0	0	36	0	0	0	21	0	0	57	
4:10 PM	0	0	0	0	1	0	0	0	0	0	39	0	0	0	10	1	0	51	
4:15 PM	0	0	0	0	0	0	0	0	0	0	43	0	0	0	27	2	0	72	
4:20 PM	0	0	0	0	0	0	0	0	0	0	42	0	0	0	16	0	0	58	
4:25 PM	0	0	0	0	0	0	0	0	0	0	33	0	0	0	30	1	0	64	
4:30 PM	0	0	0	0	1	0	0	0	0	0	36	0	0	0	17	1	0	55	
4:35 PM	0	0	0	0	1	0	0	0	0	0	46	0	0	0	23	0	0	70	
4:40 PM	0	0	0	0	1	0	0	0	0	0	31	0	0	0	17	0	0	49	
4:45 PM	0	0	0	0	1	0	1	0	0	0	44	0	0	0	18	0	0	64	
4:50 PM	0	0	0	0	0	0	0	0	0	0	36	0	0	0	10	0	0	46	
4:55 PM	0	0	0	0	0	0	1	0	0	0	33	0	0	0	25	0	0	59	699
5:00 PM	0	0	0	0	1	0	0	0	0	0	40	0	0	0	13	0	0	54	699
5:05 PM	0	0	0	0	0	0	0	0	0	0	23	0	0	0	26	1	0	50	692
5:10 PM	0	0	0	0	2	0	0	0	0	0	31	0	0	0	18	0	0	51	692
5:15 PM	0	0	0	0	0	0	0	0	0	0	30	0	0	0	39	0	0	69	689
5:20 PM	0	0	0	0	0	0	0	0	0	0	27	0	0	0	20	0	0	47	678
5:25 PM	0	0	0	0	0	0	0	0	0	0	39	0	0	0	29	1	0	69	683
5:30 PM	0	0	0	0	0	0	0	0	0	0	39	0	0	0	17	0	0	56	684
5:35 PM	0	0	0	0	0	0	0	0	0	0	35	0	0	0	32	0	0	67	681
5:40 PM	0	0	0	0	0	0	0	0	0	0	24	0	0	0	17	0	0	41	673
5:45 PM	0	0	0	0	0	0	0	0	0	0	35	0	0	0	24	1	0	60	669
5:50 PM	0	0	0	0	1	0	0	0	0	0	25	0	0	0	18	2	0	46	669
5:55 PM	0	0	0	0	1	0	0	0	0	0	25	0	0	0	31	0	0	57	667
Peak 15-Min Flowrates	Northbound				Southbound				Eastbound				Westbound				Total		
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U			
All Vehicles	0	0	0	0	0	0	0	0	0	0	472	0	0	0	292	12	0	776	
Heavy Trucks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	4	0	24	
Buses																			
Pedestrians		0				28					0				0			28	
Bicycles		0				0	4				4	0			4	0		12	
Scooters																			

Comments:



**LOCATION:** Haven Ave -- South Entr. Dwy  
**CITY/STATE:** Menlo Park, CA

**QC JOB #:** 16502203  
**DATE:** Tue, Mar 5 2024

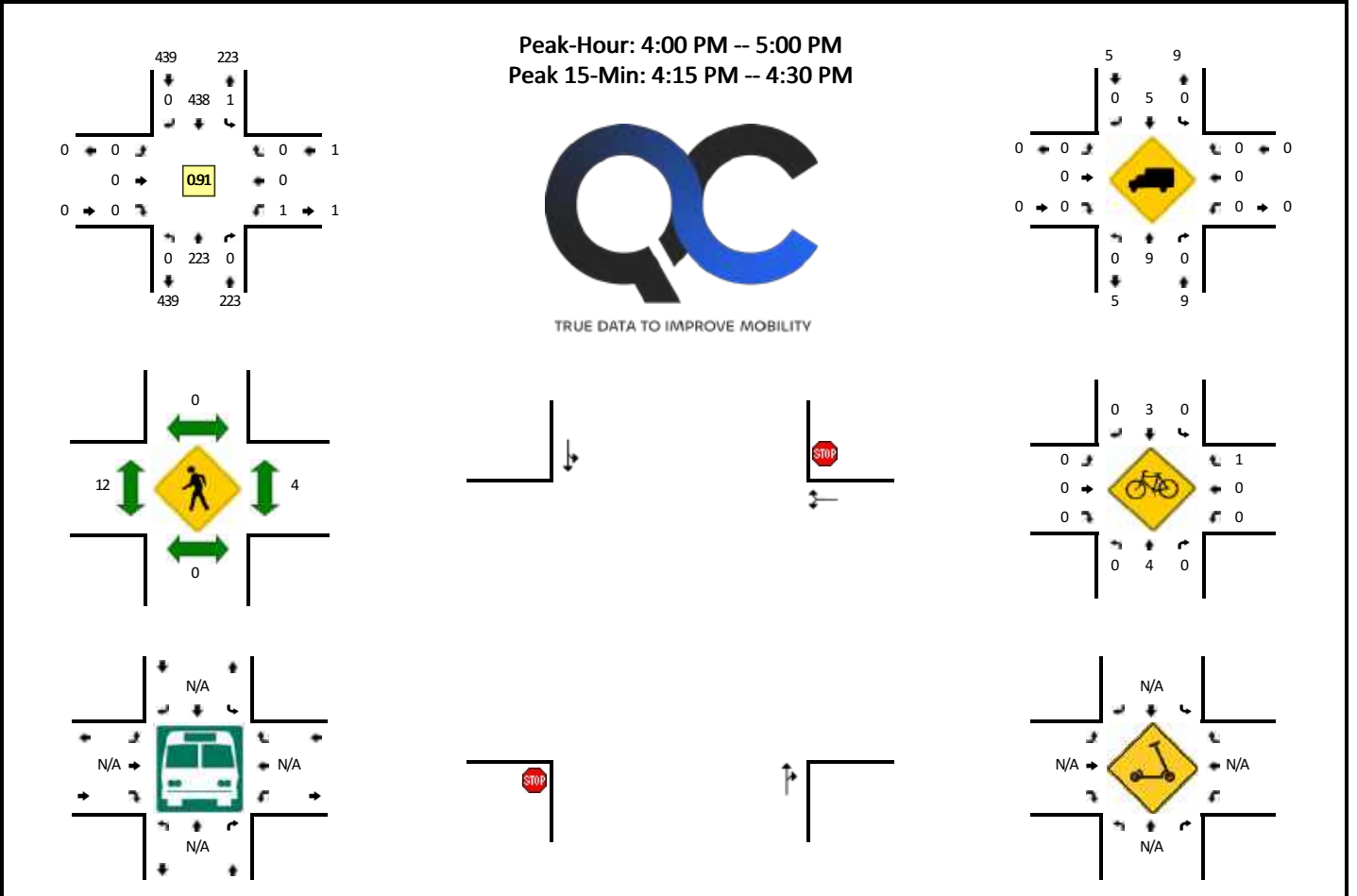


5-Min Count Period Beginning At	Haven Ave (Northbound)				Haven Ave (Southbound)				South Entr. Dwy (Eastbound)				South Entr. Dwy (Westbound)				Total	Hourly Totals
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U		
7:00 AM	0	19	0	0	0	17	0	0	0	0	0	0	0	0	0	0	36	
7:05 AM	0	14	0	0	0	18	0	0	0	0	0	0	0	0	0	0	32	
7:10 AM	0	16	0	0	0	19	0	0	0	0	0	0	0	0	0	0	35	
7:15 AM	0	13	1	0	0	15	0	0	0	0	0	0	0	0	0	0	29	
7:20 AM	0	31	1	0	0	13	0	0	0	0	0	0	0	0	0	0	45	
7:25 AM	0	22	0	0	1	20	0	0	0	0	0	0	0	0	0	0	43	
7:30 AM	0	11	0	0	0	26	0	0	0	0	0	0	0	0	0	0	37	
7:35 AM	0	13	0	0	0	32	0	0	0	0	0	0	0	0	0	0	45	
7:40 AM	0	17	0	0	1	24	0	0	0	0	0	0	0	0	0	0	42	
7:45 AM	0	12	0	0	0	33	0	0	0	0	0	0	0	0	0	0	45	
7:50 AM	0	34	0	0	0	28	0	0	0	0	0	0	0	0	0	0	62	
7:55 AM	0	27	1	0	1	28	0	0	0	0	0	0	0	0	0	0	57	508
8:00 AM	0	21	0	0	0	31	0	0	0	0	0	0	0	0	0	0	52	524
8:05 AM	0	26	0	0	0	18	0	0	0	0	0	0	0	0	0	0	44	536
8:10 AM	0	26	0	0	0	25	0	0	0	0	0	0	0	0	0	0	51	552
8:15 AM	0	16	0	0	0	19	0	0	0	0	0	0	0	0	0	0	35	558
8:20 AM	0	20	0	0	0	24	0	0	0	0	0	0	0	0	0	0	44	557
8:25 AM	0	37	0	0	0	18	0	0	0	0	0	0	0	0	0	0	55	569
8:30 AM	0	17	1	0	0	22	0	0	0	0	0	0	0	0	0	0	40	572
8:35 AM	0	40	0	0	0	35	0	0	0	0	0	0	0	0	0	0	75	602
8:40 AM	0	31	0	1	0	22	0	0	0	0	0	0	0	0	0	0	54	614
8:45 AM	0	25	0	0	0	26	0	0	0	0	0	0	0	0	0	0	51	620
8:50 AM	0	31	0	0	0	18	0	0	0	0	0	0	0	0	1	0	50	608
8:55 AM	0	38	1	0	0	25	0	0	0	0	0	0	0	0	0	0	64	615
Peak 15-Min Flowrates	Northbound				Southbound				Eastbound				Westbound				Total	
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U		
All Vehicles	0	384	0	4	0	332	0	0	0	0	0	0	0	0	0	0	720	
Heavy Trucks	0	20	0		0	32	0		0	0	0		0	0	0		52	
Buses																		
Pedestrians	0	0			0	0			4				4				8	
Bicycles	0	0	0		0	4	0		0	0	0		0	0	0		4	
Scooters																		

Comments:

**LOCATION:** Haven Ave -- South Entr. Dwy  
**CITY/STATE:** Menlo Park, CA

**QC JOB #:** 16502204  
**DATE:** Tue, Mar 5 2024

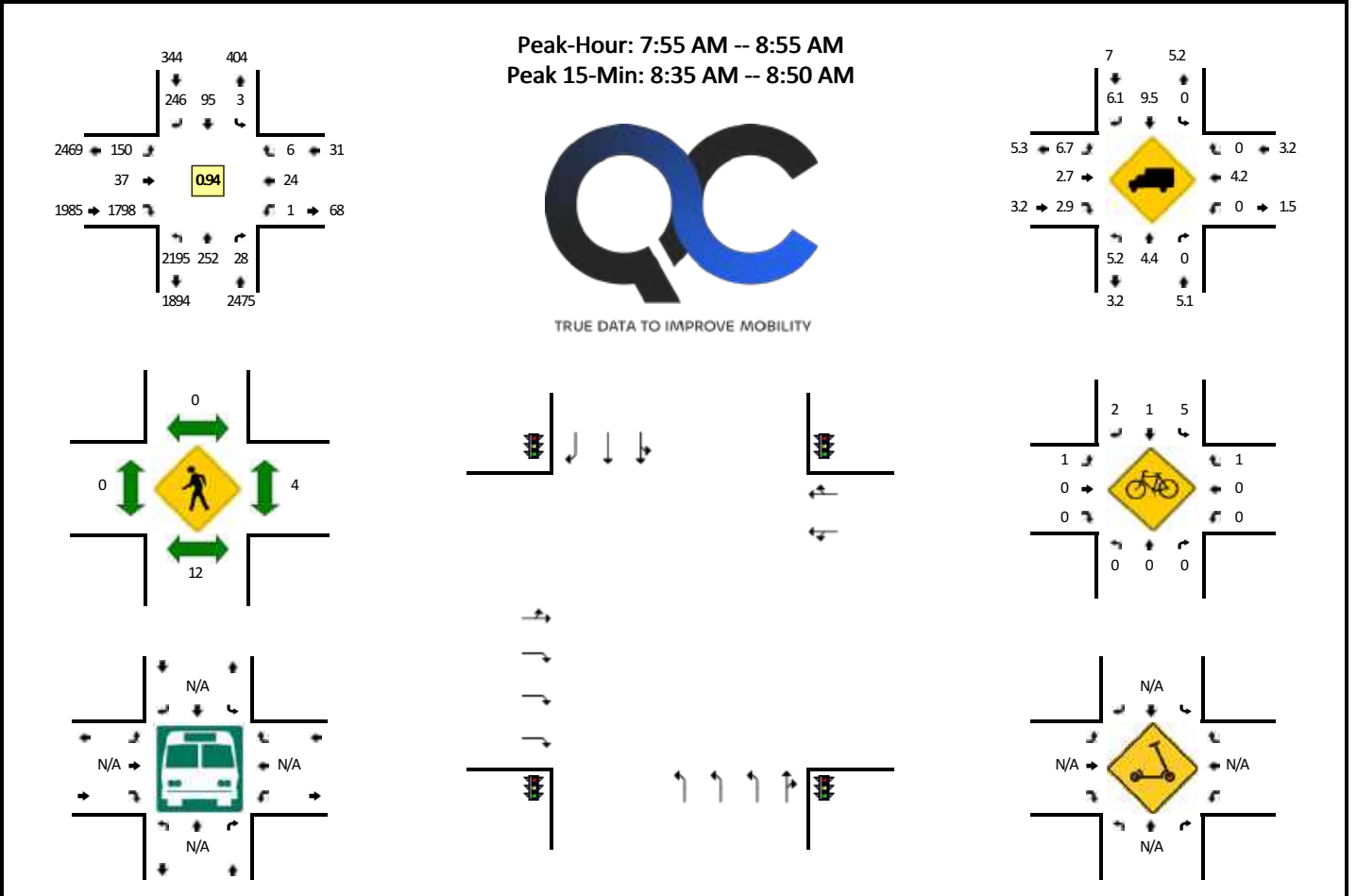


5-Min Count Period Beginning At	Haven Ave (Northbound)				Haven Ave (Southbound)				South Entr. Dwy (Eastbound)				South Entr. Dwy (Westbound)				Total	Hourly Totals
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U		
4:00 PM	0	15	0	0	0	36	0	0	0	0	0	0	0	0	0	0	51	
4:05 PM	0	21	0	0	0	38	0	0	0	0	0	0	0	0	0	0	59	
4:10 PM	0	10	0	0	0	32	0	0	0	0	0	0	0	0	0	0	42	
4:15 PM	0	28	0	0	0	45	0	0	0	0	0	0	0	0	0	0	73	
4:20 PM	0	14	0	0	0	41	0	0	0	0	0	0	0	0	0	0	55	
4:25 PM	0	26	0	0	0	29	0	0	0	0	0	0	0	0	0	0	55	
4:30 PM	0	20	0	0	0	38	0	0	0	0	0	0	0	0	0	0	58	
4:35 PM	0	23	0	0	0	45	0	0	0	0	0	0	0	0	0	0	68	
4:40 PM	0	12	0	0	1	28	0	0	0	0	0	0	0	0	0	0	41	
4:45 PM	0	21	0	0	0	42	0	0	0	0	0	0	0	0	0	0	63	
4:50 PM	0	10	0	0	0	33	0	0	0	0	0	0	0	1	0	0	44	
4:55 PM	0	23	0	0	0	31	0	0	0	0	0	0	0	0	0	0	54	663
5:00 PM	0	12	0	0	0	38	0	0	0	0	0	0	0	0	0	0	50	662
5:05 PM	0	27	0	0	0	20	0	0	0	0	0	0	0	0	0	0	47	650
5:10 PM	0	17	0	0	0	32	0	0	0	0	0	0	0	0	0	0	49	657
5:15 PM	0	35	0	0	0	25	0	0	0	0	0	0	0	0	0	0	60	644
5:20 PM	0	18	0	0	0	27	0	0	0	0	0	0	0	0	0	0	45	634
5:25 PM	0	28	0	0	0	36	0	0	0	0	0	0	0	0	0	0	64	643
5:30 PM	0	18	0	0	0	39	0	0	0	0	0	0	0	0	0	0	57	642
5:35 PM	0	26	0	0	0	32	0	0	0	0	0	0	0	0	0	0	58	632
5:40 PM	0	20	0	0	0	23	0	0	0	0	0	0	0	0	0	0	43	634
5:45 PM	0	22	0	0	0	33	0	0	0	0	0	0	0	0	0	0	55	626
5:50 PM	0	18	0	0	0	25	0	0	0	0	0	0	0	0	0	0	43	625
5:55 PM	0	31	0	0	0	23	0	0	0	0	0	0	0	0	0	0	54	625
Peak 15-Min Flowrates	Northbound				Southbound				Eastbound				Westbound				Total	
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U		
All Vehicles	0	272	0	0	0	460	0	0	0	0	0	0	0	0	0	0	732	
Heavy Trucks	0	16	0	0	0	12	0	0	0	0	0	0	0	0	0	0	28	
Buses																		
Pedestrians	0				0				0				4				4	
Bicycles	0	4	0		0	0	0		0	0	0		0	0	0		4	
Scoters																		

