Environmental Quality Commission

REGULAR MEETING AGENDA

Date: 1/15/2025
Time: 6:00 p.m.
Location: Zoom.us/join – ID# 879 3070 9093 and
City Hall Downtown Conference Room, 1st Floor
701 Laurel St., Menlo Park, CA 94025

Members of the public can listen to the meeting and participate using the following methods.

- How to participate in the meeting
  - Access the meeting, in-person, at the Downtown Conference Room
  - Access the meeting real-time online at:
    Zoom.us/join –Meeting ID 879 3070 9093
  - Access the meeting real-time via telephone at:
    (669) 900-6833
    Meeting ID 879 3070 9093
    Press *9 to raise hand to speak

Subject to change: The format of this meeting may be altered or the meeting may be canceled. You may check on the status of the meeting by visiting the city website menlopark.gov. The instructions for logging on to the webinar and/or the access code is subject to change. If you have difficulty accessing the webinar, please check the latest online edition of the posted agenda for updated information (menlopark.gov/agendas).

Regular Session

A. Call To Order

B. Roll Call – Hill, Hedley, Kissel, Meyer, Vice Chair McKenna, Pelegri-Llopart

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. You are not required to provide your name or City of residence, but it is helpful. 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. Approve the November 20, 2024 Environmental Quality Commission meeting minutes (Attachment)

D2. Review and discuss recommendations related to artificial turf and landscaping from the Impact of Plastics on the Environment Ad Hoc Subcommittee (Presentation)

D3. Review and discuss recommendations to reduce single use plastics from the Impact of Plastics on the Environment Ad Hoc Subcommittee (Presentation)

D4. Review and discuss recommendations from the Distributed Energy Resources Ad Hoc subcommittee (Presentation)

E. Reports and Announcements

E1. Reports and announcements from staff and Commissioners

F. Informational Items

F1. 2024-25 Environmental Quality Commission work plan (Attachment)

G. Adjournment

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.

For appeal hearings, appellant and applicant shall each have 10 minutes for presentations.

If you challenge any of the items listed on this agenda in court, you may be limited to raising only those issues you or someone else raised at the public hearing described in this notice, or in written correspondence delivered to the City of Menlo Park at, or before, the public hearing.

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 by request by emailing the city clerk at jaherren@menlopark.gov. 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.

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Environmental Quality Commission

REGULAR MEETING MINUTES – DRAFT

Date: 11/20/2024
Time: 6:00 p.m.
Location: Teleconference and
City Hall Downtown Conference Room, 1st Floor
701 Laurel St., Menlo Park. CA 94025

A. Call To Order

Chair Schmidt called the meeting to order at 6:02 p.m.

B. Roll Call

Present: Hedley, Hill, Meyer, Vice Chair McKenna, Pelegri-Llopart, Chair Schmidt
Absent: Kissel
Staff: Sustainability Manager Rachael Londer, Management Analyst II Liz Tapia

C. Public Comment

- Brian Schmidt spoke on concerns related to Climate Action Plan carbon reduction goals.

D. Regular Business

D1. Approve the October 16, 2024 Environmental Quality Commission meeting minutes (Attachment)

ACTION: Motion and second (Hedley/ Hill), to approve the October 16, 2024 Environmental Quality Commission minutes, passed 6-0-1 (Kissel absent).

D2. Recognize Chair Schmidt's service on the Environmental Quality Commission.

Commissioner Hedley introduced the item.

- Brian Schmidt spoke in support of Chair Schmidt’s time on the Environmental Quality Commission.

The Commission discussed their appreciation for Chair Schmidt’s service to the Environmental Quality Commission.

D3. Discuss updates to the Heritage Tree Ordinance administrative guidelines recommendations (Presentation) (Attachment)

Chair Schmidt introduced the item.

Sustainability Manager Rachael Londer made a presentation.

- Scott Marshall spoke in support of updating the Heritage Tree Ordinance administrative guidelines and on concerns related to identifying heritage trees before starting projects.
- Megan Green spoke on concerns about identifying heritage trees before projects beginning,

determining fees and new builds impact on urban forest.

Commissioner Hill made a presentation.

The Commission discussed additional recommendations for the Heritage Tree Ordinance administrative guidelines.

ACTION: Motion and second (Hedley/ Pelegri-Llopart),to recommend staff to pass along all comments related to the Heritage Tree Ordinance to the tree team inclusive of the tree valuation formula and in line edits, and evaluate the tree valuation formula inclusive of multipliers as part of the Heritage Tree Ordinance administrative guidelines update and directed staff to explore solutions for proactively informing property owners of heritage trees on their property, passed 6-0-1 (Kissel absent).

D4. Review additional urban forest recommendations from Heritage Tree Ordinance Administrative Guidelines Ad Hoc Subcommittee (Presentation)

Chair Schmidt introduced the item.

Commissioner Hedley made the presentation.

The Commission received clarification on the difference between canopy coverage and tree inventory, heritage tree determination and the City of San Jose Tree Disclosure form.

- Scott Marshall spoke in support of the proposed Heritage Tree Ordinance Administrative Guidelines recommendations.

The Commission discussed the proposed Heritage Tree Ordinance Administrative Guidelines Ad Hoc Subcommittee recommendations and funding for the Urban Forest Management Plan (UFMP).

ACTION: Motion and second (Meyer/ Hedley) to recommend that City Council continue to support the protection and expansion of the urban forest, including the creation of the UFMP using Heritage Tree Ordinance Administrative Guidelines Ad Hoc Subcommittee recommendations, as part of the annual budget process, with a particular emphasis on reducing canopy inequity across the city, passed 6-0-1 (Kissel absent).

ACTION: Motion and second (Hedley/ Pelegri-Llopart) to recommend that City Council take steps to enact an ordinance to require real estate disclosures from sellers to buyers upon transfer of property about our urban forest, Heritage Tree Ordinance and number of heritage and potentially non-heritage trees on the property, passed 6-0-1 (Kissel absent).

The Commission took a recess at 8:07 p.m.

The Commission reconvened at 8:15 p.m.

D5. Review and discuss approach for the Love Our Earth Festival (Presentation)

Chair Schmidt introduced the item.

Sustainability Manager Rachael Londer made the presentation.

The Commission received clarification on requested feedback for the Love Our Earth Festival, partner conflicts and budget.

The Commission discussed event date preference and budget.

D6. Update on compliance with Senate Bill (SB) 379 permitting for residential solar energy systems (Presentation)

Chair Schmidt introduced the item.

Sustainability Manager Rachael Londer made the presentation.

The Commission discussed SolarApp+ usage, program details, purpose of the SolarApp+, application cost, adding battery storage to the solar permits and permit streamlining.

E. Reports and Announcements

E1. Reports and announcements from staff and Commissioners

Management Analyst II Liz Tapia reported out on the Zero Emission Landscaping Equipment voucher program and the Home Upgrade Program.

Sustainability Manager Rachael Londer reported out on the Environmental Quality Commission recruitment, Bay Area Air Quality Management District meeting on Dec. 4, and California Energy Commissions building performance strategy and recommendations report for Senate Bill 48.

Commissioner McKenna reported out on Menlo Spark fully electrifying a six unit affordable housing building in Belle Haven, passage of Menlo Park City School District Measure U and the Nov. 14 passing of the Menlo Park City School District resolution on climate resilience and sustainability.

Chair Schmidt reported on Menlo Park City School District Measure U, the City Council downtown parking discussion Nov. 19 and Coleman and Ringwood transportation discussion.

Commissioner Pelegri-Llopart reported out on the City Council downtown parking discussion Nov. 19.

Commissioner Hedley reported out on Acterra's electric home tour Nov. 16.

F. Informational Items

F1. 2024-25 Environmental Quality Commission work plan (Attachment)

G. Adjournment

Chair Schmidt adjourned the meeting at 9:11 p.m.

Management Analyst II Liz Tapia

Considerations for Tree Removal Valuation

HERITAGE TREE ORDINANCE
ADMINISTRATIVE GUIDELINES
AD HOC SUBCOMMITTEE

NANCY HEDLEY
SUSANNAH HILL
JEFF SCHMIDT

Expanded Valuation to Reflect City-wide Impacts

Tree removals impact community priorities
Tree canopy size and health
Property values
Climate change resilience
Public health
City actions always consider all residents' interests

Urban Canopy Reduction

Decades of investment in Menlo Parks urban canopy are valued by Menlo Park's residents and are embodied in Heritage Tree Ordinance

Shared Air Quality

Cumulative impact of city-wide tree removals reduces Menlo Park's shared air quality

City's Desirability

Cumulative impact of city-wide tree removals reduces Menlo Park's beauty as it appeals to new home buyers

Full Neighborhood Impact

Tree removal impacts its property parcel and also adjacent parcels, immediate neighborhood, and magnitude of canopy's diminishment

Multiply base valuation figure by important factors

$$V_{\text{tree}} = V_{\text{base}} \times M_{\text{air}} \times M_{\text{canopy1}} \times M_{\text{canopy2}} \times M_{\text{removal}} \times M_{\text{input}}$$

$V_{\text{base}} \times M_{\text{air}} \times M_{\text{canopy1}} \times M_{\text{canopy2}} \times M_{\text{removal}} \times M_{\text{input}}$

Factor	Factor	Intent	Calculation
V_{base}	Baseline value	Today. Existing calculation from arborists commonly used formula	per today's HTO formula with arborists society data set
M_{air}	Impact on air quality	Neighborhoods with poorer air quality can less afford the loss of a tree, since it contributes to air quality improvement.	• **Data**: census tract air quality from County. • **Variable**: 10% of tracts with highest pollution get highest weighting, down to 10% with least pollution
$M_{canopy1}$	Impact on canopy of neighborhood	The density of tree cover in the immediate neighborhood affects the value of a tree. A lone tree has more canopy value	• **Data**: tree census by Arborist at site and city-wide • **Variable**: Highest weighting for lack of trees
$M_{canopy2}$	Time to replace canopy impact	Years for proposed replacement tree to reach the same size, volume, canopy as removed tree, to account for the prolonged absence of the tree's benefits.	• **Data**: Comparison of new with removed tree for measurement and species • **Variable**: Highest weighting for no replacement tree, lowest rating for identical tree
$M_{removal}$	Recent tree removals	A neighborhood with many tree removals requires increased canopy protection	• **Data**: permits, citizen reports, City Arborist reporting • **Variable**: Highest weighting for (tract? ¼ mile?) with most healthy trees removed past 5 years, lowest weighting for no healthy trees removed
M_{input}	Community input (where applicable)	Community input multiplier, reflecting quantity and quality of residents' input in a specific case *example - large development with many removals*	• **Data**: City Arborist office summary of written and in person input from community about tree removal • **Variable**: in cases where this variable applies, the Environmental Quality Commission determines the qualitative weight of reasons given by commenters and their standing/how impacted they would be

Impact of Plastics on the Environment Ad Hoc Subcommittee Report

Nancy Larocca Hedley & John McKenna

JANUARY 15, 2025

Agenda

- Ad Hoc Subcommittee Scope
- Stormwater System & MRP
- Artificial Grass and Landscaping (Susan & John)
  - Recommendations (Artificial Grass & Landscaping)
  - EQC Discussion
- Single-Use Plastics (Nancy)
  - Recommendations (Single-Use Plastics)
  - EQC Discussion

Ad Hoc Subcommittee Scope

Research and present recommendations on programs and policies to prevent stormwater pollution in the city including artificial turf and single use plastics.

