

Environmental Quality Commission



REGULAR MEETING AGENDA

Date: 4/19/2017
Time: 6:30 p.m.
City Hall/Administration Building
701 Laurel St., Menlo Park, CA 94025

A. Call To Order

B. Roll Call – Bedwell, DeCardy, Dickerson, Vice Chair London, Marshall, Chair Martin, Smolke

C. Public Comment

Under “Public Comment,” the public may address the Commission on any subject not listed on the agenda. Each speaker may address the Commission once under Public Comment for a limit of three minutes. Please clearly state your name and address or political jurisdiction in which you live. The Commission cannot act on items not listed on the agenda and, therefore, the Commission cannot respond to non-agenda issues brought up under Public Comment other than to provide general information.

D. Regular Business

- D1. Review and acceptance of the PG&E tree removal mitigation plan for the Community Pipeline Safety Initiative ([Attachment](#)) – 60 min
- D2. Informational presentation on Peninsula Advanced Energy Community (PAEC) projects - 30 min
- D3. Discuss Arbor Day tree planting event – 15 min
- D4. Approve the March 15, 2017, Environmental Quality Commission meeting minutes ([Attachment](#)) – 5 mins

E. Reports and Announcements

- E1. Commissioner reports – 10 min
- E2. Staff updates – 10 min
- E3. Future agenda items – 5 min

F. Adjournment

Agendas are posted in accordance with Government Code Section 54954.2(a) or Section 54956. Members of the public can view electronic agendas and staff reports by accessing the City website at menlopark.org and can receive e-mail notification of agenda and staff report postings by subscribing to the "Notify Me" service at menlopark.org/notifyme. Agendas and staff reports may also be obtained by contacting Clay Curtin, Assistant to the City Manager/Interim Sustainability Manager, at 650-330-6615. (Posted: 4/14/17)

At every Regular Meeting of the Commission, in addition to the Public Comment period where the public shall have the right to address the Commission on any matters of public interest not listed on the agenda, members of the public have the right to directly address the Commission on any item listed on the agenda at a time designated by the Chair, either before or during the Commission's consideration of the item.

At every Special Meeting of the Commission, members of the public have the right to directly address the Commission on any item listed on the agenda at a time designated by the Chair, either before or during consideration of the item.

Any writing that is distributed to a majority of the Commission by any person in connection with an agenda item is a public record (subject to any exemption under the Public Records Act) and is available for inspection at the City Clerk's Office, 701 Laurel St., Menlo Park, CA 94025 during regular business hours.

Persons with disabilities, who require auxiliary aids or services in attending or participating in Commission meetings, may call the City Clerk's Office at 650-330-6620.



STAFF REPORT

Environmental Quality Commission

Meeting Date: 4/19/2017

Staff Report Number: 17-005-EQC

Regular Business: Review and acceptance of the PG&E tree removal mitigation plan for the Community Pipeline Safety Initiative

Recommendation

Staff recommends the Environmental Quality Commission review and accept the PG&E tree removal mitigation plan for the Community Pipeline Safety Initiative that includes payments for public/street trees removed for safety reasons and private property trees located too close to a pipeline, which the property owner chooses not to replace. These payments are to be used to create a Tree Fund to help preserve and enhance the local tree canopy.

Policy Issues

Menlo Park's long history of protecting and valuing its trees was codified with the adoption of the City's heritage tree ordinance in 1979. The primary goal of the ordinance is to ensure that there will be a significant population of large, healthy trees over the long term in Menlo Park. The City's Environmental Quality Commission has established, as one of its priorities in its 2016-2018 work plan, an urban canopy preservation goal. This includes updating the heritage tree ordinance and developing a comprehensive urban canopy strategy for Menlo Park.

Background

Pacific Gas and Electric Company provides natural gas to communities throughout our region. In 2012, the California Public Utilities Commission approved PG&E's pipeline safety enhancement plans which address a number of key areas that would improve the safety and reliability of their natural gas transmission system.

At its Jan. 25, 2017, regular meeting, the Environmental Quality Commission heard a presentation from PG&E representatives about the Community Pipeline Safety Initiative. This PG&E program focuses on improving community safety by addressing potential risks to its gas transmission pipelines, specifically trees and brush located over or adjacent to gas transmission pipelines that would require monitoring, pruning and/or removal. When trees pose a safety concern and are identified to be removed, PG&E offers options such as tree replacement, landscape restoration and/or in lieu payments.

Analysis

PG&E staff surveyed vegetation above and around their pipelines and initially identified over 900 trees within Menlo Park that fell into this category. PG&E representatives have been working with city staff and property owners to identify which trees are 1) too close to a gas pipeline and must be removed for safety reasons, 2) trees that are far enough away from the pipeline that they can remain in place for now with ongoing monitoring at the property owner's discretion.

On Feb. 27, 2017, Commissioner Marshall and city staff participated in a tree tour with PG&E representatives in order to review some of the public/street trees that were located too close a pipeline and would need to be removed for safety reasons.

Of the trees assessments completed, approximately 236 were public/street trees and over 700 were trees located on private property. Of the public/street trees, 100 were found to be unacceptable and in need of removal. Of the private property trees, approximately 262 (93 heritage trees and 169 non-heritage trees) were found to be unacceptable so far, with approximately 200 assessments still pending.

Tree Assessment Results		
	Public/street trees	Private property trees
Manageable	136	~400
Unacceptable	100	~262
Still pending	-	~200
TOTAL	236	~700

For mitigation of the unacceptable trees, which must be removed for safety reasons, city staff has negotiated with PG&E and has determined that compensation as outlined below from PG&E would be acceptable and provide the City the most flexibility in replacing and managing trees for the ultimate preservation and enhancement of the community's tree canopy.

Mitigation payment proposal

PG&E has provided a proposal including in lieu fees (Attachment A) to mitigate the removal of trees under the Community Pipeline Safety Initiative program. The City shall receive payment for public/street trees removed for safety reasons at \$1,500 per tree (equaling \$150,000). Payments to the City for private property trees located too close to a pipeline, which the property owner chooses not to replace, would be \$1,000 per heritage tree and \$500 per non-heritage tree (up to a maximum of \$177,500). These payments are to be used to establish a Tree Fund to help preserve and enhance the local tree canopy.

Impact on City Resources

If accepted, this plan would provide up to \$327,500 for projects to be funded from a newly established Tree Fund that would be used to preserve and enhance the city's tree canopy.

Public Notice

Public Notification was achieved by posting the agenda, with the agenda items being listed, at least 72 hours prior to the meeting.

Attachments

A. April 7, 2017, tree removal mitigation proposal from PG&E

Report prepared by:

Clay J. Curtin, Assistant to the City Manager/Interim Sustainability Manager



Pacific Gas and Electric Company
275 Industrial Road
San Carlos, CA 94070

April 7, 2017

Brian Henry
Public Works Superintendent
City of Menlo Park
701 Laurel Street
Menlo Park, CA 94025

Subject: Information requested regarding Community Pipeline Safety Initiative

Dear Mr. Henry:

On behalf of Pacific Gas and Electric Company (PG&E), thank you for working with us to help improve emergency access and prevent damage to the natural gas transmission pipelines serving your community. We appreciate the opportunity for ongoing dialogue around this important gas safety work and the City's shared commitment to public safety.

Proposed Mitigation for Gas Safety Work

We understand how important trees are to the City and your residents. To be sure we are only removing those trees that pose a safety concern, PG&E conducted an in-depth review of all trees located near the gas transmission pipeline in the City of Menlo Park. The review identified 100 franchise trees that are located too close to the gas pipeline and need to be replaced for safety reasons.

PG&E is also assessing approximately 700 trees on private property that are located near the pipeline. More than 400 of these trees are far enough away from the pipe that they can remain in place with ongoing monitoring, at the property owners' discretion. Approximately 265 trees, including around 93 heritage trees, are located too close to the pipeline and will need to be replaced for safety reasons. PG&E is working with property owners to share what we know about the safety risks and develop a joint path forward.

Per our discussion, PG&E will:

- Provide mitigation of \$1,500 for each franchise tree that is being removed for safety reasons (equaling a total of \$150,000) to the City for the establishment of a tree fund to help preserve the local canopy.
- Work collaboratively with property owners on plans to address trees that are located too close to the pipeline on private property.
 - o For each tree that needs to be removed for safety reasons, PG&E will offer the property owner a replacement tree or in-lieu payment to be used towards the purchase of a new tree or other landscaping.
- Provide the City with mitigation of \$1,000 for each heritage tree and \$500 for each non-heritage tree located too close to the pipeline that the property owner chooses not to replace on private property (at a maximum of \$177,500).
- Coordinate with city staff to be sure we are meeting the objectives of the local ordinance for any heritage tree removals.
- Conduct all tree removal and restoration work at no cost to the City or property owner.

Standards Guiding Our Work

All of PG&E's gas safety efforts, including the Community Pipeline Safety Initiative, are under the jurisdiction of the California Public Utilities Commission (Attachment A). This work is part of our responsibility to provide safe and reliable gas service to our customers, and to address any potential safety concern that we have identified. In addition, PG&E has submitted two utility standards to the Commission to address vegetation and structures near natural gas transmission pipelines, based on third-party guidance and industry best practice (Attachments B and C).

Community Outreach

It is important to us that the community is informed about this gas safety work, and has an opportunity to ask questions and provide feedback. We have a robust community outreach program to ensure the surrounding community is aware of the planned work and can share input. Additional information on our planned outreach, as well as sample communication materials, is attached for your reference (Attachment D).

Next Steps

As discussed, PG&E will move forward with submitting information to the City for the necessary encroachment permits, which will include traffic control plans and details on stump grinding and wood chipping, as applicable. We appreciated Commissioner Marshall taking the time to join us on a site visit in late February, and look forward to continuing discussions with the City's Environmental Quality Commission at its April 19 meeting. In the meantime, please feel free to reach out to me at the phone number or email below if you have any questions.

Sincerely,



Bill Chiang
Public Affairs Representative
Pacific Gas and Electric Company
Phone: 1-650-339-1627
Email: william.chiang@pge.com

**Attachment A**

Grant Guerra
Senior Counsel

Mailing Address
Mail Code B30A
P.O. Box 7442
San Francisco, CA 94120

Street/Courier Address
Law Department
77 Beale Street, B30A
San Francisco, CA 94105

(415) 973-3728
Fax: (415) 973-5520
Email: GxGw@pge.com

January 23, 2017

William L. McClure
City Attorney
1100 Alma Street, Suite 210
Menlo Park, CA 94025

Re: PG&E's Community Pipeline Safety Initiative in the City of Menlo Park

Dear Mr. McClure:

On behalf of Pacific Gas and Electric Company (PG&E), thank you for working with us to help ensure first responders and safety crews have access to gas transmission pipelines in an emergency or for critical maintenance work. We appreciate the opportunity for ongoing dialogue around how this important gas safety program will be implemented in the city of Menlo Park, in partnership with community leaders and local residents.

As previously discussed with city staff, the Community Pipeline Safety Initiative is part of PG&E's ongoing gas safety efforts, which are under the jurisdiction of the California Public Utilities Commission (CPUC). We have a responsibility to provide safe and reliable gas service to our customers, and to address any potential risk that could threaten the safety of the gas pipeline and the local community. We are working closely with the community to ensure this safety work is done in a manner that respects the needs of the community while protecting public safety.

While PG&E is not required to submit tree removal permits for work related to this community gas safety program, we will continue to work closely with city staff to develop a plan that meets the objectives of your local tree preservation ordinance while balancing the need for community safety. We will complete tree removal permits for administrative purposes and offer replacement trees consistent with the ratio specified in the local ordinance. We will also obtain ministerial encroachment permits and/or building permits associated with this gas safety work and offer mitigation.

Per your request, attached to this letter please find sample case law regarding the operation and maintenance of PG&E gas transmission pipelines. Thank you again for your assistance.

Very truly yours,

A handwritten signature in blue ink, appearing to be "GG" followed by a stylized flourish.

Grant Guerra

ATTACHMENT A**I. THE CONSTITUTION AND SUPPORTING CASE LAW ON EXCLUSIVE JURISDICTION OF THE CALIFORNIA PUBLIC UTILITIES COMMISSION OVER THE OPERATION AND MAINTENANCE OF GAS PIPELINE FACILITIES**

The California Constitution vests in the Commission exclusive power and authority with respect to “all matters cognate and germane to the regulation of public utilities.” (Cal. Const., art. XII, § 5; *Pacific Tel & Tel. v. Eshleman* (1913) 166 Cal. 640, 652-660.) The Constitution, moreover, explicitly prohibits municipalities from regulating “matters over which the Legislature grants regulating power to the Commission.” (Cal. Const., art. XII, § 8.)

PG&E’s gas pipeline facilities are regulated under the Commission’s General Order 112-E, which contains the Commission’s requirements governing the location, design, construction, testing, operation and maintenance of gas pipeline systems. The stated purpose of GO 112-E is:

. . . to establish, in addition to the Federal Pipeline Safety Regulations, minimum requirements for the design, construction, quality of materials, locations, testing, operations and maintenance of facilities used in the gathering, transmission and distribution of gas and in liquefied natural gas facilities to safeguard life or limb, health, property and public welfare and to provide that adequate service will be maintained by gas utilities operating under the jurisdiction of the commission. (GO 112-E, Subpart A, § 102.1.)

The Commission in its Decision 94-06-014, 55 Cal.P.U.C.2d 87 announced its intention to fully preempt local regulation relating to the construction of public utility facilities. The Commission stated it “has authority over construction for utility purposes carried out by public utilities subject to its jurisdiction” and has “restated its exclusive jurisdiction over the location and construction of public utility facilities in numerous decisions.” (D.94-06-014, 55 Cal.P.U.C.2d 87, at 10-12.) In addition to the Constitutional authority cited above, “[t]he Commission is authorized by statute to ‘do all things which are necessary and convenient in the exercise’ of its power. (Public Utilities Code § 701.) In particular, the Commission can make orders governing the services, equipment, physical property, and safety devices used by public utilities. (Public Utilities Code §§ 761, 762, 768.)” (*Id.*, at 11.) The Commission stated:

The question of whether local agencies are pre-empted from regulating the construction or installation of utility facilities is answered in § 8 of Article XII of the California Constitution, which states in pertinent part: “A city, county, or other public body may not regulate matters over which the Legislature grants regulatory power to the Commission.” PU Code § 761 clearly vests in the Commission regulatory authority over the methods and means of locating and constructing public utility equipment and facilities.

(*Id.*, at 11-12.)

II. THE COMMISSION HAS PREEMPTED ALL LOCAL REGULATION OF PUBLIC UTILITY FACILITIES IN MATTERS OF STATEWIDE CONCERN

California courts have repeatedly found that discretionary (as opposed to ministerial) regulation by local governments is preempted by the Commission's jurisdiction because the construction, design, and operation of public utility facilities are matters of statewide concern. In *Pacific Telephone and Telegraph Co. v. City and County of San Francisco* (1959) 51 Cal.2d 766, the California Supreme Court held that the right and obligation to construct and maintain telephone lines had become matters of statewide concern and therefore the City of San Francisco could not exclude telephone lines from certain streets based on its assertion that the regulation of utility lines in public streets was a "municipal affair." (*Id.*, at 774.) Likewise, in *California Water and Telephone Co. v. County of Los Angeles* (1967) 253 Cal.App.2d 16, the appellate court stated that "the construction, design, operation and maintenance of public water utilities is a matter of statewide concern." (*Id.* at 30.) Hence, that court found the County's water ordinance to be void since the local legislation (based on the police power) was pre-empted by the authority vested in the Commission.

Local legislation in conflict with general law is void. Conflicts exist if the ordinance duplicates, contradicts, *or enters an area fully occupied by general law, either expressly or by legislative implication.* If the subject matter or field of the legislation has been fully occupied by the state, there is no room for supplementary or complementary local legislation, even if the subject otherwise one properly characterized as a 'municipal affair.'

(253 Cal.App.2d at 27 (emphasis added).)

Although the Commission has adopted GO 112-E governing the construction of gas transmission facilities, state preemption applies even where the CPUC has not adopted regulations expressly addressing the facilities at issue. In *San Diego Gas & Electric Co. v. City of Carlsbad* (1998) 64 Cal.App.4th 785, the Court addressed the City of Carlsbad's effort to enforce a local floodplain ordinance to regulate dredging performed by the public utility. The City argued that it should have concurrent jurisdiction over the dredging because the CPUC had not taken any action to regulate in this area, and because dredging was not an essential utility facility or activity. The court rejected this argument, holding that the city's floodplain ordinance was impliedly preempted by the constitutional and statutory scheme granting power to the Commission. According to the court, even though the Commission had not expressly exercised this power, the power still resided in the CPUC. (See also *Harbor Carriers, Inc. v. City of Sausalito* (1975) 46 Cal.App.3d 773, 774.)

Furthermore, courts have specifically confirmed that utility vegetation management programs falls within the exclusive jurisdiction of the CPUC. (*Sarale v. Pacific Gas & Electric Co.*, (2010) 189 Cal. App. 4th 225, 232 (Cal. App. 3d Dist.) (the law "safeguards the commission's ability to implement statewide safety protocols from being undermined by an unworkable patchwork of conflicting determinations regarding what constitutes necessary or proper management of power lines.")).)

