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# TREE REMOVAL FROM CITY OWNED PROPERTIES

## PG&E Community Pipeline Safety Initiative

Alex Ameri  
Director of Utilities & Environmental Services  
Michelle Koo  
Landscape Architect, Development Services

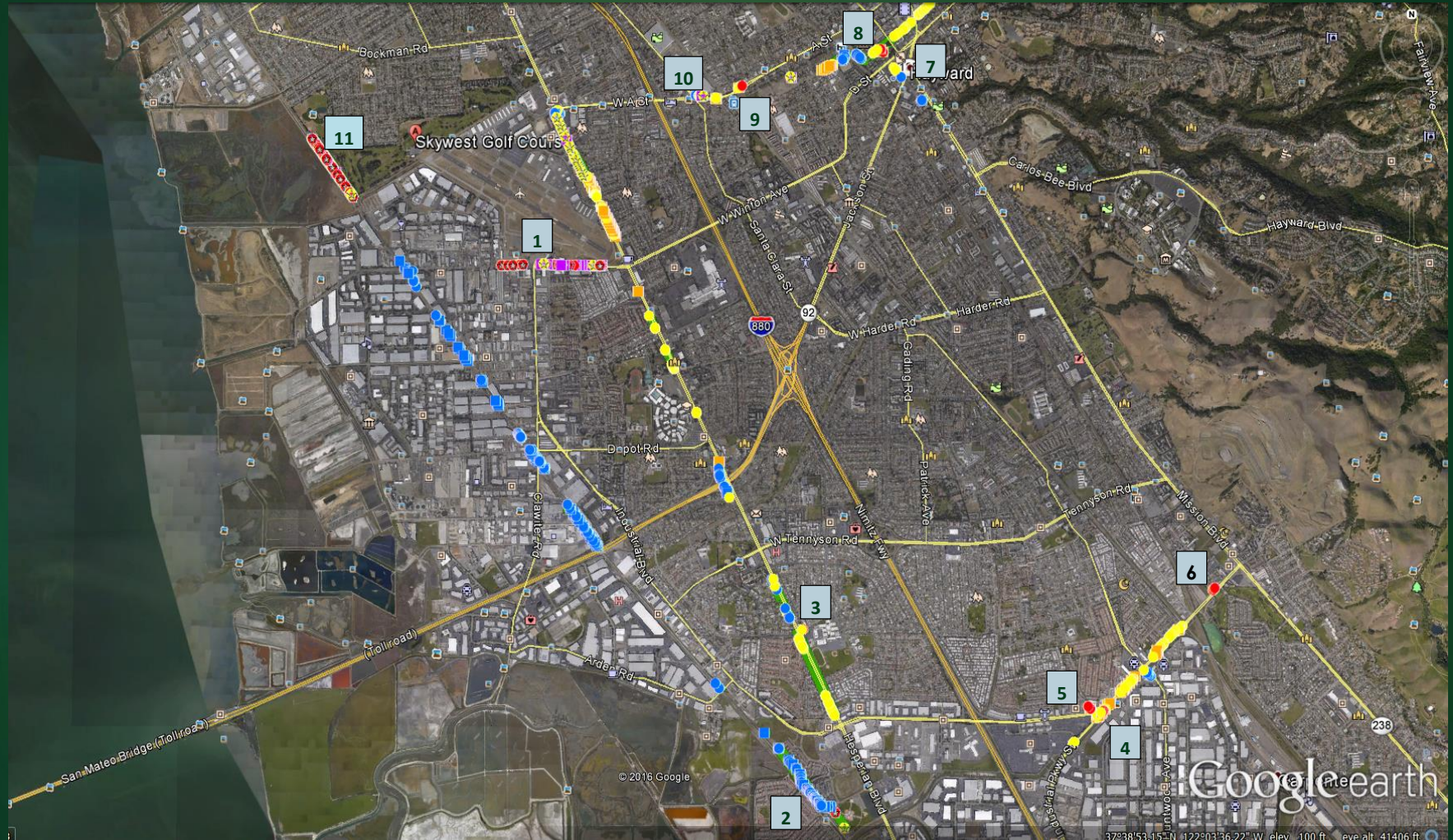
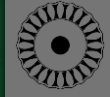
September 12, 2016

# Overview



- ▶ 2014 PG&E Proposal for Tree Removal
- ▶ 2016 Tree removal in private properties
- ▶ 2016 Tree removal in City-Owned properties