Comments:

**LOCATION:** Haven Ave -- Marsh Rd  
**CITY/STATE:** Menlo Park, CA

**QC JOB #:** 16502205  
**DATE:** Tue, Mar 5 2024

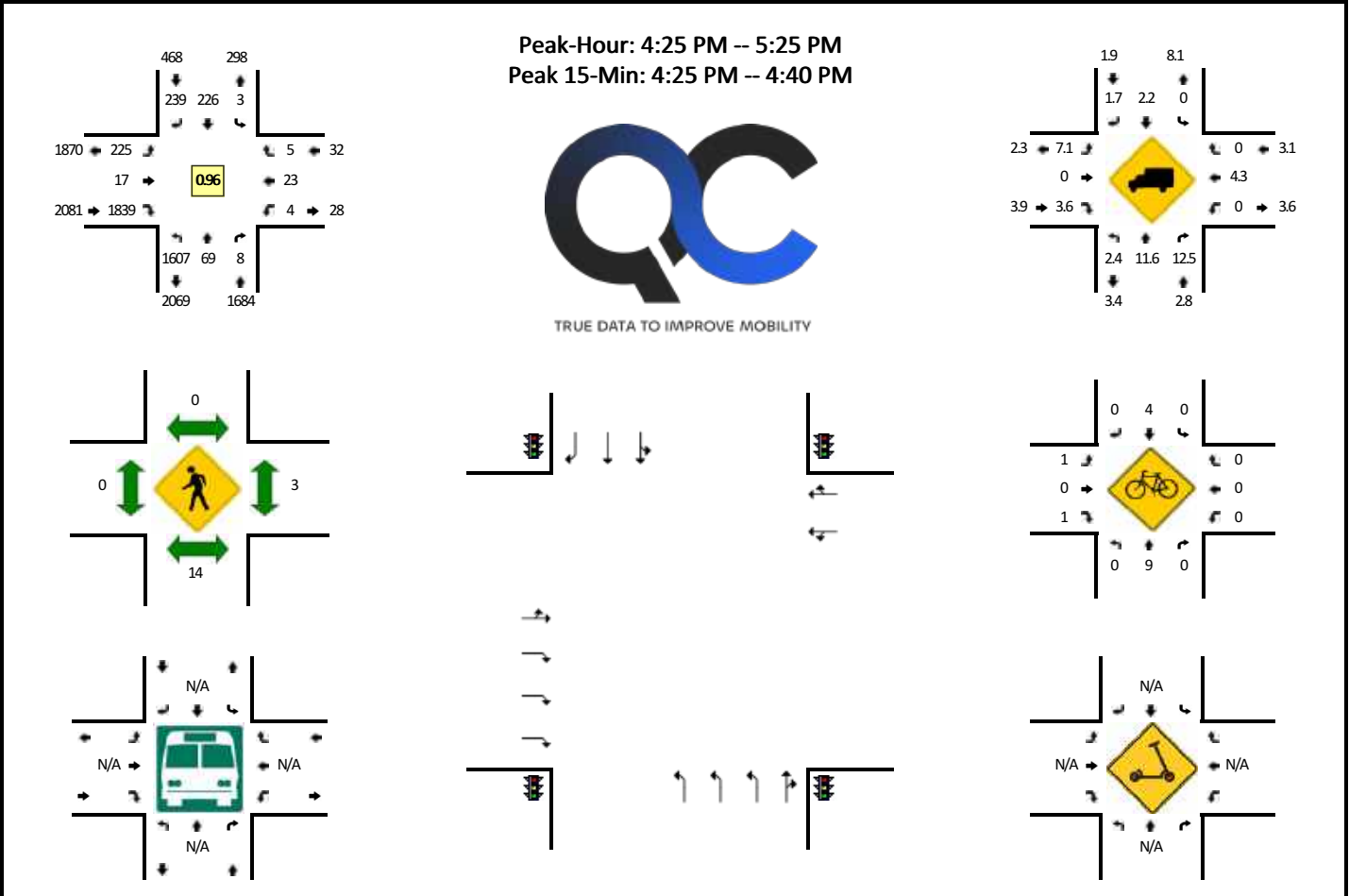


5-Min Count Period Beginning At	Haven Ave (Northbound)				Haven Ave (Southbound)				Marsh Rd (Eastbound)				Marsh Rd (Westbound)				Total	Hourly Totals
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U		
7:00 AM	108	6	0	0	0	5	17	0	16	1	56	0	0	1	0	0	210	
7:05 AM	130	8	0	0	0	6	18	0	10	0	74	0	0	1	0	0	247	
7:10 AM	184	14	2	0	0	0	13	0	14	1	68	0	1	3	0	0	300	
7:15 AM	102	10	1	0	0	6	12	0	17	2	94	0	0	0	0	0	244	
7:20 AM	185	15	2	0	0	6	13	0	5	1	66	0	0	0	0	0	293	
7:25 AM	167	9	1	0	0	2	19	0	21	3	105	0	1	2	1	0	331	
7:30 AM	112	11	1	0	0	2	23	0	18	0	88	0	0	0	0	0	255	
7:35 AM	147	5	1	0	0	9	32	0	8	2	96	0	0	2	0	0	302	
7:40 AM	266	20	1	0	0	5	21	0	1	0	109	0	0	0	0	0	423	
7:45 AM	115	11	1	0	0	9	33	0	13	2	110	0	0	1	0	0	295	
7:50 AM	176	16	2	0	0	6	25	0	12	2	124	0	0	1	0	0	364	
7:55 AM	234	29	1	0	0	5	17	0	7	0	133	1	0	0	1	0	428	3692
8:00 AM	204	22	4	0	0	8	30	0	13	0	132	0	0	2	1	0	416	3898
8:05 AM	175	13	2	0	0	10	19	0	13	3	131	0	0	2	1	0	369	4020
8:10 AM	227	23	3	0	0	3	25	0	9	1	135	0	0	1	0	0	427	4147
8:15 AM	104	13	2	0	0	9	18	0	14	4	143	0	0	2	0	0	309	4212
8:20 AM	222	15	4	0	0	8	20	0	3	3	139	2	0	1	0	0	417	4336
8:25 AM	193	26	2	0	0	6	14	0	21	5	177	0	1	3	0	0	448	4453
8:30 AM	114	14	1	0	0	5	29	0	16	3	157	1	0	0	0	0	340	4538
8:35 AM	166	25	1	0	1	12	25	0	15	9	165	0	0	2	1	0	422	4658
8:40 AM	227	33	2	0	0	13	15	0	7	3	176	0	0	4	0	0	480	4715
8:45 AM	139	20	2	0	1	8	16	0	22	3	169	0	0	5	1	0	386	4806
8:50 AM	190	19	4	0	1	8	18	0	6	3	141	0	0	2	1	0	393	4835
8:55 AM	160	19	1	0	0	7	7	0	25	0	194	0	0	0	0	0	413	4820
Peak 15-Min Flowrates	Northbound				Southbound				Eastbound				Westbound				Total	
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U		
All Vehicles	2128	312	20	0	8	132	224	0	176	60	2040	0	0	44	8	0	5152	
Heavy Trucks	96	16	0		0	12	8		4	0	60		0	0	0		196	
Buses		12				0				0				4			16	
Pedestrians	0	0	0		4	0	0		0	0	0		0	0	4		8	
Bicycles																		
Scooters																		

Comments:

**LOCATION:** Haven Ave -- Marsh Rd  
**CITY/STATE:** Menlo Park, CA

**QC JOB #:** 16502206  
**DATE:** Tue, Mar 5 2024



5-Min Count Period Beginning At	Haven Ave (Northbound)				Haven Ave (Southbound)				Marsh Rd (Eastbound)				Marsh Rd (Westbound)				Total	Hourly Totals
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U		
4:00 PM	63	4	0	0	1	21	26	0	19	3	152	0	0	1	1	0	291	
4:05 PM	150	9	1	0	0	18	23	0	7	1	161	0	3	0	0	0	373	
4:10 PM	71	2	0	0	0	32	19	0	15	0	141	0	1	1	0	0	282	
4:15 PM	136	11	0	0	1	13	10	0	23	1	181	0	0	1	0	0	377	
4:20 PM	108	5	0	0	1	46	18	0	11	1	123	0	1	2	0	0	316	
4:25 PM	144	8	0	0	0	17	11	0	26	2	175	0	0	1	0	0	384	
4:30 PM	103	6	0	0	0	20	23	0	25	1	158	0	1	6	0	0	343	
4:35 PM	158	4	1	0	0	24	24	0	10	1	164	0	0	2	0	0	388	
4:40 PM	105	4	1	0	1	26	15	0	21	3	145	0	1	1	0	0	323	
4:45 PM	172	3	0	0	0	7	20	0	14	0	151	0	0	0	0	0	367	
4:50 PM	75	2	1	0	0	33	25	0	10	1	117	0	0	4	3	0	271	
4:55 PM	156	6	1	0	0	19	17	0	17	4	179	0	1	2	0	0	402	4117
5:00 PM	88	6	0	0	0	24	29	0	17	2	159	0	1	1	1	0	328	4154
5:05 PM	184	8	2	0	0	5	12	0	16	1	148	1	0	1	0	0	378	4159
5:10 PM	117	3	1	0	1	25	23	0	19	0	128	0	0	3	1	0	321	4198
5:15 PM	157	11	1	0	0	7	19	0	31	1	167	0	0	0	0	0	394	4215
5:20 PM	148	8	0	0	1	19	21	0	18	1	148	0	0	2	0	0	366	4265
5:25 PM	169	8	3	0	1	10	18	0	12	2	116	0	0	1	1	0	341	4222
5:30 PM	86	2	2	0	0	20	41	0	23	0	140	1	4	2	2	0	323	4202
5:35 PM	150	10	1	0	0	12	18	0	14	1	117	1	1	1	0	0	326	4140
5:40 PM	93	8	2	0	0	16	24	0	21	1	112	1	1	2	1	0	282	4099
5:45 PM	134	6	0	0	0	8	21	0	13	2	127	0	1	1	0	0	313	4045
5:50 PM	104	3	0	0	0	16	26	0	28	1	124	0	3	3	1	0	309	4083
5:55 PM	137	6	0	0	0	12	14	0	19	0	107	0	1	1	0	0	297	3978
Peak 15-Min Flowrates	Northbound				Southbound				Eastbound				Westbound				Total	
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U		
All Vehicles	1620	72	4	0	0	244	232	0	244	16	1988	0	4	36	0	0	4460	
Heavy Trucks	56	16	0	0	0	0	0	0	24	0	92	0	0	0	0	0	188	
Buses		32				0				0				0			32	
Pedestrians	0	16	0		0	4	0		0	0	0		0	0	0		20	
Bicycles																		
Scoters																		

Comments:

## **APPENDIX E: NEAR-TERM (2027) PLUS PROJECT CONDITIONS VISTRO REPORTS**

Menlo Park Haven Ave Residential EIR

Vistro File: H:\...\Haven Ave\_AM\_v3.vistro  
Report File: H:\...\2027 with project AM.pdf

Scenario 19 2027 with project AM  
7/10/2024

**Intersection Analysis Summary**

ID	Intersection Name	Control Type	Method	Worst Mvmt	V/C	Delay (s/veh)	LOS
1	Bayfront Expy/Marsh Rd	Signalized	HCM 7th Edition	SB Left	0.908	47.2	D

V/C, Delay, LOS: For two-way stop, these values are taken from the movement with the worst (highest) delay value. For all other control types, they are taken for the whole intersection.

**Intersection Level Of Service Report**  
**Intersection 1: Bayfront Expy/Marsh Rd**

Control Type:	Signalized	Delay (sec / veh):	47.2
Analysis Method:	HCM 7th Edition	Level Of Service:	D
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.908

**Intersection Setup**

Name	Bayfront Expressway			Haven Avenue			Marsh Road			Marsh Road		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration	TTT			TTT			TTT			TT		
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Entry Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Entry Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
No. of Lanes in Exit Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Exit Pocket Length [ft]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present	No			No			No			No		
Crosswalk	Yes			Yes			Yes			Yes		

**Volumes**

Name	Bayfront Expressway			Haven Avenue			Marsh Road			Marsh Road		
Base Volume Input [veh/h]	2389	499	29	3	300	260	150	37	1872	2	24	6
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	5.20	4.40	0.00	0.00	9.50	6.10	6.70	2.70	2.90	0.00	4.20	0.00
Proportion of CAVs [%]	0.00											
Growth Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right Turn on Red Volume [veh/h]	0	0	0	0	0	210	0	0	0	0	0	0
Total Hourly Volume [veh/h]	2389	499	29	3	300	50	150	37	1872	2	24	6
Peak Hour Factor	0.9400	0.9400	0.9400	0.9400	0.9400	0.9400	0.9400	0.9400	0.9400	0.9400	0.9400	0.9400
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	635	133	8	1	80	13	40	10	498	1	6	2
Total Analysis Volume [veh/h]	2541	531	31	3	319	53	160	39	1991	2	26	6
Presence of On-Street Parking	No		No	No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	6			0			6			0		
v_di, Inbound Pedestrian Volume crossing m	6			0			6			0		
v_co, Outbound Pedestrian Volume crossing	2			0			0			2		
v_ci, Inbound Pedestrian Volume crossing mi	2			0			0			2		
v_ab, Corner Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			8			1			1		



**Intersection Settings**

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	200
Active Pattern	Pattern 1
Coordination Type	Time of Day Pattern Coordinated
Actuation Type	Fully actuated
Offset [s]	81.0
Offset Reference	LagCoordGreen
Permissive Mode	SingleBand
Lost time [s]	12.00

**Phasing & Timing (Basic)**

Control Type	Split	Split	Split	Split	Split	Split	Split	Split	Overlap	Split	Split	Split
Signal Group	1	2	8	4	1	4	2	3	3	7	4	6
Auxiliary Signal Groups								3	2,3			
Maximum Green [s]	24	70	0	15	24	15	70	27	27	0	15	10
Amber [s]	3.7	5.2	0.0	3.7	3.7	3.7	5.2	4.1	4.1	0.0	3.7	3.6
All red [s]	0.0	1.0	0.0	0.5	0.0	0.5	1.0	1.0	1.0	0.0	0.5	0.5
Walk [s]	4	4	0	4	4	4	4	0	0	0	4	10
Pedestrian Clearance [s]	27	16	0	31	27	31	16	0	0	0	31	10
Delayed Vehicle Green [s]	3.0	3.0	0.0	3.0	3.0	3.0	3.0	0.0	0.0	0.0	3.0	0.0
Rest In Walk		No			No			No			No	
I1, Start-Up Lost Time [s]	2.0	2.0	0.0	2.0	2.0	2.0	2.0	2.0	2.0	0.0	2.0	2.0
I2, Clearance Lost Time [s]	1.7	0.5	0.0	0.1	1.7	0.1	0.5	0.5	0.5	0.0	0.1	2.1
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	20.0	20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

**Phasing & Timing: Pattern 1**

Split [s]	38	102	0	43	38	43	102	17	17	0	43	20
Lead / Lag	Lead	-	-	Lag	-	-	Lag	-	-	-	-	-
Minimum Green [s]	6	10	0	11	6	11	10	11	11	0	11	10
Vehicle Extension [s]	2.0	4.5	0.0	2.0	2.0	2.0	4.5	2.0	2.0	0.0	2.0	3.0
Minimum Recall		Yes			No			No	No		No	
Maximum Recall		No			No			No	No		No	
Pedestrian Recall		No			No			No	No		No	

**Exclusive Pedestrian Phase**

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

**Lane Group Calculations**

Lane Group	L	C	C	C	R	C	R	C	C
C, Cycle Length [s]	200	200	200	200	200	200	200	200	200
L, Total Lost Time per Cycle [s]	2.50	2.50	3.70	3.70	3.70	2.50	2.50	2.10	2.10
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	0.50	0.50	1.70	1.70	1.70	0.50	0.00	0.10	0.10
g_i, Effective Green Time [s]	100	100	20	20	20	57	160	11	11
g / C, Green / Cycle	0.50	0.50	0.10	0.10	0.10	0.29	0.80	0.06	0.06
(v / s)_i Volume / Saturation Flow Rate	0.50	0.31	0.09	0.09	0.04	0.11	0.48	0.01	0.01
s, saturation flow rate [veh/h]	5055	1816	1756	1757	1492	1788	4147	1826	1711
c, Capacity [veh/h]	2524	907	179	179	152	514	3236	105	98
d1, Uniform Delay [s]	50.03	36.27	88.72	88.72	83.47	57.07	9.15	89.64	89.69
k, delay calibration	0.50	0.50	0.05	0.05	0.04	0.04	0.50	0.04	0.04
l, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	19.57	3.18	7.47	7.42	0.51	0.18	0.88	0.27	0.31
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

**Lane Group Results**

X, volume / capacity	1.01	0.62	0.90	0.90	0.35	0.39	0.62	0.16	0.17
d, Delay for Lane Group [s/veh]	69.60	39.45	96.19	96.14	83.97	57.25	10.03	89.91	90.00
Lane Group LOS	F	D	F	F	F	E	B	F	F
Critical Lane Group	Yes	No	Yes	No	No	No	Yes	No	Yes
50th-Percentile Queue Length [veh/ln]	46.46	21.09	8.70	8.70	2.60	8.24	12.02	0.86	0.86
50th-Percentile Queue Length [ft/ln]	1161.39	527.20	217.40	217.46	65.01	205.98	300.43	21.46	21.40
95th-Percentile Queue Length [veh/ln]	57.97	28.62	13.53	13.54	4.68	12.95	17.70	1.55	1.54
95th-Percentile Queue Length [ft/ln]	1449.28	715.48	338.31	338.39	117.01	323.66	442.56	38.63	38.53