Gas Pipeline Encroachment Management**Attachment B****SUMMARY**

This utility standard establishes the roles and responsibilities and the requirements for managing vegetation and structures encroachments of Pacific Gas and Electric Company (Company or PG&E) natural gas transmission (GT) pipeline facilities operating over 60 pounds per square inch gauge (psig).

With limited exception, this utility standard does not apply to commercial agricultural land use areas such as orchards or vineyards.

TARGET AUDIENCE

All personnel responsible for patrolling, leak survey, Transmission gas pipeline operations and maintenance (GPO&M), pipeline engineering and design, integrity management (IM), and GT vegetation management.

TABLE OF CONTENTS

SECTION	TITLE	PAGE
1	General	1
2	Roles and Responsibilities	2
3	Vegetation Control Zones.....	3
4	Structures Control	6
5	Permissible Uses of ROW	7
6	Prohibited Uses of ROW	7
7	Exemption Process	8
8	Exemptions for Environmentally Sensitive Areas.....	8
9	Outside the Vegetation Control Zones.....	8
10	Record Retention Requirements	8

REQUIREMENTS**1 General**

1.1 This utility standard extends the continued commitment of PG&E to public safety and safe operational practices to manage the vegetation and structures encroachments near the gas pipeline. This commitment includes the following:

1. Reducing risk to pipeline integrity occurring from the presence of vegetation near the pipeline and structural intrusions in the right-of-way (ROW).

Gas Pipeline Encroachment Management

1.1 (continued)

2. Providing safe access to Company natural gas pipeline facilities in order to conduct pipeline O&M activities required by regulatory code, for the following:
 - Leak surveys
 - Patrolling
 - Inspections
 - Testing
 - Pipeline repairs
 - Pipeline replacements
3. Clearing obstructions in pipe zone allowing access to safely operate, maintain, and respond in the event of an emergency.
4. Creating a line-of-sight corridor of the pipe zone. This gives the ability for aerial or foot patrol, leak survey, GPO&M, and the public to locate the GT pipeline without vegetation obstructions.
5. Emphasizing pipeline markings.
6. Increasing public awareness and presence of pipeline facility locations.
7. Reducing damage to the pipeline from excavation on or near the pipeline.
8. Enhancing the ability of emergency responders to identify and access pipeline facilities.
9. Eliminating or mitigating the negative impact of vegetation (e.g., roots) and structures (e.g., buildings and carports) on underground natural gas pipelines.
10. Conducting vegetation management operations in a safe, effective manner, AND in conformity with all federal and state laws, regulations, and permit conditions, with special attention to addressing environmental concerns.

2 Roles and Responsibilities

- 2.1 Patrol personnel provide approval when determining an exemption for removal of trees, vegetation, or structural encroachments.
- 2.2 Leak survey personnel provide approval when determining an exemption for removal of trees, vegetation, or structural encroachments.

Gas Pipeline Encroachment Management

2.3 GT vegetation management personnel:

- Identify locations where incompatible vegetation exists AND schedule the work to be in compliance with this standard and associated procedure.
- Using the site-specific risk analysis, determine the threat level of trees near the GT pipeline, per [Utility Procedure TD-4490P-03, "Vegetation Encroachment Site-Specific Risk Analysis."](#)
- Maintain vegetation within the GT ROW, in compliance with this standard.

2.4 Integrity management (IM) personnel:

- Perform the full site-specific risk analysis per [TD-4490P-03](#).
- Perform the risk prioritization and analysis used in determining the threat level of structural encroachments near the GT pipeline, per [Utility Procedure TD-4490P-05, "Structural Encroachments Risk Analysis."](#)
- Provide support when determining an exemption for removal of trees, vegetation, or structural encroachments.

2.5 Transmission GPO&M personnel identify vegetation and structural encroachments impeding work being performed.

2.6 Pipeline engineering and design personnel adheres to this standard when creating engineering designs for new construction.

3 Vegetation Control Zones

3.1 Vegetation Zone Design

The vegetation zone design sets the requirements of permitted vegetation within the Pipe Safety zone, Border zone, and Outer zone. This allows the landscape to incorporate an environmentally balanced gradual transition ("feather cut") from the pipe zone as it moves outward to the border zone. This design avoids severe transitions ("hard cuts") on the Pipe Zone and expands to the outer edges beyond the pipe zone ("border zone.")

[Figure 1, "Illustration of the Pipe Zone and Border Zone."](#) shows the relationship of the trees and foliage in the pipe zone and border zone, and the manner prescribed to create a "feather cut" to the edge of the border zone.

Gas Pipeline Encroachment Management

3.1 (continued)

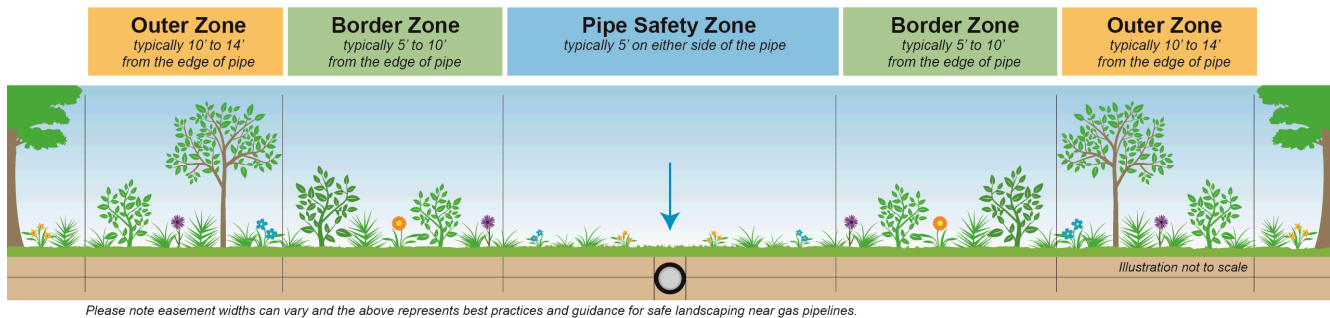


Figure 1. Illustration of the Pipe Safety Zone and Border Zone

NOTE

A pipeline may not always be located in the center of the easement.

1. The vegetation control zone consists of the following 3 zones:
 - a. The **Pipe Safety Zone** area around the pipe extends from the edge of the pipe 5 feet (ft) to the border zone.
 - (1) Per the criteria in [Section 3.2](#), any trees and vegetation (e.g. brush or shrubs) obstructing the line of sight and access to the pipeline must be removed AND are not permitted to be planted in the pipe zone.
 - (2) Lawns, flowers, low-profile grasses, and low-growing plants are permitted within the pipe zone.
 - b. The **Border Zone** extends from the edge of the pipe zone out an additional 5 ft on each side of the pipeline. Per the criteria in [Section 3.2](#), incompatible vegetation found in the Border Zone include the following:
 - Trees and vegetation exceeding 8 inches (in.) in diameter, OR of a species likely to exceed 8 in. in diameter at breast height (DBH) at maturity at 4.5 ft above ground, AND the trunk or main branch is more than 5 ft to 10 ft from the outer edge of the pipeline, must be removed AND not permitted to be planted in the border zone.
 - c. The **Outer Zone** extends from the edge of the border zone out an additional 4 ft on each side of the pipeline.
 - Trees, exceeding 36 in. in DBH, OR of a species likely to grow to and exceed 36 in. in DBH at maturity, AND the trunk or main branch is 10 ft to 14 ft from the outer edge of the pipeline, must be removed AND are not permitted to be planted in the outer zone.

Gas Pipeline Encroachment Management

3.2 Tree Risk Management

1. WHEN application of [Section 3.1](#) requirements cannot be met,

THEN GT vegetation management personnel AND IM personnel must conduct a risk assessment to determine the threat levels of vegetation within the pipe safety zone.
2. GT vegetation management personnel must assess the location of the tree in question, as it relates to vehicular access, to assign the correct risk assessment model as follows:
 - a. IF the tree meets ALL of the following criteria:
 - Located on franchise location (public rights-of-way such as City/County roads and highways but not freeways), AND adjacent to road,
 - Located on private location AND an emergency vehicle can drive within 25 ft of the tree,
 - Located within 25 ft of parking lot, trail, or any drivable area,
 - Does not restrict access for emergency vehicles,THEN use the IM site-specific risk analysis (otherwise known as the integrity management model) per [TD-4490P-03](#).
 - b. IF the tree meets ALL of the following criteria:
 - Located on private location in a customer backyard,
 - Located on private location and is more than 25 ft from drivable access point,
 - Location obstructs emergency access vehicles,THEN use the site-specific risk analysis (otherwise known as the private property assessment model) per [TD-4490P-03](#).

Gas Pipeline Encroachment Management

4 Structures Control

- 4.1 All structures located in the ROW are considered an encroachment.

NOTE

Vegetation encroachments are addressed in [TD-4490P-03](#).

1. IF the structure interferes with pipeline maintenance activities OR causes a delay in accessing its pipeline facilities in an emergency,

THEN the following must be completed per [GO-112F 143.5, "Encroachments:"](#)
 - a. The Company determines, within 90 days after discovering the encroachment, whether the structural encroachment can be resolved within 180 days.
 - IF the structural encroachment can NOT be resolved within 180 days,

THEN the Company submits a plan to resolve the encroachment to the CPUC,

AND creates a Corrective Action Program (CAP) item to address the encroachment assigned to land management.
 - b. IF the Company does not submit a plan, AND the structural encroachment is NOT resolved within 180 days of discovery,

THEN the Company isolates AND discontinues service to the section of pipeline on which the encroachment exists.
 - c. The Company must provide written notice of any service discontinuance to the CPUC 30 days prior to discontinuing the service.
2. IF IM personnel determine the encroachment does not interfere with O&M, does not endanger the facilities, AND does not compromise the safety of the public,

THEN the Company land management personnel may enter into an encroachment agreement with the property owner. The agreement must comply with [California Public Utility Code \(CPUC\), Section 851](#) and [General Order 69-C](#).
 - General Order 69-C Summary

CPUC General Order 69-C sets forth the type and nature of real property rights a public utility may convey without further approval of the CPUC. Specifically, it authorizes public utilities to grant easements, licenses, and permits for the use or occupancy of operating property.

Gas Pipeline Encroachment Management

4.2 Permissible Structures Found in the Border Zone

Construction of buildings and structures is restricted by the terms of the easements creating the ROW; however, there are times when some types of structures may be acceptable.

- Personnel identifying encroachment contact land management personnel for assistance in determining if a structure or use is acceptable within the Border Zone.

4.3 Refer to [TD-4490P-05](#), for performing risk prioritization and analysis in determining the threat level of structural encroachments within the ROW.

5 Permissible Uses of ROW

5.1 The following uses are typically permitted within ROW boundaries:

- Some patios or concrete slabs (subject to limits)
- Flower beds, vegetable gardens, lawns, low shrubbery, and certain crops
- Livestock grazing
- Some sports and game fields, parks, and golf courses (subject to limits)

6 Prohibited Uses of ROW

6.1 The following are examples of prohibited uses within the ROW boundaries:

- Buildings, structures, foundations, overhanging roofs and balconies, garden sheds, or signs
- Wells, swimming pools, or boreholes
- Storage of flammable materials, heavy equipment, or bulk goods
- Burning materials, such as waste, scrap lumber, or slash
- Pile-driving or blasting

6.2 See exemption process as described below in [Section 7](#) and refer to [TD-4490P-05](#), regarding the detailed site-specific risk analysis process.

Gas Pipeline Encroachment Management

7 Exemption Process

- 7.1 Exemptions for removal of trees, vegetation, or structural encroachments must document the following in writing:
1. Justification for the exemption.
 2. Approval from IM, Patrols, AND Leak Survey.
- 7.2 The exemption document must be reviewed and approved by Director of IM or their designees in Electronic Document Routing System (EDRS).

8 Exemptions for Environmentally Sensitive Areas

- 8.1 Exemptions in environmentally sensitive areas, such as an endangered species habitat, an area of historical or cultural significance, OR similar designations are determined as follows:
1. On a case-by-case basis.
 2. The following conditions must exist prior to allowing the trees and other vegetation to remain:
 - a. The pipeline depth of cover is greater than 20 ft.
 - b. A walking path is available above the pipeline.
- 8.2 IF the conditions listed in Section 8.1 exist,
THEN the trees and vegetation may remain.
OTHERWISE the exemption must follow the approval process outlined in Section 7.

9 Outside the Vegetation Control Zones

- 9.1 Patrols, vegetation management, and GT O&M personnel take appropriate action to identify, assess, AND mitigate the potential risks of trees and vegetation located outside the vegetation control zones that are capable of producing limbs and roots impacting the pipeline integrity.
- Identify trees in poor health (hazard trees) for the risk of falling and potential damage to exposed portions of pipeline (e.g., stream crossings).
- 9.2 Company personnel must reach a written agreement with the property owners before the removal OR trimming of vegetation, trees, or limbs outside the easement.

10 Record Retention Requirements

- 10.1 Retain records per the Record Retention Schedule.

END of Requirements

Gas Pipeline Encroachment Management

DEFINITIONS

Border zone: An area extending from the edge of the pipe zone out an additional 5.

Corridor: A tract of land forming a passageway.

Diameter at breast height (DBH): A standard method of expressing the diameter of the trunk or bole of a standing tree at a height of 4.5 ft from the ground.

Easement: The limited right to make use of property owned by another. Pipeline ROW is documented in a written easement. The easement may grant the right to install and maintain a pipeline across another person's property. The rights and restrictions are usually defined in the easement document. The easement is usually recorded to provide notice of the rights and restrictions that apply to the property, even when it transferred or sold.

Encroachment: Anything located on or near the pipeline that would either pose integrity management risk, hinder maintenance activities, OR cause a lengthy delay in accessing pipeline facilities during an emergency.

Pipe zone: An area around the pipeline extending from the edge of the pipe on either side out 5 ft. to the border zone.

Right-of-way (ROW): The right to cross property to go to and from another parcel. The ROW may be a specific grant of land or an "easement," which is a right to pass across another's land.

Transmission line: A pipeline, other than a gathering line, that meets ANY one of the following criteria:

1. Transports gas from a transmission line, gathering line, or storage facility to any of the following:
 - a. Distribution Center.
 - b. Storage Facility.
 - c. Large Volume Customer that is not downstream of a Distribution Center.
2. Operates at or above a hoop stress of 20% SMYS, OR is upstream of a segment of pipe operating at or above a hoop stress of 20% SMYS.
3. Transports gas within a storage field.

Tree(s): Any plant life with a measureable DBH as defined in [TD-4490P-03](#), Appendix A or by vegetation management personnel.

Vegetation: All plant life in a particular region taken as a whole.

Gas Pipeline Encroachment Management

IMPLEMENTATION RESPONSIBILITIES

This utility standard will be communicated via a Gas Technical Document Management (TDM) Communications Monday morning email announcement.

Supervisors will tailboard with the impacted audience to communicate the publication and changes in the standard.

Vegetation Management will set up a WebEx session with the target audience to discuss changes to this utility standard.

GOVERNING DOCUMENT

NA

COMPLIANCE REQUIREMENT / REGULATORY COMMITMENT

[Code Of Federal Regulations \(CFR\), Title 49, "Transportation," Part 192—Transportation Of Natural And Other Gas By Pipeline: Minimum Federal Safety Standards, Subpart L, "Operations."](#)

[49 CFR Part 192, Subpart M, "Maintenance"](#)

[49 CFR Part 192, Subpart O, "Gas Transmission Pipeline Integrity Management"](#)

[CPUC, Section 851](#)

[CPUC General Order 69-C, "Easements on Property of Public Utilities Resolution No. L-230"](#)

[GO-112F 143.5, "Encroachments"](#)

REFERENCE DOCUMENTS

Developmental References:

NA

Supplemental References:

[Utility Procedure TD-4490P-03, "Vegetation Encroachment Site-Specific Risk Analysis"](#)

[Utility Procedure TD-4490P-05, "Structural Encroachments Risk Analysis"](#)

APPENDICES

NA

ATTACHMENTS

NA

Gas Pipeline Encroachment Management

DOCUMENT RECISION

Utility Standard TD-4490S, "Gas Pipeline Rights-of-way Management," Rev. 2, issued 11/2014.

DOCUMENT APPROVER

Matthew Pender, Director, Land Management

DOCUMENT OWNER

Patrick Espiritu, Gas Engineer, Associate, Gas Standards and Procedures

DOCUMENT CONTACT

Marvin Penner, Manager, Land Management

REVISION NOTES

Where?	What Changed?
Section 2	Added Roles and Responsibilities section.
Section 3	Updated the risk assessment models.
Section 4	Added reference to TD-4490P-05, which details the process for performing risk prioritization and analysis in determining the threat levels of structural encroachments within the ROW.
Section 4.1.2	Added new GO-112F requirements for submitting plans to the CPUC.
Section 6	Added reference to TD-4490P-05.
Section 7	Added Integrity Management, Patrols, and Leak Survey to provide approvals in the exemption process.
Section 8.1.2	Added requirements for exemptions for environmentally sensitive areas.
Definitions	Updated definition of encroachment.

Structural Encroachment Risk Analysis**Attachment C****SUMMARY**

This utility procedure describes the process how Pacific Gas and Electric Company (PG&E or Company) performs risk prioritization and analysis to determine threat levels of structural encroachments within the right-of-way (ROW).

Level of Use: Informational Use

TARGET AUDIENCE

Transmission integrity management (IM) personnel, and Gas pipeline operations and maintenance (GPO&M) personnel.