# Tree Removal in City-Owned Areas Sub Area Key Map



# Sub Area 1 West Winton, West of Hesperian to Curtis Street



View looking east from W Winton Ave at Clawiter Road

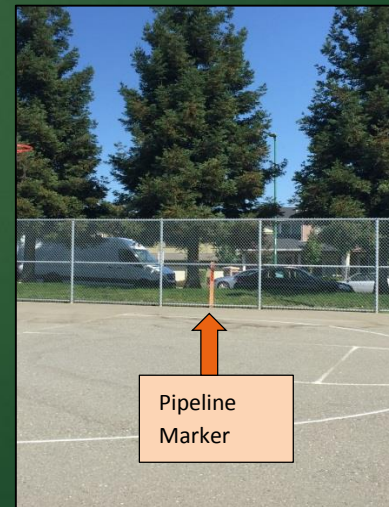


View looking west from W Winton Ave near Hesperian Blvd

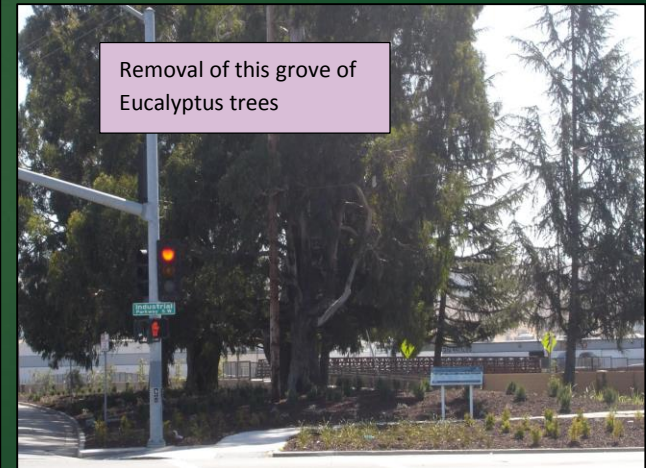
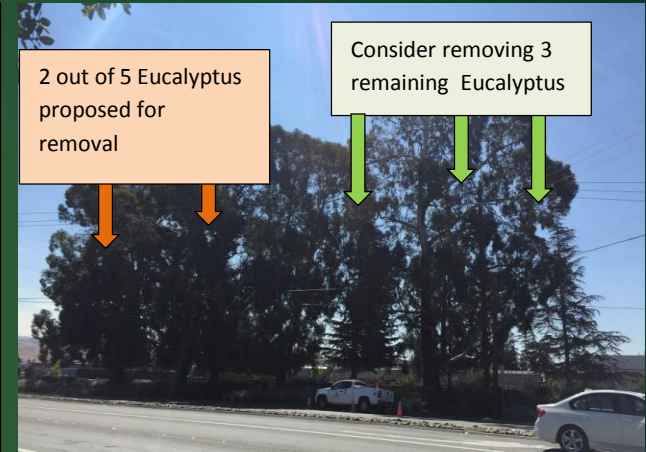


# Sub Area 2

## Eden Shores Sports Park Parking Lot and Eden Park Place



# Sub Area 3 Ruus Triangle at Industrial Pkwy and Ruus Road



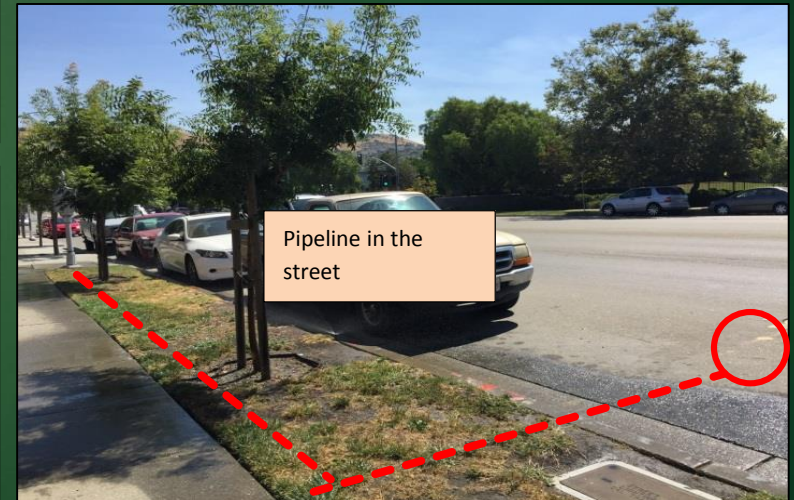
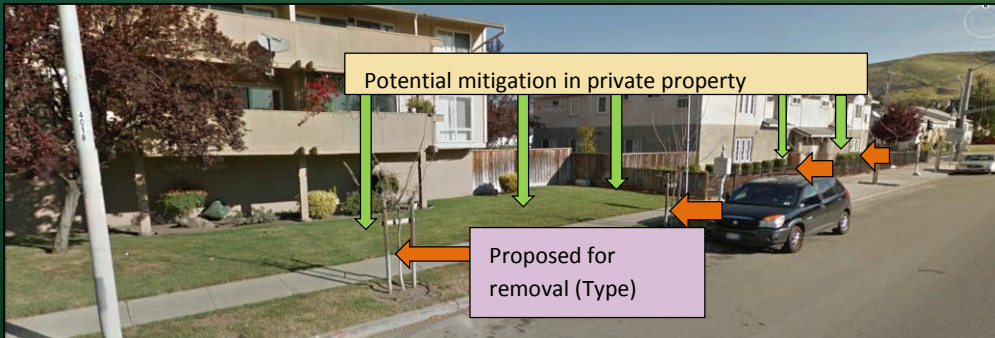
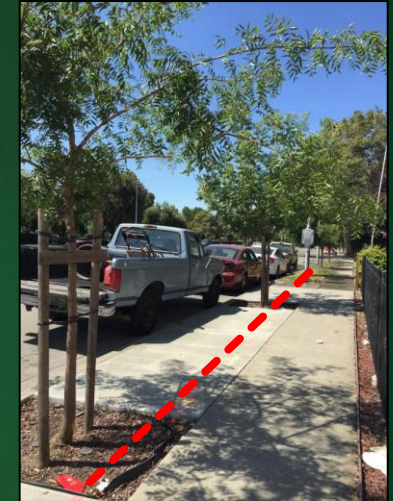
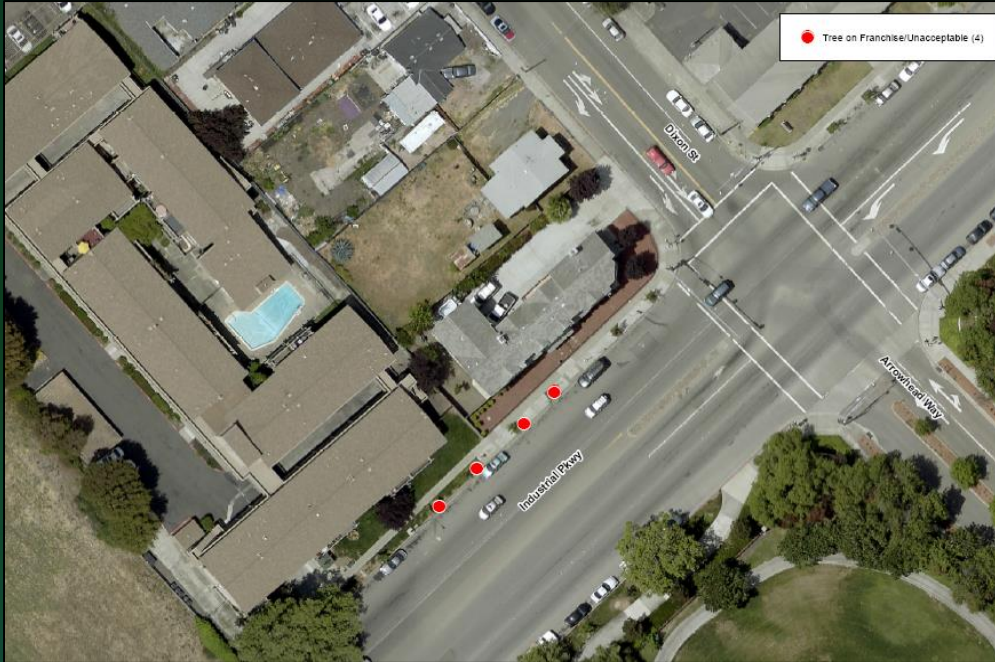
# Sub Area 4