Menlo Park Stormwater System

- City owns and maintains 46+ miles of storm drainage facilities
- Drains to San Francisquito Creek, Atherton Channel, & San Francisco Bay
- Stormwater is **NOT treated**
- Directly impacts **water, fish, & wildlife**
- Main types of stormwater pollution
  - Litter, including **plastic** bags
  - Chemicals
  - Organic waste
- No single highly effective way to filter microplastics and nanoplastics from storm drains

Municipal Regional Permit (MRP)

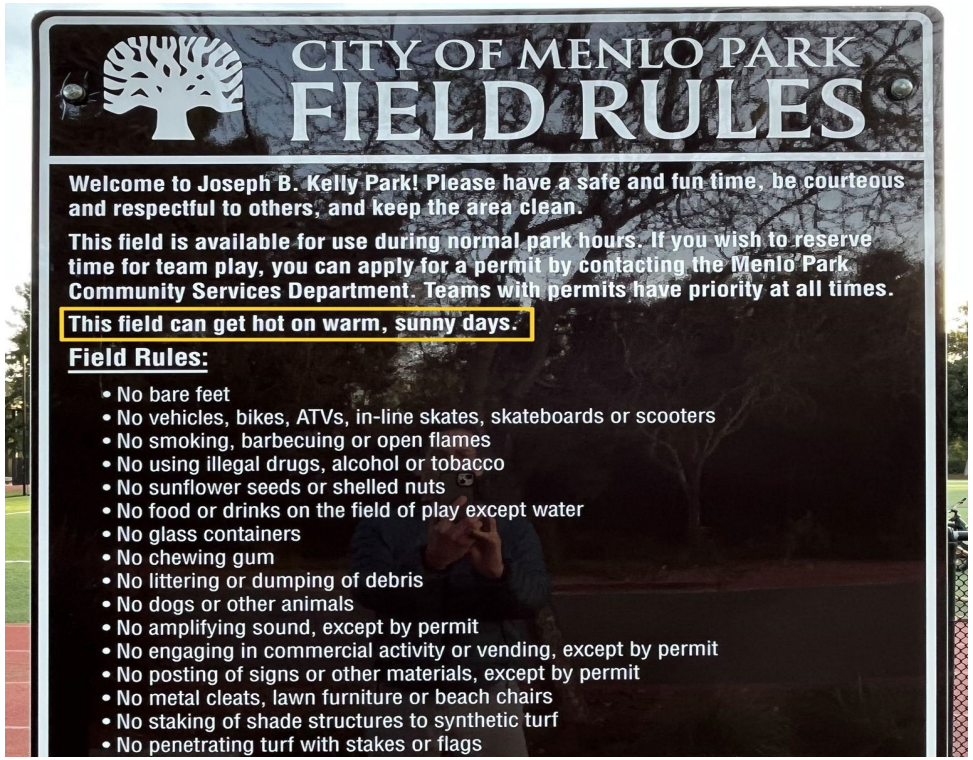
- Governed by San Francisco Bay Regional Water Quality Control Board
- Water Board regulates stormwater discharges under authorities of:
  - Federal Clean Water Act
  - California Porter-Cologne Water Quality Control Act
- Green Infrastructure Plans - Permittees (municipalities) expected to implement “next steps” over next 20 years
  - Low Impact Development design
    - Reduce runoff / Recharge groundwater (natural filtration)
  - Multi-Scale Stormwater Management
    - **Parcel** (primary importance), Street, Regional
  - Parks - should be designed to be “cool islands” with trees and pervious surfaces
    - Important refuge from urban heat, radiating cool air radiation, promote biodiversity
  - SFEI working on new GSI guidance for removal of microplastics

Sierra Club Plastic Pollution Prevention

Presentation by Susan Hinton of Sierra Club Loma Prieta Chapter

Kelly Park Artificial Turf Field

Rules & Warning

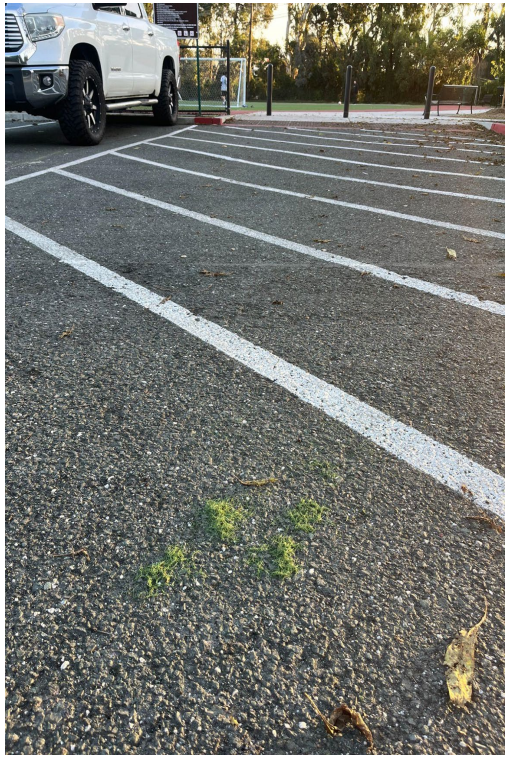


Degraded Surface

Kelly Park Artificial Turf Field

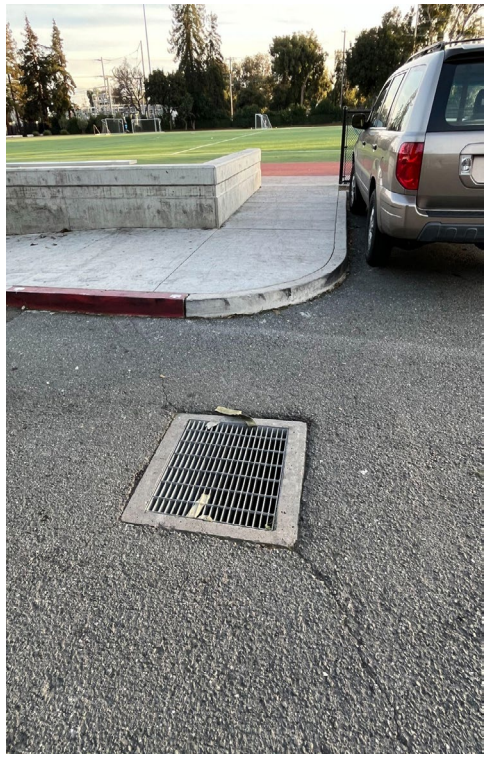
Loose Blades & Fill

Widespread Throughout Facility



Kelly Park Artificial Turf Field

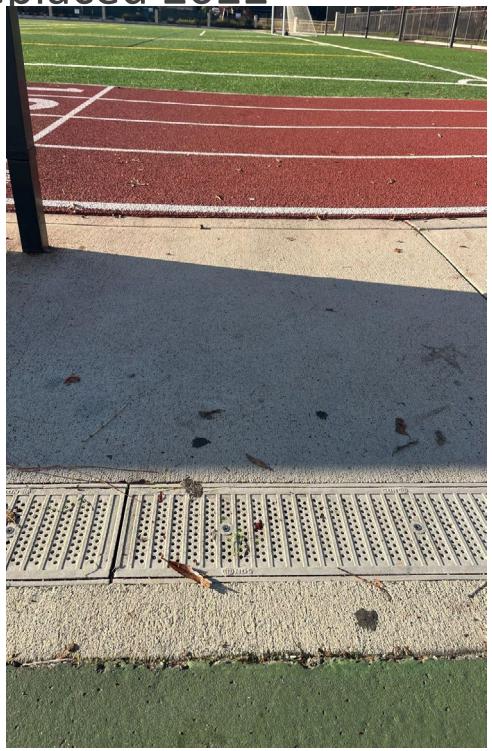
Stormwater Pollution



Stormwater Pollution

Hillview Middle School Artificial Turf Field

First Installed - 2013 / Replaced 2022



Field Degrading and Shedding Blades

Kelly Park / Hillview Artificial Turf Fields

- Kelly Park field scheduled for replacement in 2024
  - Estimated cost of field replacement - $2.07 million
  - Designs are 90% completed

- Hillview artificial turf field first installed 2013
  - Reached end of useful life and replaced in 2022
    - Cost of field replacement - approx. $1.44 million
      - City of Menlo Park half of the cost (school district and City have joint use agreement)
  - Original artificial field used crumb rubber
  - Replacement field uses mix of sand and olive core
  - Newer field than Kelly Park yet already degrading and shedding blades

Park & Recreation Facilities - Master Plan

- From Chapter 4 - Guidelines
  - Goal 3. Operational Efficiency & Economic Feasibility
    - "operational efficiency ensures that new projects are evaluated, not just on how much they cost to develop, but on the long-term cost to operate and maintain the facility or park."
    - "Economic and environmental sustainability are linked as an environmentally sustainable park/facility should cost less to maintain."
  - Goal 5.1 Ensure Sustainability an Integral Part of P&R Development and Management
    - "Integrate the goals of the City's Climate Action Plan, Green Infrastructure for Stormwater Plan, and Community Zero Waste Plan into park and facility planning, and provide amenities that support sustainable behavior such as recycling and composting receptacles, hydration stations, and bicycle racks at all parks and facilities."
  - Goal 5.17 Resilience
    - "parks can act as carbon sinks, as well as flood mitigation areas."
- From Chapter 5 - Recommendations
  - Kelly Park - "When replacing the synthetic turf and infill material, install a trench drain at the sports field to improve drainage and field life. Prior to replacing infill, evaluate current industry best practices and standards for materials."
  - Burgess Park - "Consider artificial turf to increase all season and all weather play, and reduce routine maintenance."

Landscape Fabric

- Also referred to as weed barrier fabric, weed cloth, or geo-textile
- Overwhelming majority made from plastic or polypropylene (petroleum-based products)
  - Not biodegradable or recyclable
  - Degrades over time with typical maximum useful life of ten (10) years
- Typically used to prevent weeds
  - May be effective in short-term, but not over time
    - Tough weeds can grow through fabric
    - Weeds can also grow on top of fabric
    - Fabric makes removing weeds more difficult
      - Removal of weeds damages fabric, rendering it even less effective
    - Added cost due to need to use mulch on top of fabric
- Degrades soil health
  - Prevents sun, air, water, and nutrients from reaching soil
  - Smothers beneficial insects, earthworms, and microbes essential to plant growth
  - Soil becomes compacted, dry, hardened and unhealthy
  - Chemicals from fabric and microplastics from degrading fabric enter soil, groundwater, and plants
- Alternative weed barriers include newspaper, cardboard, burlap, or straw

Landscape Fabric

- October 2024 Cal Poly SLO study (Plasticulture Study)
  - U.N. - soil plastic contamination environmental health and food security threat
  - Plastic film “mulches” - largest source of agricultural plastic pollution
    - Covers 25 million acres of farmland globally resulting in 6.7 million tons of contamination
    - Plastic mulch residue accumulation negatively impacts plant growth, soil properties, water infiltration rates, organic matter content, soil carbon storage, and plant-available phosphorous
  - Tested twelve (12) fields across five (5) different CA farms that employ “best practices”
    - All twelve (12) fields exhibited macro and microplastic contamination
    - Accumulation of macroplastic negatively correlated with soil health, even at relatively low concentrations
    - Microplastic and macroplastic abundance positively correlated across sample fields tested
- Water Education Foundation article
  - Agriculture is responsible for 3.5% (14 million metric tons) of global annual plastic pollution
    - Farms are covered in plastic (greenhouses, plastic mulch, irrigation tubes, etc.)
    - Per NASA, once green and golden fields now have turned white from all the plastic
    - Microplastics pervade every part of Earth, from the bottom of the ocean floor to all forms of drinking water to the human placenta

Artificial Grass Recommendations

- Adopt an ordinance prohibiting the use and installation of synthetic grass and artificial turf within the City of Menlo Park (applies to all properties and property types)
  - Use City of Millbrae ordinance as model
    - Includes provision for existing installations to remain in place under certain conditions but must ultimately be removed within four (4) years
- Do NOT replace Burgess Park (or any other park) fields with artificial turf
- City to consult with experts in order to implement organic maintenance program for natural grass athletic fields

Residential / Commercial Landscaping Recommendations

- Educate community and local landscape professionals on effectiveness and environmental impact of landscape fabric
  - Consider a ban on ban plastic forms of landscape fabric
- Educate community on alternatives to both natural and artificial lawns
  - Water-efficient landscaping ordinance
  - Native plants / drought tolerant options
    - Resources
      - Calscape - Bay Area Garden Planner (California Native Plant Society)
      - Yerba Buena Nursery, SummerWinds Nursery
      - Free Landscape Analysis
      - Lawn Be Gone Rebate Program, Rain Barrel Rebates, Irrigation Hardware Rebates
      - Belle Haven Community Development Fund
        - Belle Haven Mini-Grant (up to $1500 for up-front costs of lawn transformation)

EQC Discussion

Sierra Club Loma Prieta Chapter Plastic Pollution Prevention

Our Purpose

The Plastic Pollution Prevention Committee seeks to drastically reduce and ultimately remove unnecessary plastic products known to harm the environment and public health.