Land rights management personnel are included for procedure awareness.

SAFETY

Performing this procedure will not raise the risk of a specific hazard to personnel, public, or equipment.

BEFORE YOU START

All personnel performing the duties of this utility procedure must complete annual transmission integrity management program (TIMP) training.

TABLE OF CONTENTS

<u>SECTION</u>	<u>TITLE</u>	<u>PAGE</u>
1	General	2
2	Data Collection	2
3	Initial Screening	3
4	Action Requirements or Recommendations	5

Structural Encroachment Risk Analysis

PROCEDURE STEPS

1 General

NOTE

In some instances, it may not be necessary to remove all structural encroachments from the ROW as described in [Utility Standard TD-4490S, "Gas Pipeline Encroachment Management."](#)

1.1 GPO&M personnel perform the following:

1. All structural encroachment management operations:
 - In a safe and effective manner.
 - In accordance with all federal and state laws, regulations and permit conditions.
 - With special attention to environmental concerns.
2. Minimize risk of pipeline damage by managing structural encroachments near gas transmission facilities.
3. Ensure appropriate pipeline maintenance can be performed.
4. Maintain unobstructed access to Company natural gas pipeline facilities for emergency response and pipeline operations and maintenance (O&M) activities.

2 Data Collection

2.1 IM personnel complete the following:

1. Collect the following minimum data required for structural encroachment risk analysis:
 - The encroachment classification as described in [Section 3.1](#).
 - The horizontal distance from the encroachment to the pipeline centerline.
 - Pipeline depth of cover (DOC)
2. Collect the following additional data as needed for analysis when determining recommendations per [Section 4](#):
 - IM assessment history.
 - Construction practices used to install the encroachment.
 - Depth of the encroachment (conservative assumptions may be used).

Structural Encroachment Risk Analysis

3 Initial Screening

- 3.1 IM personnel classify each encroachment for screening, as indicated in Table 1, "Encroachment Classifications," which represents the majority of encroachments PG&E personnel encounter.

Table 1. Encroachment Classifications

Classification	Description
P-1	Utility poles and guy wires.
P-2	Fence posts, bollards, sign posts, and shallowly embedded structures (less than 36 in.).
P-3	Uninhabited structures not breaking the ground (e.g. barns, sheds, patios, above ground pools, occupied areas).
P-4	Uninhabited structures with deeper foundations or depths of structure footing greater than 36 in. but less than 60 in; such as warehouses, below ground pools, or loading docks.
P-5	Inhabited structures.

1. IF an encroachment does not appear to fit any of the classifications above,
THEN the IM subject matter expert further assesses the encroachment's risk, to determine where it fits within the screening process.

Structural Encroachment Risk Analysis

- 3.2 Use the classification and the minimum data required as specified in [Section 2.1](#), to determine the initial risk level of each encroachment with impacted occupancy count (IOC) per Table 2, "Encroachment Screening Process."

Table 2. Encroachment Screening Process

LIKELIHOOD OF POTENTIAL COATING OR MECHANICAL DAMAGE	CONSEQUENCE									
		P-3, IOC = 0	P-3, IOC > 0	P-2, IOC = 0	P-4, IOC = 0	P-2, IOC > 0	P-1, IOC = 0	P-4, IOC > 0	P-5, IOC > 0	P-1, IOC > 0
	Distance is < 2 ft AND DOC is < 3 ft.	LOW	LOW-MEDIUM	MEDIUM		HIGH				
	Distance is < 2 ft AND DOC is 3 ft to 5 ft.	LOW	LOW-MEDIUM		MEDIUM			HIGH		
	Distance is < 2 ft AND DOC is > 5 ft	LOW	LOW-MEDIUM				MEDIUM		HIGH	
	Distance is 2 to 5 ft AND DOC is < 3 ft.	LOW		LOW-MEDIUM				MEDIUM		
	Distance is 2 to 5 ft and DOC is 3 ft to 5 ft.	LOW			LOW-MEDIUM			MEDIUM		
	Distance is 2 to 5 ft AND DOC is > 5 ft.	LOW				LOW-MEDIUM				
	All classifications with distance away from pipe > 5 ft AND at all DOC.	LOW								

NOTE: P-5, IOC equals 0: This scenario cannot exist since P-5 are habitable structures

- 3.3 IM personnel make associated decisions OR take additional action for each encroachment as described for the appropriate initial risk level.

1. Low risk

IF the IOC is equal to zero AND there is very low likelihood of mechanical damage,

THEN the encroachment may remain within the ROW.

Structural Encroachment Risk Analysis

3.3 (continued)

2. Low to medium risk

IF normal operation and maintenance (O&M) measures are in place AND one of the following is true:

- The IOC is greater than zero AND there is no pipeline integrity threat.
- The IOC is equal to zero AND there is low likelihood of a pipeline integrity threat.

THEN the encroachment may remain within the ROW.

3. Medium risk

IF one of the following is true:

- The IOC is equal to zero AND there is a potential for mechanical damage.
- The IOC is greater than zero AND there is low likelihood of mechanical damage.

THEN additional data must be collected as described in [Section 4.1](#).

4. High risk

IF the IOC is greater than zero AND there is a likelihood of potential mechanical damage,

THEN the encroachment must be removed UNLESS the mechanical damage is validated to not exist.

4 Action Requirements or Recommendations

4.1 IF initial screening result is a “medium risk,”

THEN IM personnel complete additional data collection or analysis, including indirect inspection (closed interval survey, alternating current voltage gradient, and direct current voltage gradient), to determine whether the encroachment may cause any of the following mechanical damage to the pipeline:

- Coating damage
- Metallic contact with pipeline
- Damage to pipeline

Structural Encroachment Risk Analysis

4.2 IF indirect inspection yields a result of mechanical damage not likely to exist,

THEN perform the following steps (the encroachment may remain):

1. O&M personnel continue to monitor the encroachment through appropriate processes for pipeline patrol and emergency response according to [Utility Procedure TD-4412P-07, "Patrolling Gas Pipelines."](#)
2. IM personnel evaluate the encroachment for potential use of additional mitigation measures.

4.3 IF indirect inspection cannot be accomplished due to the interference from the encroachment,
OR appropriate processes for pipeline patrol and emergency response cannot be established at a specific encroachment site,

THEN IM elevates the site to eliminate the threat, pursues the removal of encroachment AND validates that mechanical damage to the pipe did not occur.

4.4 IF indirect inspection yields a result of mechanical damage likely to exist,

THEN perform the following steps:

1. O&M personnel, construction personnel, or both, must stabilize OR remove the encroachment before excavating.
2. O&M personnel, construction personnel, or both, must excavate the pipeline to identify any coating or pipeline damage.
3. IF the pipeline requires repair,

THEN O&M personnel, construction personnel, facilities IM program personnel (Pipeline services), or any combination, must follow the instructions of [Utility Procedure TD-4100P-05, "Selection of Steel Gas Pipeline Repair Methods,"](#) as appropriate.

END of Instructions

Structural Encroachment Risk Analysis

DEFINITIONS

Alternating current voltage gradient (ACVG): Inspection technique including a series of above ground measurements of voltage gradients resulting from current pickup and discharge points at holidays. Capable of locating holidays on the pipeline.

Closed interval survey (CIS): Inspection technique including a series of above ground pipe-to-soil potential measurements taken at predetermined increments of several feet along the pipeline and used to provide information on the effectiveness of the cathodic protection system.

Depth of cover (DOC): The vertical distance measured from the ground surface to the top of the pipeline.

Direct current voltage gradient (DCVG): Inspection technique including a series of above ground measurements of voltage gradients resulting from current pickup and discharge points at holidays. Capable of locating holidays on the pipeline.

Encroachment: Anything located on or near the pipeline that would either pose integrity management risk, hinder maintenance activities, OR cause a lengthy delay in accessing pipeline facilities during an emergency.

Impacted Occupancy Count (IOC): Total occupancy value for all structures or outside occupied areas within the potential impact radius (PIR) circles of an individual pipeline section, as determined through processes within the Transmission Asset Knowledge and Integrity Management department.

Indirect inspection technology (IIT): Inspection techniques including a series of above ground survey techniques (ACVG, DCVG, CIS) taken at predetermined increments of several feet along the pipeline and used to provide information on the condition of the pipelines protective coating.

Right-of-way (ROW): The right to cross property to go to and from another parcel. The ROW may be a specific grant of land or an "easement," which is a right to pass across another's land.

IMPLEMENTATION RESPONSIBILITIES

This utility procedure will be communicated via a Gas Technical Document Management (TDM) Communications Monday morning email announcement.

Transmission IM will provide Web ex sessions to target audience to reinforce the current process and communicate the publication of new procedure.

GOVERNING DOCUMENT

[Utility Standard TD-4490S, "Gas Pipeline Encroachment Management"](#)

Structural Encroachment Risk Analysis

COMPLIANCE REQUIREMENT / REGULATORY COMMITMENT

[Code of Federal Regulations \(CFR\), Title 49, Transportation, Part 192—Transportation of Natural and other Gas by Pipeline: Minimum Federal Safety Standards, Subpart O, “Gas Transmission Pipeline Integrity Management”](#)

REFERENCE DOCUMENTS

Developmental References:

NA

Supplemental References:

[Utility Procedure TD-4100P-05, “Selection of Steel Gas Pipeline Repair Methods”](#)

[Utility Procedure TD-4412P-07, “Patrolling Gas Pipelines”](#)

APPENDICES

NA

ATTACHMENTS

NA

DOCUMENT REVISION

NA

DOCUMENT APPROVER

Mike Barnum, Manager, Transmission Integrity Management Program (TIMP) Risk Management

DOCUMENT OWNER

Patrick Espiritu, Associate Gas Engineer, Gas Standards and Procedures

DOCUMENT CONTACT

Bronson Ingemansson, Senior Gas IM Engineer, TIMP Risk Management

REVISION NOTES

Where?	What Changed?
All	This is a new utility procedure documenting this process for the first time; however this process is currently being used.



Community Pipeline Safety Initiative

City of Menlo Park

Attachment D

April 2017

Overview

Pacific Gas and Electric Company's (PG&E) top priority is the safety of our customers and the communities we live in and serve. As part of this commitment to safety, we are checking the area above and around our natural gas transmission pipelines to help ensure safety crews are able to get to the pipe in case of an emergency or for critical maintenance work. When items like trees and structures are located too close to the gas pipeline and pose a safety concern, we work with the City or private property owner to discuss tree replacement and landscaping options that preserve the beauty of the area while keeping the community safe.

Community Outreach

It is important to us that our customers get answers to their questions and have an opportunity to provide feedback. We have tailored our outreach plan to help ensure the local community is aware of the upcoming gas safety work. Our outreach for Menlo Park includes the following:

Timing	Outreach	Description
July and December 2015	Gas safety newsletters	Mailed regional gas safety newsletters to residents near the gas transmission pipeline
September and November 2015	Private property gas safety letter	Mailed letters to private property customers with gas safety work proposed for their property
April 24, 2017	Answer center invitations	Mail invitations to surrounding residents regarding upcoming answer centers where they can ask questions and learn more about the proposed gas safety work
Week of May 8	Answer centers	Host neighborhood answer centers to share information and answer questions about proposed gas safety work: - Starbucks at Sharon Heights Shopping Center (2) - The Willows Market (2) - Oil Changers on Willow Road (1)
Week of May 22	Answer center follow-up and gas safety letters	- Follow-up with answer center attendees, as needed - Mail letter about PG&E's gas safety programs to residents within proximity to a gas transmission pipeline - Mail letter regarding upcoming gas safety work
Week of June 5	Door-to-door outreach	Canvass adjacent residential and commercial locations to provide fact sheets and answer questions regarding upcoming work
Week of June 12	Onsite during gas safety work	Provide onsite support during gas safety work to answer questions as needed
Week of July 24	Thank you letter	Mail thank you letters to residents and provide guidance for safe uses near gas pipelines

Please note the above timing is approximate and subject to change.

Learn More

For more information, please contact PG&E Customer Outreach Specialist Emily Sloan at **1-650-737-2001** or by email at emily.sloan@pge.com. Additional information on PG&E's gas safety efforts can also be found at pge.com/GasSafety.

SAN MATEO COUNTY, CALIFORNIA
JULY 2015 EDITION

Together

BUILDING A BETTER CALIFORNIA



IN THIS ISSUE

- Removing obstacles and threats to pipelines



- Meet the San Mateo County team



- Local leaders speak out on safety



PG&E Working with Communities in San Mateo County to Enhance Gas Safety and Ensure Pipeline Access

PG&E IS INVESTING MORE THAN \$5 BILLION THIS YEAR TO ENHANCE PIPELINE

safety and strengthen gas and electrical infrastructure across northern and central California. In San Mateo County, PG&E is undertaking a series of gas pipeline safety initiatives and working with local communities to ensure they are aware of the ongoing work and its importance to public safety.

PG&E has recently completed upgrades to natural gas pipelines across San Mateo County. The upgrades to the transmission lines will increase service reliability and enhance public safety for the growing San Mateo County area.

CONTINUED ON PAGE 2 →

New Safety Initiative to Provide Faster Emergency Response Access

SAN MATEO COUNTY RESIDENTS

may see more blue PG&E trucks on the road in coming months as the company undertakes a new community gas safety initiative designed to ensure first responders and PG&E emergency response crews can more quickly get to natural

CONTINUED ON PAGE 3 →



Planning to dig? Call 811 before you dig, and PG&E will come out to mark the approximate location of underground lines, pipes and cables, so you'll be able to dig safely. PG&E's 811 program is just another step we're taking to ensure the safety of our gas system in your community.



SAFE



RELIABLE



AFFORDABLE



CLEAN



Meet the San Mateo County Team

All of us pictured here are proud to call the San Mateo County area home. At PG&E, the communities we serve are where we live and work too. So when we go to work to build the safest gas system in the nation, we're doing it for your family—and ours. Across San Mateo County, we work every day to improve safety and strengthen reliability in our community. Here are just some of the highlights of the gas safety work PG&E and the San Mateo County team have completed recently:



From left: David Cuevas, Gas Field Representative; Sergio Salinas, Gas Crew Foreman; An Lam, Senior Gas Engineer; Russel Chin, Gas Service Representative; Alonzo Lopez, Gas Crew Leader.

A SAFER GAS SYSTEM— THE FACTS:

SURVEYED all 6,750 miles of gas transmission pipeline

REPLACED more than 125 miles of gas transmission pipeline

INSTALLED more than 200 new automated safety valves throughout the system

VALIDATED the maximum operating pressure on all 6,750 miles of gas transmission pipelines



PG&E WORKING WITH COMMUNITIES IN SAN MATEO COUNTY TO ENHANCE GAS SAFETY

CONTINUED FROM PAGE 1

Harold Schapelhouman, Menlo Park Fire Protection District Fire Chief said, "PG&E's community-based gas safety initiatives will help keep San Mateo County residents and our first responders safe."

PG&E's gas safety work in San Mateo County includes replacing pipelines, installing new automated safety valves and using innovative technology to test and monitor the integrity of gas pipelines.

PG&E's suite of gas pipeline safety programs is allowing the company and the customers it serves in San Mateo County to identify and address any potential safety concerns before they become an issue.

Learn more about PG&E's gas safety work at pge.com/GasSafety.

BUILDING A BETTER CALIFORNIA

NEW SAFETY INITIATIVE TO PROVIDE FASTER EMERGENCY RESPONSE ACCESS

CONTINUED FROM PAGE 1

gas transmission lines in the event of an emergency or natural disaster.

As part of the work coming to the San Mateo County area, PG&E crews have already conducted a mile-by-mile analysis of San Mateo County's natural gas transmission pipeline system. And PG&E has identified structures, sheds, trees and shrubbery that experts believe pose threats to the safety and integrity of gas pipelines.

collaboratively with local residents to remove the structures or trees that pose potential threats to public safety. If PG&E does remove any trees, the company will work with property owners and local communities to replace trees at PG&E's expense.



Trees can prevent emergency response crews from getting to the pipeline in an emergency.

Pipeline experts...and local first responders agree that replacing certain trees will help prevent gas leaks and speed up emergency response times.

Industry pipeline experts who reviewed PG&E's safety practices and local first responders agree that removing trees and structures over PG&E gas pipelines will reduce the risks to the pipeline and speed up response times in the event of a leak.

In instances when removing trees is required, local PG&E representatives will be working

Safety Technology Innovations Include New Leak-Detecting Car



PG&E WAS THE FIRST UTILITY

in the world to use the vehicle-mounted Picarro Surveyor™ instruments that are approximately 1,000 times more sensitive than traditional leak detection equipment.

PG&E worked with Silicon Valley-based Picarro to develop technology that uses GPS to pinpoint even the most miniscule natural gas leak.

Since 2010, PG&E has reduced the backlog of minor, non-hazardous leaks by 99%. This effort is a result of a redefined leak management program, which includes using cutting edge leak detection technology

NEW TECHNOLOGY has helped PG&E to achieve a

99%
REDUCTION

in minor gas leaks since 2010

that is mobile-based as well as new streamlined and more efficient work procedures.

"We're making every effort to ensure that PG&E is the safest utility in the United States," said Nick Stavropoulos, PG&E's executive vice president of gas operations. "Utilizing innovations in technology are key to making that happen."