**Movement, Approach, & Intersection Results**

d_M, Delay for Movement [s/veh]	69.60	39.45	39.45	96.19	96.17	83.97	57.25	57.25	10.03	89.91	89.95	90.00
Movement LOS	F	D	D	F	F	F	E	E	B	F	F	F
d_A, Approach Delay [s/veh]	64.14			94.44			14.32			89.95		
Approach LOS	E			F			B			F		
d_I, Intersection Delay [s/veh]	47.15											
Intersection LOS	D											
Intersection V/C	0.908											

**Emissions**

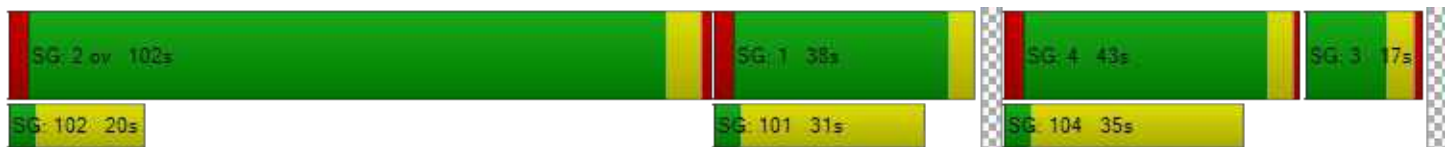
Vehicle Miles Traveled [mph]	719.33	159.10	18.27	18.28	6.02	8.34	83.39	0.56	0.56
Stops [stops/h]	2509.70	379.75	156.60	156.64	46.83	148.37	649.20	15.46	15.42
Fuel consumption [US gal/h]	79.46	13.16	4.77	4.77	1.41	3.48	11.08	0.42	0.42
CO [g/h]	5554.39	919.82	333.24	333.30	98.69	243.32	774.81	29.36	29.27
NOx [g/h]	1080.68	178.96	64.84	64.85	19.20	47.34	150.75	5.71	5.70
VOC [g/h]	1287.28	213.18	77.23	77.25	22.87	56.39	179.57	6.80	6.78

**Other Modes**

g_Walk,mi, Effective Walk Time [s]	11.9	8.0	8.0	8.0
M_corner, Corner Circulation Area [ft <sup>2</sup> /ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft <sup>2</sup> /ped]	0.00	0.00	0.00	1517.54
d_p, Pedestrian Delay [s]	88.41	92.12	92.12	92.12
I_p,int, Pedestrian LOS Score for Intersectio	3.385	2.781	3.332	2.014
Crosswalk LOS	C	C	C	B
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	928	313	119	358
d_b, Bicycle Delay [s]	28.70	71.39	88.45	67.40
I_b,int, Bicycle LOS Score for Intersection	6.680	2.042	5.173	1.588
Bicycle LOS	F	B	F	A

**Sequence**

Ring 1	2	1	4	3	-	-	-	-	-	-	-	-	-	-	-
Ring 2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Menlo Park Haven Ave Residential EIR

Vistro File: H:\...\Haven Ave\_PM\_v3.vistro  
Report File: H:\...\2027 with project PM.pdf

Scenario 19 2027 with project PM  
7/9/2024

**Intersection Analysis Summary**

ID	Intersection Name	Control Type	Method	Worst Mvmt	V/C	Delay (s/veh)	LOS
1	Bayfront Expy/Marsh Rd	Signalized	HCM 7th Edition	SB Left	0.907	53.2	D

V/C, Delay, LOS: For two-way stop, these values are taken from the movement with the worst (highest) delay value. For all other control types, they are taken for the whole intersection.

**Intersection Level Of Service Report**  
**Intersection 1: Bayfront Expy/Marsh Rd**

Control Type:	Signalized	Delay (sec / veh):	53.2
Analysis Method:	HCM 7th Edition	Level Of Service:	D
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.907

**Intersection Setup**

Name	Bayfront Expressway			Haven Avenue			Marsh Road			Marsh Road		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration	⇐⇐⇐			⇐⇐⇐			⇐⇐⇐⇐⇐			⇐⇐		
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Entry Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Entry Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
No. of Lanes in Exit Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Exit Pocket Length [ft]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present	No			No			No			No		
Crosswalk	Yes			Yes			Yes			Yes		

**Volumes**

Name	Bayfront Expressway			Haven Avenue			Marsh Road			Marsh Road		
	1958	395	8	3	468	241	234	17	2008	4	23	5
Base Volume Input [veh/h]	1958	395	8	3	468	241	234	17	2008	4	23	5
Base Volume Adjustment Factor	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Heavy Vehicles Percentage [%]	2.40	11.60	12.50	0.00	2.20	1.70	7.10	0.00	3.60	0.00	4.30	0.00
Proportion of CAVs [%]	0.00											
Growth Factor	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right Turn on Red Volume [veh/h]	0	0	0	0	0	188	0	0	0	0	0	0
Total Hourly Volume [veh/h]	1958	395	8	3	468	53	234	17	2008	4	23	5
Peak Hour Factor	0.960	0.960	0.960	0.960	0.960	0.960	0.960	0.960	0.960	0.960	0.960	0.960
Other Adjustment Factor	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Total 15-Minute Volume [veh/h]	510	103	2	1	122	14	61	4	523	1	6	1
Total Analysis Volume [veh/h]	2040	411	8	3	488	55	244	18	2092	4	24	5
Presence of On-Street Parking	No		No	No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing major street [ped/h]	7			0			7			0		
v_di, Inbound Pedestrian Volume crossing major street [ped/h]	7			0			7			0		
v_co, Outbound Pedestrian Volume crossing minor street [ped/h]	1			0			0			2		
v_ci, Inbound Pedestrian Volume crossing minor street [ped/h]	2			0			0			1		
v_ab, Corner Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	9			4			2			0		

**Intersection Settings**

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	200
Active Pattern	Pattern 1
Coordination Type	Time of Day Pattern Coordinated
Actuation Type	Fully actuated
Offset [s]	100.0
Offset Reference	LagCoordGreen
Permissive Mode	SingleBand
Lost time [s]	12.00

**Phasing & Timing (Basic)**

Control Type	Split	Split	Split	Split	Split	Split	Split	Split	Split	Overlap	Split	Split	Split
Signal Group	1	2	8	4	1	4	2	3	3	3	6	4	6
Auxiliary Signal Groups										2,3			
Maximum Green [s]	24	70	0	15	24	15	70	27	27	10	15	10	10
Amber [s]	3.7	5.2	0.0	3.7	3.7	3.7	5.2	4.1	4.1	3.6	3.7	3.6	3.6
All red [s]	0.0	1.0	0.0	0.5	0.0	0.5	1.0	1.0	1.0	0.5	0.5	0.5	0.5
Walk [s]	4	4	0	4	4	4	4	0	0	10	4	10	10
Pedestrian Clearance [s]	27	16	0	31	27	31	16	0	0	10	31	10	10
Delayed Vehicle Green [s]	3.0	3.0	0.0	3.0	3.0	3.0	3.0	0.0	0.0	0.0	3.0	0.0	0.0
Rest In Walk		No			No			No			No		
I1, Start-Up Lost Time [s]	2.0	2.0	0.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
I2, Clearance Lost Time [s]	1.7	0.5	0.0	0.1	1.7	0.1	0.5	0.5	0.5	2.1	0.1	2.1	2.1
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	20.0	20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

**Phasing & Timing: Pattern 1**

Split [s]	39	82	0	43	39	43	82	36	36	25	43	25
Lead / Lag	Lead	-	-	Lag	-	-	Lag	-	-	Lag	-	-
Minimum Green [s]	6	10	0	11	6	11	10	11	11	10	11	10
Vehicle Extension [s]	2.0	4.5	0.0	2.0	2.0	2.0	4.5	2.0	2.0	3.0	2.0	3.0
Minimum Recall		Yes			No			No	No		No	
Maximum Recall		No			No			No	No		No	
Pedestrian Recall		No			No			No	No		No	

**Exclusive Pedestrian Phase**

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

**Lane Group Calculations**

Lane Group	L	C	C	C	R	C	R	C	C
C, Cycle Length [s]	200	200	200	200	200	200	200	200	200
L, Total Lost Time per Cycle [s]	2.50	2.50	3.70	3.70	3.70	2.50	2.50	2.10	2.10
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	0.50	0.50	1.70	1.70	1.70	0.50	0.00	0.10	0.10
g_i, Effective Green Time [s]	79	79	28	28	28	70	152	11	11
g / C, Green / Cycle	0.40	0.40	0.14	0.14	0.14	0.35	0.76	0.06	0.06
(v / s)_i Volume / Saturation Flow Rate	0.39	0.24	0.13	0.13	0.04	0.14	0.51	0.01	0.01
s, saturation flow rate [veh/h]	5171	1719	1866	1867	1564	1815	4108	1814	1742
c, Capacity [veh/h]	2051	682	264	264	221	637	3045	103	99
d1, Uniform Delay [s]	60.08	48.10	84.80	84.80	76.28	49.16	13.39	89.71	89.74
k, delay calibration	0.50	0.50	0.23	0.23	0.04	0.04	0.50	0.04	0.04
l, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	18.66	4.11	24.02	23.98	0.22	0.16	1.29	0.27	0.29
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

**Lane Group Results**

X, volume / capacity	0.99	0.61	0.93	0.93	0.25	0.41	0.69	0.16	0.17
d, Delay for Lane Group [s/veh]	78.73	52.22	108.82	108.78	76.50	49.32	14.67	89.98	90.03
Lane Group LOS	E	D	F	F	E	D	B	F	F
Critical Lane Group	Yes	No	Yes	No	No	No	Yes	No	Yes
50th-Percentile Queue Length [veh/ln]	37.91	17.74	14.42	14.42	2.56	10.19	16.43	0.83	0.83
50th-Percentile Queue Length [ft/ln]	947.81	443.40	360.40	360.52	64.10	254.65	410.64	20.83	20.78
95th-Percentile Queue Length [veh/ln]	48.01	24.64	20.64	20.65	4.62	15.42	23.07	1.50	1.50
95th-Percentile Queue Length [ft/ln]	1200.26	616.07	516.07	516.22	115.39	385.51	576.80	37.49	37.41



**Movement, Approach, & Intersection Results**

d_M, Delay for Movement [s/veh]	78.73	52.22	52.22	108.82	108.80	76.50	49.32	49.32	14.67	89.98	90.00	90.03
Movement LOS	E	D	D	F	F	E	D	D	B	F	F	F
d_A, Approach Delay [s/veh]	74.21			105.55			18.53			90.00		
Approach LOS	E			F			B			F		
d_I, Intersection Delay [s/veh]	53.17											
Intersection LOS	D											
Intersection V/C	0.907											

**Emissions**

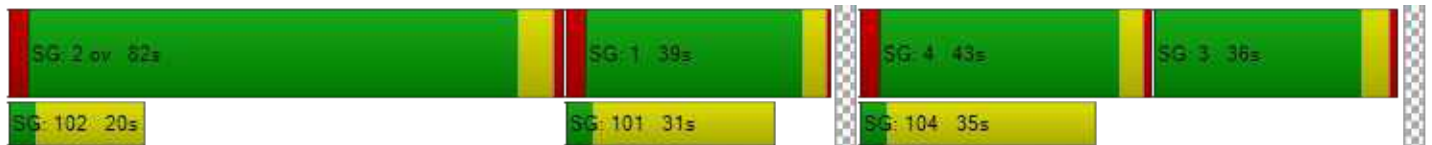
Vehicle Miles Traveled [mph]	332.74	68.34	27.84	27.86	6.24	13.02	103.92	0.58	0.57
Stops [stops/h]	2048.17	319.39	259.60	259.69	46.18	183.43	887.36	15.00	14.97
Fuel consumption [US gal/h]	57.69	9.03	8.01	8.02	1.37	4.18	15.43	0.41	0.41
CO [g/h]	4032.71	631.17	560.22	560.36	95.62	292.07	1078.40	28.59	28.53
NOx [g/h]	784.62	122.80	109.00	109.03	18.60	56.83	209.82	5.56	5.55
VOC [g/h]	934.62	146.28	129.84	129.87	22.16	67.69	249.93	6.63	6.61

**Other Modes**

g_Walk,mi, Effective Walk Time [s]	30.9	8.0	8.0	8.0
M_corner, Corner Circulation Area [ft <sup>2</sup> /ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft <sup>2</sup> /ped]	0.00	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	71.44	92.12	92.12	92.12
I_p,int, Pedestrian LOS Score for Intersectio	3.325	2.777	3.282	1.999
Crosswalk LOS	C	C	C	A
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	728	323	309	358
d_b, Bicycle Delay [s]	40.59	70.41	71.52	67.36
I_b,int, Bicycle LOS Score for Intersection	5.617	2.165	5.444	1.587
Bicycle LOS	F	B	F	A

**Sequence**

Ring 1	2	1	4	3	-	-	-	-	-	-	-	-	-	-	-
Ring 2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



## APPENDIX F: CUMULATIVE CONDITIONS VISTRO REPORTS

## Menlo Park Haven Ave Residential EIR

Vistro File: H:\...\Haven Ave\_AM\_v3.vistro

Scenario 18 2040 AM

Report File: H:\...\2040 AM.pdf

7/10/2024

**Intersection Analysis Summary**

ID	Intersection Name	Control Type	Method	Worst Mvmt	V/C	Delay (s/veh)	LOS
1	Bayfront Expy/Marsh Rd	Signalized	HCM 7th Edition	SB Right	0.968	51.6	D

V/C, Delay, LOS: For two-way stop, these values are taken from the movement with the worst (highest) delay value. For all other control types, they are taken for the whole intersection.

**Intersection Level Of Service Report**  
**Intersection 1: Bayfront Expy/Marsh Rd**

Control Type:	Signalized	Delay (sec / veh):	51.6
Analysis Method:	HCM 7th Edition	Level Of Service:	D
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.968

**Intersection Setup**

Name	Bayfront Expressway			Haven Avenue			Marsh Road			Marsh Road		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration	TTT			TTT			TTT			TT		
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Entry Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Entry Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
No. of Lanes in Exit Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Exit Pocket Length [ft]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present	No			No			No			No		
Crosswalk	Yes			Yes			Yes			Yes		

**Volumes**

Name	Bayfront Expressway			Haven Avenue			Marsh Road			Marsh Road		
Base Volume Input [veh/h]	2392	533	29	3	305	246	150	37	2087	2	24	6
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	5.20	4.40	0.00	0.00	9.50	6.10	6.70	2.70	2.90	0.00	4.20	0.00
Proportion of CAVs [%]	0.00											
Growth Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	2392	533	29	3	305	246	150	37	2087	2	24	6
Peak Hour Factor	0.9400	0.9400	0.9400	0.9400	0.9400	0.9400	0.9400	0.9400	0.9400	0.9400	0.9400	0.9400
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	636	142	8	1	81	65	40	10	555	1	6	2
Total Analysis Volume [veh/h]	2545	567	31	3	324	262	160	39	2220	2	26	6
Presence of On-Street Parking	No		No	No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	6			0			6			0		
v_di, Inbound Pedestrian Volume crossing m	6			0			6			0		
v_co, Outbound Pedestrian Volume crossing	2			0			0			2		
v_ci, Inbound Pedestrian Volume crossing mi	2			0			0			2		
v_ab, Corner Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			8			1			1		

**Intersection Settings**

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	200
Active Pattern	Pattern 1
Coordination Type	Time of Day Pattern Coordinated
Actuation Type	Fully actuated
Offset [s]	81.0
Offset Reference	LagCoordGreen
Permissive Mode	SingleBand
Lost time [s]	12.00

**Phasing & Timing (Basic)**

Control Type	Split	Split	Split	Split	Split	Split	Split	Split	Overlap	Split	Split	Split
Signal Group	1	2	8	4	1	4	2	3	3	7	4	6
Auxiliary Signal Groups								3	2,3			
Maximum Green [s]	24	70	0	15	24	15	70	27	27	0	15	10
Amber [s]	3.7	5.2	0.0	3.7	3.7	3.7	5.2	4.1	4.1	0.0	3.7	3.6
All red [s]	0.0	1.0	0.0	0.5	0.0	0.5	1.0	1.0	1.0	0.0	0.5	0.5
Walk [s]	4	4	0	4	4	4	4	0	0	0	4	10
Pedestrian Clearance [s]	27	16	0	31	27	31	16	0	0	0	31	10
Delayed Vehicle Green [s]	3.0	3.0	0.0	3.0	3.0	3.0	3.0	0.0	0.0	0.0	3.0	0.0
Rest In Walk		No			No			No			No	
I1, Start-Up Lost Time [s]	2.0	2.0	0.0	2.0	2.0	2.0	2.0	2.0	2.0	0.0	2.0	2.0
I2, Clearance Lost Time [s]	1.7	0.5	0.0	0.1	1.7	0.1	0.5	0.5	0.5	0.0	0.1	2.1
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	20.0	20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