Crystal Springs Reservoir

Agenda

Presenter

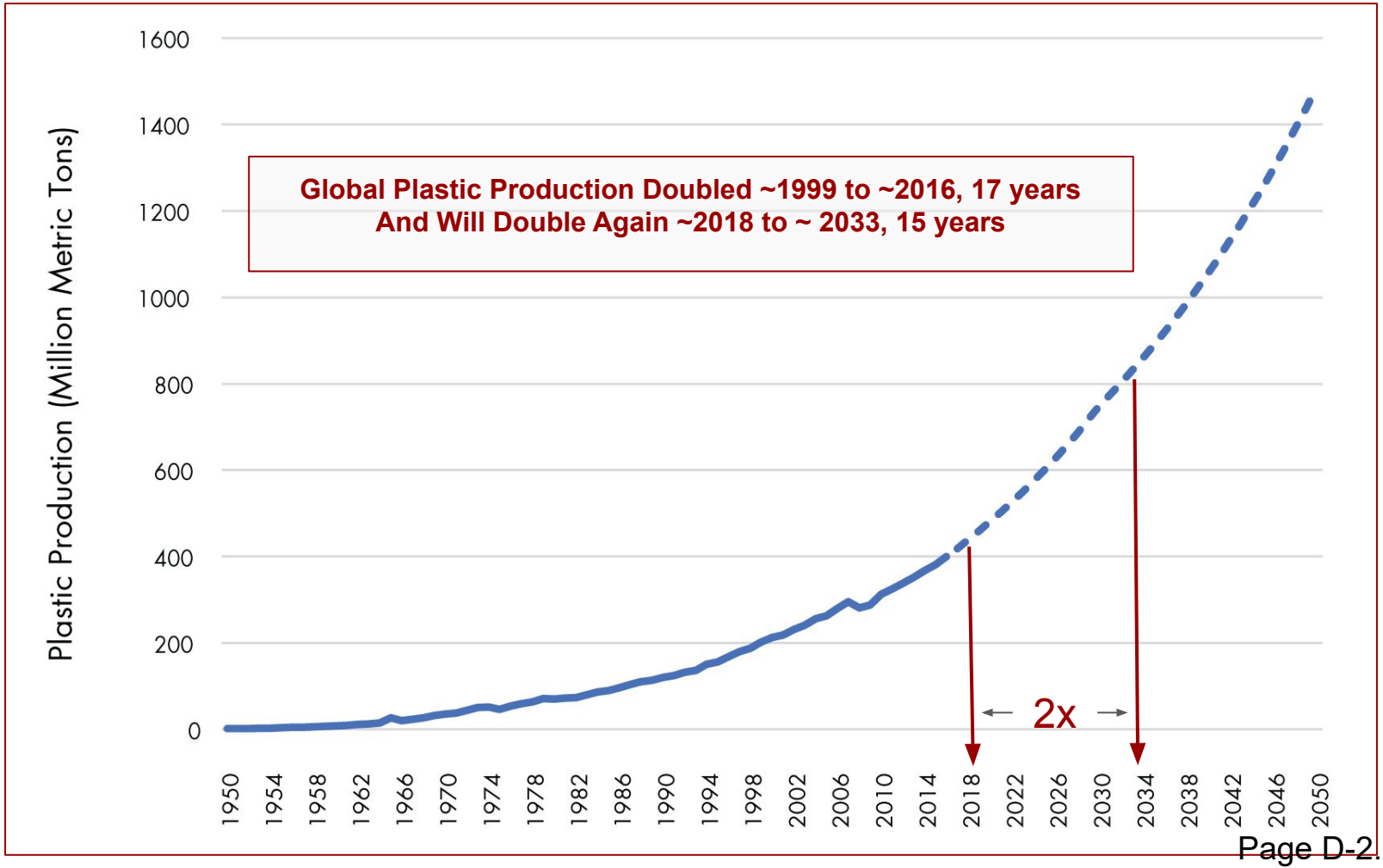
Susan Hinton, Chair
Sierra Club Loma Prieta Chapter
Plastic Pollution Prevention Committee

- Plastic is a problem
  - The threat from microplastics to
    - Water
    - Soil
    - Health
  - Low or no recycling
- Artificial turf is plastic, with a twist
  - The danger of PFAS “forever” & other chemicals
  - Heat and safety
- Are there viable alternatives to artificial turf?
- Cost
- Questions

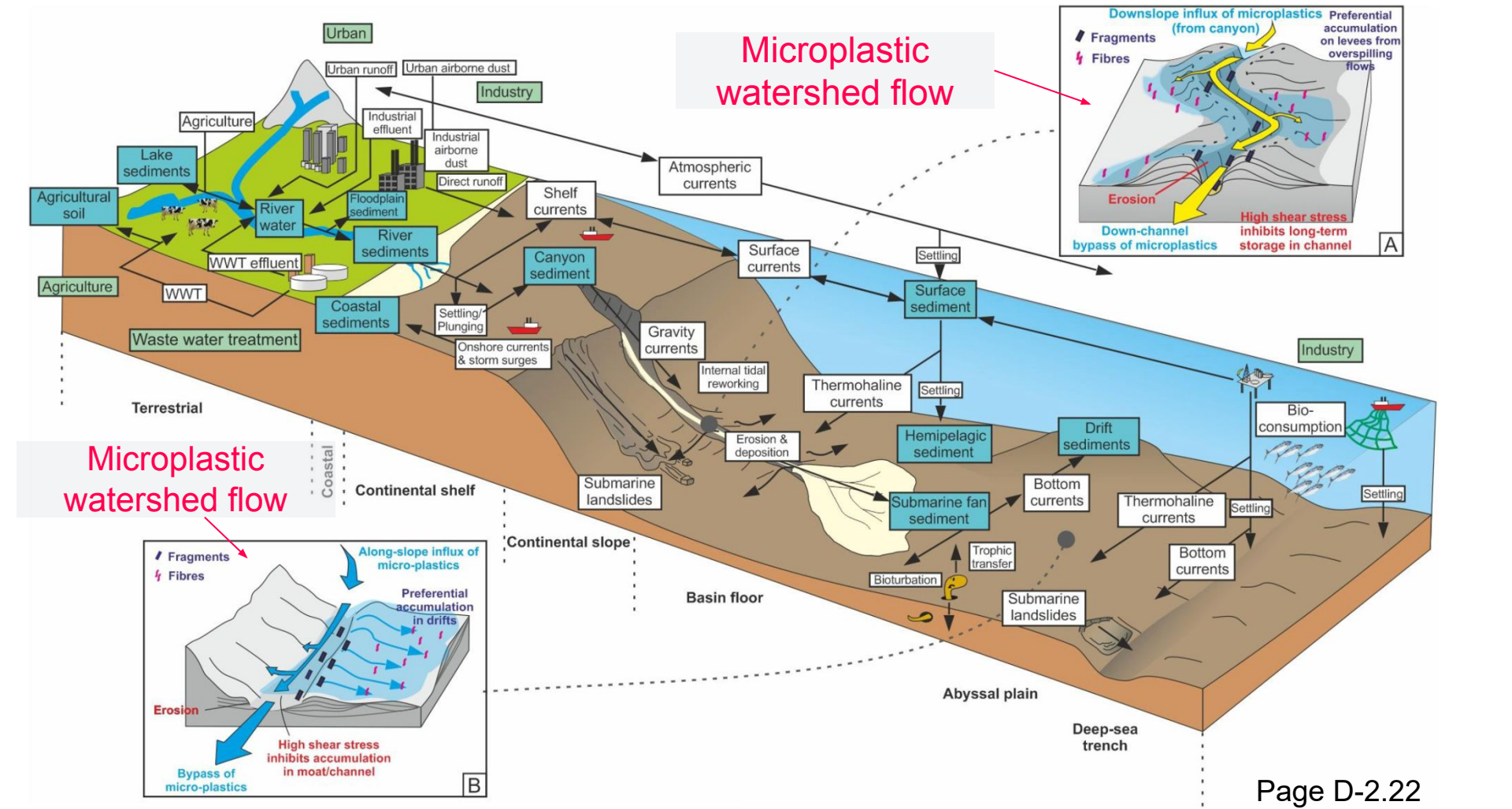
A black-winged stilt (*Himantopus himantopus*) forages in a swamp polluted with plastic and other trash. Image by sham prakash via Pexels.

Plastics are not safe and inert … Plastic pollution exacerbates impacts on all planetary boundaries, including climate change, ocean acidification, ozone depletion, land system change and biodiversity loss.

2024 Oct. Stockholm U, https://www.sciencedirect.com/science/article/pii/S2590332224005414?via%3Dihub



The National Academies of Sciences, https://nap.nationalacademies.org/resource/other/dels/plastics-in-the-ocean/



Dispersion, Accumulation, and the Ultimate Fate of Microplastics in Deep-Marine Environments, Frontiers In Earth Science, 2019

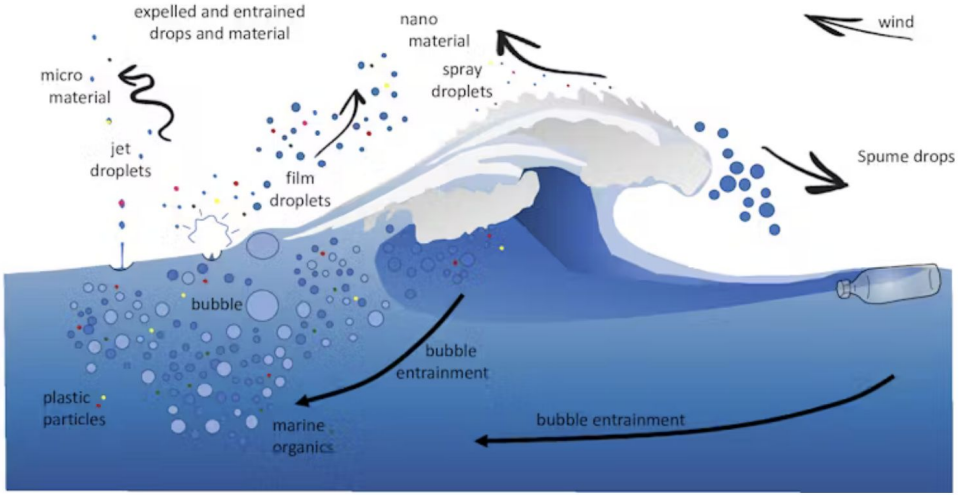
The Guardian

Microplastics found in dolphin breath for first time – study

Research suggests the marine animals are inhaling pollutants when they come up for air, with even rural populations affected

Bottlenose dolphins were studied at two sites in the US, in Florida and Louisiana. Photograph: Stephen Frink/Getty Images