## Ruus Road north of Industrial Blvd



# Sub Area 5

## Industrial Blvd west of Dixon Street





# Sub Area 6

## Watkins Street in front of Main Library between C and D Streets



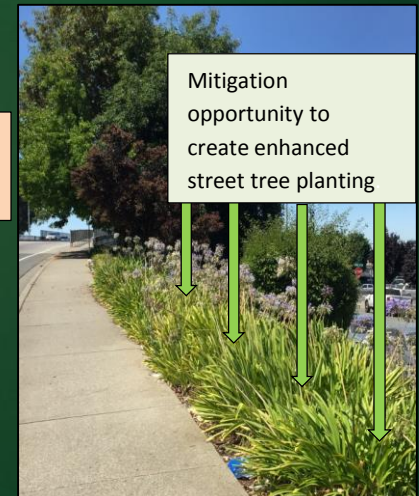
# Sub Area 7

## C Street at West of Grand Street

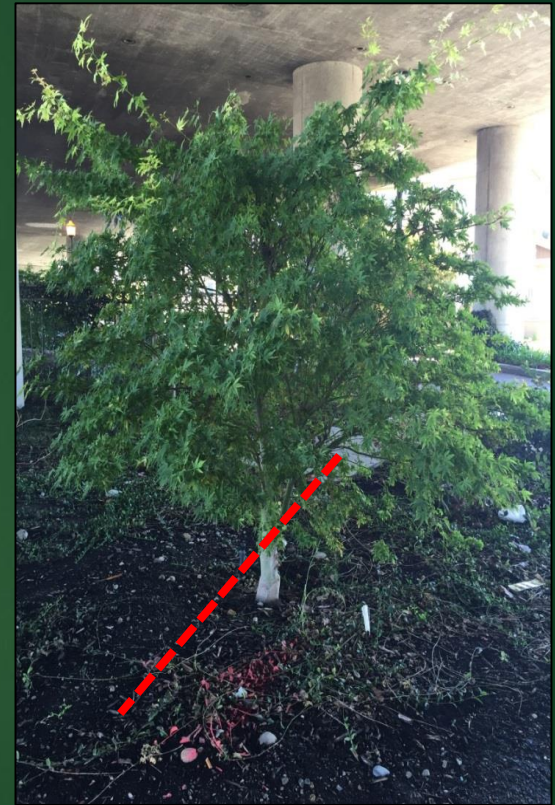


# Sub Area 8

## North side of A Street at overpass



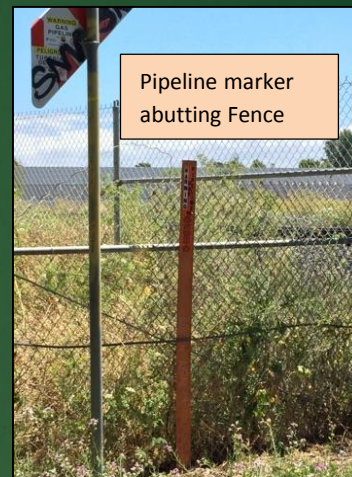
# Sub Area 9 Under East A Street Overpass



# Sub Area 10

## Western Property Fence along Railroad Track

### Skywest Golf Course



Trees at the western Golf Course property fence along the railroad right-of-way directly over the pipeline

# Next Step



- ▶ Review tree mitigation and irrigation design by PG&E
- ▶ Public outreach
- ▶ Developing Terms and conditions for maintenance cost
- ▶ Agreement with PG&E
- ▶ Implementation

# Questions for Committee



- ▶ Should this item be discussed at a future Council work session?
- ▶ Other direction?

# Questions & Discussion







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# Priority Setting for the Alameda County Waste Management Authority

UTILITIES & ENVIRONMENTAL SERVICES

# StopWaste Setting New Priorities



- **Why Set New Priorities?**

- Reduced Funding
  - Forecasted \$1.3 - \$2.2 million shortfall 2018- 2019

- **How?**

- Seek input from a variety of Stakeholders
  - Meetings, phone calls, on-line survey

- **When?**

- Gather Input July - October 2016
- Set Priorities November 2016

# Feedback From July TAC Meeting



- ▶ Voluntary vs Mandatory? Mandatory
- ▶ Doing vs Studying? Both
- ▶ Innovation vs Tried and True? Innovative
- ▶ Sustainability vs Waste Waste
- ▶ Upstream vs Downstream Upstream
- ▶ Organic vs Non-Organic Wastes Organic

# Priority Setting Process September -November



Date	Stakeholder	Action
<b>September 1, 2016</b>	<b>TAC</b>	Initial Strategy Preview and Input
<b>September 14, 2016</b>	<b>StopWaste Staff</b>	Initial Strategy Preview and Input
<b>September 28, 2016</b>	<b>Joint WMA/EC, Recycling Board</b>	Facilitated Goal Setting
<b>October - Dates TDB</b>	<b>StopWaste Staff</b>	Develop Draft Framework for November Board Meeting
<b>October 19</b>	<b>City Managers</b>	Initial Strategy Preview and Input
<b>November 10</b>	<b>Recycling Board</b>	Adoption of Priority Framework
<b>November 16</b>	<b>WMA/EC Board</b>	Adoption of Priority Framework

# Questions & Discussion





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# Energy Performance & Disclosure