**Phasing & Timing: Pattern 1**

Split [s]	38	102	0	43	38	43	102	17	17	0	43	20
Lead / Lag	Lead	-	-	Lag	-	-	Lag	-	-	-	-	-
Minimum Green [s]	6	10	0	11	6	11	10	11	11	0	11	10
Vehicle Extension [s]	2.0	4.5	0.0	2.0	2.0	2.0	4.5	2.0	2.0	0.0	2.0	3.0
Minimum Recall		Yes			No			No	No		No	
Maximum Recall		No			No			No	No		No	
Pedestrian Recall		No			No			No	No		No	

**Exclusive Pedestrian Phase**

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

**Lane Group Calculations**

Lane Group	L	C	C	C	R	C	R	C	C
C, Cycle Length [s]	200	200	200	200	200	200	200	200	200
L, Total Lost Time per Cycle [s]	2.50	2.50	3.70	3.70	3.70	2.50	2.50	2.10	2.10
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	0.50	0.50	1.70	1.70	1.70	0.50	0.00	0.10	0.10
g_i, Effective Green Time [s]	99	99	26	26	26	52	154	11	11
g / C, Green / Cycle	0.50	0.50	0.13	0.13	0.13	0.26	0.77	0.06	0.06
(v / s)_i Volume / Saturation Flow Rate	0.50	0.33	0.12	0.12	0.12	0.11	0.54	0.01	0.01
s, saturation flow rate [veh/h]	5055	1817	1756	1626	1498	1788	4149	1826	1711
c, Capacity [veh/h]	2510	902	231	214	197	465	3114	104	98
d1, Uniform Delay [s]	50.31	37.75	85.44	85.69	85.72	61.53	13.18	89.68	89.74
k, delay calibration	0.50	0.50	0.18	0.20	0.21	0.04	0.50	0.04	0.04
l, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	21.45	3.82	17.79	22.38	29.52	0.23	1.42	0.27	0.31
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

**Lane Group Results**

X, volume / capacity	1.01	0.66	0.90	0.92	0.94	0.43	0.71	0.16	0.17
d, Delay for Lane Group [s/veh]	71.76	41.57	103.23	108.07	115.23	61.76	14.60	89.95	90.05
Lane Group LOS	F	D	F	F	F	E	B	F	F
Critical Lane Group	Yes	No	No	No	Yes	No	Yes	No	Yes
50th-Percentile Queue Length [veh/ln]	46.64	23.29	11.80	11.44	11.20	8.59	17.64	0.86	0.86
50th-Percentile Queue Length [ft/ln]	1166.11	582.36	294.91	285.91	279.89	214.69	441.05	21.46	21.41
95th-Percentile Queue Length [veh/ln]	58.53	31.21	17.43	16.98	16.68	13.39	24.53	1.55	1.54
95th-Percentile Queue Length [ft/ln]	1463.13	780.24	435.72	424.56	417.07	334.84	613.26	38.64	38.54

**Movement, Approach, & Intersection Results**

d_M, Delay for Movement [s/veh]	71.76	41.57	41.57	103.23	105.02	113.36	61.76	61.76	14.60	89.95	89.99	90.05
Movement LOS	F	D	D	F	F	F	E	E	B	F	F	F
d_A, Approach Delay [s/veh]	66.02			108.62			18.48			90.00		
Approach LOS	E			F			B			F		
d_I, Intersection Delay [s/veh]	51.61											
Intersection LOS	D											
Intersection V/C	0.968											

**Emissions**

Vehicle Miles Traveled [mph]	720.46	169.29	23.52	22.25	21.08	8.34	92.99	0.56	0.56
Stops [stops/h]	2519.34	419.39	212.38	205.90	201.56	154.61	952.88	15.46	15.42
Fuel consumption [US gal/h]	80.74	14.34	6.49	6.36	6.34	3.70	15.69	0.42	0.42
CO [g/h]	5643.66	1002.67	453.99	444.80	442.89	258.48	1096.48	29.37	29.29
NOx [g/h]	1098.05	195.08	88.33	86.54	86.17	50.29	213.33	5.71	5.70
VOC [g/h]	1307.97	232.38	105.22	103.09	102.64	59.91	254.12	6.81	6.79

**Other Modes**

g_Walk,mi, Effective Walk Time [s]	11.9	8.0	8.0	8.0
M_corner, Corner Circulation Area [ft <sup>2</sup> /ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft <sup>2</sup> /ped]	0.00	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	88.43	92.14	92.14	92.14
I_p,int, Pedestrian LOS Score for Intersectio	3.423	2.492	3.364	2.014
Crosswalk LOS	C	B	C	B
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	928	313	119	358
d_b, Bicycle Delay [s]	28.71	71.41	88.48	67.42
I_b,int, Bicycle LOS Score for Intersection	6.746	2.046	5.551	1.588
Bicycle LOS	F	B	F	A

**Sequence**

Ring 1	2	1	4	3	-	-	-	-	-	-	-	-	-	-	-
Ring 2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-





## Menlo Park Haven Ave Residential EIR

Vistro File: H:\...\Haven Ave\_PM\_v3.vistro

Scenario 18 2040 PM

Report File: H:\...\2040 PM.pdf

7/9/2024

**Intersection Analysis Summary**

<b>ID</b>	<b>Intersection Name</b>	<b>Control Type</b>	<b>Method</b>	<b>Worst Mvmt</b>	<b>V/C</b>	<b>Delay (s/veh)</b>	<b>LOS</b>
1	Bayfront Expy/Marsh Rd	Signalized	HCM 7th Edition	SB Left	0.981	65.0	E

V/C, Delay, LOS: For two-way stop, these values are taken from the movement with the worst (highest) delay value. For all other control types, they are taken for the whole intersection.

**Intersection Level Of Service Report**  
**Intersection 1: Bayfront Expy/Marsh Rd**

Control Type:	Signalized	Delay (sec / veh):	65.0
Analysis Method:	HCM 7th Edition	Level Of Service:	E
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.981

**Intersection Setup**

Name	Bayfront Expressway			Haven Avenue			Marsh Road			Marsh Road		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration	TTT			TTT			TTT			TT		
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Entry Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Entry Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
No. of Lanes in Exit Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Exit Pocket Length [ft]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present	No			No			No			No		
Crosswalk	Yes			Yes			Yes			Yes		

**Volumes**

Name	Bayfront Expressway			Haven Avenue			Marsh Road			Marsh Road		
Base Volume Input [veh/h]	2578	808	8	3	669	239	225	17	2063	4	23	5
Base Volume Adjustment Factor	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Heavy Vehicles Percentage [%]	2.40	11.60	12.50	0.00	2.20	1.70	7.10	0.00	3.60	0.00	4.30	0.00
Proportion of CAVs [%]	0.00											
Growth Factor	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right Turn on Red Volume [veh/h]	0	0	0	0	0	190	0	0	0	0	0	0
Total Hourly Volume [veh/h]	2578	808	8	3	669	49	225	17	2063	4	23	5
Peak Hour Factor	0.960	0.960	0.960	0.960	0.960	0.960	0.960	0.960	0.960	0.960	0.960	0.960
Other Adjustment Factor	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Total 15-Minute Volume [veh/h]	671	210	2	1	174	13	59	4	537	1	6	1
Total Analysis Volume [veh/h]	2685	842	8	3	697	51	234	18	2149	4	24	5
Presence of On-Street Parking	No		No	No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing major street [ped/h]	7			0			7			0		
v_di, Inbound Pedestrian Volume crossing major street [ped/h]	7			0			7			0		
v_co, Outbound Pedestrian Volume crossing minor street [ped/h]	1			0			0			2		
v_ci, Inbound Pedestrian Volume crossing minor street [ped/h]	2			0			0			1		
v_ab, Corner Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	9			4			2			0		

**Intersection Settings**

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	220
Active Pattern	Pattern 1
Coordination Type	Time of Day Pattern Coordinated
Actuation Type	Fully actuated
Offset [s]	100.0
Offset Reference	LagCoordGreen
Permissive Mode	SingleBand
Lost time [s]	12.00

**Phasing & Timing (Basic)**

Control Type	Split	Split	Split	Split	Split	Split	Split	Split	Split	Overlap	Split	Split	Split
Signal Group	1	2	8	4	1	4	2	3	3	3	6	4	6
Auxiliary Signal Groups										2,3			
Maximum Green [s]	24	70	0	15	24	15	70	27	27	10	15	10	
Amber [s]	3.7	5.2	0.0	3.7	3.7	3.7	5.2	4.1	4.1	3.6	3.7	3.6	
All red [s]	0.0	1.0	0.0	0.5	0.0	0.5	1.0	1.0	1.0	0.5	0.5	0.5	
Walk [s]	4	4	0	4	4	4	4	0	0	10	4	10	
Pedestrian Clearance [s]	27	16	0	31	27	31	16	0	0	10	31	10	
Delayed Vehicle Green [s]	3.0	3.0	0.0	3.0	3.0	3.0	3.0	0.0	0.0	0.0	3.0	0.0	
Rest In Walk		No			No			No			No		
I1, Start-Up Lost Time [s]	2.0	2.0	0.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	
I2, Clearance Lost Time [s]	1.7	0.5	0.0	0.1	1.7	0.1	0.5	0.5	0.5	2.1	0.1	2.1	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Detector Length [ft]	20.0	20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	

**Phasing & Timing: Pattern 1**

Split [s]	45	115	0	43	45	43	115	17	17	20	43	20
Lead / Lag	Lead	-	-	Lag	-	-	Lag	-	-	Lag	-	-
Minimum Green [s]	6	10	0	11	6	11	10	11	11	10	11	10
Vehicle Extension [s]	2.0	4.5	0.0	2.0	2.0	2.0	4.5	2.0	2.0	3.0	2.0	3.0
Minimum Recall		Yes			No			No	No		No	
Maximum Recall		No			No			No	No		No	
Pedestrian Recall		No			No			No	No		No	

**Exclusive Pedestrian Phase**

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

**Lane Group Calculations**

Lane Group	L	C	C	C	R	C	R	C	C
C, Cycle Length [s]	220	220	220	220	220	220	220	220	220
L, Total Lost Time per Cycle [s]	2.50	2.50	3.70	3.70	3.70	2.50	2.50	2.10	2.10
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	0.50	0.50	1.70	1.70	1.70	0.50	0.00	0.10	0.10
g_i, Effective Green Time [s]	112	112	41	41	41	44	159	12	12
g / C, Green / Cycle	0.51	0.51	0.19	0.19	0.19	0.20	0.72	0.05	0.05
(v / s)_i Volume / Saturation Flow Rate	0.52	0.49	0.19	0.19	0.03	0.14	0.52	0.01	0.01
s, saturation flow rate [veh/h]	5171	1722	1866	1867	1567	1816	4130	1814	1742
c, Capacity [veh/h]	2642	880	350	350	294	362	2910	96	92
d1, Uniform Delay [s]	53.81	51.97	89.34	89.34	74.99	81.84	19.79	99.58	99.61
k, delay calibration	0.50	0.50	0.46	0.46	0.04	0.25	0.50	0.04	0.04
l, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	21.74	23.15	46.06	46.04	0.10	5.54	1.72	0.31	0.34
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

**Lane Group Results**

X, volume / capacity	1.02	0.97	1.00	1.00	0.17	0.70	0.74	0.17	0.18
d, Delay for Lane Group [s/veh]	75.55	75.12	135.40	135.38	75.09	87.38	21.51	99.89	99.95
Lane Group LOS	F	E	F	F	E	F	C	F	F
Critical Lane Group	Yes	No	Yes	No	No	No	Yes	No	Yes
50th-Percentile Queue Length [veh/ln]	53.91	50.96	24.62	24.63	2.47	14.03	22.88	0.93	0.92
50th-Percentile Queue Length [ft/ln]	1347.70	1274.00	615.45	615.66	61.80	350.79	572.05	23.13	23.09
95th-Percentile Queue Length [veh/ln]	66.89	62.67	32.75	32.76	4.45	20.18	30.73	1.67	1.66
95th-Percentile Queue Length [ft/ln]	1672.36	1566.68	818.87	819.12	111.23	504.38	768.17	41.64	41.56

**Movement, Approach, & Intersection Results**

d_M, Delay for Movement [s/veh]	75.55	75.12	75.12	135.40	135.39	75.09	87.38	87.38	21.51	99.89	99.92	99.95
Movement LOS	F	E	E	F	F	E	F	F	C	F	F	F
d_A, Approach Delay [s/veh]	75.45			131.29			28.42			99.92		
Approach LOS	E			F			C			F		
d_I, Intersection Delay [s/veh]	65.01											
Intersection LOS	E											
Intersection V/C	0.981											

**Emissions**

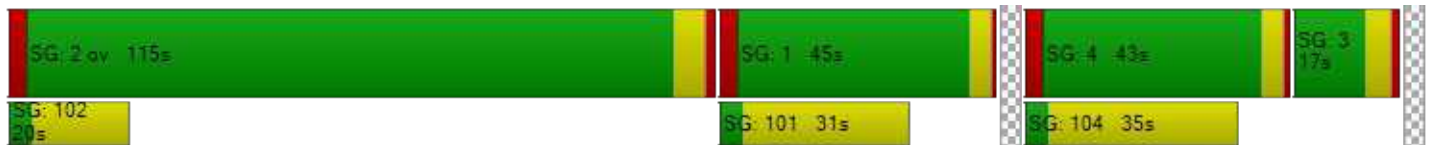
Vehicle Miles Traveled [mph]	437.94	138.64	39.70	39.71	5.79	12.52	106.75	0.60	0.60
Stops [stops/h]	2646.42	833.90	402.84	402.98	40.45	229.61	1123.31	15.14	15.11
Fuel consumption [US gal/h]	73.92	23.31	13.50	13.50	1.24	6.26	20.01	0.44	0.44
CO [g/h]	5167.30	1629.10	943.62	943.91	86.73	437.85	1398.44	31.04	30.97
NOx [g/h]	1005.37	316.96	183.59	183.65	16.88	85.19	272.09	6.04	6.03
VOC [g/h]	1197.57	377.56	218.69	218.76	20.10	101.48	324.10	7.19	7.18

**Other Modes**

g_Walk,mi, Effective Walk Time [s]	11.9	8.0	8.0	8.0
M_corner, Corner Circulation Area [ft <sup>2</sup> /ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft <sup>2</sup> /ped]	0.00	0.00	0.00	2112.60
d_p, Pedestrian Delay [s]	98.42	102.14	102.14	102.14
I_p,int, Pedestrian LOS Score for Intersectio	3.525	2.937	3.382	2.003
Crosswalk LOS	D	C	C	B
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	962	348	108	325
d_b, Bicycle Delay [s]	29.77	75.18	98.52	77.11
I_b,int, Bicycle LOS Score for Intersection	7.392	2.336	5.521	1.587
Bicycle LOS	F	B	F	A

**Sequence**

Ring 1	2	1	4	3	-	-	-	-	-	-	-	-	-	-	-
Ring 2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



## **APPENDIX G: CUMULATIVE PLUS PROJECT CONDITIONS VISTRO REPORTS**

## Menlo Park Haven Ave Residential EIR

Vistro File: H:\...\Haven Ave\_AM\_v3.vistro

Scenario 20 2040 with project AM

Report File: H:\...\2040 with project AM.pdf

7/10/2024

**Intersection Analysis Summary**

ID	Intersection Name	Control Type	Method	Worst Mvmt	V/C	Delay (s/veh)	LOS
1	Bayfront Expy/Marsh Rd	Signalized	HCM 7th Edition	SB Right	0.969	52.2	D

V/C, Delay, LOS: For two-way stop, these values are taken from the movement with the worst (highest) delay value. For all other control types, they are taken for the whole intersection.