GREENPEACE

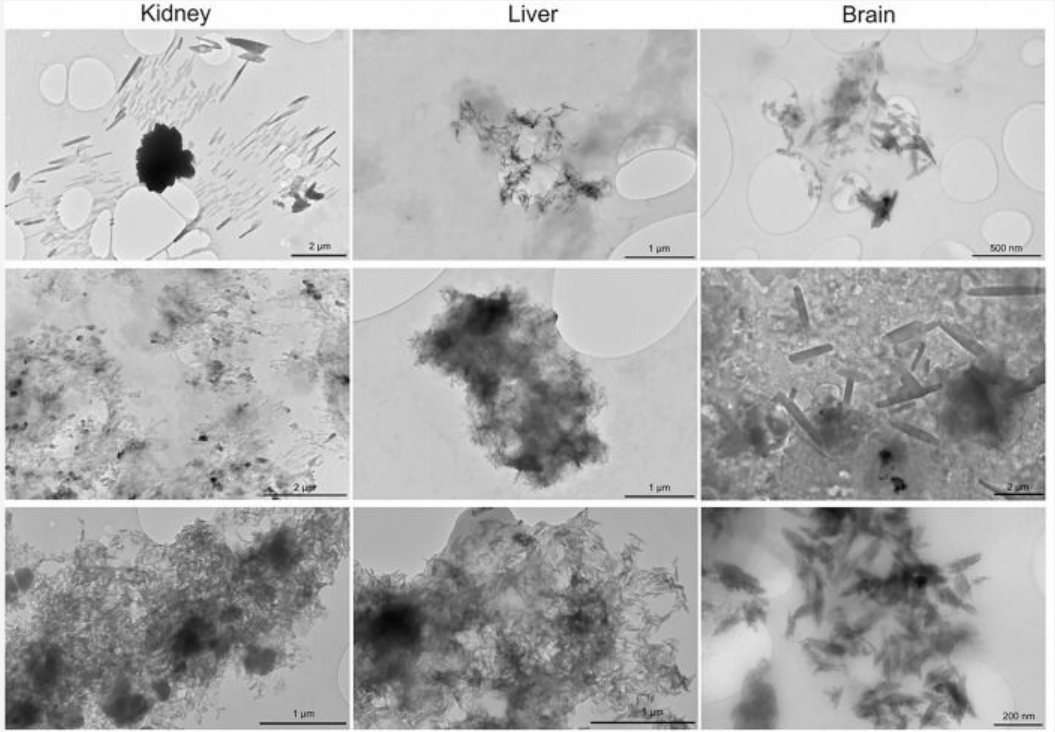


The ocean releases microplastics into the air through surface froth and wave action. Once the particles are released, wind can transport them to other locations. Steve Allen, CC BY-SA

In fact, bubble bursts caused by wave energy can release 100,000 metric tons of microplastics into the atmosphere each year. Since dolphins and other marine mammals breathe at the water's surface, they may be especially vulnerable to exposure.

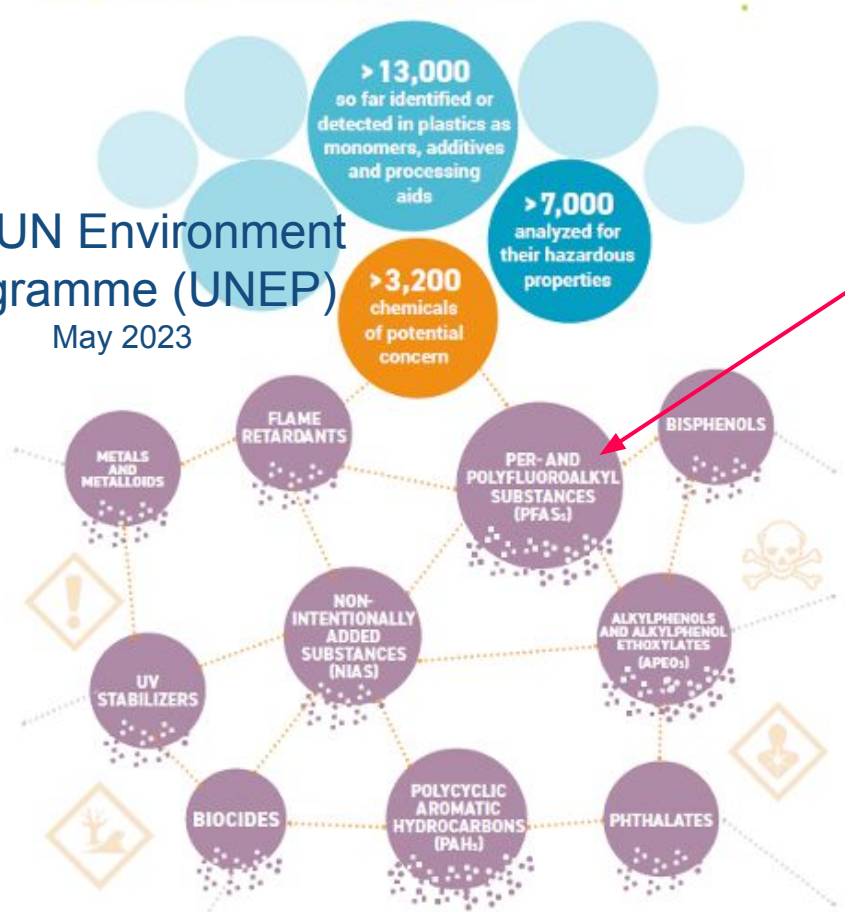
May 6, 2024, University of New Mexico. https://www.ncbi.nlm.nih.gov/pmc/articles/PMC11100893/

Bioaccumulation of Microplastics in Decedent Human Brains Assessed by Pyrolysis Gas Chromatography-Mass Spectrometry



Polyethylene was the predominant polymer; **the relative proportion of polyethylene MNPs was greater in brain samples than in liver or kidney** … Shard-like appearances, with dimensions ranging from micrometer to nanometer sizes, suggest an aged, friable polymer composition.

CHEMICALS OF CONCERN IN YOUR PLASTICS



The UN Environment Programme (UNEP)
May 2023

In Artificial Turf

The President and CEO of the Synthetic Turf Council has admitted to PFAS in synthetic turf in a letter sent to Senator Ben Allen in June of 2023.[42]

100% of synthetic turf tested contains PFAS.[43] A partial list of PFAS found in synthetic turf and components to date (from public records):

- PFOS
- PFOA
- 6:2 FTSA
- GenX
- D3-N-MeFO SAA
- D2-N-EtFO SAA
- PFPeA
- PFHxA
- PFHpA
- PFBS
- PFBA
- PFNA
- PFDA
- PFHxS
- PPF Acid
- R-EVE
- PTFE
- PVDF
- 13C2-4:2 FTS
- 12C2-6:2 FTS
- 13C2-8:2 FTS
- 8:2 FTOH
- PMPA

Additional Chemicals of Concern: (not comprehensive)

In synthetic turf:

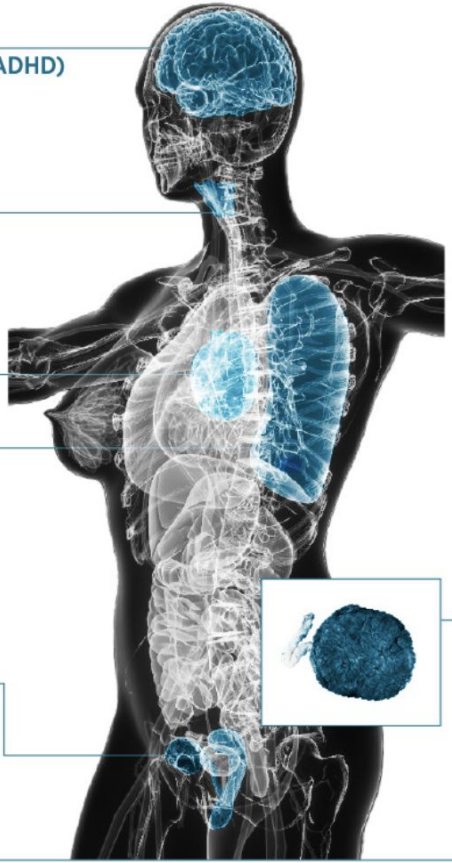
- Phthalates
- Latex
- Polyvinyl chloride
- Naptha
- Siloxanes
- Talc
- Di/Isocyanates
- Formaldehyde
- Fungicides
- Flame retardants
- Coal fly ash
- e 1,2-cyclohexane dicarbonic acid
- Dibutyltin
- Ethylene glycol
- Triclosan

References

42) https://drive.google.com/file/d/1gnotC4ju6HdbPTnI9fvD4G68Q8a04len/view?usp=drivesdk

43) https://www.newmoa.org/wp-content/uploads/2023/02/PFAS-in-Artificial-Turf.pdf

Human Health Impacts of Exposure to Chemicals in Microplastics



Neurodevelopmental disorders
Attention deficit hyperactivity disorder (ADHD)
Autism
Neurobehavioral deficits
Decreased IQ
Cognitive deficits

Hormonal diseases
Thyroid disease
Thyroid cancer

Cardiovascular disease

Respiratory diseases
Asthma

Male reproductive health impacts
Subfertility
Reduced sperm quality

Female reproductive health impacts
Polycystic ovarian syndrome
Endometriosis
Delayed time to pregnancy
Abnormal Pap smears
Pregnancy-induced hypertension and/or preeclampsia

Metabolic disorders
Type 2 diabetes
Excessive childhood weight gain
Increased waist circumference
Serum lipid levels, e.g., total cholesterol and LDL cholesterol

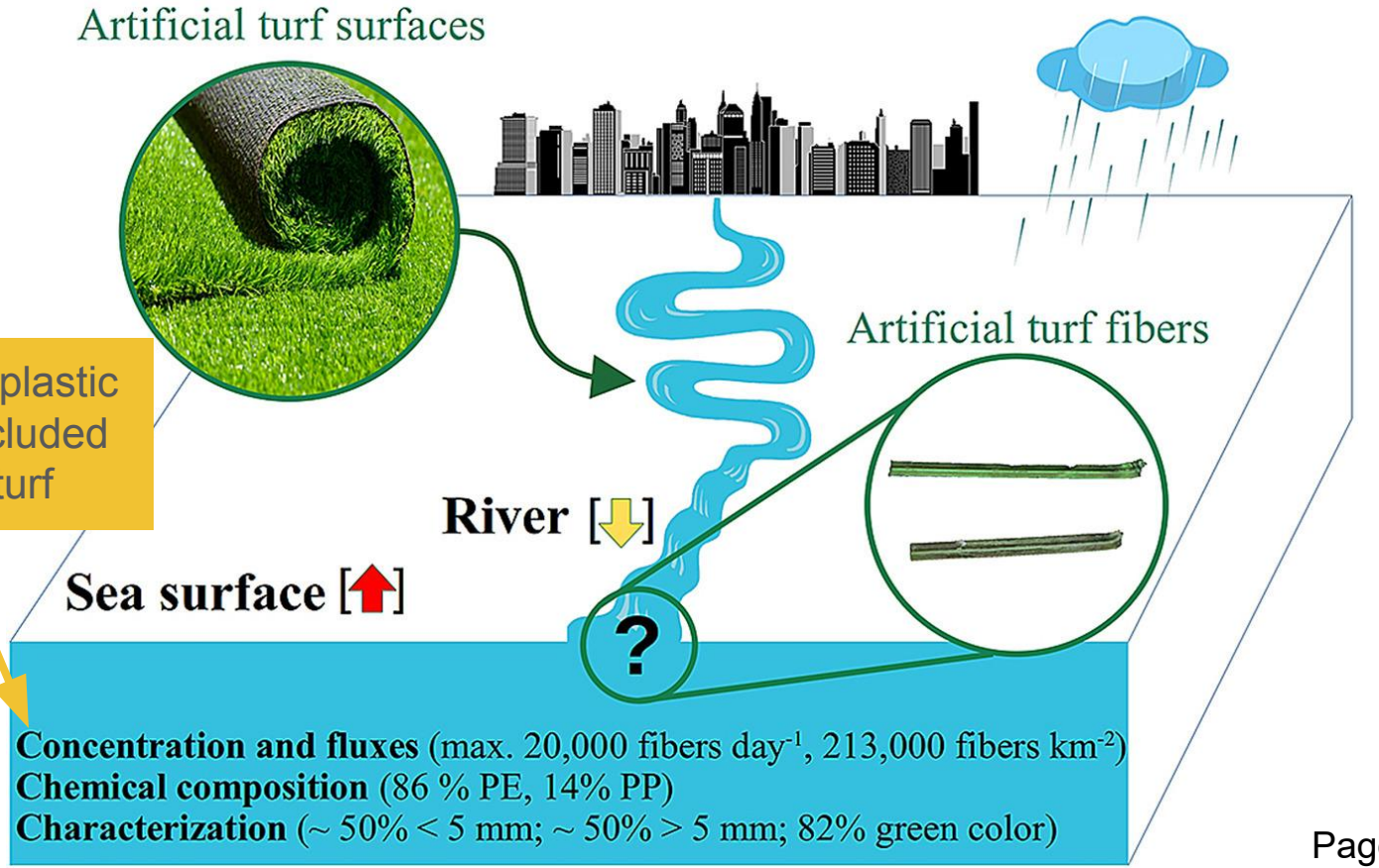
Other health impacts
Decreased antibody response to vaccines
Physical damage
Carcinogen absorption

Pregnancy outcomes
Preterm birth
Lower birth weight
Abnormal genital structure (anogenital distance)
Altered pubertal timing

Source: Based on visuals from a 2021 report by the United Nations Environment Programme, titled "From Pollution to Solution").