Pacific Gas and Electric Company
 PO Box 77000
 San Francisco, CA 94105

PRSRT STD
 US POSTAGE
 PAID
 PACIFIC PRINT
 RESOURCES

"PG&E" refers to Pacific Gas and Electric Company, a subsidiary of PG&E Corporation. ©2015 Pacific Gas and Electric Company. All rights reserved. Paid for by PG&E shareholders.



Together, Building
 a Better California

pge.com/GasSafety

Hear What Local Leaders Are Saying About Safety



**AMY
BUCKMASTER**

*President & CEO,
 Redwood City–
 San Mateo County
 Chamber of
 Commerce*

"San Mateo County is thriving, in part because of the gas and electric infrastructure powering our progress. PG&E has remained committed to upgrading our infrastructure to protect public safety. The men and women of PG&E are working hard to serve our community."



**HAROLD
SCHAPELHOUMAN**

*Fire Chief,
 Menlo Park
 Fire Protection
 District*

"PG&E's community-based gas safety initiatives will help keep San Mateo County residents and our first responders safe. As a fire chief, I know that response times in an emergency are critical and clearing obstructions to gas pipelines will help speed response times and save lives."



**ADRIENNE
ETHERTON**

*Executive
 Director,
 Sustainable
 San Mateo
 County*

"Sustainable San Mateo County is dedicated to the long-term health of our local environment and economy, and PG&E has been a committed partner in fulfilling our mission. We support their ongoing efforts to improve gas safety in our community for generations to come."

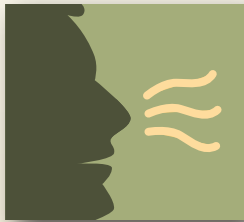
SAN MATEO COUNTY, CALIFORNIA
DECEMBER 2015 EDITION


Together

BUILDING A BETTER CALIFORNIA

IN THIS ISSUE

- Learn steps to help detect a possible gas leak



- Right tree, right place



- Local leaders speak out on safety



Working to Improve Emergency Access

AT PG&E, we are committed to the safety of our customers and the communities where they live and work. In San Mateo County, part of that commitment to safety includes making sure the area above a natural gas transmission line is clear of structures or trees that could block access for firefighters and safety crews in an emergency or natural disaster.



PG&E's Community Pipeline Safety Initiative works collaboratively with residents and community leaders to identify and replace any trees or structures located above the natural gas line to help ensure first responders and utility crews can quickly get to the pipeline and make it safe in an emergency.

Right Tree, Right Place: Proper Tree and Site Selection



THE BENEFITS of planting trees are abundant: they keep homes cool by providing shade, enhance property values and clean the air. If the right tree is not planted in the right

CONTINUED ON PAGE 2 →

The need to keep the area above the pipeline clear is similar to that of the area in front of a fire hydrant. We all know and understand the importance of never parking in the red zone in front of fire hydrants. While fire trucks don't need to regularly access the hydrant, when they do, they need immediate, unblocked access.

CONTINUED ON PAGE 3 →



SAFE



RELIABLE



AFFORDABLE



CLEAN



San Mateo County Leaders Speak Out on Safety

“Thrive, the Alliance of Nonprofits for San Mateo County, is committed to strengthening the economic and social health of San Mateo County, and PG&E is one of our strongest supporters. In addition to delivering some of the cleanest and most affordable energy



in the nation, PG&E has demonstrated a pro-active commitment to safety and helping all of our communities thrive”

—**PORCIA CHEN
SILVERBERG**

EXECUTIVE DIRECTOR,
THRIVE

“PG&E’s gas pipeline safety work is vitally important to first responders and the neighborhoods we work to protect across the Peninsula. Ensuring first responders can easily access gas pipelines in the event of an emergency is necessary to public safety and the upgrade work being performed.”

—**JOHN HEALY**

FIRE CHIEF FOR BELMONT, FOSTER
CITY AND CITY OF SAN MATEO



“The work PG&E is doing now to improve gas safety will help our first responders



better access pipelines in the event of an emergency.”

—**SCOTT JALBERT**

FIRE CHIEF FOR THE
SAN MATEO COUNTY FIRE
DEPARTMENT AND THE
COASTSIDE FIRE PROTECTION
DISTRICT

RIGHT TREE, RIGHT PLACE ...

CONTINUED FROM PAGE 1

place, however, it can cause public safety issues and power outages. In fact, more than 90 percent of tree-caused outages come from healthy trees and branches that fall or grow into power lines.

“Trees are a vital part of California’s natural beauty, and PG&E appreciates the many benefits they offer to communities,” said Patrick Hogan, vice president of asset management, PG&E. “In addition to beautifying property, cooling homes and cleaning the air, the right tree—planted in the right place—can help improve public safety by keeping areas above pipelines clear for first responders and our crews, reducing the likelihood that branches or limbs will contact an energized power line.”

Tips to Ensure the Right Tree is Planted in the Right Place

- When planting near gas or electric lines, only use the appropriate plants. You can learn more about planting the right tree in the right place by visiting <http://selecttree.calpoly.edu>.
- Call 8-1-1 at least two days before planting trees or landscaping, to have underground power lines and other utilities marked.
- Keep all trees, people and equipment away from electric power lines, including the lines from the pole to your home.
- If hiring a specialist to assist with tree care—whether that be trimming, removal or planting—do not have them work on trees within 10 feet of high voltage lines. Only PG&E’s OSHA certified contractors can work on trees within 10 feet of high voltage lines.
- You can email RightTreeRightPlace@pge.com for a free copy of PG&E’s *A Selection and Planting Guide to Small Trees Near Distribution Lines*.

BUILDING A BETTER CALIFORNIA

WORKING TO IMPROVE EMERGENCY ACCESS

CONTINUED FROM PAGE 1

Similarly, during a natural disaster or other emergency, trees or structures located over or around an underground pipe can delay access by emergency response crews. Pipeline safety experts and local first responders agree that keeping the area around gas pipelines safe and clear will speed up response times in the event of a gas leak. In an emergency, every second counts.

In situations when a tree or structure needs to be replaced for safety reasons, the local PG&E team will work closely with customers to replace the item.

In situations when a tree or structure needs to be replaced for safety reasons, the local PG&E team will work closely with customers to replace the item at a safe distance from the pipe while maintaining—and, in some instances, enhancing—the area's unique character and beauty.

We're committed to working together with our customers and community leaders to answer their questions and make sure they fully understand why this community gas safety work is so important. The safety of our customers, their families and our employees will always be our number one priority.

For more information on PG&E's Community Pipeline Safety Initiative, you can visit pge.com/GasSafety.

New Automated Gas Safety Valves Speed Emergency Response to Gas Leaks

Valve automation is one component of PG&E's system-improvement efforts. The valve automation program improves PG&E's ability to quickly shut off the flow of gas in the event of a significant change in pressure.

Valves can be opened or closed from PG&E's newly designed Gas Control Center, instead of requiring an employee to travel to the site to manually open or close the valve. Valves allow us to stop the flow of gas immediately to reduce damage during an emergency and allow community firefighters and police to respond more quickly.

Your awareness and actions can be critical to the safety of your home and community. Please report any signs of a gas leak immediately by calling 1-800-743-5000 and use these simple steps below to help detect a possible gas leak.

SIGHT



Be aware of dirt spraying in the air, continual bubbling in a pond or creek and dead or dying vegetation in an otherwise moist area.

SMELL



We add a distinctive, sulfur-like rotten egg odor to natural gas, so you can detect even small amounts.

SOUNDS



Pay attention to hissing, whistling or roaring sounds coming from underground or from a gas appliance.

Pacific Gas and Electric Company

PO Box 77000

San Francisco, CA 94105

"PG&E" refers to Pacific Gas and Electric Company, a subsidiary of PG&E Corporation. ©2015 Pacific Gas and Electric Company. All rights reserved. Paid for by PG&E shareholders.



Together, Building
a Better California

pge.com/GasSafety



"At PG&E, we are committed to protecting public safety and the environment. As an arborist, part of my job is to make sure our efforts to provide safe and reliable energy are always done in an environmentally friendly and sustainable way."

CHRIS HUGHES
Certified Arborist





«Date»

«Customer Name»

«Mail Address»

«Mail City, Mail State Mail Zip»

We will be calling you soon about important gas safety work to help ensure first responder safety access.

RE: Your Property at «Site Address», «Site City»

Dear «Customer Name»:

Nothing is more important to us than the safety of you, your family, and the community.

As you may know, as part of PG&E's Community Pipeline Safety Initiative, we are looking at the area above and around natural gas transmission pipelines to be certain that first responders, including firefighters and our own emergency response crews, have safe, immediate access to the pipeline in the event of an emergency or natural disaster.

Keeping You Safe and Answering Your Questions

During our recent safety review, **we noticed items, such as a trees, brush, sheds, and other obstacles, above the gas transmission pipeline that runs on or near your property that are located too close to the pipeline.** When left unaddressed, these items could prevent immediate access in an emergency and potentially cause damage to the pipe.

We completely understand you may have questions, and we're here to answer all of them. **I will be calling you within the next few days to share more information about this safety work and answer any questions you may have.**

We know how important trees are to you and your neighbors. They matter to our environment, our employees, and the customers we proudly serve. Our goal is to replace any trees that need to be moved, and to restore the beauty of your home, property and the community.

Working With You

We are committed to working together and finding a shared solution that ensures these items are placed a safe distance away from the pipe. Most importantly, these items will be replaced and/or restored at PG&E's expense. Above all, be assured that we will only move forward with planned safety work once we have reached an agreement together.

Again, if you have any questions please call or email me at any time. My direct contact information is below. I look forward to meeting with you soon.

Thank you,

«Land Agent Name»

Community Pipeline Safety Initiative

Pacific Gas and Electric Company

«Phone Number»

«Email Address»

- Para ayuda en español por favor llame al: **1-800-660-6789**
- 要用粵語/國語請求協助, 請致電: **1-800-893-9555**
- Kung kailangang makipag-usap sa nakakasalita ng Tagalog, tumawag sa: **1-800-743-5000**
- Để được giúp đỡ bằng tiếng Việt, xin gọi: **1-800-298-8438**

Learn More

For more information about our safety efforts to maintain the area above the pipeline, please visit our website at pge.com/GasSafety. Enclosed is a brochure describing additional steps we are taking to ensure the continued safe operation of the pipeline serving your community.



Pronto le estaremos llamando con relación a trabajos importantes de seguridad en las tuberías de gas para ayudar a que exista un acceso seguro al personal de respuesta ante emergencias.

Estimado vecino:

Nada es más importante para nosotros que la seguridad de usted, de su familia y de la comunidad.

Es probable que usted sepa que como parte de la Iniciativa Comunitaria de Seguridad en las tuberías de gas de PG&E, estamos revisando el área que se encuentra por encima y alrededor de las tuberías de transmisión de gas natural, con el fin de cerciorarnos de que el personal de respuesta ante emergencias, incluidos los bomberos y nuestras propias cuadrillas de respuesta en casos de emergencia, cuenten con un acceso seguro e inmediato a la tubería de gas si llegara a presentarse una emergencia o desastre natural.

Lo mantenemos seguro y contestamos sus preguntas

Durante nuestra reciente evaluación de seguridad, **identificamos objetos tales como árboles, arbustos, cobertizos, y otros obstáculos que se encuentran por encima de la tubería de transmisión de gas que pasa a través o cerca de su propiedad, y están ubicados muy cerca de la tubería.** Si no se hace algo al respecto, estos objetos podrían impedir el acceso inmediato durante una emergencia y ocasionar daños a la tubería de gas.

Comprendemos perfectamente que usted pueda tener preguntas y estamos a sus órdenes para contestarlas en su totalidad. **Le estaré llamando en los próximos días para proporcionarle más información acerca de estos trabajos de seguridad y contestar cualquier pregunta que pueda tener.**

Sabemos lo importante que son los árboles para usted y sus vecinos. Son importantes para nuestro medio ambiente, nuestros empleados y los clientes a quienes orgullosamente servimos. Nuestra meta es reemplazar los árboles que necesiten ser reubicados y restaurar la belleza de su hogar, propiedad y la comunidad.

Colaboramos con usted

Estamos comprometidos en trabajar conjuntamente y encontrar una solución compartida que permita que estos objetos estén ubicados a una distancia segura de la tubería de gas. Y lo más importante, el costo de reemplazar o restaurar estos objetos correrá por cuenta de PG&E. Sobre todo, tenga la plena confianza de que sólo daremos inicio al trabajo de seguridad planificado una vez que hayamos llegado a un acuerdo mutuo.

Una vez más, si tiene alguna pregunta por favor llame o envíeme un email en cualquier momento. Mi información de contacto se encuentra a continuación. Espero tener el gusto de reunirme con usted pronto.

Gracias,

«Land Agent Name»
Community Pipeline Safety Initiative
Pacific Gas and Electric Company
«Phone Number»
«Email Address»

- Para ayuda en español por favor llame al: 1-800-660-6789
- 要用粵語/國語請求協助, 請致電: 1-800-893-9555
- Kung kailangang makipag-usap sa nakakasalita ng Tagalog, tumawag sa: 1-800-743-5000
- Để được giúp đỡ bằng tiếng Việt, xin gọi: 1-800-298-8438

Más información

Si desea obtener más información acerca de nuestros esfuerzos para dar mantenimiento al área que se encuentra por encima de las tuberías de gas, por favor visite nuestro sitio web en pge.com/GasSafety. Adjunto, se encuentra un folleto que describe otras medidas que estamos tomando para el funcionamiento seguro y constante de la tubería de gas que brinda servicio a su comunidad.



«Date»

«CUSTOMER_NAME»
 OR CURRENT OCCUPANT
 «MAILING_ADDRESS2»
 «MAILING_ADDRESS»
 «MAILING_CITY», «MAILING_STATE» «MAILING_ZIP»

**PG&E invites you to
 neighborhood answer
 centers to learn more
 about upcoming gas
 safety work in your
 community.**

Dear «Customer_Name»,

As part of Pacific Gas and Electric Company's (PG&E) commitment to providing customers with the safest and most reliable gas system in the nation, you may have seen us in your neighborhood. In addition to our regular pipeline safety work, in every community we are checking the area above and around our natural gas transmission pipelines to help ensure immediate access for first responders in the event of an emergency, and prevent damage to the pipe.

Join Us at a Neighborhood Answer Center

It's important to us that our customers know about all of the safety work we are doing in Menlo Park and have the opportunity to ask questions and provide input. Please join us at one of our upcoming answer centers to learn more about PG&E's pipeline safety programs and planned safety work in your neighborhood. All interested community members are invited to drop in anytime during the answer centers.

Monday, May 8 7:30 a.m. to 10:30 a.m. Starbucks 325 Sharon Park Drive Menlo Park, Calif. 94025	Friday, May 12 7:30 a.m. to 10:30 a.m. Starbucks 325 Sharon Park Drive Menlo Park, Calif. 94025
--	---

Upcoming Gas Safety Work

PG&E recently reviewed structures, trees and brush located near the gas pipeline in Menlo Park. When these items are located too close to a gas transmission pipeline, they can threaten safety by blocking emergency access for first responders and preventing our crews from performing important maintenance work. For any tree or structure that needs to be replaced for safety reasons, PG&E works with the property owner to develop a plan that protects public safety while preserving the character and natural beauty of the area. This may include planting a new tree at a safe distance from the pipeline and other landscape restoration.

Learn More

If you have questions about our ongoing gas safety efforts or the upcoming safety work in your community, please contact me at the phone number or email address listed below. More information is also available at pge.com/GasSafety.

We look forward to working together on this important gas safety work, and hope to see you at one of our answer centers.

Sincerely,

Emily Sloan
 Customer Outreach Specialist
 Pacific Gas and Electric Company
 Phone: 1-650-737-2001
 Email: emily.sloan@pge.com

- Para ayuda en español por favor llame al: **1-800-660-6789**
- 要用粵語/國語請求協助, 請致電: **1-800-893-9555**
- Kung kailangang makipag-usap sa nakakasaliita ng Tagalog, tumawag sa: **1-800-743-5000**
- Để được giúp đỡ bằng tiếng Việt, xin gọi: **1-800-298-8438**

Community Pipeline Safety Initiative

Menlo Park, Calif.