**UTILITIES & ENVIRONMENTAL SERVICES**

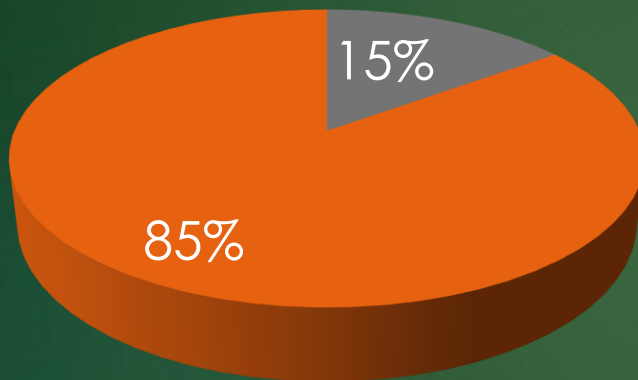
Erik Pearson  
Environmental Services Manager

September 12, 2016

# Existing Homes

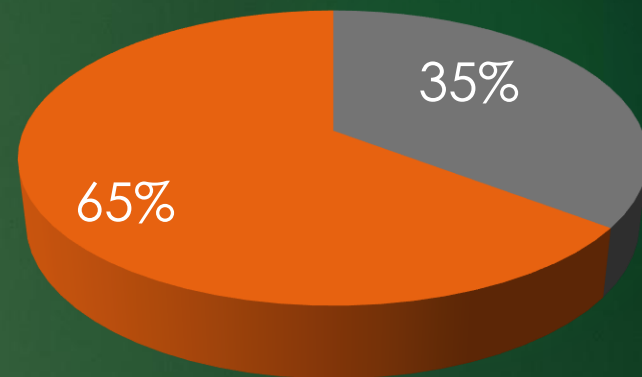


Current



■ post-1990 ■ pre-1990

2040



■ post-1990 ■ pre-1990

# General Plan Programs



- ▶ *NR-5 – Residential Energy Performance Assessment and Disclosure Ordinance.* Not sooner than 2017, the City shall consider adopting a Residential Energy Performance Assessment and Disclosure (EPAD-R) Ordinance for detached single-family homes and multi-family homes.
- ▶ *NR-6 – Commercial Energy Performance Assessment and Disclosure Ordinance.* The City shall consider adopting a Commercial Energy Performance Assessment and Disclosure (EPAD-C) Ordinance for commercial buildings.



# Home Energy Score

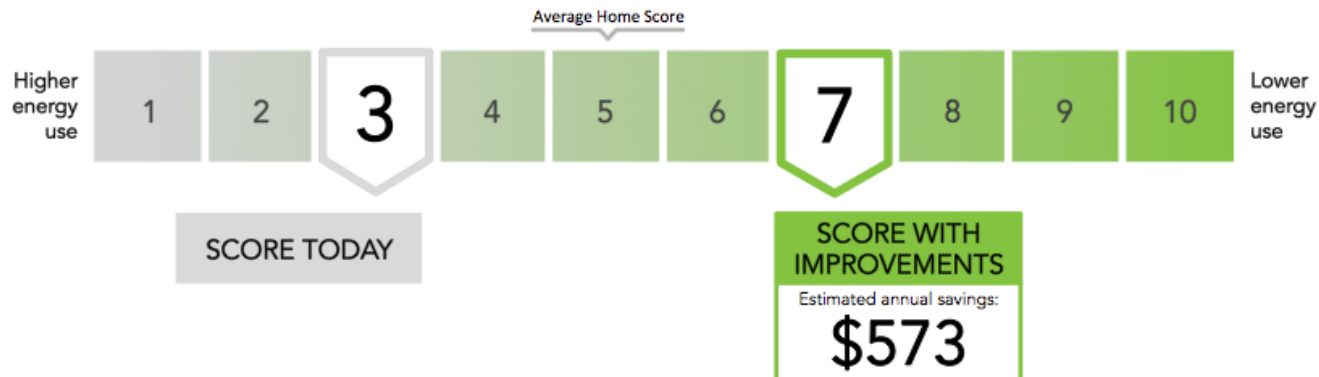


## Home Energy Score

CONDITIONED AREA: 1,500 ft<sup>2</sup>  
YEAR BUILT: 1970  
COST BASIS: \$0.91 / kWh; \$1.153 / therm  
NO. OF BEDROOMS: 3

12345 Honeysuckle Lane  
Smithville, AR 72466

SCORE TODAY **3**



The U.S. Department of Energy's Home Energy Score assesses the energy efficiency of a home based on its structure and heating, cooling, and hot water systems. For more information visit [HomeEnergyScore.gov](http://HomeEnergyScore.gov).

# Home Energy Score

<http://homescoreca.org/>



Home Energy Score  
SAN FRANCISCO BAY AREA

Home Get Your Score Become an Assessor FAQ

**What's Your Home Energy Score?**  
Score yourself a more comfortable home.

**Home Energy Score**  
See how energy efficient your home is compared to other homes.

A score of 1 indicates the home needs extensive energy improvements.

A score of 10 indicates that the home has excellent energy performance.

Uses more energy 1 2 3 4 5 6 7 8 9 10 Uses less energy

Get Started

**4 easy steps for a more comfortable and energy efficient home.**

- 1) Find a qualified Home Energy Score Assessor  
[Find one here](#)
- 2) Get your Home Energy Score  
[Learn how](#)
- 3) Receive upgrade recommendations
- 4) Perform home energy upgrades

# Residential Energy Conservation Ordinance



- ▶ Hayward considered a RECO in 2010 – 2011
- ▶ Would have required energy efficiency improvements at time of sale or by date certain
- ▶ In May 2011, Council voted to stop development of RECO due to potential costs to homeowners
- ▶ Council direct staff to work with StopWaste to develop model ordinance that could be adopted throughout Alameda County

# City of Berkeley



- ▶ RECO – required weather stripping, pipe insulation, etc.
- ▶ BESO – requires submittal of Home Energy Score at time of sale
  - ▶ Owner is responsible
  - ▶ 12-month deferral may be requested
  - ▶ Can be part of general home inspection
  - ▶ Limited number of certified Assessors
  - ▶ Exemptions