Center for International Environmental Law https://www.ciel.org/breathing-plastic-the-health-impacts-of-invisible-plastics-in-the-air/

2023 University of Barcelona Study



50% of ALL plastic samples included artificial turf

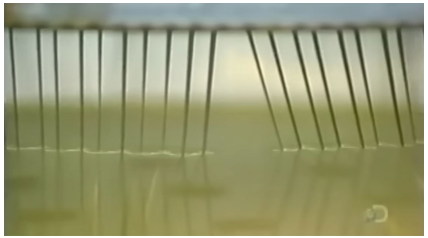
https://www.sciencedirect.com/science/article/pii/S0269749123010965

What is Artificial Turf?

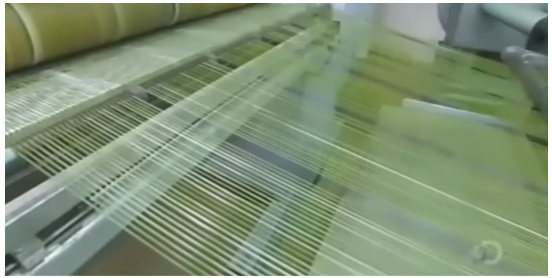
- Plastic grass on a plastic backing with “infill” to hold the blades up

Plastic Pellets into Blades

1.Clear base, color, stabilizers, additives



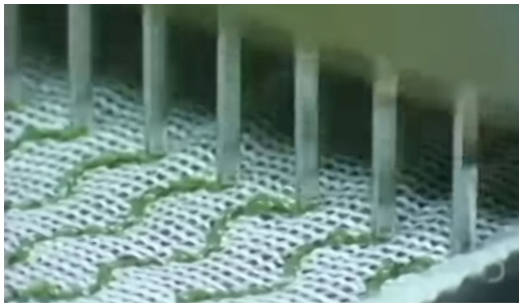
2. Melted, extruded, cooled



4. Rolled, stretched

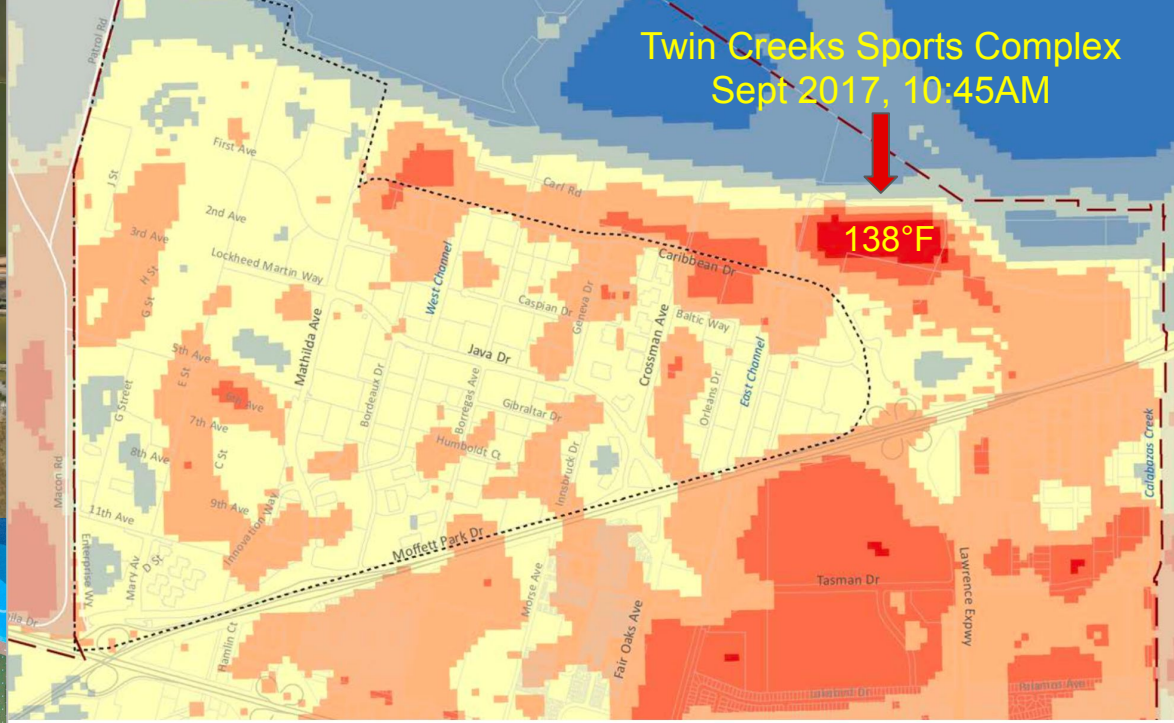
5. Spooled

6. Twisted into yarn



7. Stitched

8. Cut underneath, blades



Surface Temperature (°F)

- 73 -81
- 73 - 90
- 90 - 99
- 99 - 102
- 102 - 108
- 108 - 111
- 111 - 138

MPSP Boundary

N

0.5 mi

Urban Heat Island Effect

Moffett Park's landscape is highly vulnerable to the formation of urban heat islands. Extensive impervious areas, lack of vegetative cover, and low albedo surfaces exacerbate heat stress during summer and extreme heat events. This is of particular concern given Cal-Adapt's climate projections. Average summer temperatures are expected to increase in Santa Clara County by ~4°F by 2050 and up to more than 6°F by 2100

URBAN HEAT ISLAND

"Urban heat stress poses a major risk to public health."

Hsu, A., Sheriff, G., Chakraborty, T. *et al.* Disproportionate exposure to urban heat island intensity across major US cities. *Nat Commun* **12**, 2721 (2021). https://doi.org/10.1038/s41467-021-22799-5

Fair Oaks Park, July 10, 2024, in Sunnyvale,
Artificial turf field with plant-based infill installed 2021

- Artificial turf at Fair Oaks at 151.5℉ was 60℉ hotter than grass
- "Maximum surface temperatures [of modern AT fields] during hot, sunny conditions averaged from **140°F to 170°F**."[1]
- Anti-scald burn chart states that, at **140°F**, skin exposed directly produces a 2nd degree burn in 3 seconds.[2]

1) https://www.nrpa.org/parks-recreation-magazine/2019/may/synthetic-sports-fields-and-the-heat-island-effect/
2) https://antiscald.com/index.php?route=information/information&information_id=15

Turf Burn

Pictures on right from
https://www.safehealthyplayingfields.org/injuries-and-player-preference

"If you play sports on artificial turf, chances are you've experienced turf burn before. Cleaning the burn right away is especially important, since dirt and debris from the turf can cause infection … You'll need to clean the burn and change the dressing daily. Contact your doctor if you see any signs of infection."

https://www.wikihow.com/Treat-a-Turf-Burn#

Harm from injuries in high school athletes

Results:

Researchers identified ***953 injuries, with 61% (n=585) occurring on turf and 39% (n=368) on grass***.

Athletes were 58% more likely to sustain an injury on artificial turf. Football, soccer, and rugby athletes were at a significantly greater injury risk on artificial turf. Upper and lower extremity and torso injuries also occurred with higher incidence on artificial turf.

Data collected from 26 high schools was analyzed to compare injury incidences on artificial turf versus natural grass based on sport. Analyses were also performed to compare injury incidence by injury location (upper extremity, lower extremity, torso), sport, level of competitive play (freshman, junior varsity, varsity), and practice versus competition.

Paliobeis, Andrew BSa,b; Sivasundaram, Lakshmanan MDa,b,c; Knapik, Derrick M. MDa,b,c; et al; ***Injury incidence is higher on artificial turf compared with natural grass in high school athletes:*** a retrospective cohort study. *Current Orthopaedic Practice 32(4):p 355-360, July/August 2021*. | DOI: 10.1097/BCO.0000000000001012. Authors are from University Hospitals in Cleveland, OH and from Case Western University.

Manufacturer warranty

MANUFACTURER'S LIMITED

WARRANTY

With an enduring reputation for innovation and quality in manufacturing, EasyTurf is proud to extend to you FieldTurf's industry-best, eight-year, non-prorated limited warranty on all FieldTurf manufactured products.