May 2017

Quick Facts

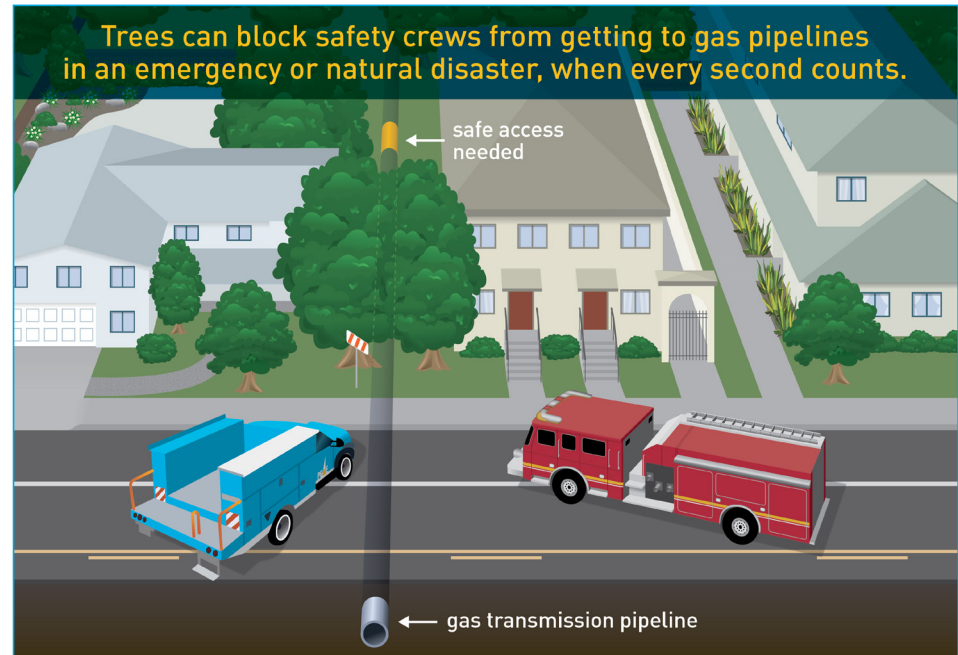
- PG&E's top priority is the safety of our customers and their families.
- Items like trees and bushes located too close to the pipeline can delay safety crews from getting to the pipeline in an emergency and making it safe.
- PG&E has been working closely with the City of Menlo Park to assess the area above the pipeline.
- Certain trees and bushes along Sand Hill Road between Highway 280 and Santa Cruz Avenue will need to be replaced for safety reasons.
- This gas safety work is scheduled to begin Summer 2017 and will take around three weeks to complete.
- There will be no interruption to your gas or electric service.

Learn More

- If you have questions about this upcoming gas safety work, please contact Emily Sloan at [1-650-737-2001](tel:1-650-737-2001) or by email at emily.sloan@pge.com.
- For more information about PG&E's pipeline safety programs, please visit our website at pge.com/GasSafety.

Sand Hill Road

Pacific Gas and Electric Company's (PG&E) top priority is the safety of our customers and communities. As part of this commitment to safety, we are checking the area above and around our natural gas transmission pipelines to help ensure immediate access for first responders and prevent damage to the pipe.



Items like trees and bushes can delay emergency response crews from quickly accessing the pipeline. Working closely with the City of Menlo Park, PG&E's gas safety experts conducted an in-depth review of the area above the gas transmission pipeline in the community. The results of the review were shared with the City and it was determined that some trees and bushes are located too close to the gas pipeline and need to be replaced for safety reasons.

Work Schedule

This gas safety work is scheduled to begin Summer 2017 along Sand Hill Road between Highway 280 and Santa Cruz Avenue. Work will be conducted Monday through Friday and is expected to take approximately three weeks to complete.

What to Expect

During this gas safety work, residents can expect the following:

- PG&E and contractor trucks parked in the area
- Traffic and pedestrian safety cones and signs marking the work area
- Use of mechanical and hand equipment/noise from the equipment
- Wood being run through a chipper and reused, or debris hauled off-site
- Minor traffic delays due to partial lane closures

Thank you for your cooperation and patience during this gas safety work.



**Pacific Gas and
Electric Company®**

«Date»

«CUSTOMER_NAME»
OR CURRENT OCCUPANT
«MAILING_ADDRESS2»
«MAILING_ADDRESS»
«MAILING_CITY», «MAILING_STATE» «MAILING_ZIP»

**PG&E invites you to
neighborhood answer
centers to learn more
about upcoming gas
safety work in your
community.**

Dear «Customer_Name»,

As part of Pacific Gas and Electric Company's (PG&E) commitment to providing customers with the safest and most reliable gas system in the nation, you may have seen us in your neighborhood. In addition to our regular pipeline safety work, in every community we are checking the area above and around our natural gas transmission pipelines to help ensure immediate access for first responders in the event of an emergency, and prevent damage to the pipe.

Join Us at a Neighborhood Answer Center

It's important to us that our customers know about all of the safety work we are doing in Menlo Park and have the opportunity to ask questions and provide input. Please join us at one of our upcoming answer centers to learn more about PG&E's pipeline safety programs and planned safety work in your neighborhood. All interested community members are invited to drop in anytime during the answer centers.

Wednesday, May 10 3:00 p.m. to 6:00 p.m. The Willows Market 60 Middlefield Road Menlo Park, Calif. 94025	Thursday, May 11 2:00 p.m. to 5:00 p.m. The Willows Market 60 Middlefield Road Menlo Park, Calif. 94025
--	---

Upcoming Gas Safety Work

PG&E recently reviewed structures, trees and brush located near the gas pipeline in Menlo Park. When these items are located too close to a gas transmission pipeline, they can threaten safety by blocking emergency access for first responders and preventing our crews from performing important maintenance work. For any tree or structure that needs to be replaced for safety reasons, PG&E works with the property owner to develop a plan that protects public safety while preserving the character and natural beauty of the area. This may include planting a new tree at a safe distance from the pipeline and other landscape restoration.

Learn More

If you have questions about our ongoing gas safety efforts or the upcoming safety work in your community, please contact me at the phone number or email address listed below. More information is also available at pge.com/GasSafety.

We look forward to working together on this important gas safety work, and hope to see you at one of our answer centers.

Sincerely,

Emily Sloan
Customer Outreach Specialist
Pacific Gas and Electric Company
Phone: 1-650-737-2001
Email: emily.sloan@pge.com

- Para ayuda en español por favor llame al: **1-800-660-6789**
- 要用粵語/國語請求協助, 請致電: **1-800-893-9555**
- Kung kailangang makipag-usap sa nakakasaliita ng Tagalog, tumawag sa: **1-800-743-5000**
- Để được giúp đỡ bằng tiếng Việt, xin gọi: **1-800-298-8438**



Community Pipeline Safety Initiative

Menlo Park, Calif.

May 2017

Quick Facts

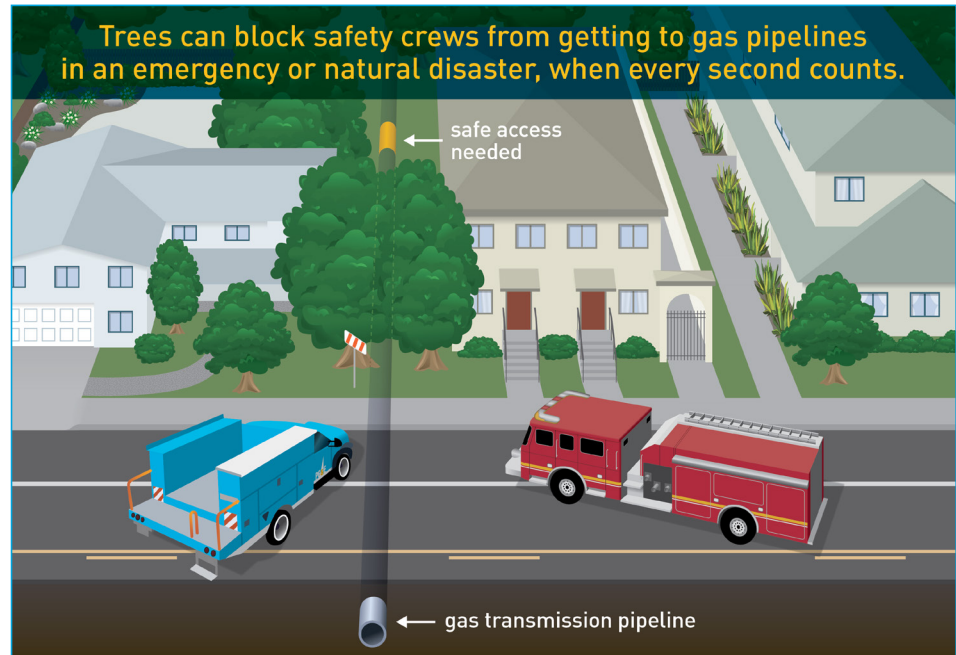
- PG&E's top priority is the safety of our customers and their families.
- Items like trees and bushes located too close to the pipeline can delay safety crews from getting to the pipeline in an emergency and making it safe.
- PG&E has been working closely with the City of Menlo Park to assess the area above the pipeline.
- Certain trees and bushes along Middlefield Road between Ringwood Avenue and Willow Road will need to be replaced for safety reasons.
- This gas safety work is scheduled to begin Summer 2017 and will take around two weeks to complete.
- There will be no interruption to your gas or electric service.

Learn More

- If you have questions about this upcoming gas safety work, please contact Emily Sloan at **1-650-737-2001** or by email at emily.sloan@pge.com.
- For more information about PG&E's pipeline safety programs, please visit our website at pge.com/GasSafety.

Middlefield Road

Pacific Gas and Electric Company's (PG&E) top priority is the safety of our customers and communities. As part of this commitment to safety, we are checking the area above and around our natural gas transmission pipelines to help ensure immediate access for first responders and prevent damage to the pipe.



Items like trees and bushes can delay emergency response crews from quickly accessing the pipeline. Working closely with the City of Menlo Park, PG&E's gas safety experts conducted an in-depth review of the area above the gas transmission pipeline in the community. The results of the review were shared with the City and it was determined that some trees and bushes are located too close to the gas pipeline and need to be replaced for safety reasons.

Work Schedule

This gas safety work is scheduled to begin Summer 2017 along Middlefield Road between Ringwood Avenue and Willow Road. Work will be conducted Monday through Friday and is expected to take approximately two weeks to complete.

What to Expect

During this gas safety work, residents can expect the following:

- PG&E and contractor trucks parked in the area
- Traffic and pedestrian safety cones and signs marking the work area
- Use of mechanical and hand equipment/noise from the equipment
- Wood being run through a chipper and reused, or debris hauled off-site
- Minor traffic delays due to partial lane closures

Thank you for your cooperation and patience during this gas safety work.



**Pacific Gas and
Electric Company®**

«Date»

«CUSTOMER_NAME»
OR CURRENT OCCUPANT
«MAILING_ADDRESS2»
«MAILING_ADDRESS»
«MAILING_CITY», «MAILING_STATE» «MAILING_ZIP»

**PG&E invites you to a
neighborhood answer
center to learn more
about upcoming gas
safety work in your
community.**

Dear «Customer_Name»,

As part of Pacific Gas and Electric Company's (PG&E) commitment to providing customers with the safest and most reliable gas system in the nation, you may have seen us in your neighborhood. In addition to our regular pipeline safety work, in every community we are checking the area above and around our natural gas transmission pipelines to help ensure immediate access for first responders in the event of an emergency, and prevent damage to the pipe.

Join Us at a Neighborhood Answer Center

It's important to us that our customers know about all of the safety work we are doing in Menlo Park and have the opportunity to ask questions and provide input. Please join us at our upcoming answer center to learn more about PG&E's pipeline safety programs and planned safety work in your neighborhood. All interested community members are invited to drop in anytime during the answer center.

Saturday, May 13
8:30 a.m. to 11:30 a.m.
Oil Changers
944 Willow Road
Menlo Park, Calif. 94025

Upcoming Gas Safety Work

PG&E recently reviewed structures, trees and brush located near the gas pipeline in Menlo Park. When these items are located too close to a gas transmission pipeline, they can threaten safety by blocking emergency access for first responders and preventing our crews from performing important maintenance work. For any tree or structure that needs to be replaced for safety reasons, PG&E works with the property owner to develop a plan that protects public safety while preserving the character and natural beauty of the area. This may include planting a new tree at a safe distance from the pipeline and other landscape restoration.

Learn More

If you have questions about our ongoing gas safety efforts or the upcoming safety work in your community, please contact me at the phone number or email address listed below. More information is also available at pge.com/GasSafety.

We look forward to working together on this important gas safety work, and hope to see you at our answer center.

Sincerely,

Emily Sloan
Customer Outreach Specialist
Pacific Gas and Electric Company
Phone: 1-650-737-2001
Email: emily.sloan@pge.com

- Para ayuda en español por favor llame al: **1-800-660-6789**
- 要用粵語/國語請求協助, 請致電: **1-800-893-9555**
- Kung kailangang makipag-usap sa nakakasalita ng Tagalog, tumawag sa: **1-800-743-5000**
- Để được giúp đỡ bằng tiếng Việt, xin gọi: **1-800-298-8438**

Community Pipeline Safety Initiative

Menlo Park, Calif.

May 2017

Quick Facts

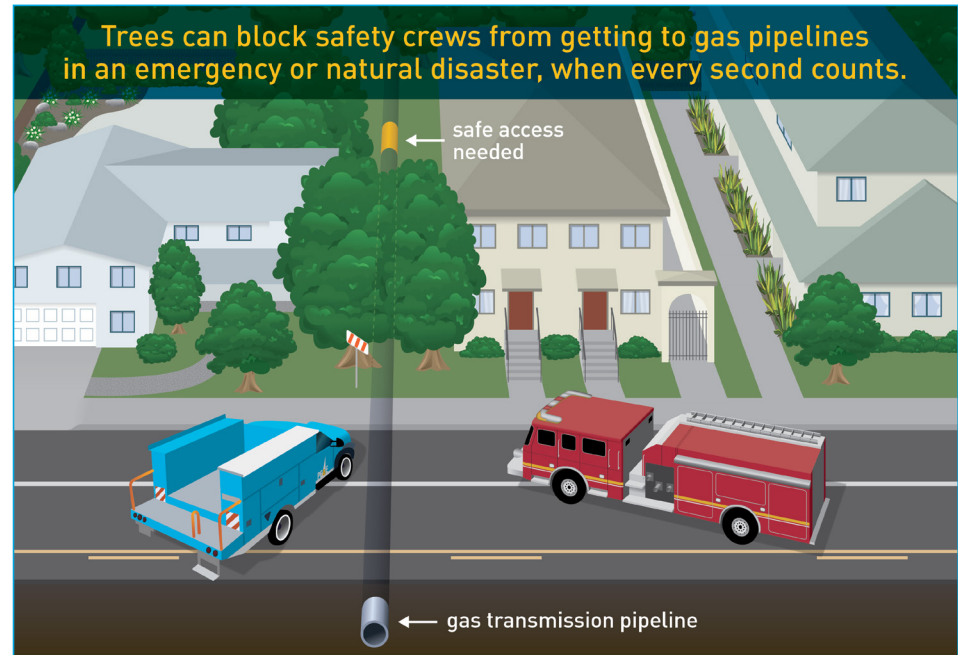
- PG&E's top priority is the safety of our customers and their families.
- Items like trees and bushes located too close to the pipeline can delay safety crews from getting to the pipeline in an emergency and making it safe.
- PG&E has been working closely with the City of Menlo Park to assess the area above the pipeline.
- Certain trees and bushes along Van Buren Road between Iris Lane and Bay Road will need to be replaced for safety reasons.
- This gas safety work is scheduled to begin Summer 2017 and will take around one week to complete.
- There will be no interruption to your gas or electric service.

Learn More

- If you have questions about this upcoming gas safety work, please contact Emily Sloan at [1-650-737-2001](tel:1-650-737-2001) or by email at emily.sloan@pge.com.
- For more information about PG&E's pipeline safety programs, please visit our website at pge.com/GasSafety.

Van Buren Road

Pacific Gas and Electric Company's (PG&E) top priority is the safety of our customers and communities. As part of this commitment to safety, we are checking the area above and around our natural gas transmission pipelines to help ensure immediate access for first responders and prevent damage to the pipe.



Items like trees and bushes can delay emergency response crews from quickly accessing the pipeline. Working closely with the City of Menlo Park, PG&E's gas safety experts conducted an in-depth review of the area above the gas transmission pipeline in the community. The results of the review were shared with the City and it was determined that some trees and bushes are located too close to the gas pipeline and need to be replaced for safety reasons.

Work Schedule

This gas safety work is scheduled to begin Summer 2017 along Van Buren Road between Iris Lane and Bay Road. Work will be conducted Monday through Friday and is expected to take approximately one week to complete.

What to Expect

During this gas safety work, residents can expect the following:

- PG&E and contractor trucks parked in the area
- Traffic and pedestrian safety cones and signs marking the work area
- Use of mechanical and hand equipment/noise from the equipment
- Wood being run through a chipper and reused, or debris hauled off-site
- Minor traffic delays due to partial lane closures

Thank you for your cooperation and patience during this gas safety work.



«Date»

PG&E is doing gas safety work in your neighborhood. Please contact us with any questions.

«CUSTOMER_NAME»

Or Current Occupant

«MAILING_ADDRESS2»

«MAILING_ADDRESS»

«MAILING_CITY», «MAILING_STATE» «MAILING_ZIP»

Dear «Customer_Name»,

As part of Pacific Gas and Electric Company's (PG&E) commitment to keeping our customers and communities safe, you may have seen us working in your neighborhood.

In addition to our regular pipeline safety work, in every community we are looking at the area above and around the natural gas transmission lines to be certain that first responders, including firefighters and our own emergency response crews, have safe, immediate access to the pipeline in the event of an emergency or natural disaster.

Working Together to Improve Community Safety

When trees, bushes and structures are located too close to the gas pipeline, they can threaten safety because they can block emergency access and prevent our crews from performing important safety work. We are working together with the local community to ensure any items are placed a safe distance from the pipeline and the area is restored.

This work is just one of many gas safety efforts currently underway, including:

- **Pipeline Inspection** using high-tech devices to look for signs of corrosion and other weakness, and hydrostatic pressure testing to verify pipeline's strength and safe operating pressure
- **Valve Automation** to allow faster response times during emergencies
- **Pipeline Retrofits** to ensure we can properly perform internal inspections
- **Leak Surveying** with advanced laser-detection technology, by foot, vehicle, air and even by boat

Ask Questions or Learn More

If you have any questions or to learn more about our pipeline safety work in your neighborhood, please contact **your local PG&E representative Emily Sloan at 1-650-737-2001 or emily.sloan@pge.com**. More information can also be found online at pge.com/GasSafety, or in the enclosed brochure.