# Other Cities



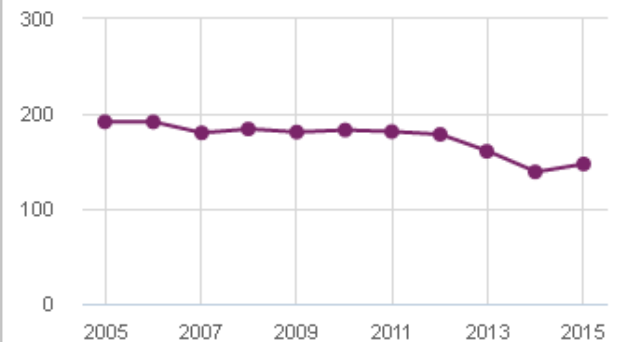
- ▶ Piedmont
- ▶ Albany
- ▶ Brisbane, Menlo Park, San Mateo County
- ▶ Chico
- ▶ Boulder, CO
- ▶ Portland, OR

# Commercial Benchmarking



The most-used energy measurement and tracking tool for commercial

Source EUI Trend (kBtu/ft<sup>2</sup>)



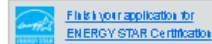
Welcome HAWARDCA: [Account Settings](#) | [Contacts](#) | [Help](#) | [Sign Out](#)

MyPortfolio | [Sharing](#) | [Planning](#) | [Reporting](#) | [Recognition](#)

## Hayward City Hall

777 B Street, Hayward, CA 94541 | [Map It](#)  
 Portfolio Manager Property ID: 2833621  
 Year Built: 1998

[Edit](#)



ENERGY STAR Score (1-100)

Current Score: 76

Baseline Score: 57

Summary | [Details](#) | [Energy](#) | [Water](#) | [Waste & Materials](#) | [Goals](#) | [Design](#)

### Notifications (1)

Property request has been accepted. Please make sure you've granted Lucid 'READ WRITE' access on your property to enable all of the features of the BuildingOS Energy STAR

[Clear](#)

### Property Profile

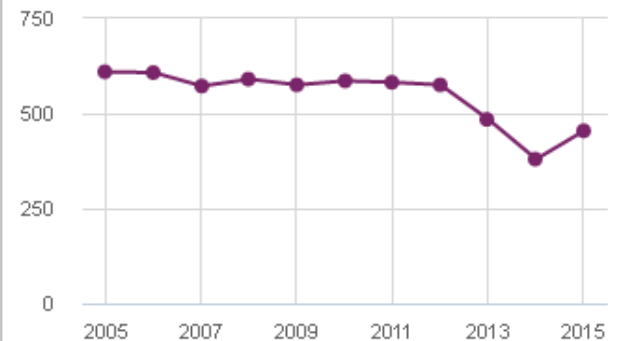
You haven't created a profile for your property yet.

### Metrics Summary

[Change Time Period](#)

Metric	Dec 2005 (Energy; Baseline)	Jul 2016 (Energy; Current)	Change
ENERGY STAR score (1-100)	57	76	19(33.3%)
Source EUI (kBtu/ft <sup>2</sup> )	191.6	148.1	-43.5(-22.7%)
Site EUI (kBtu/ft <sup>2</sup> )	83.8	62.1	-21.7(-25.9%)
EnergyCost (\$)	245,454.97	245,739.10	1284.13(0.5%)
Total GHG Emissions (Metric Tons CO <sub>2</sub> e)	609.9	460.9	-149.0(-24.4%)
Water Use (All Water Sources) (gpd)	<a href="#">Not Available</a>	<a href="#">Not Available</a>	N/A

Total GHG Emissions Trend (Metric Tons CO<sub>2</sub>e)



# Challenges



- ▶ Community acceptance
- ▶ Realtors and property managers
- ▶ Rebates might not last
- ▶ Impact on City staff resources

# Sustainability Features



- ▶ Energy – EPAD would reduce energy consumption – especially for those energy sources that depend on fossil fuels.
- ▶ Water – Portfolio Manager can be used to track water consumption.
- ▶ Air – Energy efficiency improvements typically result in reduced emissions and improved indoor air quality



# Questions for Committee



- ▶ Should staff pursue development of an EPAD ordinance?
- ▶ Should the ordinance focus on residential or commercial properties first?
- ▶ Should this item be discussed at a future Council work session?
- ▶ Other policy direction?

# Next Steps



- ▶ Public Outreach
- ▶ City Council Work Session in early 2017

# Questions & Discussion





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# STORMWATER & GREEN INFRASTRUCTURE REGULATIONS FOR DEVELOPMENT

## UTILITIES & ENVIRONMENTAL SERVICES

Elisa Wilfong  
Water Pollution Control Administrator

September 12, 2016

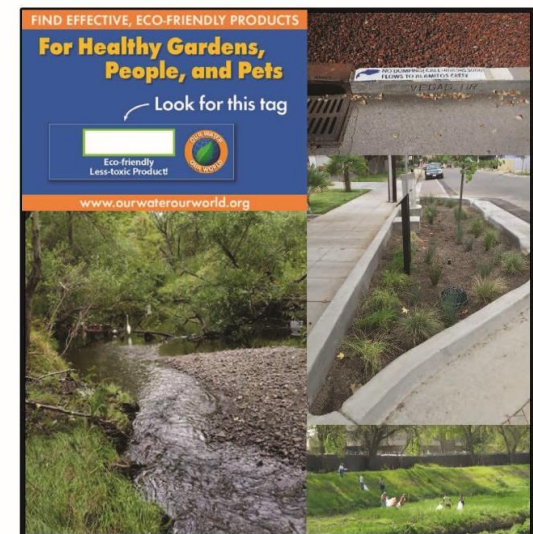
# Stormwater Regulatory History for Development