FieldTurf products are warrantied against

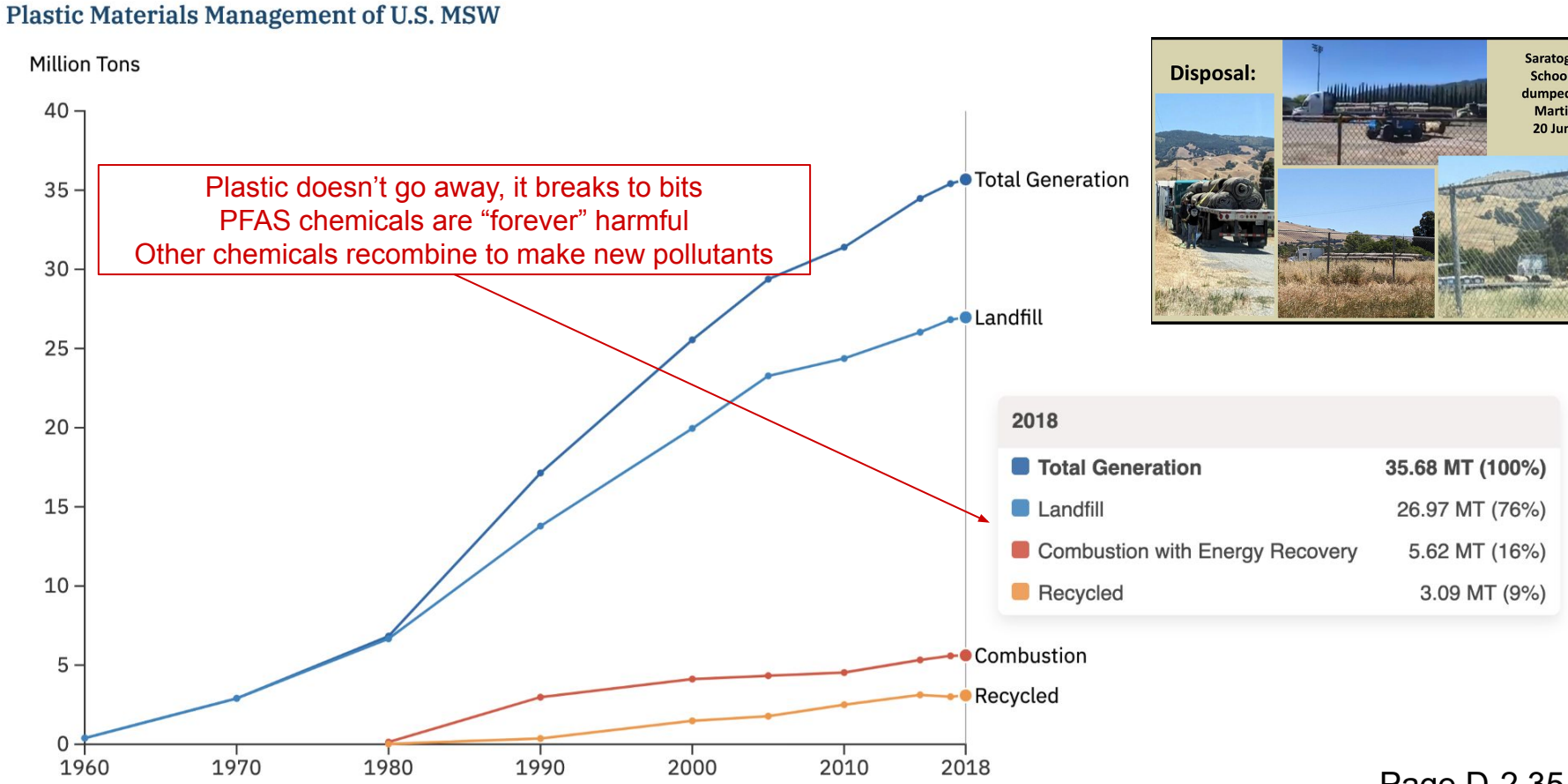
1. Manufacturing Defects. FieldTurf warrants that at the time of original purchase, the product will be free of any defects in materials and workmanship. Synthetic grass products are subject to normal wear and tear. Normal wear and tear is not a manufacturer's defect and is not covered by this limited warranty.

2. Pile Retention. FieldTurf warrants that the Product will retain at least 50% of its pile fiber under the following conditions:
   a. When properly installed to manufacturers acceptable standards, for normal use by a reputable contractor; and
   b. When product is properly maintained according to all manufacturer's care and maintenance guidelines.

BEST IN THE INDUSTRY
8 YEAR
NON-PRORATED

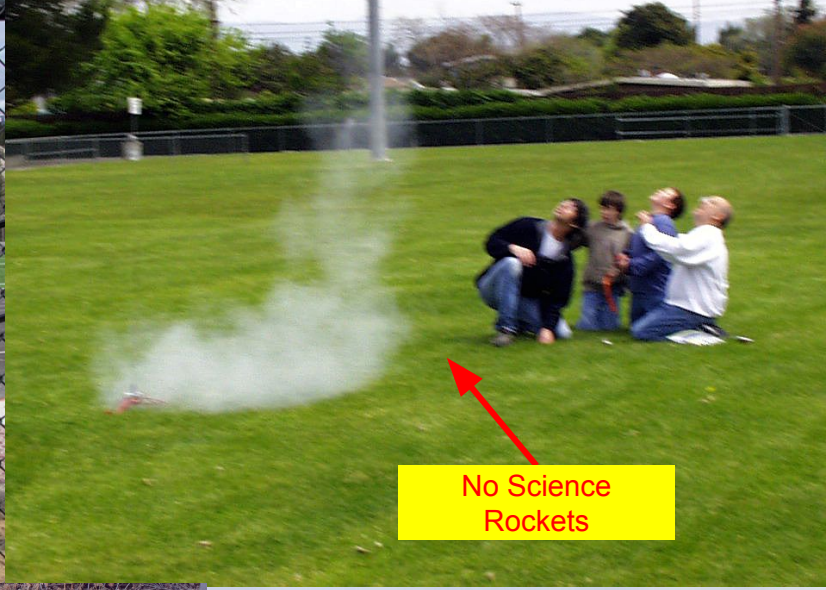
Sales reps often say blades and infill stay put, but the manufacturing warranty says otherwise

Plastic By Year in the United States



Center for Sustainable Systems, University of Michigan. 2024. "Plastic Waste Factsheet." Pub. No. CSS22-11


ARTIFICIAL TURF FIELD RULES
In order that all members of the community can enjoy this facility, we ask for your cooperation in complying with the following rules.
The following are prohibited on synthetic turf:
1. Footwear with metal cleats or screw-in plastic cleats
2. Muddy footwear - Dirt is the enemy of Artificial Turf
3. Dogs or Pets (other than service animals)
4. Beverages (other than water)
5. Glass bottles or containers
6. Food, (including gum, candy, sunflower seeds, etc.)
7. Smoking or Tobacco products of any kind
8. Fireworks, candles, flammable liquids or any open flame
9. Golfing, javelin, bicycles, roller blades, skateboards, scooters, etc.
10. Chairs, tents, canopies, gazeboes or flags with spikes
11. Chalk or field paint
12. Unauthorized vehicles
13. Picking or pulling of grass fibers or infill materials
Thank you for your cooperation and PLAY SAFE!

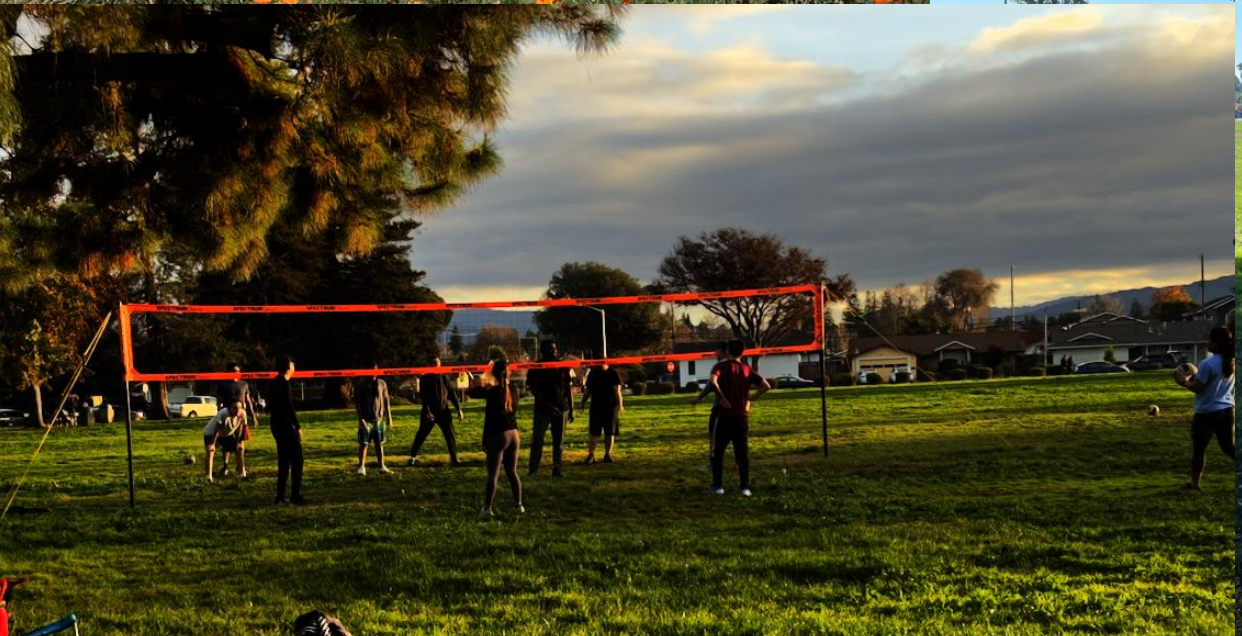

No Science Rockets


No Volleyball Poles or Chairs or Food


EVELYN AVE
YUBA DRIVE
No Bikes or Wheels


No Pets

Is there a viable alternative for landscapes or sports? YES.



Lakewood Park

California Native & Drought Tolerant Landscaping

Hollyleaf Cherry Trees, Hummingbird sage, Ceanothus, etc.

See what's possible
https://gngt.org/GNGT/Gardens.php?year=2023
https://Calscape.org

Bentgrass

Drought Tolerant Grass Bred for Western Sports Fields

Toxic Use Reduction Institute (TURI)
Case Studies
UMass Lowell in Boston

Use reclaimed water, sustainable methods without synthetic pesticides, fertilizers, herbicides

City of San Diego Cost Comparisons in 2011

Cost Benefit Analysis

10-Year Cost Analysis	Natural Turf Field	Synthetic Turf Field
Initial Installation*	$1,200,000	$2,768,000
Annual Maintenance x 10 Years	$493,750	$216,000
Total 10-Year Cost	$1,693,750	$2,984,000
10-Year Projected Hours of Use	19,231	24,380
10-Year Participant Hours of Use	658,586	834,900
Cost per Hour of Field Use	$88	* $122
Cost per Participant Hour of Use	$2.57	$3.57

20-Year Cost Analysis	Natural Turf Field	Synthetic Turf Field
Initial Installation*	$1,200,000	$2,768,000
Annual Maintenance x 20 Years	$987,500	$432,000
Synthetic Turf Surface Replacement *	0	$1,522,400
Total 20-Year Cost	$2,187,500	$4,722,400
20-Year Projected Hours of Use	38,463	48,760
20-Year Participant Hours of Use	1,317,171	1,669,800
Cost per Hour of Use	$57	* $97
Cost per Participant Hour of Use	$1.66	$2.83

* Initial installation estimate is total project cost, including design, environmental review, permits and fees, construction and City construction administration.

2.5 Acre Field

Page D-2.39

https://www.sandiego.gov/sites/default/files/legacy/park-and-recreation/pdf/110303item501b.pdf

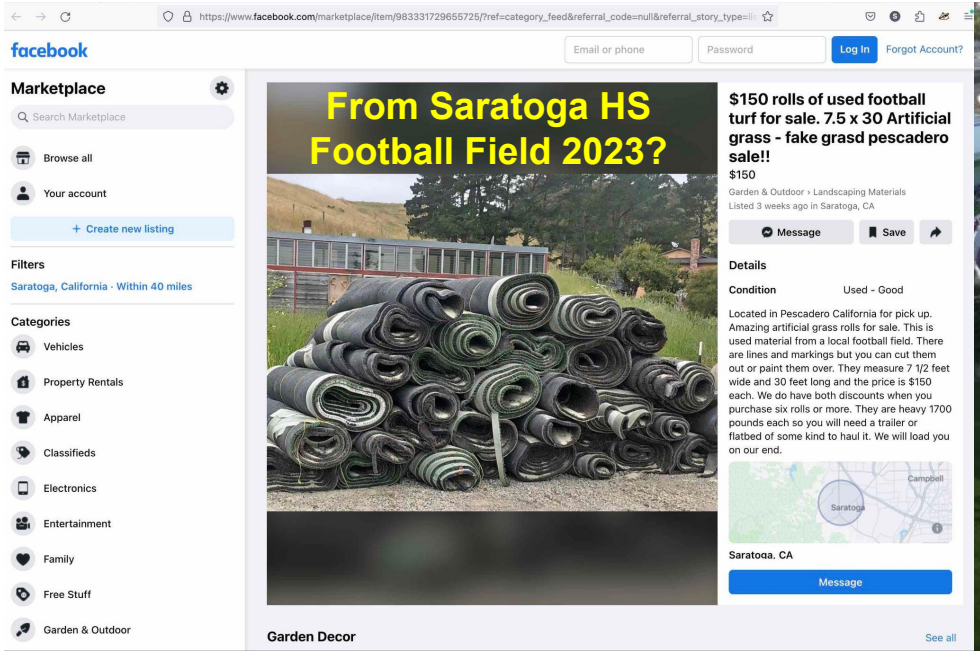
Why not avoid large CAPEX and direct savings to OPEX?