We appreciate your patience and cooperation as we work together to make your community safer. Thank you.

Sincerely,

Frank Salguero
Peninsula Division Senior Manager
Pacific Gas and Electric Company



Be Safe. Dig Safe. Damage from excavation is the most common cause of pipeline accidents. Before you begin any landscaping work, always call 811 at least two business days in advance. With one free call to 811, PG&E will send a crew to mark our underground gas and electric facilities before you begin work, helping you plan a safe project.

Como parte del compromiso de Pacific Gas and Electric Company (PG&E) con la seguridad de nuestros clientes y comunidades, usted nos puede haber visto trabajando en su vecindario. Además de nuestro mantenimiento preventivo destinado a la seguridad de la tubería de gas, en todas las comunidades estamos evaluando el área que se encuentra por encima y alrededor de las tuberías de transmisión de gas natural, con el fin de cerciorarnos de que el personal de respuesta ante emergencias, incluidos los bomberos y nuestras propias, cuenten con un acceso seguro e inmediato a la tubería de gas, si llegara a presentarse una emergencia o desastre natural.

Cuando los árboles, arbustos y estructuras están situados muy cerca de la tubería de gas, pueden representar una amenaza para la seguridad, dado que pueden obstruir el acceso de emergencia e impedir que nuestras cuadrillas lleven a cabo importantes tareas de seguridad. Estamos trabajando en conjunto con la comunidad local a fin de asegurarnos de que todos los objetos sean colocados a una distancia segura de la tubería de gas y que el área sea restaurada.

Estas labores son apenas uno de los diversos esfuerzos que se están llevando a cabo actualmente para incrementar la seguridad relacionada con el gas. Si tiene alguna pregunta o desea obtener información adicional acerca de las obras para reforzar la seguridad de la tubería de gas en su comunidad, por favor llámenos al **1-877-259-8314**. Puede encontrar más información en Internet en **pge.com/GasSafety**, o en el folleto que se adjunta. Agradecemos su paciencia y cooperación mientras trabajamos para la seguridad de su comunidad.

Pacific Gas and Electric Company (PG&E) 承諾保障用戶和社區安全，為此，您可能曾在居住所在區域看過我們施工。除了定期維護管路安全之外，我們會在各個社區檢查天然煤氣輸送管上方和四周區域，以確保當緊急事故或天災發生時，包括消防員和本公司緊急應變小組在內的第一線應變人員能即刻安全抵達管路所在之處。

若樹木、樹叢或建築物太靠近煤氣輸送管，可能會阻擋緊急通道，妨礙應變小組進行重要的安全作業，進而造成安全威脅。因此，我們正與當地社區密切合作，確保這些障礙物都被移開，與輸送管保持安全距離。

這項作業只是我們正在進行的多項煤氣安全措施之一。若您對我們在您居住社區的管路安全作業有任何疑問，或想瞭解更多資訊，請撥打我們的電話：**1-877-259-8314**。您亦可瀏覽我們的網站 **pge.com/GasSafety**，或參閱內附小冊以瞭解更多資訊。非常感謝您的耐心配合，讓我們攜手打造更安全的社區。

Là một phần trong cam kết của Công Ty Pacific Gas and Electric (PG&E) đảm bảo an toàn cho khách hàng và cộng đồng của chúng tôi, quý vị có lẽ đã nhìn thấy chúng tôi làm việc trong khu phố của quý vị. Tại mỗi cộng đồng, ngoài các hoạt động thường xuyên để giữ đường ống an toàn, chúng tôi cũng quan sát các khu vực ở trên và xung quanh các đường ống dẫn khí đốt để đảm bảo rằng các nhân viên ứng phó khẩn cấp, bao gồm nhân viên cứu hỏa và các đội ứng phó khẩn cấp của chúng tôi, có thể tiếp cận các đường ống ngay tức thời và an toàn khi có trường hợp khẩn cấp hay thiên tai.

Khi cây cối, bụi rậm và các vật cấu trúc nằm quá gần đường ống dẫn khí, có thể đe dọa sự an toàn vì các vật này có thể chặn lối vào khẩn cấp và gây trở ngại cho các đội ứng phó của chúng tôi trong việc thực hiện công tác an toàn thiết yếu. Chúng tôi đang làm việc với cộng đồng địa phương để đảm bảo bất kỳ vật nào cũng được đặt cách đường ống một khoảng cách an toàn và khu vực được phục hồi.

Công việc này chỉ là một trong nhiều những nỗ lực đảm bảo an toàn về khí đốt hiện đang được thực hiện. Nếu quý vị có bất kỳ thắc mắc nào hay muốn biết thêm về công tác an toàn đường ống của chúng tôi trong khu phố của quý vị, vui lòng gọi cho chúng tôi qua số **1-877-259-8314**. Quý vị có thể tìm thêm thông tin chi tiết qua trực tuyến tại **pge.com/GasSafety**, hay trong tập thông tin đính kèm. Chúng tôi hoan nghênh sự kiên nhẫn và hợp tác của quý vị khi chúng ta cùng làm việc với nhau để cho cộng đồng của quý vị an toàn hơn.

Kung kailangang makipag-usap sa nakakasalita ng Tagalog, tumawag sa: **1-800-743-5000**.



«Date»

PG&E will soon be doing gas safety work near your property to help ensure first responder safety access.

«CUSTOMER_NAME»

Or Current Occupant

«MAILING_ADDRESS2»

«MAILING_ADDRESS»

«MAILING_CITY», «MAILING_STATE» «MAILING_ZIP»

Dear «Customer_Name»,

Nothing is more important to us than the safety of the customers and communities we proudly serve.

In addition to making sure that the pipeline is operating safely, in every community PG&E is also looking at the area above and around the natural gas transmission pipelines to be certain that first responders, including firefighters and our own emergency response crews, have safe, immediate access to the pipeline in the event of an emergency or natural disaster.

Working Together

When located too close to the pipeline, items like trees and brush can threaten safety because they can block emergency access and potentially cause damage to the pipe. That's why we are working closely with the local community to ensure these items are placed at a safe distance. This can include planting new trees and other landscape restoration to preserve the beauty of the community while keeping you, your family and the community safe.

Upcoming Gas Safety Work

In the next few weeks, **PG&E crews are scheduled to begin gas safety work in your area. Our crews will be replacing trees or bushes that are located too close to the pipeline and restoring the area.** If you have any questions about this project, please contact:

Emily Sloan at 1-650-737-2001 or by email at emily.sloan@pge.com

For more information about our ongoing gas safety work, please visit our website at **pge.com/GasSafety** or call us at **1-877-259-8314**.

Thank you for your patience and cooperation as we work together to make our communities safer. Again, if you have any questions, please reach out to us at any time.

Sincerely,

Frank Salguero
Peninsula Division Senior Manager
Pacific Gas and Electric Company



Be Safe. Dig Safe. Damage from excavation is the most common cause of pipeline accidents. Before you begin any landscaping work, always call 811 at least two business days in advance. With one free call to 811, PG&E will send a crew to mark our underground gas and electric facilities before you begin work, helping you plan a safe project.

Nada es más importante para Pacific Gas & Electric (PG&E) que la seguridad de los clientes y las comunidades a las que orgullosamente servimos. Además de verificar que la tubería de gas funcione de manera segura, en todas las comunidades también estamos evaluando el área que se encuentra por encima y alrededor de las tuberías de transmisión de gas natural, con el fin de cerciorarnos de que el personal de respuesta ante emergencias, incluidos los bomberos y nuestras propias cuadrillas de respuesta de emergencia, cuenten con un acceso seguro e inmediato a la tubería de gas, si llegara a presentarse una emergencia o desastre natural.

Cuando objetos tales como árboles y arbustos se encuentran ubicados muy cerca de la tubería de gas, pueden atentar contra la seguridad, obstruir el acceso de emergencia y potencialmente, ocasionar daños a la tubería. Es por esto que estamos trabajando de forma estrecha con la comunidad local para asegurarnos de que estos objetos estén colocados a una distancia segura. Esto puede incluir plantar nuevos árboles y otro tipo de restauración de jardinería ornamental para preservar la belleza del área, mientras que se a la comunidad segura.

En las próximas semanas, cuadrillas de PG&E tienen programado iniciar labores para reforzar la seguridad de las tuberías de gas en su área. Nuestras cuadrillas reemplazarán árboles o arbustos que estén situados muy cerca de la tubería y restaurarán el área. Si tiene alguna pregunta sobre este proyecto, por favor llámenos al **1-877-259-8314**. Muchas gracias por su paciencia y su cooperación mientras trabajamos para la seguridad de la comunidad.

對 Pacific Gas & Electric (PG&E) 而言，沒有任何事比確保用戶和社區的安全更為重要。除了確保管路安全運作之外，我們也在各個社區檢查煤氣輸送管上方和四周區域，以確保當緊急事故或天災發生時，包括消防員和本公司緊急應變小組在內的第一線應變人員能即刻安全抵達管路所在之處。

若樹木、樹叢或建築物太靠近煤氣輸送管，可能會阻擋緊急通道並損害管路，造成安全威脅。因此，我們正與當地社區密切合作，確保這些障礙物都被移開，與輸送管保持安全距離。相關的作業可能包括種植新樹和進行其他景觀復原工作，希望在確保社區安全的同時，能維護該區的美麗樣貌。

未來幾週，PG&E 工程小組將在您的區域展開煤氣安全作業。小組人員會把太靠近輸送管的樹木或樹叢移開，並於事後將此區復原。如對此項目有任何疑問，請撥打我們的電話：**1-877-259-8314**。謝謝您的耐心配合，讓我們攜手打造更安全的社區。

Đối với Pacific Gas & Electric (PG&E) không có gì quan trọng hơn sự an toàn của các khách hàng và các cộng đồng mà chúng tôi rất tự hào được phục vụ. Tại mỗi cộng đồng, ngoài việc đảm bảo các đường ống đang hoạt động an toàn, chúng tôi cũng quan sát các khu vực ở trên và xung quanh các đường ống dẫn khí đốt để đảm bảo rằng để đảm bảo rằng các nhân viên ứng phó khẩn cấp, bao gồm nhân viên cứu hỏa các đội ứng phó khẩn cấp của chúng tôi, có thể tiếp cận các đường ống ngay tức thời và an toàn khi có trường hợp khẩn cấp hay thiên tai.

Khi ở quá gần đường ống, các vật như cây cối và bụi rậm có thể đe dọa đến sự an toàn vì chúng có thể chặn lối vào khẩn cấp và gây nguy cơ làm hư hỏng đường ống. Đó là lý do vì sao chúng tôi đang làm việc chặt chẽ với cộng đồng địa phương nhằm đảm bảo các vật này được đặt ở một khoảng cách an toàn. Việc này có thể bao gồm việc trồng các cây mới và tái lập cảnh quan khác nhằm gìn giữ vẻ đẹp của khu vực trong khi vẫn đảm bảo cộng đồng được an toàn.

Trong vài tuần tới, các đội của PG&E đã được lên lịch khởi động công tác an toàn về khí đốt trong khu vực của quý vị. Các đội của chúng tôi sẽ thay thế các cây hay bụi rậm nằm quá gần đường ống và sẽ tái tạo lại khu vực. Nếu quý vị có bất kỳ thắc mắc nào về dự án này, vui lòng gọi cho chúng tôi qua số **1-877-259-8314**. Xin cảm ơn quý vị đã kiên nhẫn hợp tác để chúng ta cùng chung tay làm việc vì một cộng đồng an toàn hơn.

Kung kailangang makipag-usap sa nakakasalita ng Tagalog, tumawag sa: **1-800-743-5000**.

**Working to enhance
gas safety in your
community.**

Sorry we missed you.

Please see enclosed materials
for more information.

**Lamentamos no
haberlo encontrado.**

Para más información,
por favor lea el material incluido.



**Together, Building
a Better California**

"PG&E" refers to Pacific Gas and Electric Company, a subsidiary of PG&E Corporation.
©2014 Pacific Gas and Electric Company. All rights reserved. CCC 0815-9700



«Date»

«CUSTOMER_NAME»
 Or Current Occupant
 «MAILING_ADDRESS2»
 «MAILING_ADDRESS»
 «MAILING_CITY», «MAILING_STATE» «MAILING_ZIP»

Thank you for your patience and cooperation during PG&E's recent gas safety work in your neighborhood. Please read this letter for more information.

Dear «Customer_Name»,

On behalf of Pacific Gas and Electric Company (PG&E), I would like to thank you for your patience and understanding during our recent gas safety work in your neighborhood. Every day, we are working to build the safest and most reliable gas system for you, your family and the communities we serve. It is thanks to your cooperation that first responders and emergency response crews will now be able to quickly access the pipeline in the event of an emergency or natural disaster.

Keeping the area above the gas pipeline clear of items that could delay emergency access means a safer community for you and your neighbors as well as our employees. In the future, you will continue to see PG&E crews working in your neighborhood to ensure the ongoing delivery of safe and reliable electric and gas service.

For more information about how you can help keep your community safe and beautiful, please see the enclosed guidance on landscaping near underground gas pipelines. More information can also be found by visiting pge.com/GasSafety or calling us at **1-877-259-8314**.

If you have any questions or feedback on the experience you had with our work, please do not hesitate to contact me at the phone or email below. You may also receive a survey from us over the next couple of weeks, and we hope you will take the time to share your thoughts with us.

Thank you again for your support of this important gas safety work.

Sincerely,

Emily Sloan
 Customer Outreach Specialist
 Pacific Gas and Electric Company
 Phone: 1-650-737-2001
 Email: emily.sloan@pge.com

- Para ayuda en español por favor llame al: **1-800-660-6789**
- 要用粵語/國語請求協助, 請致電: **1-800-893-9555**
- Kung kailangang makipag-usap sa nakakasalita ng Tagalog, tumawag sa: **1-800-743-5000**
- Để được giúp đỡ bằng tiếng Việt, xin gọi: **1-800-298-8438**



Be Safe. Dig Safe.

Before you begin any landscaping work, always call **811** at least two business days in advance. With one free call to **811**, PG&E will send a crew that can mark our underground gas and electric facilities before you begin work, helping you plan a safe project.

Environmental Quality Commission



REGULAR MEETING MINUTES - DRAFT

Date: 3/15/2017
Time: 6:30 p.m.
City Hall/Administration Building
701 Laurel St., Menlo Park, CA 94025

A. Chair Martin called the meeting to order at 6:34 p.m.

B. Roll Call

Present: Allan Bedwell, Chris DeCardy, Joyce Dickerson (arrived 6:38 p.m.), Vice Chair Janelle London, Chair Deb Martin Scott Marshall, Christina Smolke (arrived 6:37 p.m.)

Staff: Clay Curtin, Assistant to the City Manager/Interim Sustainability Manager
Vanessa Marcadejas, Senior Sustainability Specialist

C. Public Comment

No one from the audience provided public comment.

D. Regular Business

D1. Informational presentation on the San Francisquito Creek Joint Powers Authority's current flood control projects

Project Manager Tess Byler and Senior Project Manager Kevin Murray of the San Francisquito Creek Joint Powers Authority provided a presentation to the commission.

D2. Make a determination on an appeal for three coast redwood heritage trees at 9 Hesketh Drive

City Arborist Christian Bonner provided a brief overview of his evaluation of the tree and his reasons for approving the removal permit.

Appellant John Fox provided a presentation to the commission and stated his opposition to the removal due to the negative aesthetic impact it would have on the neighborhood canopy. Mr. Fox also spoke about his efforts to work with the property owner and surrounding neighbors on mitigation options.

Property owner Karen Wang stated that her original intent was to keep the trees, but they are causing property damage resulting in her family's underutilization of the backyard. She also stated that she had spent time collaborating with neighbors on potential mitigation options for retaining the trees, but a resolution was not reached.

Public comment on the item:

- Yvonne Murray stated support for the appeal to retain the trees.

- Kirk Gould stated his interest in maintaining the neighborhood canopy's character and was undecided on retaining or removing the trees.
- Besty Nash stated support for the appeal to retain the trees. She also read a letter from her husband, Horace Nash, stating support for the appeal to retain the trees.

ACTION: Motion and second (Bedwell/DeCardy) to deny the appeal and uphold staff's recommendation to remove the trees based on the heritage tree criteria stated in the staff report, passes (6-1) (Ayes: Bedwell, DeCardy, Dickerson, Marshall, Martin, Smolke; Nays: London)

Commissioner Smolke left the meeting at 8:47 p.m.

- D3. Discuss and potentially select a representative to the Oversight and Outreach Committee of the Bedwell Bayfront Park Master Plan project

Commissioner Bedwell recused himself from the meeting for this item at 8:50 p.m.

Clay Curtin provided an update to the commission.

ACTION: Motion and second (Martin/Dickerson) to select Vice Chair London as the representative to the Oversight and Outreach Committee of the Bedwell Bayfront Park Master Plan project, with Chair Martin as the backup representative passes (5-0-2) (Ayes: Dickerson, DeCardy, London, Marshall, Martin; Absent: Smolke, Bedwell)

Commissioner Bedwell returned to the meeting at 8:56 p.m.