**Intersection Level Of Service Report**  
**Intersection 1: Bayfront Expy/Marsh Rd**

Control Type:	Signalized	Delay (sec / veh):	52.2
Analysis Method:	HCM 7th Edition	Level Of Service:	D
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.969

**Intersection Setup**

Name	Bayfront Expressway			Haven Avenue			Marsh Road			Marsh Road		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration	TTT			TTT			TTT			TT		
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Entry Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Entry Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
No. of Lanes in Exit Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Exit Pocket Length [ft]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present	No			No			No			No		
Crosswalk	Yes			Yes			Yes			Yes		

**Volumes**

Name	Bayfront Expressway			Haven Avenue			Marsh Road			Marsh Road		
Base Volume Input [veh/h]	2392	533	29	3	310	260	150	37	2087	2	24	6
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	5.20	4.40	0.00	0.00	9.50	6.10	6.70	2.70	2.90	0.00	4.20	0.00
Proportion of CAVs [%]	0.00											
Growth Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	2392	533	29	3	310	260	150	37	2087	2	24	6
Peak Hour Factor	0.9400	0.9400	0.9400	0.9400	0.9400	0.9400	0.9400	0.9400	0.9400	0.9400	0.9400	0.9400
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	636	142	8	1	82	69	40	10	555	1	6	2
Total Analysis Volume [veh/h]	2545	567	31	3	330	277	160	39	2220	2	26	6
Presence of On-Street Parking	No		No	No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	6			0			6			0		
v_di, Inbound Pedestrian Volume crossing m	6			0			6			0		
v_co, Outbound Pedestrian Volume crossing	2			0			0			2		
v_ci, Inbound Pedestrian Volume crossing mi	2			0			0			2		
v_ab, Corner Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			8			1			1		

**Intersection Settings**

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	200
Active Pattern	Pattern 1
Coordination Type	Time of Day Pattern Coordinated
Actuation Type	Fully actuated
Offset [s]	81.0
Offset Reference	LagCoordGreen
Permissive Mode	SingleBand
Lost time [s]	12.00

**Phasing & Timing (Basic)**

Control Type	Split	Split	Split	Split	Split	Split	Split	Split	Overlap	Split	Split	Split
Signal Group	1	2	8	4	1	4	2	3	3	7	4	6
Auxiliary Signal Groups								3	2,3			
Maximum Green [s]	24	70	0	15	24	15	70	27	27	0	15	10
Amber [s]	3.7	5.2	0.0	3.7	3.7	3.7	5.2	4.1	4.1	0.0	3.7	3.6
All red [s]	0.0	1.0	0.0	0.5	0.0	0.5	1.0	1.0	1.0	0.0	0.5	0.5
Walk [s]	4	4	0	4	4	4	4	0	0	0	4	10
Pedestrian Clearance [s]	27	16	0	31	27	31	16	0	0	0	31	10
Delayed Vehicle Green [s]	3.0	3.0	0.0	3.0	3.0	3.0	3.0	0.0	0.0	0.0	3.0	0.0
Rest In Walk		No			No			No			No	
I1, Start-Up Lost Time [s]	2.0	2.0	0.0	2.0	2.0	2.0	2.0	2.0	2.0	0.0	2.0	2.0
I2, Clearance Lost Time [s]	1.7	0.5	0.0	0.1	1.7	0.1	0.5	0.5	0.5	0.0	0.1	2.1
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	20.0	20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

**Phasing & Timing: Pattern 1**

Split [s]	38	102	0	43	38	43	102	17	17	0	43	20
Lead / Lag	Lead	-	-	Lag	-	-	Lag	-	-	-	-	-
Minimum Green [s]	6	10	0	11	6	11	10	11	11	0	11	10
Vehicle Extension [s]	2.0	4.5	0.0	2.0	2.0	2.0	4.5	2.0	2.0	0.0	2.0	3.0
Minimum Recall		Yes			No			No	No		No	
Maximum Recall		No			No			No	No		No	
Pedestrian Recall		No			No			No	No		No	

**Exclusive Pedestrian Phase**

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

**Lane Group Calculations**

Lane Group	L	C	C	C	R	C	R	C	C
C, Cycle Length [s]	200	200	200	200	200	200	200	200	200
L, Total Lost Time per Cycle [s]	2.50	2.50	3.70	3.70	3.70	2.50	2.50	2.10	2.10
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	0.50	0.50	1.70	1.70	1.70	0.50	0.00	0.10	0.10
g_i, Effective Green Time [s]	99	99	27	27	27	51	153	11	11
g / C, Green / Cycle	0.50	0.50	0.14	0.14	0.14	0.26	0.77	0.06	0.06
(v / s)_i Volume / Saturation Flow Rate	0.50	0.33	0.12	0.13	0.13	0.11	0.53	0.01	0.01
s, saturation flow rate [veh/h]	5055	1817	1756	1618	1499	1788	4150	1826	1711
c, Capacity [veh/h]	2510	902	239	220	204	458	3097	104	98
d1, Uniform Delay [s]	50.32	37.76	85.04	85.29	85.29	62.23	13.63	89.68	89.74
k, delay calibration	0.50	0.50	0.21	0.22	0.24	0.04	0.50	0.04	0.04
l, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	21.49	3.82	19.62	24.60	31.27	0.24	1.45	0.27	0.31
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

**Lane Group Results**

X, volume / capacity	1.01	0.66	0.90	0.92	0.94	0.43	0.72	0.16	0.17
d, Delay for Lane Group [s/veh]	71.81	41.58	104.66	109.90	116.56	62.47	15.09	89.95	90.05
Lane Group LOS	F	D	F	F	F	E	B	F	F
Critical Lane Group	Yes	No	No	No	Yes	No	Yes	No	Yes
50th-Percentile Queue Length [veh/ln]	46.64	23.30	12.36	11.94	11.69	8.64	18.02	0.86	0.86
50th-Percentile Queue Length [ft/ln]	1166.12	582.42	309.05	298.51	292.15	216.03	450.62	21.46	21.41
95th-Percentile Queue Length [veh/ln]	58.53	31.21	18.13	17.61	17.29	13.46	24.99	1.55	1.54
95th-Percentile Queue Length [ft/ln]	1463.32	780.31	453.20	440.19	432.30	336.56	624.69	38.64	38.54

**Movement, Approach, & Intersection Results**

d_M, Delay for Movement [s/veh]	71.81	41.58	41.58	104.66	106.53	114.72	62.47	62.47	15.09	89.95	89.99	90.05
Movement LOS	F	D	D	F	F	F	E	E	B	F	F	F
d_A, Approach Delay [s/veh]	66.06			110.15			18.99			90.00		
Approach LOS	E			F			B			F		
d_I, Intersection Delay [s/veh]	52.18											
Intersection LOS	D											
Intersection V/C	0.969											

**Emissions**

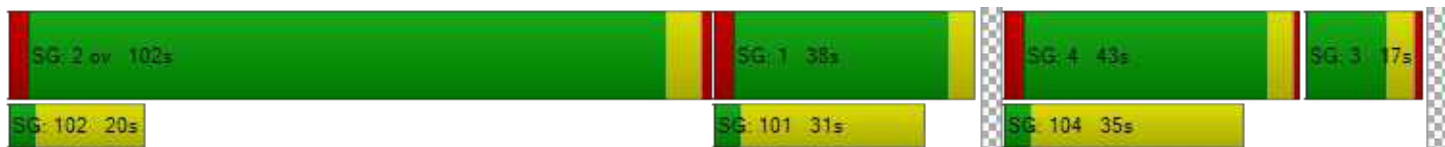
Vehicle Miles Traveled [mph]	720.46	169.29	24.43	22.98	21.83	8.34	92.99	0.56	0.56
Stops [stops/h]	2519.36	419.43	222.56	214.98	210.39	155.58	973.56	15.46	15.42
Fuel consumption [US gal/h]	80.76	14.35	6.82	6.66	6.62	3.73	16.02	0.42	0.42
CO [g/h]	5645.42	1002.80	476.54	465.58	462.93	260.88	1120.05	29.37	29.29
NOx [g/h]	1098.39	195.11	92.72	90.59	90.07	50.76	217.92	5.71	5.70
VOC [g/h]	1308.38	232.41	110.44	107.90	107.29	60.46	259.58	6.81	6.79

**Other Modes**

g_Walk,mi, Effective Walk Time [s]	11.9	8.0	8.0	8.0
M_corner, Corner Circulation Area [ft <sup>2</sup> /ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft <sup>2</sup> /ped]	0.00	0.00	0.00	1517.13
d_p, Pedestrian Delay [s]	88.43	92.14	92.14	92.14
I_p,int, Pedestrian LOS Score for Intersectio	3.424	2.497	3.366	2.014
Crosswalk LOS	C	B	C	B
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	928	313	119	358
d_b, Bicycle Delay [s]	28.71	71.41	88.48	67.42
I_b,int, Bicycle LOS Score for Intersection	6.746	2.063	5.551	1.588
Bicycle LOS	F	B	F	A

**Sequence**

Ring 1	2	1	4	3	-	-	-	-	-	-	-	-	-	-	-
Ring 2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



## Menlo Park Haven Ave Residential EIR

Vistro File: H:\...\Haven Ave\_PM\_v3.vistro

Scenario 20 2040 with project PM

Report File: H:\...\2040 with project PM.pdf

7/9/2024

**Intersection Analysis Summary**

ID	Intersection Name	Control Type	Method	Worst Mvmt	V/C	Delay (s/veh)	LOS
1	Bayfront Expy/Marsh Rd	Signalized	HCM 7th Edition	SB Left	0.981	65.3	E

V/C, Delay, LOS: For two-way stop, these values are taken from the movement with the worst (highest) delay value. For all other control types, they are taken for the whole intersection.

**Intersection Level Of Service Report**  
**Intersection 1: Bayfront Expy/Marsh Rd**

Control Type:	Signalized	Delay (sec / veh):	65.3
Analysis Method:	HCM 7th Edition	Level Of Service:	E
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.981

**Intersection Setup**

Name	Bayfront Expressway			Haven Avenue			Marsh Road			Marsh Road		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration	TTT			TTT			TTT			TT		
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Entry Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Entry Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
No. of Lanes in Exit Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Exit Pocket Length [ft]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present	No			No			No			No		
Crosswalk	Yes			Yes			Yes			Yes		

**Volumes**

Name	Bayfront Expressway			Haven Avenue			Marsh Road			Marsh Road		
Base Volume Input [veh/h]	2578	811	8	3	670	241	234	17	2063	4	23	5
Base Volume Adjustment Factor	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Heavy Vehicles Percentage [%]	2.40	11.60	12.50	0.00	2.20	1.70	7.10	0.00	3.60	0.00	4.30	0.00
Proportion of CAVs [%]	0.00											
Growth Factor	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right Turn on Red Volume [veh/h]	0	0	0	0	0	191	0	0	0	0	0	0
Total Hourly Volume [veh/h]	2578	811	8	3	670	50	234	17	2063	4	23	5
Peak Hour Factor	0.960	0.960	0.960	0.960	0.960	0.960	0.960	0.960	0.960	0.960	0.960	0.960
Other Adjustment Factor	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Total 15-Minute Volume [veh/h]	671	211	2	1	174	13	61	4	537	1	6	1
Total Analysis Volume [veh/h]	2685	845	8	3	698	52	244	18	2149	4	24	5
Presence of On-Street Parking	No		No	No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing major street [ped/h]	7			0			7			0		
v_di, Inbound Pedestrian Volume crossing major street [ped/h]	7			0			7			0		
v_co, Outbound Pedestrian Volume crossing minor street [ped/h]	1			0			0			2		
v_ci, Inbound Pedestrian Volume crossing minor street [ped/h]	2			0			0			1		
v_ab, Corner Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	9			4			2			0		



**Intersection Settings**

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	220
Active Pattern	Pattern 1
Coordination Type	Time of Day Pattern Coordinated
Actuation Type	Fully actuated
Offset [s]	100.0
Offset Reference	LagCoordGreen
Permissive Mode	SingleBand
Lost time [s]	12.00

**Phasing & Timing (Basic)**

Control Type	Split	Split	Split	Split	Split	Split	Split	Split	Overlap	Split	Split	Split
Signal Group	1	2	8	4	1	4	2	3	3	6	4	6
Auxiliary Signal Groups									2,3			
Maximum Green [s]	24	70	0	15	24	15	70	27	27	10	15	10
Amber [s]	3.7	5.2	0.0	3.7	3.7	3.7	5.2	4.1	4.1	3.6	3.7	3.6
All red [s]	0.0	1.0	0.0	0.5	0.0	0.5	1.0	1.0	1.0	0.5	0.5	0.5
Walk [s]	4	4	0	4	4	4	4	0	0	10	4	10
Pedestrian Clearance [s]	27	16	0	31	27	31	16	0	0	10	31	10
Delayed Vehicle Green [s]	3.0	3.0	0.0	3.0	3.0	3.0	3.0	0.0	0.0	0.0	3.0	0.0
Rest In Walk		No			No			No			No	
I1, Start-Up Lost Time [s]	2.0	2.0	0.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
I2, Clearance Lost Time [s]	1.7	0.5	0.0	0.1	1.7	0.1	0.5	0.5	0.5	2.1	0.1	2.1
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	20.0	20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

**Phasing & Timing: Pattern 1**

Split [s]	45	115	0	43	45	43	115	17	17	20	43	20
Lead / Lag	Lead	-	-	Lag	-	-	Lag	-	-	Lag	-	-
Minimum Green [s]	6	10	0	11	6	11	10	11	11	10	11	10
Vehicle Extension [s]	2.0	4.5	0.0	2.0	2.0	2.0	4.5	2.0	2.0	3.0	2.0	3.0
Minimum Recall		Yes			No			No	No		No	
Maximum Recall		No			No			No	No		No	
Pedestrian Recall		No			No			No	No		No	

**Exclusive Pedestrian Phase**

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

**Lane Group Calculations**

Lane Group	L	C	C	C	R	C	R	C	C
C, Cycle Length [s]	220	220	220	220	220	220	220	220	220
L, Total Lost Time per Cycle [s]	2.50	2.50	3.70	3.70	3.70	2.50	2.50	2.10	2.10
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	0.50	0.50	1.70	1.70	1.70	0.50	0.00	0.10	0.10
g_i, Effective Green Time [s]	112	112	41	41	41	44	159	12	12
g / C, Green / Cycle	0.51	0.51	0.19	0.19	0.19	0.20	0.72	0.05	0.05
(v / s)_i Volume / Saturation Flow Rate	0.52	0.50	0.19	0.19	0.03	0.14	0.52	0.01	0.01
s, saturation flow rate [veh/h]	5171	1722	1866	1867	1567	1815	4130	1814	1742
c, Capacity [veh/h]	2642	880	350	350	294	362	2910	96	92
d1, Uniform Delay [s]	53.81	52.15	89.36	89.36	75.04	82.37	19.79	99.58	99.61
k, delay calibration	0.50	0.50	0.46	0.46	0.04	0.28	0.50	0.04	0.04
l, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	21.74	23.79	46.47	46.46	0.11	6.90	1.72	0.31	0.34
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

**Lane Group Results**

X, volume / capacity	1.02	0.97	1.00	1.00	0.18	0.72	0.74	0.17	0.18
d, Delay for Lane Group [s/veh]	75.55	75.93	135.83	135.81	75.14	89.27	21.51	99.89	99.95
Lane Group LOS	F	E	F	F	E	F	C	F	F
Critical Lane Group	Yes	No	Yes	No	No	No	Yes	No	Yes
50th-Percentile Queue Length [veh/ln]	53.91	51.43	24.68	24.69	2.52	14.79	22.88	0.93	0.92
50th-Percentile Queue Length [ft/ln]	1347.70	1285.79	616.97	617.19	63.05	369.86	572.05	23.13	23.09
95th-Percentile Queue Length [veh/ln]	66.89	63.19	32.84	32.85	4.54	21.10	30.73	1.67	1.66
95th-Percentile Queue Length [ft/ln]	1672.36	1579.83	820.94	821.19	113.49	527.56	768.17	41.64	41.56

**Movement, Approach, & Intersection Results**

d_M, Delay for Movement [s/veh]	75.55	75.93	75.93	135.83	135.82	75.14	89.27	89.27	21.51	99.89	99.92	99.95
Movement LOS	F	E	E	F	F	E	F	F	C	F	F	F
d_A, Approach Delay [s/veh]	75.64			131.63			28.87			99.92		
Approach LOS	E			F			C			F		
d_I, Intersection Delay [s/veh]	65.28											
Intersection LOS	E											
Intersection V/C	0.981											

**Emissions**

Vehicle Miles Traveled [mph]	437.94	139.13	39.75	39.77	5.90	13.02	106.75	0.60	0.60
Stops [stops/h]	2646.43	841.62	403.84	403.98	41.27	242.09	1123.31	15.14	15.11
Fuel consumption [US gal/h]	73.92	23.56	13.55	13.56	1.27	6.63	20.01	0.44	0.44
CO [g/h]	5167.29	1646.57	947.29	947.59	88.48	463.59	1398.45	31.04	30.97
NOx [g/h]	1005.37	320.36	184.31	184.37	17.22	90.20	272.09	6.04	6.03
VOC [g/h]	1197.57	381.61	219.54	219.61	20.51	107.44	324.10	7.19	7.18

**Other Modes**

g_Walk,mi, Effective Walk Time [s]	11.9	8.0	8.0	8.0
M_corner, Corner Circulation Area [ft <sup>2</sup> /ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft <sup>2</sup> /ped]	0.00	0.00	0.00	2112.60
d_p, Pedestrian Delay [s]	98.42	102.14	102.14	102.14
I_p,int, Pedestrian LOS Score for Intersectio	3.525	2.942	3.384	2.003
Crosswalk LOS	D	C	C	B
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	962	348	108	325
d_b, Bicycle Delay [s]	29.77	75.18	98.52	77.11
I_b,int, Bicycle LOS Score for Intersection	7.397	2.338	5.538	1.587
Bicycle LOS	F	B	F	A

**Sequence**

Ring 1	2	1	4	3	-	-	-	-	-	-	-	-	-	-	-
Ring 2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-





HEXAGON TRANSPORTATION CONSULTANTS, INC.