If we invested $10 million over 10 years, the money could be used to

Install **3 new 2.5 acre plastic fields** that will need to be replaced in 8-10 years (for more $)

OR

Renovate or install and properly maintain **6-10 natural grass fields**



Where has plastic turf been prohibited?

- Millbrae, CA has an ordinance prohibiting artificial turf
- San Marino, CA has an ordinance prohibiting artificial turf, passed in September 2024
- Multiple cities in Massachusetts, including Brookline, Wayland, Sharon and Concord, have issued moratoriums on new plastic turf fields
- In 2024, the state of Colorado banned the installation of “nonfunctional” artificial turf, such as is used for landscaping
- The U.S. women's national soccer team filed a lawsuit against U.S. Soccer, in which part of the settlement was that they will no longer have to play matches on artificial turf
- The highest level of men’s professional soccer in the Netherlands has opted to outlaw artificial turf fields for play by the start of the 2025-26 season
- The European Union (EU) in September 2023 enacted a ban on the sale of products containing intentionally added microplastics, and this ban specifically included granular artificial turf infill

Additionally

- In January Santa Clara County votes on prohibiting artificial turf on County-owned property
- Sunnyvale’s City Council is considering a similar measure after rejecting plastic turf for a sports field at Lakewood Park

Time for questions

More information: https://www.sierraclub.org/loma-prieta/plastic-pollution-prevention

Here's an Australian Broadcasting Corp (ABC) 4 minute video on the result of converting an important but less than ideal grass sports field to sustainable, organic maintenance. **The local premier soccer (aka "football" in British English) team was so pleased with the result that they now play premier league games on the reworked natural grass field.**

Note: **"Pitch" = "Field"**
Also **"Football" = "Soccer", not Cricket**

A push to install a synthetic pitch sparks a turf war at one Sydney oval
https://www.youtube.com/watch?v=4gDs9Z4kQME
"Tired of matches being cancelled due to waterlogged grass, **Mosman Football Club** lobbied the council to switch to an artificial surface at Middle Head oval. But they met with stiff opposition from local residents and conservationists worried about the environmental impact. **In the end, a compromise was reached using compost** made from recycled garden waste collected in green bins. "

Strawberries planted into mulched beds. Credit: Seeta Sistla

Plastic removal. Credit: Seeta Sistla

2024 Oct 22, CalPoly, Journal PNAS Nexus

We sampled farms across the California Central Coast (a region of global agricultural importance …) to assess … plastic pollution in fields subject to “best practice” plastic mulching application and removal practices over multiple years. **All farms exhibited surface soil plastic contamination … Identifying declines in soil quality with low levels of macroplastic fragment accumulation suggests that we must [fix] plasticulture practices to limit the threat to soil health** …

2024 Oct. CalPoly, https://academic.oup.com/pnasnexus/article/3/10/pgae433/7828925?login=false

UCSB Caesar Uyesaka Stadium and the California Coastal Commission

Time To Reduce Single-Use Plastics in Menlo Park

January 15, 2025

Presented by the Plastics Ad Hoc Subcommittee

- Nancy Larocca Hedley
- John McKenna

What are Single-Use Plastics?

- Single-use plastics are goods that are made primarily from fossil fuel–based chemicals and are **meant to be disposed of right after use**. Single-use plastics are most commonly used for packaging and serviceware, such as bags, bottles, wrappers, and straws.
- Global plastic production and consumption has **grown exponentially since the 1950s** and is set to triple by 2060 if business continues as usual.
- Reduction in single-use plastics support **SB 54** & Menlo Park's **Zero Waste Plan.**

Sources: National Resources Defense Council, United Nations Environment Programme, SB 54, Menlo Park's Zero Waste Plan

Why Does It Matter?

Plastics contribute to **climate change**. In 2019, plastics generated 1.8 billion metric tons of greenhouse gas emissions - 3.4% of global emissions.

Plastic pollution **breaks up into microplastics** causing **negative effects** in a wide array of organisms in **marine, freshwater and terrestrial environments**. It's estimated that **eight million metric tons** of plastic make their way into waterways every year.

At every stage of its life cycle, plastic can pose **risks to human health**.

Sources: National Resources Defense Council, United Nations Environment Programme, ACS Publications

Can't We Just Recycle?

Many plastics are **not recyclable** via our Recology program (e.g. straws, bags, cutlery).

While Recology collects plastics marked # 1-7, **only # 1 & 2 have markets for reuse**. Plastics # 3-7 currently go into the landfill. They anticipate having a market for # 5 plastics soon.

Safeway on El Camino accepts plastic bags for recycling into products via Trex Company. Ridwell is an option for **repurposing multi-layer plastic and plastic film,** but increases costs for community members.

Source: ReThink tour, December 4, 2024

Key Inputs

City Councilmembers - City Staff - Local Youth (Citizens Climate Lobby, San Mateo Youth) - Regional Experts (Susan Hinton of the Sierra Club) - Local Business Owners - Research on Other Cities Practices - United Nations Environment Programme - National Resources Defence Council

Factors in Identifying Opportunities

- What **impact** would this change have on the plastic crisis?
- Does the City have **jurisdiction** to enact the recommended change?

Opportunities

#1 - Eliminate Single-Use Plastics in City Activities/Events

2 - Have Compost/Recycling Bins at City Events/Facilities

3 - Continue to Add Hydration Stations Across City

4 - Ban Sale of Plastic Water Bottles

5 - Enact Foodware Ordinance

6 - Deploy Party Packs

7 - Invite Zero Waste Re-Filling Store(s) to Menlo Park

8 - Add Climate Action/Zero Waste as Community Need

9 - Educate/Inform Community About Plastic Pollution

Opportunity # 1: Eliminate Single-Use Plastics in City Activities/Events

- Enact policy to **eliminate the purchase and distribution** of single-use plastics for city operations and events (e.g. cups, plates, cutlery, plastic water bottles, bags, etc.) and choose reusable or fiber foodware alternatives
- Menlo Park can **lead as a role model** (a la CAP 5) and share learnings with other cities, residents, and businesses
- Note: in 2024 Menlo Park slowly started to transition to using aluminum cups for city operations and events

Opportunity # 2: Have Compost/Recycling Bins at City Events

- As Menlo Park ceases to use plastic foodware in its operations and events, the **need for compost and recycling bins** at city facilities and at city events increases.
- Items placed in trash bins are buried at Ox Mountain. These items are not sorted, **nobody extracts compostable or recyclable items**.
- Along with bins, we recommend the city **print signs** to **educate community** about where to place discarded items.

Source: ReThink tour, December 4, 2024

Opportunity # 3: Continue to Add Hydration Stations Across City

Image source: MrsBellCo on Etsy

- Hydration Stations offer a **practical and effective solution** to reduce the reliance on single use plastics and help eliminate plastic waste
- In recent years the city has **installed 29 hydration stations** in city-maintained parks and city facilities.
- Opportunistically **add/fix hydration stations** whenever Public Works projects are initiated, tap into **grant monies** for funding
- **Encourage businesses and developers** to incorporate hydration stations in their development plans

Opportunity # 4: Ban Sale of Plastic Water Bottles & Boxes

As hydration stations make drinking water accessible, **the City can consider a ban** on the sale of plastic water bottles and water in boxes

- San Francisco banned the sale and distribution of plastic water bottles on city property (2014)
- SFO banned the sale of water in plastic bottles (2019) and any beverages in plastic bottles (2021)
- Truckee banned the sale of water in single use plastic bottles and paper cartons (2024)
- South Lake Tahoe banned plastic water bottles at city facilities and events (2023) and with commercial vendors (2024)

Opportunity # 5: Enact Food Service Ware Ordinance

- In 2020, San Mateo County's Board of Supervisors adopted a Disposable Food Service Ware Ordinance
- Since then, **16 of 20 cities in San Mateo County have adopted similar ordinances** (exceptions: Menlo Park, Woodside, Portola Valley, East Palo Alto)
  - Reusables for dine-in are encouraged
  - Single-use plastic foodware is banned
  - Fiber foodware is required, aluminum and glass containers also allowed
  - Accessories and condiments are available by request only
- **CCL San Mateo Youth** are **willing to visit restaurants** in Menlo Park to talk with owners and managers about making the switch
- **Track pledges** from local businesses online
- **Celebrate** local businesses once switch is complete

Sources: Citizens Climate Lobby San Mateo Youth, San Mateo County Sustainability Department, Reusable San Mateo County

Opportunity # 6: Deploy Zero Waste Party Packs

- Redwood City & Palo Alto make **Zero Waste Party Packs available to residents .** Instead of purchasing plates, bowls, tumblers, utensils, and napkins that are thrown away or composted after a party, residents would **borrow a party pack**
- **Saves money** for residents and supports Menlo Park's **Zero Waste Plan**
- Preserve Party Set for 40 is $93
- Redwood City (population 80k) has ~8 party packs managed by 6 community hosts
- Palo Alto (population 65k) has ~23 party packs managed by 18 community hosts
- Implementation Options
  - Library & Community Services as Library of Things initiative
  - Invite community members to host party packs

Opportunity # 7: Invite Zero Waste Re-Filling Store(s) to Menlo Park

- Bulk-buy refilling stores can significantly reduce plastic consumption
  - Pantry supplies - oats, rice, oil, beans, etc.
  - Household supplies - glass cleaners, laundry detergent
  - Personal care - shampoo, conditioner, facial cleaners, moisturizers, toothpaste, sunscreen
- Local Retailers to consider inviting to Menlo Park
  - Byrd's Filling Station, Right On! Refillery, Simple, Ethos, FillGood, Re-Up Refills, The Source Zero, Other Avenues Co-Op

Opportunity # 8: Add Climate Action/Zero Waste as Community Need

- Menlo Park has a **community funding grant program** to support local nonprofit agencies whose programs respond to the human service needs of Menlo Park residents
- Verified community needs currently include **people with disabilities, emergency assistance and low income support, seniors, and youth**
- Recommend adding **"Climate Action/Zero Waste"** to City Council Policy # CC-01-1996 Section 2.11
- **Consider making an exception** to the Section 501(c)(3) requirement for a zero-waste refilling store if needed

Source: MP Community Funding Program & City Council Policy # CC-01-1996

Opportunity # 9: Educate/Inform Community About Plastic Pollution

ReThink Waste "Trash To Art" Contest, First Place 3rd Grade Winner: Ananya M. of, Laurel Elementary Upper Campus

- **Leverage** city communications apparatus (newsletters, social media, print mailings, classes at libraries and community centers) to **educate community about plastic pollution** and its impacts.
- **Partner** with local schools, teachers, and students to **broaden engagement** .
- Educate about **single use plastics** and also the **impact of plastics in our clothing** , how they affect waterways when washed, and what people can do about it (buy natural fiber clothes, add a microplastic filter to their washing machine, use bags to trap plastics before they enter the waterways).