- D4. Discuss Arbor Day tree planting event

Clay Curtin provided an update to the commission, including the Mayor's request for a tree planting the first week of April. Mr. Curtin also stated staff's commitment to supporting an additional tree planting later in the month, if needed.

Several commissioners stated that they were unavailable for the Mayor's event. The commission expressed an interest in continuing to hold the annual Arbor Day tree planting event and discussed potential tree planting locations for an event later in April. Chair Martin stated she would continue to work with staff in coordinating the event.

- D5. Approve Feb. 22, 2017, Environmental Quality Commission meeting minutes

ACTION: Motion and second (DeCardy/London) to approve the Feb. 22, 2017, meeting minutes passes (5-0-1-1) (Ayes: Bedwell, DeCardy, London, Marshall, Martin; Abstain: Dickerson, Absent: Smolke)

City Councilmember Ray Mueller, liaison to the Environmental Quality Commission, joined the meeting at 9:21 p.m.

E. Reports and Announcements

- E1. Commissioner reports

Commissioner Marshall provided an update on the Feb. 27 tree tour with PG&E which highlighted some of the public street trees planned for removal as part of the California Pipeline Safety Initiative.

Vice Chair London updated the commission on her meeting with Diane Bailey from Menlo Spark to discuss the Peninsula Advanced Energy Community grant and expressed interest in inviting Ms. Bailey to provide an update at the next Environmental Quality Commission meeting.

Vice Chair London also updated the commission on the Green Ninja program, which incorporates science and environmental awareness curriculum to middle schools, and expressed interest in inviting Green Ninja to provide an informational presentation at a future Environmental Quality Commission meeting.

Chair Martin announced that the Climate Action Plan subcommittee was planning to meet soon.

Chair Martin also announced that her term on the Environmental Quality Commission ends April 30, 2017, and that she was still determining whether to reapply.

Commissioner DeCardy left the meeting at 9:35 p.m.

E2. Staff updates

Vanessa Marcadejas updated the commission on the status of the heritage tree ordinance update project. Staff will soon select a consultant for the project, pending the completion of consultant interviews March 24, 2017.

E3. Future agenda items

- PG&E's proposed tree removal mitigation plan related to the California Pipeline Safety Initiative program
- Community Zero Waste Plan recommendation to the City Council
- Update on Peninsula Advanced Energy Community projects
- Update on the Arbor Day Tree Planting event
- Update on the Earth Day event
- Update on Climate Action Plan progress and greenhouse gas emissions inventory
- Informational presentation on the Green Ninja program
- Update on Peninsula Clean Energy enrollments
- Update on Bedwell Bayfront Park Master Plan project

F. Adjournment

ACTION: Motion and second (Marshall/London) to adjourn the Environmental Quality Commission until the April 19, 2017, regular meeting passes (5-0-2) (Ayes: Bedwell, Dickerson, London, Marshall, Martin; Absent: DeCardy, Smolke)

Chair Martin adjourned the meeting at 9:50 p.m.

Minutes prepared by Vanessa Marcadejas.



Upstream of Hwy. 101 EIR and SAFER

March 15, 2017 6:30 p.m.

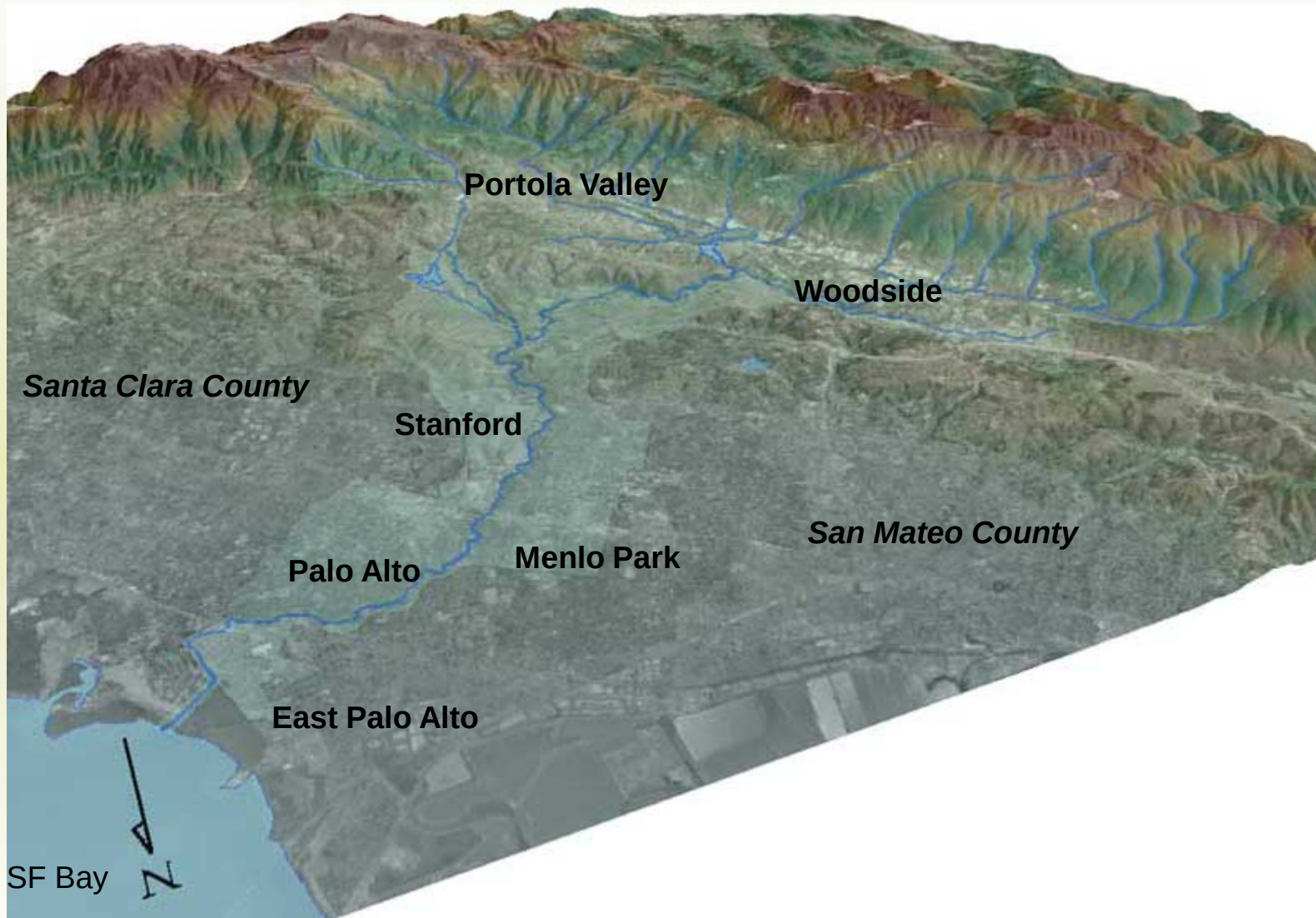
Menlo Park Environmental Quality Commission

Outline

- 1. Overview of SFCJPA**
- 2. Description of Current Projects: Downstream, SAFER and Upstream**
- 3. Upstream EIR**
- 4. Challenges and Constraints**
- 5. Comments/Questions**



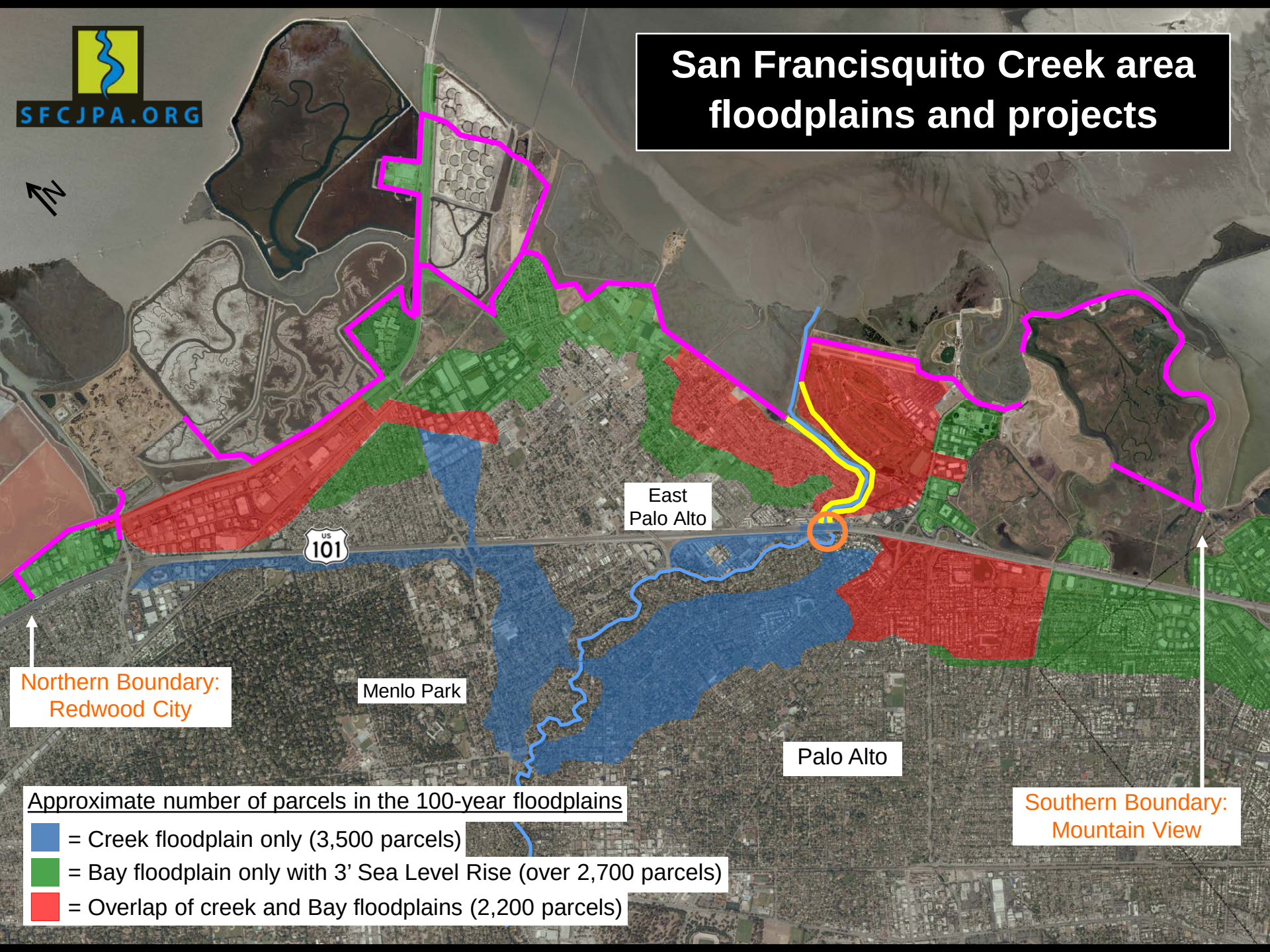
San Francisquito Watershed



SFCJPA Formed of Need



San Francisquito Creek area floodplains and projects



Approximate number of parcels in the 100-year floodplains

- = Creek floodplain only (3,500 parcels)
- = Bay floodplain only with 3' Sea Level Rise (over 2,700 parcels)
- = Overlap of creek and Bay floodplains (2,200 parcels)



Fluvial Project Summary

Phase 1: S.F. Bay to Highway 101- under construction

Phase 2: Highway 101 overcrossing (Caltrans project)- under construction

Phase 3: Upstream of Highway 101



Phases represent construction phasing in chronological order, beginning the summer of 2011

1849



2100



Source: Will Travis

SAFER Bay Project

Report available at

www.sfcjpa.org

*Working on adjacent
alignments in Palo Alto*

Planning for next steps



Public Draft Feasibility Report

SAFER Bay Project

Strategy to Advance
Flood protection, Ecosystems and
Recreation along San Francisco Bay

East Palo Alto and Menlo Park

(Task Order 1)

October 2016



SFCJPA.ORG

San Francisquito Creek
Joint Powers Authority

615 B Menlo Avenue
Menlo Park, CA 94025



Upstream of Highway 101

Recent Public meetings:

- January 18, 2017 in Menlo Park
- January 26, 2017 in East Palo Alto
- January 31, 2017 in Palo Alto
- February 1, 2017 at 7:00 PM, Menlo Park City Council Chambers

Deadline for comments was March 10, but we intend to continue a robust stakeholder process



JPA EIR & Corps EIS

We are in partnership with the Corps of Engineers to preserve the possibility that the federal government will cost-share construction, to bring federal permitting agencies into project planning sooner, and to advance certification of a reduced FEMA floodplain after the project.

The scopes of the SFCJPA's EIR and Corps' Environmental Impact Statement are slightly different. **If the preferred project in each document differs, the project that will be built is the locally preferred project.**

For project features analyzed in both documents, if the SFCJPA begins construction before federal funding is appropriated, we will seek credit from the federal government towards later construction.

Revised Notice of Preparation

Draft Environmental Impact Report

San Francisquito Creek Flood Protection, Ecosystem Restoration, and Recreation Project

Upstream of Highway 101

This notice announces that a Draft Environmental Impact Report (EIR) will be prepared for the San Francisquito Creek Flood Protection, Ecosystem Restoration, and Recreation Project, Upstream of Highway 101 (Project) to identify, evaluate, and disclose possible environmental impacts, and to develop strategies to avoid, reduce, or compensate for any significant impacts.

DEPARTMENT OF DEFENSE

Department of the Army, Corps of Engineers

Intent To Prepare an Integrated Feasibility Study/Environmental Impact Statement for the San Francisquito Creek Flood Risk Management Study, San Mateo and Santa Clara Counties, CA

AGENCY: Department of the Army, U.S.
Army Corps of Engineers, DOD.

ACTION: Notice of intent.

SUMMARY: The Department of the Army and the San Francisquito Creek Joint Powers Authority (SFCJPA) hereby give notice of intent to prepare an integrated Feasibility Study/Environmental Impact Statement (FS/EIS) for the San Francisquito Creek Flood Risk Management Project in San Mateo and Santa Clara Counties, CA to consider opportunities to reduce fluvial flooding, to reduce the risk to public safety due



Upstream: Evaluating Alternatives

EIR/EIS objective: to evaluate the environmental impacts of project alternatives that can meet the community's objectives and can minimize those impacts

Scoping meeting objective: to briefly describe the scope of the SFCJPA EIR/EIS, and to receive public comments on:

- our proposed project objectives
- the potential environmental impacts we propose to analyze
- if we should study additional technically feasible alternatives for how well they meet project objectives and minimize impacts.



Specific project objectives

- **protect property and infrastructure from floodwaters exiting the creek, while minimizing impacts to adjacent communities and the environment;**
- **enhance habitat within the Project area, particularly inter-connected habitat for threatened and endangered species;**
- **create new recreational opportunities and connect to existing bike and pedestrian corridors;**
- **minimize operational and maintenance requirements; and**
- **identify alternatives that would not preclude future actions to increase cumulative flood protection.**



More simply, our objective is...

To pursue a near-term project that is:

Meaningful.

It does not rely on future work to protect against a repeat of the largest flow ever recorded. It does not preclude future work to add protection later.

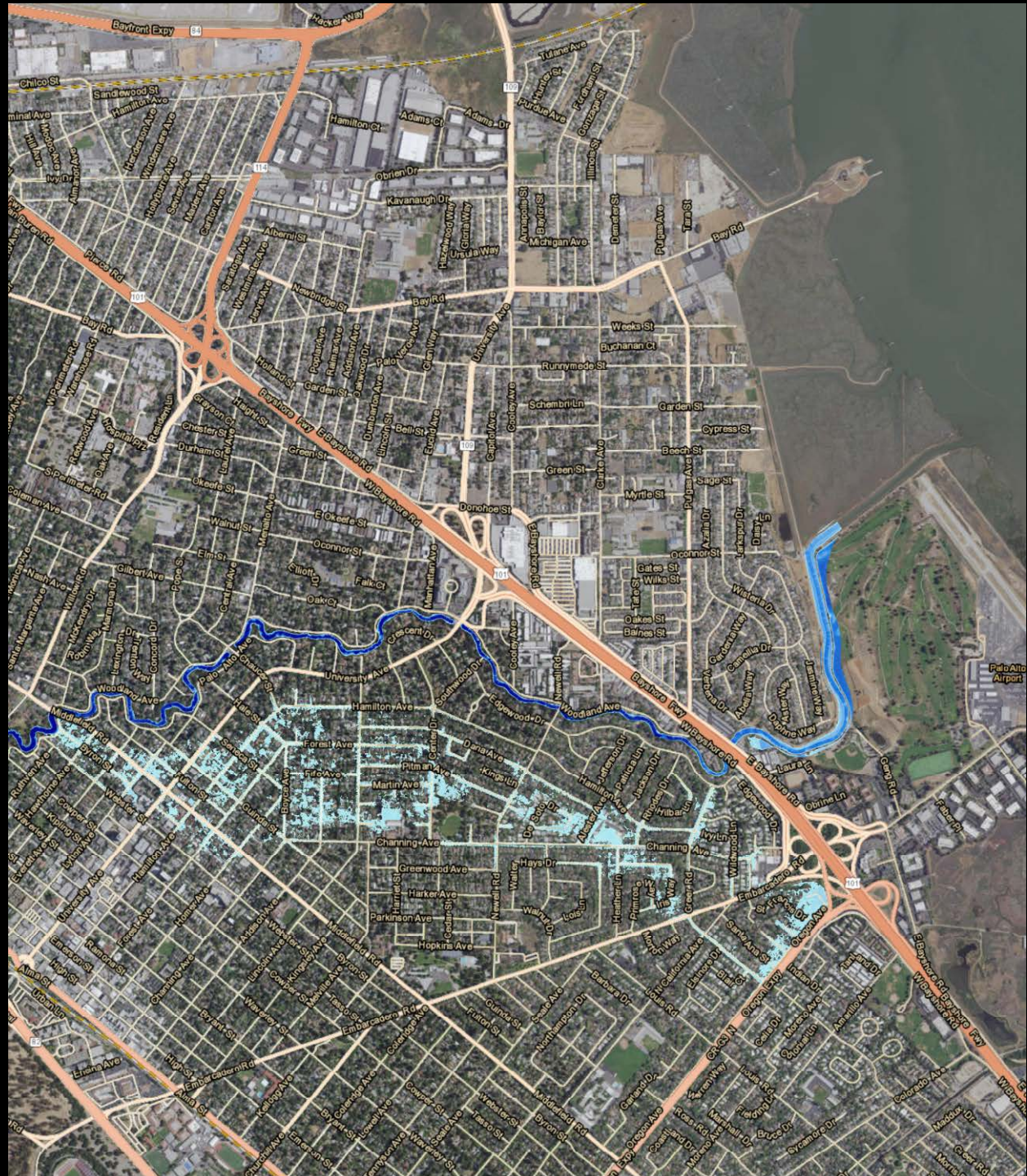
Achievable.