# Transportation Demand Management Plan

3705 Haven Avenue Residential Development in Menlo Park

Prepared for:

**March Capital Management**

July 23, 2024



**Hexagon Transportation Consultants, Inc.**

Hexagon Office: 100 Century Center Court, Suite 501

San Jose, CA 95112

Hexagon Job Number: 22OZ07

Phone: 408.971.6100

Document Name: 3705 Haven Avenue TDM Plan.docx

**San Jose · Gilroy · Pleasanton**

[www.hextrans.com](http://www.hextrans.com)

Areawide Circulation Plans Corridor Studies Pavement Delineation Plans Traffic Handling Plans Impact Fees Interchange Analysis Parking Transportation Planning Traffic Calming Traffic Control Plans Traffic Simulation Traffic Impact Analysis Traffic Signal Design Travel Demand Forecasting

## Table of Contents

---

1. Introduction .....	1
2. Transportation Facilities and Services .....	5
3. Proposed TDM Measures .....	12
4. TDM Implementation, Monitoring, and Reporting .....	18

## List of Tables

Table 1 Trip Generation Estimates for the Residential Development at 3705 Haven Avenue.....	4
Table 2 Recommended TDM Measures .....	13

## List of Figures

Figure 1 Site Location and Surrounding Area .....	2
Figure 2 Site Plan.....	3
Figure 3 Existing Transit Services.....	8
Figure 4 Existing and Proposed Bicycle Facilities.....	10

# 1. Introduction

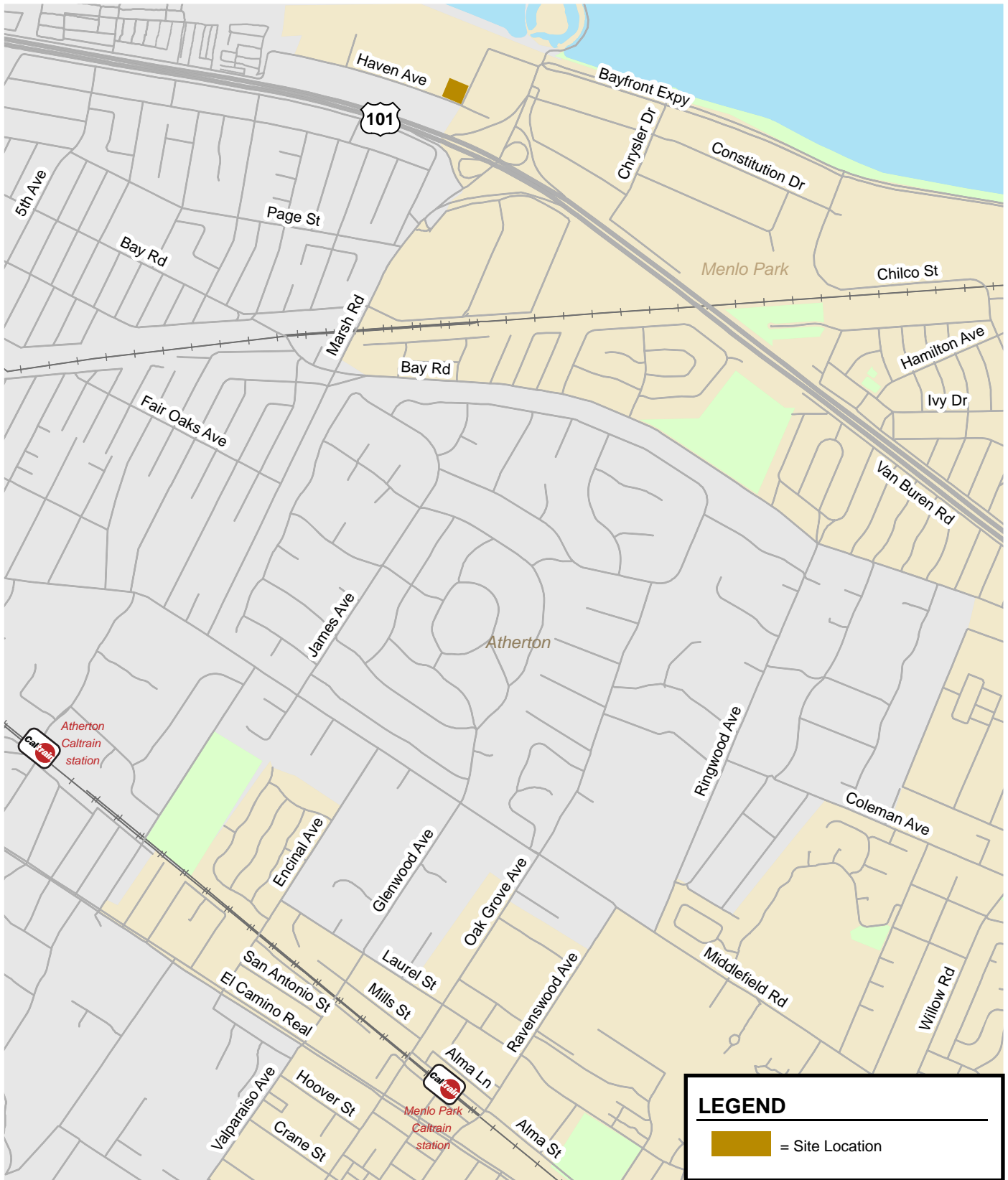
---

Transportation Demand Management (TDM) is a combination of services, incentives, facilities, and actions that reduce single-occupant vehicle (SOV) trips to help relieve traffic congestion, parking demand, and air pollution problems. The purpose of TDM is to promote more efficient utilization of existing transportation facilities, and to ensure that new developments are designed to maximize the potential for sustainable transportation usage. This Plan has been prepared for the proposed residential development at 3705 Haven Avenue in Menlo Park, California. In order to propose effective and appropriate TDM measures, this Plan has been developed based on the project's size, location, and land use. This plan has been developed to satisfy Section 16.45.090 of the City of Menlo Park Municipal Code, which requires a TDM plan to be prepared with the goal of achieving at least a 20 percent reduction below standard generation rates for uses on the project site. City staff has indicated that the City's TDM ordinance is anticipated to be revised later in 2024 to align with the C/CAG's TDM requirements. The City/County Association of Governments (C/CAG) adopted updated TDM policies (January 1, 2022) that require the project (qualifying as "large residential project") to implement TDM measures that can achieve 35% trip reduction based on its C/CAG checklist.

## Project Description

The project is located at 3705 Haven Avenue in the R-MU-B (Residential Mixed Use-Bonus) zoning district in Menlo Park, California (see Figure 1). The project proposes to construct a eight-level apartment complex with 112 apartment units and a leasing office on-site. Parking would also be provided on-site. Access to the site would be provided via driveways on Haven Avenue (see Figure 2).

The project would have two floors of garage parking. The final number of parking spaces has not been determined but will generally be between 99 to 111 parking spaces. The project would also have secured bike parking on the first floor. A total of 185 bike parking spaces (17 short-term parking spaces and 168 long-term parking spaces) will be provided for the project.



**Figure 1**  
**Site Location and Surrounding Area**

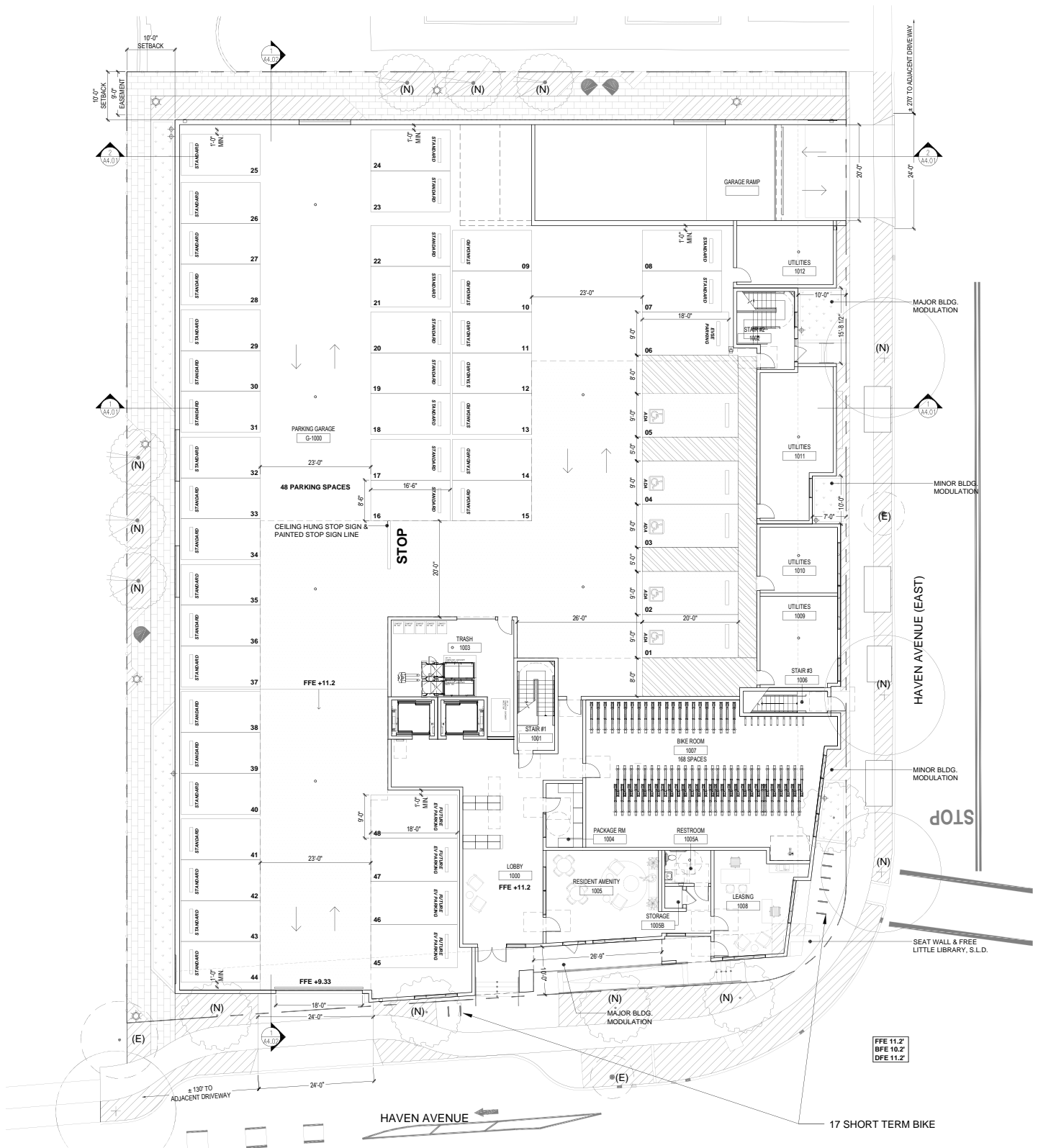


Figure 2  
Site Plan



## Menlo Park TDM Requirement for R-MU Residential Mixed-Use District

The City of Menlo Park requires that all new projects involving a change of use of 10,000 or more square feet of gross floor area in the Residential Mixed-use (R-MU) zoning district prepare TDM plans that will reduce vehicle trips by 20 percent from standard trip generation rates (Menlo Park Municipal Code Section 16.45.090). City staff has indicated that the City’s TDM ordinance is anticipated to be revised later in 2024 to align with the C/CAG’s TDM requirements. The City/County Association of Governments (C/CAG) adopted updated TDM policies (January 1, 2022) that require the project (qualifying as “large residential project”) to implement TDM measures that can achieve 35% trip reduction based on its C/CAG checklist. This plan has been prepared with the goal of achieving at least a 35 percent reduction in daily trips.

The trip generation rates published in the Institute of Transportation Engineers’ (ITE) manual entitled *Trip Generation, 11<sup>th</sup> Edition (2021)* for Multifamily Mid-Rise Housing Not Close to Rail Transit in a General Urban/Suburban area (Land Use 221) were used for this study. Multifamily Mid-Rise Housing includes housing developments between 4 to 10 floors. Before TDM reductions, the proposed project is estimated to generate a total of 508 daily trips with 41 trips during the AM peak hour and 44 trips during the PM peak hour.

As shown in Table 1, in order to meet the City’s 35 percent reduction requirement, at least 178 daily trips will need to be eliminated through the implementation of the various TDM measures. Stated conversely, the project will be required to generate no more than 330 daily trips.

**Table 1**  
**Trip Generation Estimates for the Residential Development at 3705 Haven Avenue**

Land Use	Size	Unit	Daily		AM Peak Hour			PM Peak Hour						
			Rate	Trips	Rate	In %	In	Out	Total	Rate	In %	In	Out	Total
<b>Proposed Uses</b>														
Multi-Family Apartments <sup>1</sup>	112	DU	4.54	508	0.37	23%	9	32	41	0.39	61%	27	17	44
35% Required TDM Reduction				(178)			(3)	(11)	(14)			(9)	(6)	(15)
<b>Net Project Trip Target</b>				<b>330</b>			<b>6</b>	<b>21</b>	<b>27</b>			<b>18</b>	<b>11</b>	<b>29</b>
<b>Notes:</b>														
<sup>1</sup> Multi-Family Housing (Mid-Rise) Not Close to Rail Transit (Land Use 221) average rates published in ITE’s <i>Trip Generation Manual, 11th Edition</i> .														

## 2. Transportation Facilities and Services

---

Transportation facilities and services that support sustainable modes of transportation include commuter rail, buses and shuttle buses, high-occupancy vehicle (HOV) lanes, bicycle facilities, and pedestrian facilities. This chapter describes existing facilities and services near the project site that will support the TDM measures contained in this plan. The existing transit service in the project vicinity is described below and shown on Figure 3. Information on nearby roadways is also included in order to provide a more comprehensive description of the nearby transportation network.

### Roadway Network

Regional access to the project site is provided via US 101 and State Route 84.

**US 101** extends to the northwest through San Francisco and to the southeast through San Jose. Within Menlo Park, this freeway has three mixed-flow travel lanes, one express lane, and one auxiliary lane in each direction. Access to and from the project study area is provided via a full-access interchange at Marsh Road.

**Bayfront Expressway (SR 84)** is a six-lane expressway that extends along the northern edge of Menlo Park. SR 84 extends eastward across the Dumbarton Bridge into Alameda County and westward through San Mateo County. Bayfront Expressway provides access to the project site via Haven Avenue.

Local access to the site is provided via Marsh Road and Haven Avenue. These roadways are described below and shown in Figure 1 in the previous chapter.

**Marsh Road** extends from SR 84/Bayshore Expressway in the north to Middlefield Road in the south. In the project area, Marsh Road is a four-lane thoroughfare between Scott Drive and Bayfront Expressway. The posted speed limit in the project area is 35 mph. Sidewalks are present on both sides of Marsh Road between Bayfront Expressway and Scott Drive. Marsh Road becomes a mixed-use collector between Scott Drive and Bay Road. A Class III bike route is designated between Bay Road and Scott Drive. On-street parking is permitted on the west side of Marsh Road between Fair Oaks Avenue and Rolison Road. Access to the project site is provided via Haven Avenue.

**Haven Avenue** is a two-lane local roadway that includes a sharp turn near its intersection with Marsh Road. The speed limit on Haven Avenue is 25 mph. Sidewalks are present on both sides of Haven Avenue. There are Class II bike lanes both sides on Haven Avenue west of the project site. Haven Avenue provides direct access to the project site.

## Caltrain Commuter Rail

Caltrain provides commuter rail service between San Francisco and San Jose, with limited service to Gilroy during commute hours. The closest Caltrain station to the project site is the Menlo Park Station, located on Merrill Street between Oak Grove Avenue and Ravenswood Avenue, near El Camino Real.



The Menlo Park Station is located 3.1 miles south from the project site. This is an approximately 16-minute bike ride. Also, the Marsh Road Shuttle (described below) currently offers free shuttle service between the project site and the Menlo Park Caltrain Station with timed connections to trains during the commute peak periods. The station has bike racks, bike lockers, and two surface parking lots.

The Menlo Park Station accommodates local-stop and limited-stop trains. During the morning commute period of 6:00 to 9:30 AM, the Menlo Park Station has three northbound limited-stop trains and three local-stop trains with headways of 25 to 30 minutes. Four southbound limited-stop trains and three local-stop trains serve the Menlo Park Station in the AM peak hour with headways between 20 to 35 minutes.

During the PM commute period between 3:30 and 7:30 PM, the station has eight northbound trains (four limited-stop and four local-stop trains) with headways of 25 and 35 minutes. Eight southbound trains (four limited-stop and four local-stop trains) with headways between 20 and 40 minutes serve the Menlo Park Station during the PM peak hour.

## Marsh Road Shuttle

Primary access to the project site from the Menlo Park Caltrain station is provided by the Marsh Road Shuttle, which is a free shuttle service with timed connections to many of the AM and PM peak period trains in both the northbound and southbound directions. The shuttle operates in a loop through the Marsh Road business park. There are two bus stops near the project site located at 1) 3641 Haven (Elan Menlo Park); and 2) 3760 Haven (Quicken). Both stops are within walking distance of the project site. Based on the schedule, the shuttle takes 28 to 30 minutes to travel from the Caltrain station to these stops. In the afternoon, the shuttle takes about 20 to 22 minutes to travel from the stops to the Caltrain station.

The Marsh Road Shuttle is funded jointly by the City of Menlo Park, the Bay Area Air Quality Management District (BAAQMD), and the San Mateo County Transportation Authority. The shuttle is free and open to everyone.