Opportunities

#1 - Eliminate Single-Use Plastics in City Activities/Events

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8 - Add Climate Action/Zero Waste as Community Need

9 - Educate/Inform Community About Plastic Pollution

Thank You

Distributed Energy Resources (DER) Subcommittee

Brian Kissel, Susannah Hill, Eduardo Pelegri-Llopart

Jan 16, 2025

Background and Goals

- **DERs - Distributed Energy Resources**
  - **Solar Panels, Electrical Batteries**. Also Thermal Storage, Geothermal…
  - Today, **Behind the Meter**
  - Sometimes also called **Customer-Owned** Energy Resources
- **Caveats**
  - Energy Industry is changing **very** rapidly
  - Stakeholders: **PG&E**, Peninsula Clean Energy (**PCE)**, California Public Utilities Commission (**CPUC),** California Independent System Operator **(CAISO),** California Energy Commission **(CEC), Legislature, Governor,** Federal Energy Regulatory Commission **(FERC), Feds**
  - PCE decisions expected 2H2024 have not yet happened (Res Storage, VPP, SGIP)
- **Goals**
  - Spread awareness of benefits of DERs
  - Encourage DER adoption
  - Prepare stage for future larger role

Benefits of DERs

- **Resilience**
  - Consumer has access to **some** Energy without relying on the wider utility company grid
  - Particularly useful in disasters
- **Affordability**
  - Consumer can use Time-of-Use tariffs, and/or
  - Better use of Self-Generated energy through photovoltaic solar panels (PVs)

- **Energy Independence**
  - This is **harder**. Requires larger generation, more storage, more customer tradeoffs
  - NOT our emphasis

Summary of Ideas

- Better awareness of and interaction with PCE DER Efforts
- REACH codes leveraging CEC 2025
- Communication and Sharing of DER Benefits
- Belle Haven TOU/PV Storage Pilot

Summary of Ideas

- Better awareness and interaction with PCE DER Efforts
  - ☞ Invite PCE to present
- REACH codes leveraging CEC 2025
  - No clear new options yet
- Communication and Sharing of DER Benefits
  - ☞ See slides
- Belle Haven TOU/PV Storage Pilot
  - ☞ See slides
- Support Legislature on DER efforts
  - ☞ See slides

Communication with Residents on DER Benefits

- Explain both Resilience and Affordability
- Examples of Area Topics
  - Presentation by City Staff on how the city benefits from DER
    - F100, Second phase of BHCC, Microgrid, PCE's GovPV
  - Residents explain how DER is helping **them**
  - PCE presents their plans (GovPV, VPP, SGIT program)
  - Presentations from Non-profits, even installers
- Modalities
  - Online presentation, maybe also live audience events
  - Email outreach
  - Kickoff event Plus possibly Regular events
  - Web site on Menlo Park.gov dedicated to DER
    - Announcements. Zoom events.
    - Older presentations
    - Possibly run by volunteers
  - Continuing Home Energy Efficiency Tours

Belle Haven TOU Pilot Ideas

- *Premises*
  A residential battery can **reduce** the cost of electricity (affordability)
  The difference between **peak** and **off-peak** rates will grow over time
- *Observations*
  Batteries complement Solar Power but are **useful on their own**
  Price of batteries continues to go down
  Cost of electrical work to enable batteries impedes adoption
  There is **limited awareness** of benefits of batteries
- *Proposal*
  Help install batteries, leveraging the BH PCE grant spending
- *Benefits*
  Kickstarts adoption and spreads **awareness** of benefits of DERs
  Complements any existing or future Solar Panels

TOU Pilot

Example:
PointGuard starts at
$2600 for 5 KWH

PointGuard Home
With LoadHub

- Grant pays for House Panel Work
  - Can be Whole House or Essentials Panel
  - Work makes panel be battery ready
- Grant provides a small TOU battery (6 kWh?)
- Zero-interest loan? Fully paid? Other structure?
- Grantee commits to report on operating costs and to work with some advisor
- Grantee has/commits to have a fully electrified house
- If **landlord**, commit not to raise rent
- If **renter**, commit to report on operating costs and to work with some advisor
- Grantee may expand battery (if modular product)
- Loan, if structured as such, is forgiven after N years

TOU Pilot - Renters

Example
Anker SOLIX F3800 w/ Smart Home Power Kit

- Two parts of the grant
  - **Landlord** and **Renter**
- Benefit to property owner: Panel Work and Connector Box
  - Commitment not to raise rent
  - Commitment to <some?> fully electrified house
  - Loan is forgiven after N years
- Benefit to Renter: portable storage
  - Commitment to report on operating costs and to work with some advisor
  - Renter may add storage of his own
  - Renter owns storage after N years

Next Steps

- Better awareness and interaction with PCE DER Efforts
  - Invite PCE to present
- ~~REACH codes leveraging CEC 2025~~
  - ~~No clear new options~~
- Communication and Sharing of DER Benefits
  - Explore different communication mechanisms
- Belle Haven TOU/PV Storage Pilot
  - Explore Option

Environmental Quality Commission work plan

City Manager's Office
701 Laurel Street, Menlo Park CA 94025
Approved Sept. 24, 2024

CITY OF MENLO PARK

Work plan goals
1. Provide feedback to staff and advise the City Council on 2025-2030 scope of work implementation for Climate Action Plan (CAP) strategies No. 1 through No. 6 2. Ensure that our most vulnerable communities have a voice in policies and programs to protect their communities from environmental impacts. 3. Leverage best practices to advise/recommend on the preservation of heritage trees, city trees and expansion of the urban canopy; and make determinations on appeals of heritage tree removal permits. 4. Support sustainability initiatives, as needs arise, which may include city-led events, habitat protection, healthy ecology, environmental health protection, healthy air, surface water runoff quality, water conservation and waste reduction. 5. Maintain an annual commission calendar to provide transparency and allow adequate time to prepare agenda items related to the commission's work plan; update and post for public review monthly. 6. Encourage and facilitate robust public comment and participation at Commission meetings. 7. Foster a public meeting environment that is inclusive of all members of the diverse Menlo Park community. 8. Support the filling of openings on the Commission and the effective onboarding of new Commissioners.

Work plan history

Action	Date	Notes
Work plan recommended to EQC	7/17/2024	
Work plan City Council approval	9/24/2024	

Environmental Quality Commission (EQC) agenda topics fiscal year 2024-25

Agenda schedule may change based on City Council, Chair and Vice Chair and staff requests/direction

Month	Topics	Author/Presenter	EQC role
July 2024	Discuss fiscal year 2024-25 agenda calendar, work plan and subcommittees	Sustainability staff/ad hoc subcommittee	Action by Commission
	Annual City Arborist Report and review of heritage tree ordinance administrative guidelines	City arborist and public works staff	Feedback to staff on ideas, policies and programs
	Discuss opportunities for student engagement in EQC	Chair	Action by Commission
August 2024	Review student engagement goals and plan	Student engagement ad hoc subcommittee	Action by Commission
	Presentation on the San Francisco Bay Area Planning and Urban Research Association's (SPUR) relevant research and programs	Guest speakers	Informational/no action
September 2024	Review and discuss student engagement ad hoc subcommittee recommendations	Student engagement ad hoc subcommittee	Action by Commission
	Presentation from the Institute for Market Transformation on Building Performance Standards	Guest speaker	Informational/no action
	Consider appointing commissioners to subcommittees	Sustainability staff	Action by Commission
	Update on the Menlo Park City School District Climate Action Plan	Chair	Informational/no action
October 2024	Presentation from Sustainable San Mateo County	Guest speakers	Informational/no action
	Review Heritage Tree Ordinance administrative guidelines	Sustainability staff	Informational
November 2024	Discuss updates to the Heritage Tree Ordinance administrative guidelines process	Heritage Tree Ordinance administrative guidelines ad hoc subcommittee	Action by Commission
	Review additional urban forest recommendations	Heritage Tree Ordinance administrative	Action by Commission

		guidelines ad hoc subcommittee	
	Update on Compliance with SB 379 Permitting for residential solar energy systems	Sustainability Staff	Informational/no action
	Update on Compliance with SB 379 Permitting for residential solar energy systems	Sustainability Staff	Informational/provide feedback to staff
	Review and discuss approach for the Love Our Earth festival	Sustainability staff	Informational/provide feedback to staff
December 2024	No meeting		
January 2025	Review and discuss recommendations from the impact of plastics on the environment ad hoc subcommittee	Impact of plastics on the environment ad hoc subcommittee	Action by Commission
	Review and discuss recommendations to promote solar and battery storage	Distributed energy resources ad hoc subcommittee	Action by Commission
February 2025	Review options and outreach approach for adopting amendments to the building code	Sustainability staff	Action by commission
	Update on building electrification outreach and education and provide feedback on second round of programming ($4.5 million grant)	Sustainability staff	Provide feedback to staff
March 2025	Select Chair and Vice Chair	Chair	Action by Commission
	Report out on Zero Emission Landscaping Equipment Voucher Program	Sustainability staff	Informational, provide feedback to staff
	Review and discuss recommendations for developing a climate change resilience and adaptation plan	Climate change resilience and adaptation ad hoc subcommittee, sustainability staff	Action by commission
April 2025	Discuss CAP progress report	Sustainability staff	Informational/no action
May 2025	Discuss state, federal and additional grant opportunities	Chair	Informational, provide feedback to staff
	Transportation presentation/joint EQC meeting with Complete Streets Commission	City staff	Informational/provide feedback to staff

	Discuss annual agenda calendar/ work plan to present to the City Council	Sustainability staff/Chair and Vice Chair	Action by Commission
June 2025	Annual City Arborist Report	City arborist and public works staff	Informational
	Approve the annual agenda calendar/ work plan to present to the City Council	Sustainability staff	Action by Commission
July 2025	Review and discuss recommendations to reduce vehicle miles traveled	Transportation ad hoc subcommittee, sustainability and public works staff	Provide feedback to staff
	Review Peninsula Clean Energy's programs	Sustainability staff	Provide feedback to staff

Ad hoc subcommittees

- Student Engagement Ad Hoc Subcommittee
  - Scope: To identify opportunities, recommend programs, and discuss ways to engage students in Menlo Park.
  - Duration: Three months – report out in September 2024
  - Commissioners: Chair Schmidt, Vice Chair McKenna, Commissioner Meyer
- Heritage Tree Ordinance Administrative Guidelines Ad Hoc Subcommittee
  - Scope: Review and present recommendations to amend the heritage tree ordinance administrative guidelines to protect heritage trees and the city's tree canopy.
  - Duration: Three months – report out in October 2024
  - Commissioners: Chair Schmidt, Commissioner Hill, Commissioner Hedley
- Distributed Energy Resources Ad Hoc Subcommittee
  - Scope: Identify and implement programs that can increase the amount of solar and battery storage in Menlo Park.
  - Duration: Two months – report out in January 2025
  - Commissioners: Commissioner Pelegri-Llopart, Commissioner Hill, Commissioner Kissel
- Impact of Plastics on the Environment Ad Hoc Subcommittee
  - Scope: Research and present recommendations on programs and policies to prevent stormwater pollution in the city including artificial turf and single use plastics.
  - Duration: Two months – report out in January 2025
  - Commissioners: Vice Chair McKenna, Commissioner Hedley
- Climate Change Resilience and Adaptation Ad Hoc Subcommittee
  - Scope: Provide feedback to inform the development of a Climate Change Resilience and Adaptation Plan
  - Duration: Two months with an expected report to the EQC in March 2025
  - Commissioners: Vice Chair McKenna
- Transportation Ad Hoc Subcommittee
  - Scope: Work with Complete Streets and Planning Commissions to develop, implement, and communicate programs that support public transit, bicycling, walking, and rolling to reduce vehicle miles traveled.
  - Duration: Two months with an expected report to the EQC in July 2025
  - Commissioners: Commissioner Hedley, Commissioner Meyer, Vice Chair McKenna

Other topics to be determined

- Identify grant funding opportunities
- Track Menlo Park School District electrification efforts and CAP development
- Promote the installation of electric vehicle charging infrastructure
- Provide recommendations for workforce training related to building electrification
- Urban forest management plan
- Electrification reach codes and policies

Regular items

- Annual selection of Chair and Vice Chair (May)
- Chair report to the City Council (at minimum once per year)
- Set fiscal year commission agenda calendar (June/July)
- Annual informational presentation on existing building electrification outreach and education (annual)
- Annual City Arborist Report (spring)
- Zero Emissions Landscaping Equipment (ZELE) Policy progress (requires two years of reporting to the commission directed by the city council starting in 2025)