With strong community support, sufficient funding, land rights, and regulatory permits.

**Modeled floodplain
of 1998 sized event**

**Before project
upstream of Hwy. 101
is constructed**

**After project
upstream of Hwy. 101
is constructed**





Potential impacts to be evaluated

- **Aesthetics**
- Air Quality
- **Biological Resources and Riparian Habitat**
- Climate Change
- Geology and Soils Hazards and Hazardous Materials
- Hydrology and Water Quality
- **Land Use and Private Property**
- **Construction Noise** and Vibration
- Paleontological, Archaeological & Architectural Resources
- Recreation and trails
- **Traffic** and Transportation
- Utilities and Public Services



Alternatives we propose to study

Alternative 1	No Action
Alternative 2	Replace Pope-Chaucer Bridge and widen channel in specific locations between Newell Bridge & Euclid Ave.
Alternative 3	Construct one or more upstream detention basins.
Alternative 4	Construct an underground bypass culvert.
Alternative 5	Construct floodwalls along the channel.

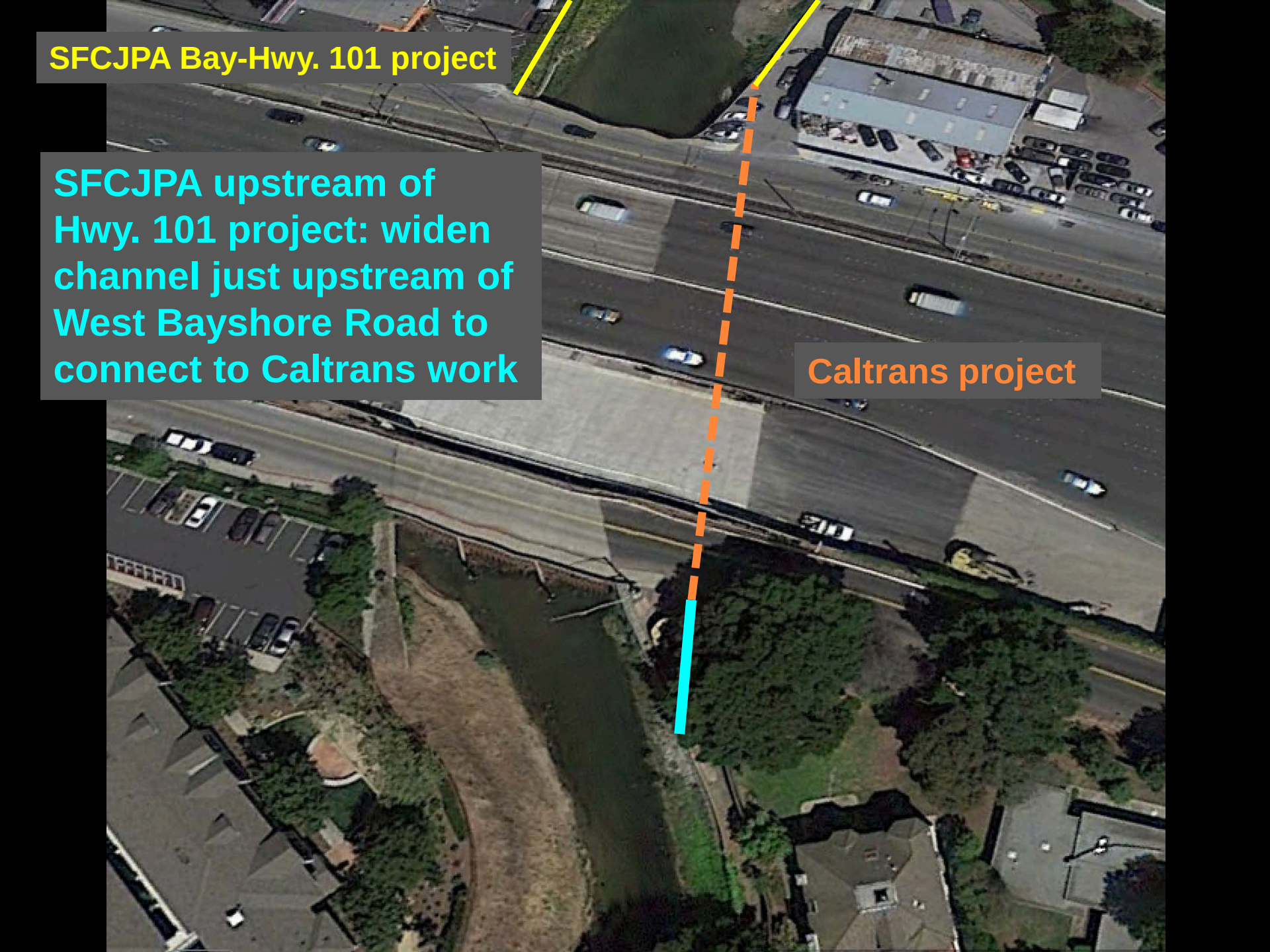
Alternative 2 (bridge and bottlenecks)

Maximize channel capacity without major new structures

- Widen creek channel
- Replace Pope-Chaucer Bridge



Replacing Newell Bridge is a separate project of the City of Palo Alto

An aerial photograph of a highway interchange. A multi-lane highway runs horizontally across the top. A road branches off to the right, and another branches off to the left. A yellow dashed line runs diagonally from the top right towards the bottom center. A cyan dashed line runs diagonally from the top left towards the bottom center. A solid cyan line segment is located at the bottom of the cyan dashed line, pointing towards a wooded area. Text labels are overlaid on the image: 'SFCJPA Bay-Hwy. 101 project' in yellow on a grey background at the top left; 'SFCJPA upstream of Hwy. 101 project: widen channel just upstream of West Bayshore Road to connect to Caltrans work' in cyan on a grey background on the left; and 'Caltrans project' in orange on a grey background on the right.

SFCJPA Bay-Hwy. 101 project

SFCJPA upstream of Hwy. 101 project: widen channel just upstream of West Bayshore Road to connect to Caltrans work

Caltrans project



Widening the creek channel



San Mateo County side

Santa Clara County side



Widening the creek channel



Woodland Avenue
East Palo Alto

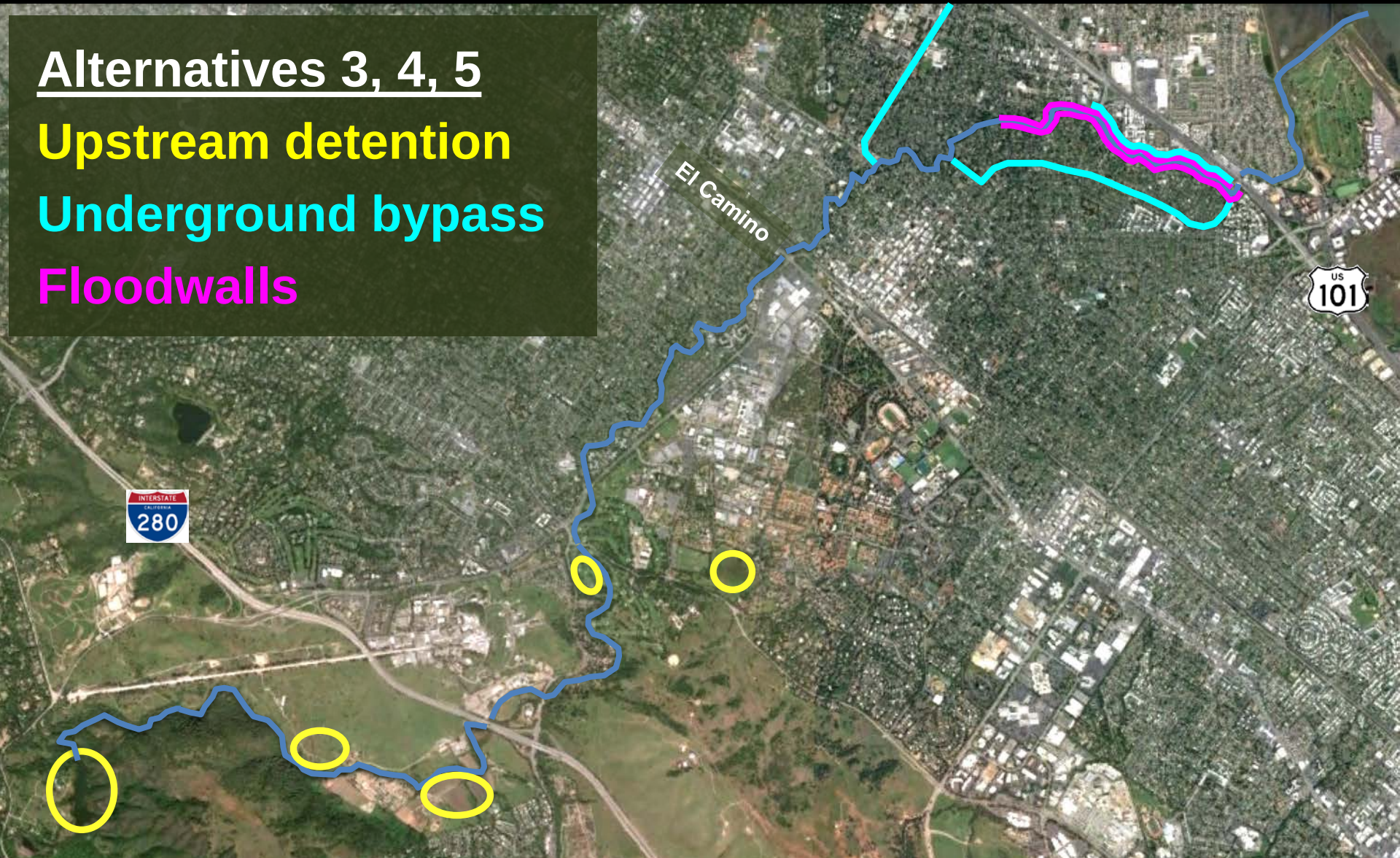
San Francisquito Creek Upstream of Highway 101 Project EIR

Alternatives 3, 4, 5

Upstream detention

Underground bypass

Floodwalls

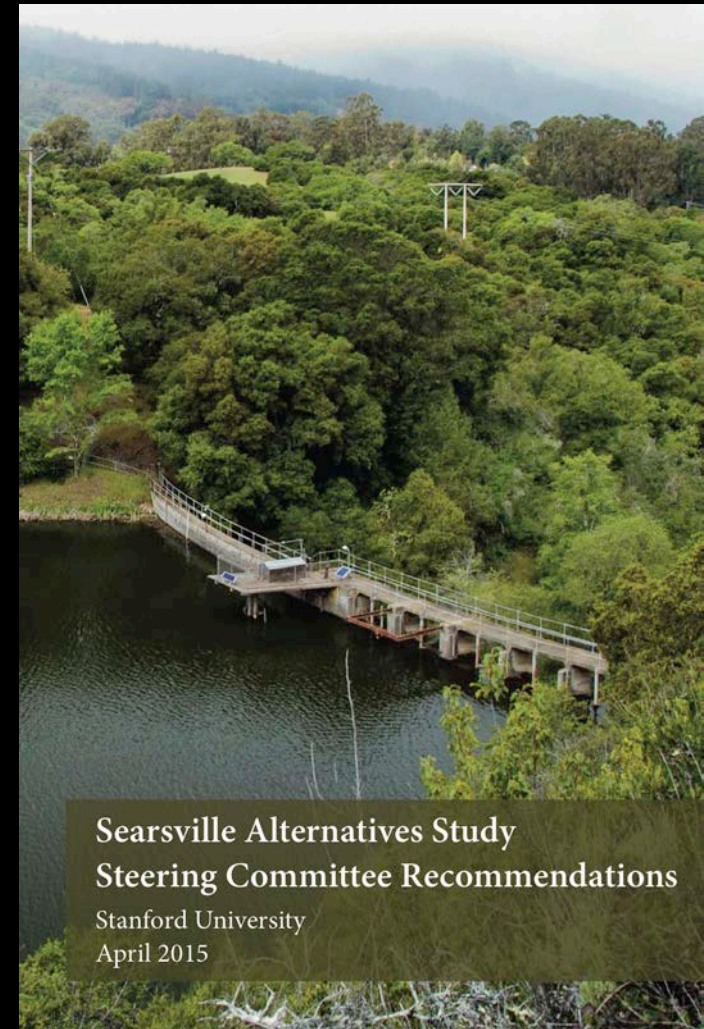


One potential upstream detention site to be discussed in the SFCJPA EIR: a Stanford project at Searsville

In April 2015, Stanford recommended the development of:

- a project to create an opening at the base of the dam and flush sediment in order to enable fish passage and attenuate high flows
- an alternate project of fish passage around dam

Since then, Stanford has continued to develop its recommendations and worked with environmental regulatory agencies. SFCJPA and its partners, including the Corps, have met and will continue to meet with Stanford to discuss the options and impacts of a Stanford project at Searsville in the context of SFCJPA projects.



Searsville Alternatives Study
Steering Committee Recommendations
Stanford University
April 2015



Challenges and Constraints

- Multijurisdictional complexity
- Constrained physical environment
- High habitat value
- Protected species
- Construction constraints: traffic, access etc.

Environmental Quality Commission

Proposal after discussions by three neighbor houses

J. Fox, Y. Murray, K. Gould

- J. Fox (1310 Elder) and Y. Murray, K. Gould (4 Elder Court) are concerned about removing 3 Redwoods from 9 Hesketh Dr.
- Our 4 lots have several big trees in various stages of health
- 3 Redwoods are the largest trees in our canopy
- These Redwoods screen a telephone pole and transformer
- We investigated options to remove power/telephone pole and underground power lines



SP McClenahan Arborist's Report

- K. Wang, J. Fox, Y. Murray and K. Gould met in September
- As neighbors, we wanted to find a mutual solution
- To look at the larger context, we asked Chris Regan (SP McClenahan Arboriculturists) to evaluate canopy and tree health context of neighborhood impact across our 4 lots
- Recommendation - remove 1 Redwood at 9 Hesketh Dr.
- Concerns with Monterey Pine (1310 Elder), two Redwoods (4 Elder Court)
 - Limited options to underground power line
 - Elder Ct access - injury to 2 Redwoods, Deadora Cedar
 - Elder Ave access - injury to healthy Deadora Cedars (1310 Elder, 5 Hesketh Dr)
- Chris Regan's suggestions
 - Live with power pole, use trees for screening
 - Recommendation - remove Monterey Pine, end of life
 - Suggested plantings (deciduous) to balance conifers

Discussions 3/9 and Suggested Plan

- K. Wang , J. Fox, Y. Murray and K. Gould met 3/9
- K. Wang - not certain of landscape plans, pool future?
- All agree - bare canopy with only a transformer pole is the worst outcome
- Our tentative proposal
 - 9 Hesketh Dr
 - Remove 1 Redwood
 - Preserve 2 Redwoods, future decisions based on Redwood health and landscape plans
 - Plan future loss of Monterey Pine (1310 Elder)
 - 4 Elder Ct, 1310 Elder - plant deciduous trees for screening consistent with overhead wires
 - Encourage 5 Hesketh Dr. to plant screening trees

Additional material

- pool functionality at 9 Hesketh Drive
 - All pools require maintenance and repair of equipment
 - Pool pump equipment could be relocated in yard
 - Per report "If the pool is to be removed this changes the situation"
- Menlo Park Criteria
- 13.24.025 Maintenance and preservation of heritage trees.
 - (6) The number, size, species, age distribution and location of existing trees in the area and the effect the removal would have upon shade, privacy impact and scenic beauty;
 - (7) The number of trees the particular parcel can adequately support according to good arboricultural practices;
 - (8) The availability of reasonable and feasible alternatives that would allow for the preservation of the tree(s).

Photos from Neighbor lots



J. Fox, Y. Murray, K. Gould



Redwood Trees 9 Hesketh Drive