- ▶ 2003
  - ▶ Countywide stormwater permit amended to include Provision C.3: New and Redevelopment Requirements
  - ▶ Projects creating  $\geq 1$  acre of impervious surface required to capture and treat stormwater
- ▶ 2009
  - ▶ Municipal Regional Permit adopted
  - ▶ Threshold expanded to **10,000 sq. ft.**
- ▶ 2015
  - ▶ MRP 2.0 reissued
  - ▶ More prescriptive C.3 requirements
  - ▶ Addition of Green Infrastructure section to reduce PCBs and mercury pollution to the Bay

California Regional Water Quality Control Board  
San Francisco Bay Region  
Municipal Regional Stormwater NPDES Permit

Order No. R2-2015-0049  
NPDES Permit No. CAS612008  
November 19, 2015



# What is Provision C.3?



If you create this:



You have to create this:



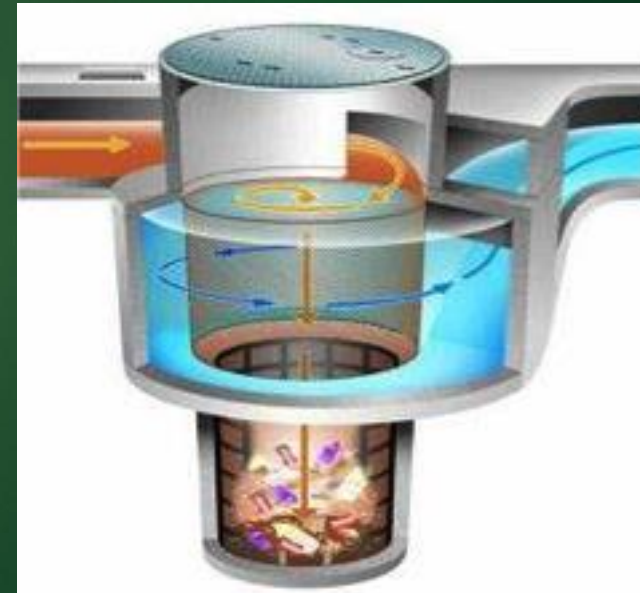
OR this:



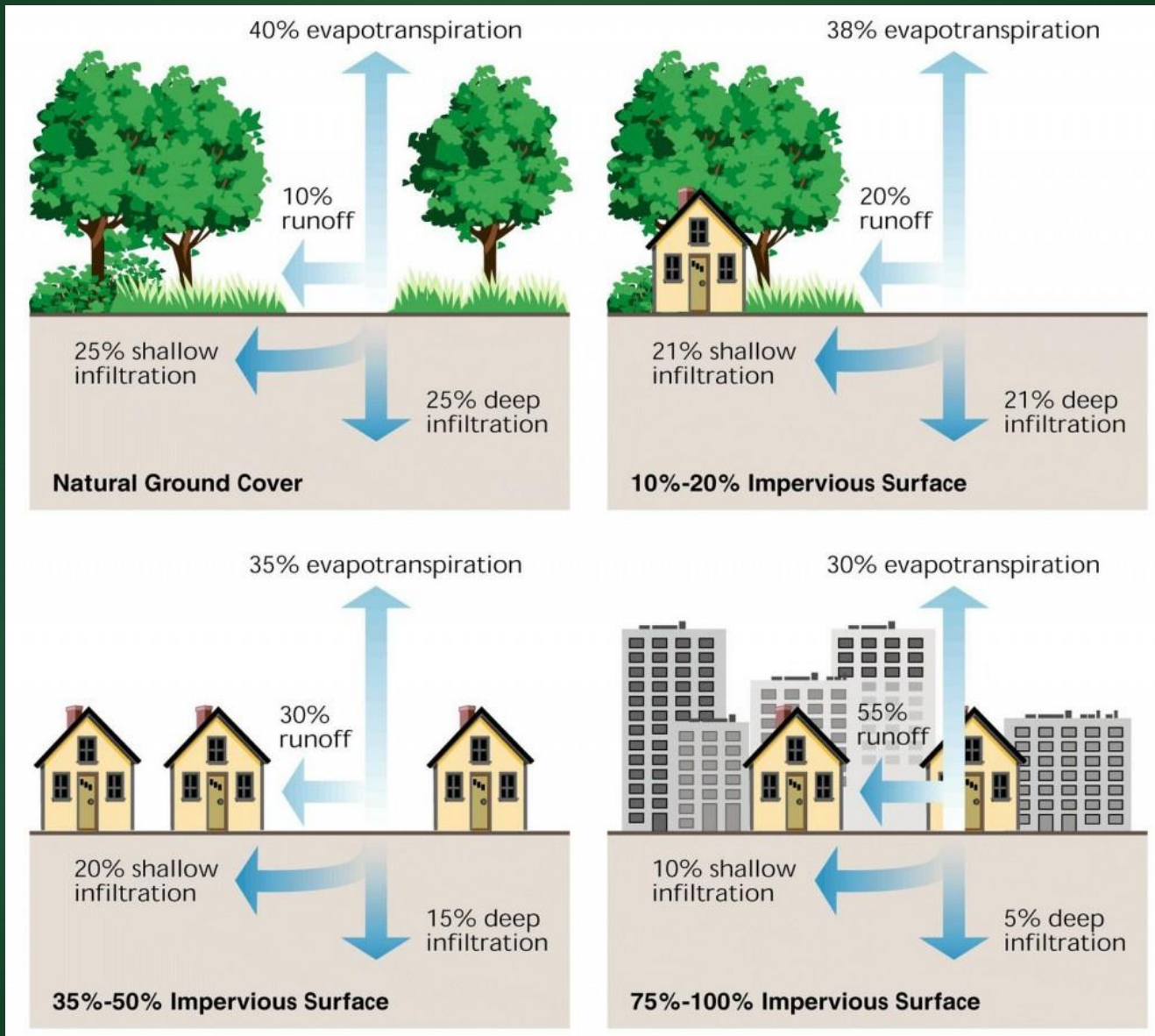
OR this:



OR this:



# Impervious surface increases runoff and pollution.





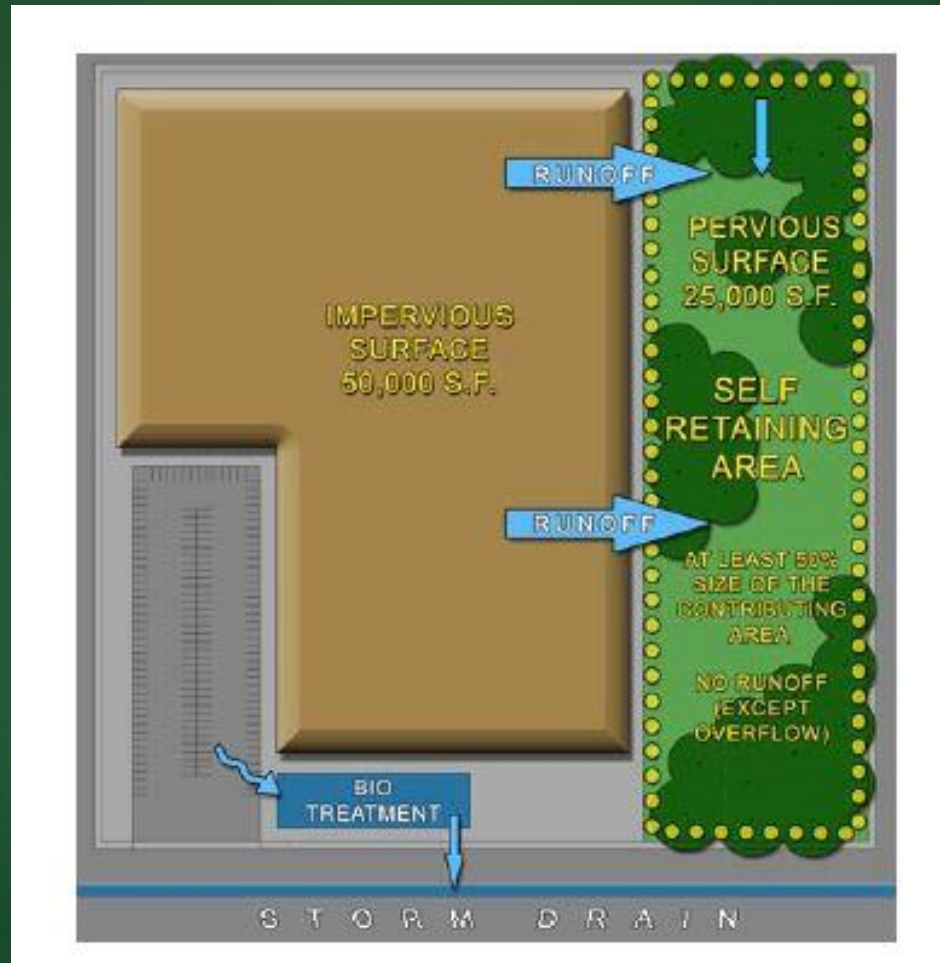
# C.3 Offsets Impervious Surface



Figure 2.1: Three-Dimensional View of a Stormwater Planter



# C.3 Requirements Based on Square Footage of Impervious Surface





# What is Green Infrastructure?

- ▶ Facilities that manage stormwater using vegetation, soils, and natural processes
- ▶ Removes pollutants and reduces volume of flow



# Examples of Green Infrastructure



Bioswales/Rain Gardens/Bioretention



"Green Streets", Planters, Tree Wells, Pervious Paving



# Examples of Green Infrastructure



Green roofs



Rainwater harvesting/use

# Examples of Rainwater Reuse in Hayward



## New Hayward Public Library



contract and planner  
**noll**  
 723 Main Avenue  
 Berkeley, CA 94710  
 916.464.0291  
 fax 916.467.2028



**CITY OF HAYWARD**  
 21ST CENTURY LIBRARY &  
 COMMUNITY LEARNING  
 CENTER FOR HAYWARD  
 2009 8th 100 Blvd  
 Hayward CA 94621  
 PROJECT NO: PLS 11-2009



**CONFORM SET FOR  
 CONSTRUCTION**

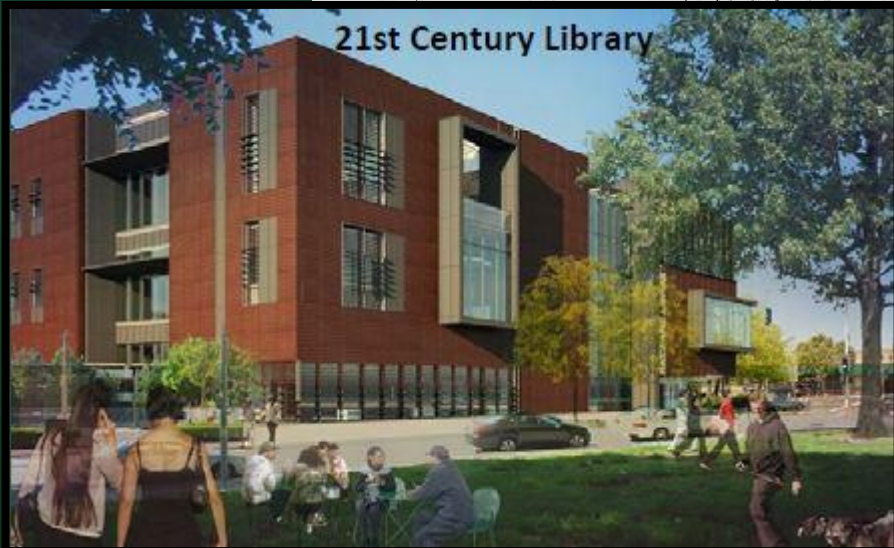
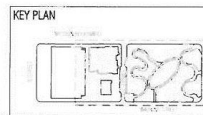
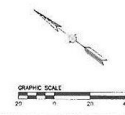
DATE: 11/11/11  
 SHEET NO: C5.02