## SamTrans Bus Service

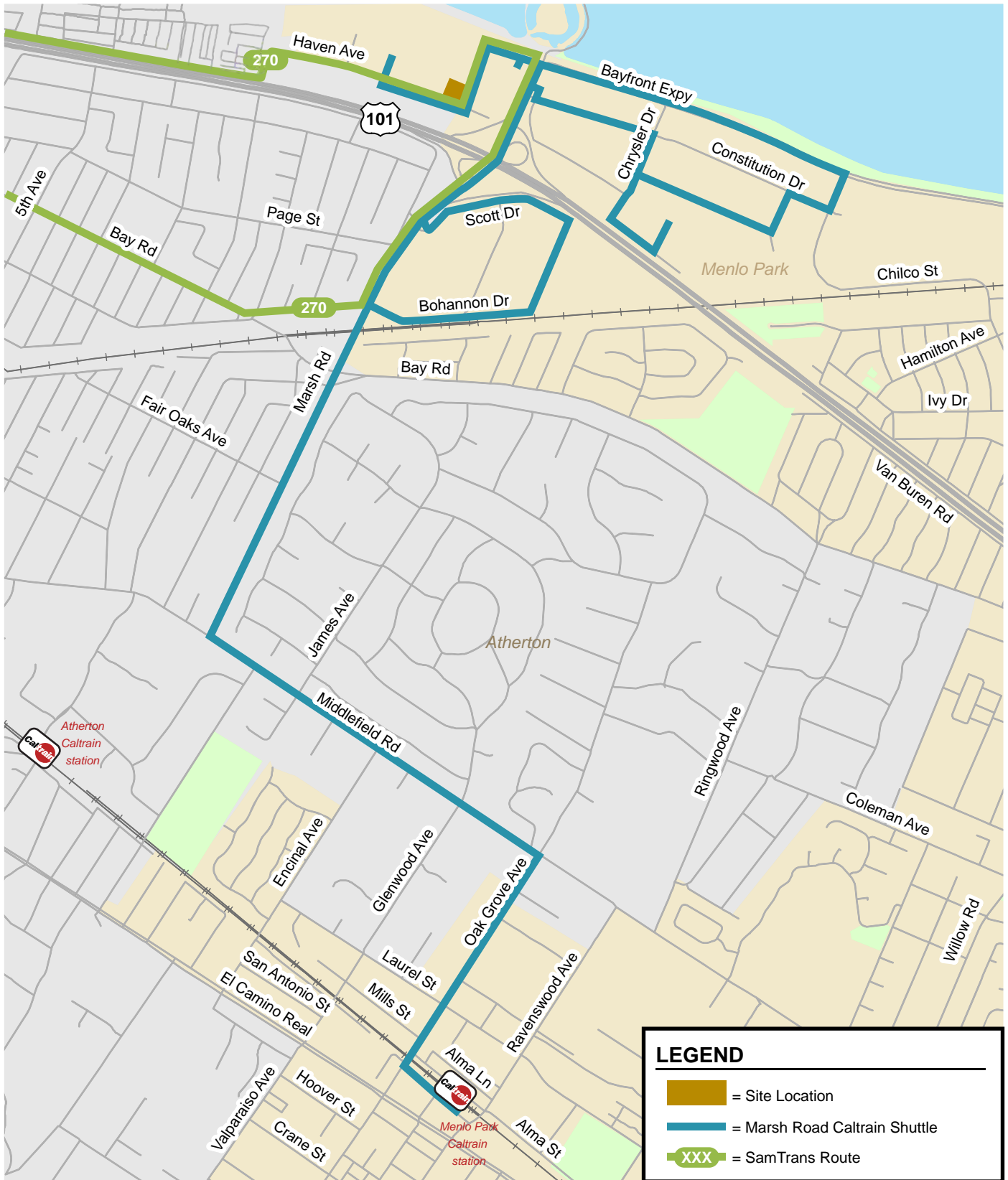
SamTrans Route 270, the Redwood City Loop, provides service to the Marsh Road/Bayfront Expressway office area. The closest bus stops are located on Haven Avenue, approximately 420 feet north from the project site and 330 feet west from the project site. Route 270 operates in a loop between the Redwood City Caltrain Station (Baby Bullet service at this station), Redwood Plaza/City Hall, Kaiser Hospital, southbound along Broadway and Bay Road, across US 101 to the Marsh Road business park area, northbound along Bayshore Road, back across US 101 on Maple Street, and then returning to the Redwood City Caltrain Station. Route 270 operates with 60-minute headways on weekdays and Saturdays.






## Express Lanes

Express lanes are present on US 101 within the vicinity of City of Menlo Park. The express lane system on US 101 will eventually stretch from Morgan Hill thru South San Francisco in both directions of US 101. Express lanes will allow 3+ person carpools, vanpools, buses and motorcycles to use the facility for free with a properly set FasTrak Flex or FasTrak CAV (clean air vehicle) toll tag. Solo drivers may use the express lane facility by paying the full price. Solo CAV, and 2-person carpools may use the facility by paying 50% of the Solo driver's fee. Express lanes are in operation Monday through Friday from 5 AM until 8 PM. Outside these hours, all vehicles may use the facility for free.

Express lanes would generally encourage commuters to seek carpool alternatives as they may use the relatively faster express lane (compared to general purpose lanes) for free.



**LEGEND**

-  = Site Location
-  = Marsh Road Caltrain Shuttle
-  = SamTrans Route

**Figure 3**  
Existing Transit Services

## Bicycle Facilities

Bicycle facilities are an important component of the City of Menlo Park's transportation network. The City's bikeways are classified as Class I, Class II, or Class III facilities, as follows:

- Class I Bicycle Path – bike paths within exclusive right-of-way, sometimes shared with pedestrians
- Class II Bicycle Lane – bike lanes for bicycle use only that are striped within the paved area of roadways
- Class III Bicycle Route – bike routes are shared with motor vehicles on the street. Class III bikeways may also be defined by a wide curb lane and/or use of a shared use arrow stencil marking on the pavement, known as a “sharrow”



### **Bike Paths:**

- Recreational trails at Bedwell Bayfront Park, Facebook along Hacker Way, and north of Bayfront Expressway

### **Bike Lanes:**

- Haven Avenue between Sleepy Hollow Ln and Haven Court
- Chrysler Drive between Independence Drive and Bayfront Expressway
- Constitution Drive between Independence Drive and Chilco Street
- Chilco Street between Constitution Drive and Bayfront Expressway
- Willow Road between Bayfront Expressway and Bay Road south of US 101
- Jefferson Drive between Chrysler Drive and Constitution Drive

### **Bike Routes:**

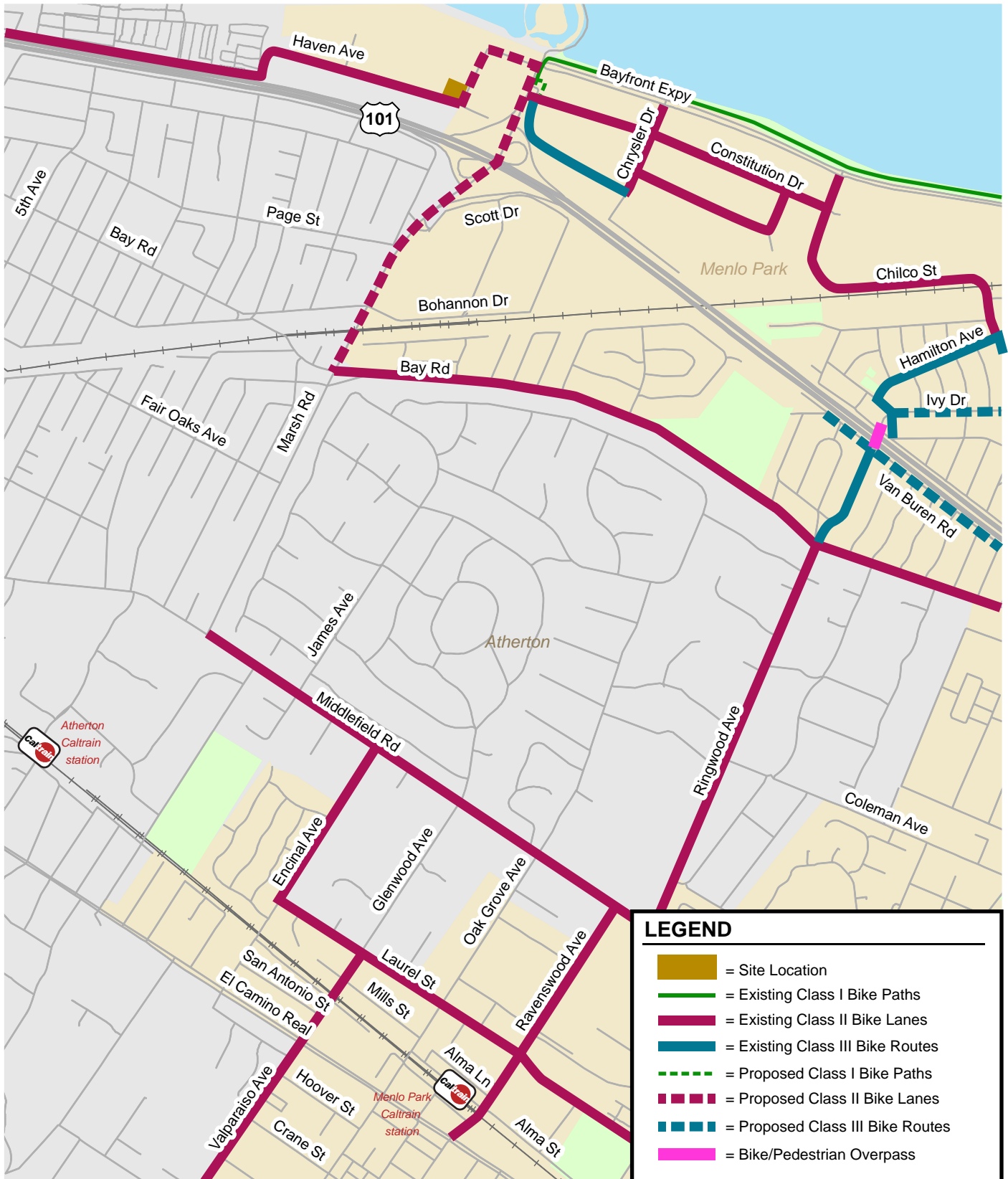
- Independence Drive between Constitution Drive and Chrysler Drive

The following improvements to the City's bicycle facilities have been proposed in its Transportation Master Plan:

- Class II bike lanes are planned for Haven Avenue between Marsh Road to Haven Court.
- A new bicycle and pedestrian bridge over the Atherton Channel is planned to extend the bike lanes and sidewalks on Haven Avenue to Marsh Road, as part of the Haven Avenue Streetscape Project. The Haven Avenue Streetscape Project connects Menlo Park, San Mateo County, and Redwood City residents and employees.

Bike lanes on Marsh Road are identified as long-term projects. The Marsh Road bike lanes are also identified as proposed improvements in the San Mateo County Comprehensive Bicycle and Pedestrian Plan. It is not known when these two proposed improvements will be constructed.





**Figure 4**  
Existing and Proposed Bicycle Facilities

## Pedestrian Facilities

Pedestrian facilities consist of sidewalks, crosswalks, and pedestrian signals at signalized intersections. Roadways providing pedestrian access to the project site include Haven Avenue, Constitution Drive and Marsh Road.

Crosswalks with pedestrian signal heads and push buttons are found on one or more approaches at the signalized intersection of Marsh Road and Bayfront Expressway/Haven Avenue. The intersection of Marsh Road and Bayfront Expressway/Haven Avenue has crosswalks on north, west and south approaches. The intersection of Marsh Road and Constitution Drive has a crosswalk on the east approach.

As described in the preceding section on bicycle facilities, the Haven Avenue Streetscape Project also includes pedestrian crossing improvements to the Marsh Road-Haven Avenue-Bayfront Expressway intersection, which will improve the overall pedestrian network in the area east of US 101. The improvements include widened sidewalks, replacement of curb ramps to comply with current ADA standards, realigning the existing crosswalk on the northwest (Haven Avenue) leg of the intersection, and improving the existing median to provide a crossing refuge island.





### 3.

## Proposed TDM Measures

---

This chapter describes Transportation Demand Management (TDM) measures that will be implemented by the proposed project. This plan has been developed to meet the City's anticipated 35 percent trip reduction requirement .

The TDM measures to be implemented by the project include services, incentives, actions, and planning and design features related to the attributes of the site design and site amenities. Such design features encourage walking, biking, and use of transit. Some of the recommended TDM measures are programs that will be created and implemented by the building manager. Table 2 presents a summary of the TDM measures in this plan. An indication of who will have primary responsibility for implementing each measure is also shown on the table.

### TDM Administration and Promotion

#### Transportation Coordinator

A Transportation Coordinator will be assigned to provide information regarding alternative modes of transportation to residents of the project. The Transportation Coordinator will be designated by the building developer, the property manager, or any subsequent building owner.

The Transportation Coordinator's responsibilities will include updating information on the online information board/kiosk, providing trip planning assistance and/or ride-matching assistance to residents who are considering an alternative mode for their commute, and managing the annual surveys. The Transportation Coordinator will maintain a supply of up-to-date transit schedules and route maps for SamTrans and Caltrain and be knowledgeable enough to answer residents' TDM program-related questions. The Transportation Coordinator will distribute a carpool/vanpool matching application to all residents as part of the New Resident Information packets. The application will match residents who live at the project site who may be able to carpool or vanpool together.

**Table 2  
Recommended TDM Measures**

TDM Measure	Implementation Responsibility	C/CAG TDM Checklist Percentage	Implementation Stage			
			Existing Resource	Part of Building Construction	Occupancy Permit Issued	Ongoing After Building Occupancy
<b>Program Administration</b>						
Designating a Transportation Coordinator	Property Manager	0.5%			X	
Online Kiosk/TDM Information Board <sup>1</sup>	Transportation Coordinator	n/a			X	
Transportation Information Packets	Transportation Coordinator	1%			X	
Active Participation in Commute.org	Transportation Coordinator	5%			X	
Trip Planning Assistance	Transportation Coordinator	n/a			X	
<b>Program Monitoring and Reporting</b>						
Annual Resident Surveys	Transportation Coordinator	n/a				X
Target Drive-alone Mode Share Monitoring	Transportation Coordinator	n/a				X
<b>Carpool and Vanpool Programs</b>						
511 Ridematching Service	Available to public	2%	X			
Incentives for New Carpools/Vanpools	Available to public		X			
<b>Bicycle Facilities</b>						
Bicycle Parking	Building developer	1%		X		
Bicycle Repair Station	Building developer	0.5%		X		
Resources (bikeway maps & other info)	Transportation Coordinator	n/a	X			
<b>Pedestrian Facilities</b>						
Design Features Enhancing Pedestrian Experience	Building developer	1%		X		
<b>Transit Subsidies</b>						
Monthly Reimbursement of up to \$19.68 per resident	Transportation Coordinator	10%				X
<b>Other On-Site Amenities</b>						
Gym, Pool, Clubhouse	Building developer	3%		X		
High-Bandwidth Internet Connection	Building developer	n/a		X		
Delivery Amenities	Building developer	1%		X		
Business Center	Building developer	n/a		X		
<b>Parking</b>						
Unbundled Parking	Building developer	25%			X	
Reduced Parking	Building developer	10%		X		
<b>Notes:</b>						
1. The building developer will have initial responsibility for creating an online kiosk and appointing the Transportation Coordinator. After the building is occupied, the Transportation Coordinator will have ongoing responsibility for the online kiosk and various program elements.						

## Online Transportation Kiosk

The Transportation Coordinator will establish an “online kiosk” with transportation information that residents could access from their smart phones, their homes, or anywhere else. This online kiosk can be available on the project website.

By allowing someone to have all the information about transportation alternatives and TDM programs available to them in a single online location, people will be more likely to refer to this information from home. The project developer or property manager will have responsibility for setting up and maintaining this online information center. This website will include site-specific information about all the measures, services, and facilities discussed in this plan. In addition, this online information center will include:

- A summary of SamTrans, Caltrain, and nearby shuttle services and links to further information about their routes and schedules.
- Information about ride matching services (511.org and on-site ride matching) and the incentive programs available to carpools and vanpools.
- Information about services such as Uber, Lyft, and other on-demand transportation services.
- A local bikeways map and bicycling resources on 511.org.
- A link to the many other resources available in the Bay Area, such as the 511 Carpool Calculator, the 511 Transit Trip Planner, real-time traffic conditions, etc.

## Resident Orientation (Welcome) Packet

New residents will be provided transportation information packets. This packet will include information about transit maps/schedules (Caltrain, SamTrans, and shuttle services), location of bus stops, bike maps, ride matching services, transit planning resources, and bicycle parking on site. Also included in the packet will be information regarding how to contact the Transportation Coordinator, who can provide information regarding alternative modes of transportation to residents.

The resident orientation (welcome) packet will provide a quick, easy-to-read announcement of the most important features of the TDM program for residents to know about immediately and a message that the building values alternative modes of transportation and takes their commitment to supporting alternative transportation options seriously. For example, it could include a flyer announcing some highlights of the TDM program and where to find more information online.

## Bicycle and Pedestrian Amenities

### Bicycle Parking

Providing secure bicycle parking encourages bicycle commuting. A total of 185 bike parking spaces (168 long-term parking space and 17 short-term parking spaces) will be provided for the proposed project. The Transportation Coordinator will monitor the usage of the bicycle parking facilities and will also tabulate the mode share for bicycles based on survey results.

### Bicycle Repair Station

In addition to bicycle parking, the project includes a bike repair station within the bike storage room, which will provide a singular point where bicyclists can share information on routes, commuting, and maintenance practices to help generate a stronger community that is more engaged in bicycling as a mode of transportation.

## **Bicycle Resources**

The following resources are available to bicycle commuters through 511.org. These resources will be noted on the project's online information center, in order to make residents aware of them.

- Free Bike Buddy matching
- Bicycle maps
- Bicycle safety tips
- Information about taking bikes on public transit
- Location and use of bike parking at transit stations
- Information on Bike to Work Day
- Tips on selecting a bike, commute gear, and clothing
- Links to bicycle organizations

## **Pedestrian Facilities**

The project proposes to maintain the existing pedestrian facilities along Haven Avenue. The project proposes to include additional landscaping, including trees along its building frontages to improve the pedestrian walking experience. The project also proposes two building entrances, one near the northeast corner of the project and one along the south edge of the project. The project also proposes its lobby, leasing office and short-term bike racks along the south edge of the project. These attributes would promote the pedestrian walking experience as well.

## **Onsite Amenities**

### **Gym, Clubhouse, Pool, and Spa**

The project will include a pool, a gym, and a clubhouse on site for use by residents for socializing and recreation. These amenities will encourage residents to stay on site for these services, reducing the number of trips that are required to be made.

### **High-Bandwidth Internet Connection, Business Center**

The residential units will include high-bandwidth internet connections to facilitate telecommunicating. Access to high-bandwidth internet connections will allow residents to work from home and therefore reduce the number of commute trips to and from project site. In addition, the proposed on-site business center will provide residents an alternative location to work without going to office.

### **Delivery Amenities**

The project will include a package room on the ground floor so residents can conveniently retrieve their delivery packages on site, rather than requiring residents to retrieve packages from an offsite facility (i.e. UPS store or Amazon lockers).

## Carpool and Vanpool Programs

### 511 Ride Matching Assistance

#### 511 RideMatch

The 511 RideMatch service provides an interactive, on-demand system that helps commuters find carpools, vanpools or bicycle partners. The Transportation Coordinator, in conjunction with the future building manager contacts, will promote the on-line 511 service to residents. This free car and vanpool ride matching service helps commuters find others with similar routes and travel patterns with whom they may share a ride. Registered users are provided with a list of other commuters near their employment or residential ZIP code along with the closest cross street, email, phone number, and hours they are available to commute to and from work. Participants are then able to select and contact others with whom they wish to commute. The service also provides a list of existing car and vanpools in their residential area that may have vacancies.



### Carpool/Vanpool Incentives

#### The Star Store

The Peninsula Traffic Congestion Relief Alliance has established a program called the Star Store. Residents and commuters who travel to, from, or through San Mateo County can earn points by logging their commutes in the STAR platform. Every day that someone commutes by an alternative to driving alone, they earn a point. Users collect points and then redeem them for rewards.

#### First Five Rides Free on 511

Currently, the 511 Carpool Program is offering new riders on carpool apps Scoop or Waze Carpool five free rides. Users can download the apps, set up an account, enter their schedule and get their first five rides free.

#### Vanpool Formation Incentive

The 511 Regional Rideshare Program provides up to \$500 in gas cards to new vanpools that meet certain eligibility requirements and complete three to six consecutive months of operation.



#### Vanpool Seat Subsidy

The 511 Regional Rideshare Program also offers a vanpool seat subsidy in the form of gas cards. The seat subsidy will provide \$100 per month, with a limit of three months per van during the program year, to help cover the fare of a lost participant. The gas cards will be offered to eligible vans on a first-come, first-served basis until the funds are exhausted.

#### Vanpool Participant Rebates

The Peninsula Traffic Congestion Relief Alliance also offers an incentive to commuters to try vanpooling. The Alliance will pay half of the cost of a new vanpool participant's seat, up to \$100 per month, for the first three months in the van. New vanpools that operate for at least six months can receive a one-time rebate of \$500, paid to the vanpool driver (rotating drivers may share the bonus).

## Transit Subsidies

Transit subsidies are an extremely effective means of encouraging residents to use transit rather than driving. There are a number of ways that transit subsidies can be implemented. In coordination with City staff, the project will provide transit reimbursement of up to \$19.68 (30% of a monthly SamTrans pass of \$65.6) on a monthly basis per resident once residents provide transit receipts.

## Parking

### Unbundled Parking

To further encourage non-auto transportation methods and to reduce costs for residents, onsite residential parking for the apartment building will be unbundled from each living unit. This will allow residents without cars to rent a unit without having to pay for a parking spot. Parking spaces will be added to leases only for residents who desire parking. Unbundling of parking encourages residents to forego a second car or to have no car at all.

### Limited Parking Supply

The project would have two floors of garage parking. The final number of parking spaces has not been determined but will generally be between 99 to 111 parking spaces. The proposed parking ratio will be less than the City's requirement of 1 space per unit. There are also very limited on-street parking available within the project vicinity. Limited parking supply would also attract residents who do not own cars or own only one vehicle.

## C/CAG TDM Requirement

The City/County Association of Governments (C/CAG) for San Mateo County has established trip reduction requirements for new development within the county. C/CAG categorizes new developments as small projects and large projects. Multi-family residential projects generating more than 500 average daily trips are considered to be large projects. The recommended vehicle trip reduction target for large multi-family residential is 35 percent. As shown in Table 1 above, the project is estimated to generate 508 daily trips, and would need to comply with C/CAG's "Residential Land Use: Large Project" category.

To accomplish the reduction goal, C/CAG provides a list of potential TDM measures, some of which are required and some of which are optional. Each measure has an associated point value and reduction percentage. Based on the updated C/CAG TDM policy, the project must first fulfill all required measures prior to selecting a sufficient number of additional recommended measures to achieve the minimum 35 percent trip reduction.

As shown in the Appendix, the C/CAG checklist estimated that the project would achieve a 60% reduction, achieving the 35% trip reduction goal for "Residential Land Use: Large Project" category. It should be noted that not all recommended measures will necessarily achieve the estimated percentage reduction as calculated using the C/CAG TDM checklist.

## 4. TDM Implementation, Monitoring, and Reporting

---

This chapter outlines the required implementation, monitoring, and reporting for the proposed project's TDM Plan.

### Annual Commute Surveys

The purpose of the TDM Plan is to reduce daily vehicle trips by at least 35 percent, thereby lessening parking issues, traffic congestion, and vehicle emissions associated with the proposed project. Regular monitoring will ensure that the implemented TDM measures are effective and achieve that standard. The program will be evaluated annually to assess the actual level of trip reduction achieved at the site and to identify any adjustments to the program necessary to ensure the TDM measures are successful.

Annual commute surveys will be administered by the transportation coordinator to measure the number of residents commuting by alternative modes and whether they are aware of the services and programs that are available to them. Residents who do not respond to the survey will be assumed to be driving alone. In addition to obtaining quantitative data on the mode split, the survey will provide qualitative data regarding resident perceptions of the alternative transportation programs. The survey results will measure the relative effectiveness of individual program components relative to other components and facilitate the design of possible program enhancements. Along with collecting information on mode split, the survey can gather information on use of the bike storage, use of the online kiosk, and walking trips made to nearby commercial uses. The transportation coordinator will be responsible for administering the survey, compiling the results, and communicating the results to the City.



## Annual Driveway Counts

In order to evaluate whether or not the project has met the 35 percent daily vehicle trip reduction requirement, annual driveway counts will be conducted. A count of the number of vehicles entering and exiting the project's driveways on a typical weekday will be conducted annually by an independent third party to determine the number of vehicle trips being generated by the project. The counts will be conducted at the site's driveway on a weekday that is not disclosed in advance. All vehicles entering and exiting the project driveways will be counted.

The driveway counts will be used to determine the actual daily trip generation of the project. The Transportation Coordinator will provide the results of the driveway counts to the City of Menlo Park, along with a statement as to whether the 35 percent trip reduction goal was met.

## Annual Reporting to City

The TDM ordinance for the residential mixed-use (R-MUS) district states that the required trip reduction will be achieved "over the life of the development, as evidenced by annual reporting provided to the satisfaction of the City's Transportation Manager." The Transportation Coordinator will submit to the City of Menlo Park annual documentation to substantiate implementation of the TDM plan elements, the results of the resident survey, and the results of the driveway counts. If the 35 percent peak-hour trip reduction requirement has not been met, then the report will state what additional measures (i.e. providing transit subsidies) will be implemented in the coming year in order to achieve the City's requirement.

## Active Participation Certification with Commute.Org

The project applicant will be required to achieve "Active Participation" status with Commute.org. The latest requirements to achieve this status can be found online at <https://commute.org/resources/developers/>. Currently, the project applicant must complete the following steps:

- Register with Commute.org and provide pertinent information, including the TDM contact person.
- Consult with Commute.org staff to verify the certification process and requirements for active transportation.
- Submit a signed Letter of Commitment confirming that the developer and/or their successor(s) will be active participants with Commute.org.
- Provide a copy of the C/CAG TDM Policy Checklist.
- Receive a Pre-Certification Letter from Commute.org that confirms registration and commitment to active participation.
- Achieve certification status within six months of receiving Certificate of Occupancy.
- Maintain annual certification status with Commute.org by complying with the requirements for active participation



## 5. Conclusion

---

The City of Menlo Park requires that all new projects involving a change of use of 10,000 or more square feet of gross floor area in the Residential Mixed-use (R-MU) zoning district prepare TDM plans that will reduce vehicle trips by 20 percent from standard trip generation rates (Menlo Park Municipal Code Section 16.45.090). City staff has indicated that the City's TDM ordinance is anticipated to be revised later in 2024 to align with the C/CAG's TDM requirements. The City/County Association of Governments (C/CAG) adopted updated TDM policies (January 1, 2022) that require the project (qualifying as "large residential project") to implement TDM measures that can achieve 35% trip reduction based on its C/CAG checklist. This plan has been prepared with the goal of achieving at least a 35 percent reduction in daily trips.

As shown in the Appendix, the C/CAG checklist estimated that the project would achieve a 60% reduction, achieving the 35% trip reduction goal for "Residential Land Use: Large Project" category. It should be noted that not all recommended measures will necessarily achieve the estimated percentage reduction as calculated using the C/CAG TDM checklist.

Therefore, by fully implementing all TDM measures included in this TDM Plan, the project would be in compliance with the City's TDM ordinance.

**3705 Haven Avenue Residential Development  
in Menlo Park**

**Technical Appendices**

500+ ADT; ~50+ Units

**About this Form**

Any new development project anticipated to generate at least 100 average daily trips is subject to the C/CAG TDM Policy and must complete a TDM Checklist and implement associated measures to mitigate traffic impacts. [Read more at ccagtdm.org](http://ccagtdm.org)

**Questions?**  
[support@ccagtdm.org](mailto:support@ccagtdm.org)

**A Applicant Information**

Project Address		Contact First and Last Name
<input type="text"/>		<input type="text"/>
Parcel Number	Application Date	Contact Phone Address
<input type="text"/>	D D M M Y Y Y Y	<input type="text"/>
Project Jurisdiction		Contact Email Address
<input type="text"/>		<input type="text"/>

**B Trip Reduction Target**

Select one option based on your project's distance to high quality transit

[Read more about high quality transit at ccagtdm.org/high-quality-transit](http://ccagtdm.org/high-quality-transit)

Identify your project type

<input type="checkbox"/> <b>TOD</b> Less than 1/2-mile from high quality transit service <b>25% Trip Reduction Required</b>	<input type="checkbox"/> <b>Transit Proximate</b> 1/2 to 3 miles from high quality transit service <b>35% Trip Reduction Required</b>	<input type="checkbox"/> <b>Non-Transit Proximate</b> More than 3 miles from high quality transit service <b>35% Trip Reduction Required</b>
---	---	--

**C Required Measures**

You must select all measures that apply for your project type

[Click on each measure's title for more information](#)

Measure	Project Types	Percentage	Yes
1 <b>M2 - Orientation, Education, Promotional Programs and/or Materials</b> Offer new residents an orientation or education program or materials.	ALL	1%	<input type="checkbox"/>
2 <b>M3 - TDM Coordinator/Contact Person</b> Provide TDM coordinator/liaison for tenants. May be contracted through 3rd party provider, such as Commute.org.	ALL	0.5%	<input type="checkbox"/>
3 <b>M4 - Actively Participate in Commute.org or Transportation Management Association (TMA) Equivalent</b> Obtain certification of registration from Commute.org or equivalent TMA incorporation documents. Select only one based on Project Type	TOD & Non-transit Proximate	5%	<input type="checkbox"/>
	Transit Proximate	15%	<input type="checkbox"/>
4 <b>M6 - Transit or Ridesharing Passes/Subsidies</b> Offer tenants passes or subsidies for monthly public transit or ridesharing costs incurred, equivalent to 30% of value or \$50 - whichever is lower.	ALL	10%	<input type="checkbox"/>
5 <b>M8 - Secure Bicycle Storage</b> Comply with CalGREEN minimum bicycle parking requirements.	ALL	1%	<input type="checkbox"/>
6 <b>M9 - Design Streets to Encourage Bike/Ped Access</b> Design adjacent streets or roadways to facilitate multimodal travel.	ALL	1%	<input type="checkbox"/>
7	<b>Total from Required Measures</b> Sum percentages from each selected measure from rows 1-6		<input type="text"/> %

Form Continues on Page 2 →

**D Additional Recommended** Select enough to meet the trip reduction target from section B Click on each measure's title for more information

Measure	Project Types	Percentage	Yes
8 <b>M5 – Carpool or Vanpool Program</b> Establish carpool/vanpool program for tenants and register program with Commute.org.	ALL	2%	<input type="checkbox"/>
9 <b>M10 – Delivery Amenities</b> Offer delivery amenities, including dedicated receipt and storage areas, to reduce need for multiple trips to conduct similar business.	ALL	1%	<input type="checkbox"/>
10 <b>M11 – Family-supportive Amenities</b> On-site secure storage of personal car seats, strollers, cargo bicycles, or other large bicycles. Property owners can also provide shared building equipment, such as shopping carts or cargo bicycles for check out by residents.	ALL	3%	<input type="checkbox"/>
11 <b>M14 – Paid Parking at Market Rate</b> Offer hourly/daily parking rates proportional to monthly rate or equivalent to cost of transit fare.	ALL	25%	<input type="checkbox"/>
12 <b>M15 – Reduced Parking</b> Provide off-street parking at least 10% below locally-required minimums, or else below the locally-permitted parking maximums. Consideration may be required of potential spillover parking into surrounding areas.	ALL	10%	<input type="checkbox"/>
13 <b>M17 – Developer TDM Fee/TDM Fund</b> Voluntary impact fee payment on a per unit or square footage basis, to fund the implementation of TDM programs.	ALL	4%	<input type="checkbox"/>
14 <b>M18 – Car Share On-Site</b> Provide on-site car share or vehicle fleets.	ALL	1%	<input type="checkbox"/>
15 <b>M19 – Land Dedication or Capital Improvements for Transit</b> Contribute space on, or adjacent to, the project site for transit improvements. Select one or more	Bus Pullout Space <input type="checkbox"/> 1% Bus Shelter <input type="checkbox"/> 1% Visual/Electrical Improvements (i.e., Lighting, Signage) <input type="checkbox"/> 1% Other (i.e., Micromobility Parking Zone, TNC Loading Zone) <input type="checkbox"/> 1%	<input type="checkbox"/> % Total percentages selected	<input type="checkbox"/>
16 <b>M20 – Shuttle Program/Shuttle Consortium/Fund Transit Service</b> Establish a shuttle service to regional transit hubs or commercial centers. Shuttle service should be provided free of charge to employees and guests.	Non-transit Proximate	10%	<input type="checkbox"/>
17 <b>M21 – Bike/Scooter Share On-Site</b> Allocate space for bike/scooter share parking.	All	1%	<input type="checkbox"/>
18 <b>M22 – Active Transportation Subsidies</b> Offer biking/walking incentives to tenants, such as gift card/product raffles.	All	2%	<input type="checkbox"/>
19 <b>M23 – Gap Closure</b> Construct or enhance quality of biking and walking facilities to/from site to existing trails, bikeways, and/or adjacent streets.	All	7%	<input type="checkbox"/>
20 <b>M24 – Bike Repair Station</b> Offer on-site bike repair space/tools in visible, secure area.	All	0.5%	<input type="checkbox"/>
21 <b>M26 – Pedestrian Oriented Uses &amp; Amenities on Ground Floor</b> Provide on-site, visible amenities to tenants and guests, such as cafes, gyms, childcare, retail.	All	3%	<input type="checkbox"/>
22	<b>Total from Additional Measures</b> Sum percentages from each selected measure from rows 8 – 21		<input type="checkbox"/> %

**E Project Totals**

Percentage from Required Measures  %  
Section C Row 7

**+** Percentage from Additional Measures  %  
Section D Row 22

---

Total Percentage from all Selected Measures  %  
Sum of required and additional measures

Trip Reduction Target  %  
Copy from Section B

Total Percentage from all selected measures must be greater than or equal to Trip Reduction Target

**F Submit Checklist**

See [ccagtdm.org/submission](https://ccagtdm.org/submission) for how to submit this form.

**Questions?**

Email Us  
[support@ccagtdm.org](mailto:support@ccagtdm.org)

Visit Our Website  
[ccagtdm.org](https://ccagtdm.org)