**STORMWATER CISTERN  
 ROUTING UTILITY PLAN**

**C5.02**

DETAINMENT AREA AND FLOW SUMMARY

CATCHMENT AREA	TERRAIN AREA (SQ FT)	IMPERVIOUS AREA (SQ FT)	TOTAL DRAINAGE AREA (SQ FT)	10-YEAR PEAK FLOW (CFS)
EXISTING PARKING LOT (1ST LEVEL)	0	38,519	38,509	2.16
LIBRARY EXISTING 1ST AND 2ND FLOOR	2,214	27,215	31,730	1.60
C STREET AND SIDEWALK	1,818	23,495	17,183	1.12
PARK SIDE	25,113	1,204	31,738	0.82
TOTAL	31,145	92,433	127,110	5.69



# Green Infrastructure Requirements



- ▶ Identify priorities. Implement and report all GI projects
- ▶ Develop GI workplan and GI long-term plan
- ▶ Treat acreage with GI to reduce PCBs and Mercury (targets set for 2020 and 2040)
- ▶ Create legal authority to implement GI plan through Council approval of GI Plan/Ordinance





# Sustainability Benefits of Green Infrastructure



- ▶ Reduce urban heating
- ▶ Reduce greenhouse gases (combat climate change)
- ▶ Land conservation/create more open space
- ▶ Improve water quality, reduce pollution to the Bay
- ▶ Opportunities to harvest and reuse stormwater
- ▶ Improve community and City walkability
- ▶ Groundwater recharge



# Road to Compliance

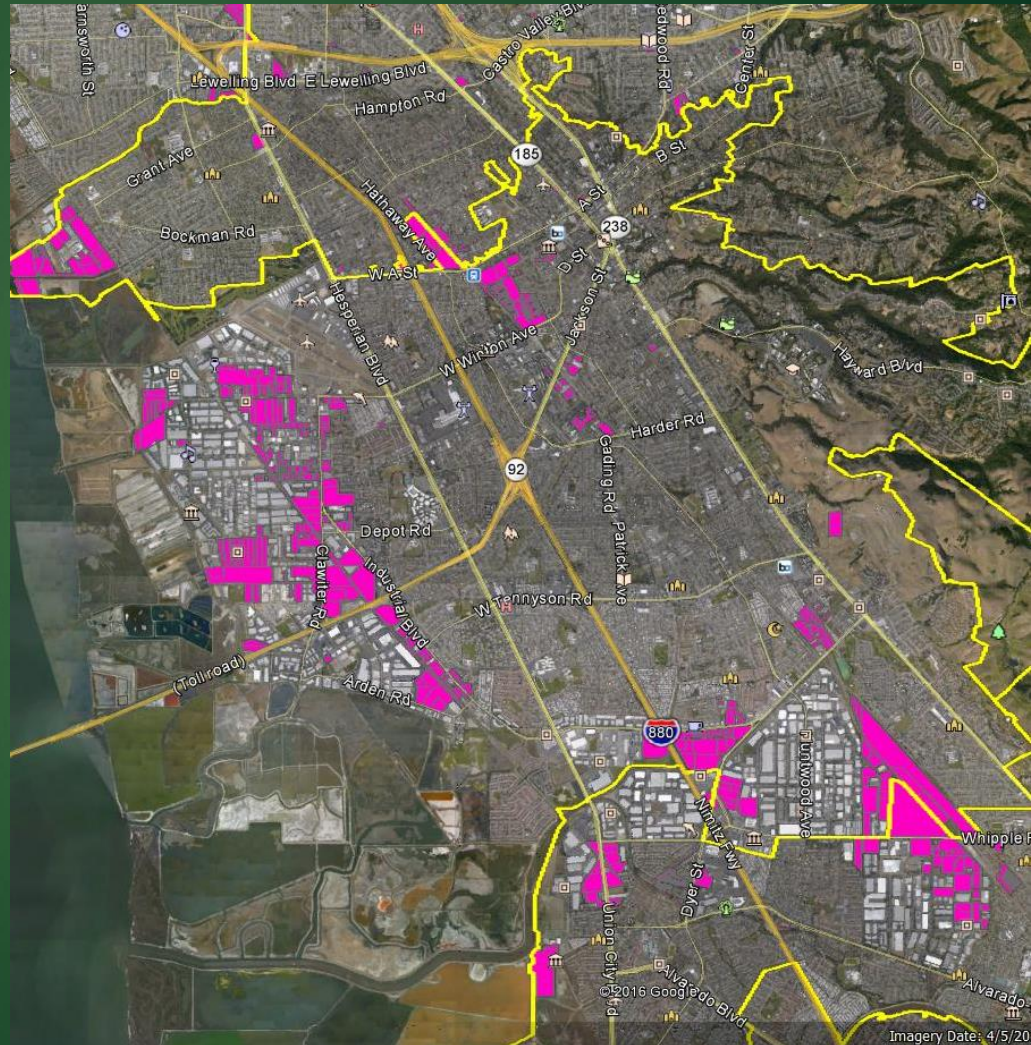


Shift from conventional development to green development

# Current C.3 Program is not enough



- ▶ Need to implement large scale projects
- ▶ Need to focus on **old industrial** for GI
- ▶ Need to incorporate GI in current CIP projects for cost savings



# Two Prong Approach to GI Implementation



Require GI in Current  
Projects (no missed  
opportunities)

Design Future Projects  
for GI to meet goals



Long-Term GI Plan

# Staff Next Steps



- ▶ Create “GI Team”
- ▶ Meet monthly to develop workplan and long-term plan
- ▶ Review CIP list and assess current C.3 projects to reach goals by 2020 and 2040
- ▶ Design future projects for GI and possible grant funding



# Green Infrastructure Tasks and Due Dates



Date	Task
Fall 2016 (suggested date)	Draft Workplan for Preparing Green Infrastructure Plan
June 30, 2017 (required date)	Framework must be approved by City Council
September 30, 2019 (required date)	Green Infrastructure Plan must be submitted to S.F. Regional Water Quality Control Board
September 30, 2019 (required date)	Adopt ordinance ensuring GI plan implementation

# Questions & Discussion





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## **Update on City-Wide Water Conservation and Revised Emergency Regulations for Statewide Urban Water Conservation**

UTILITIES & ENVIRONMENTAL SERVICES



# Emergency Regulations Timeline

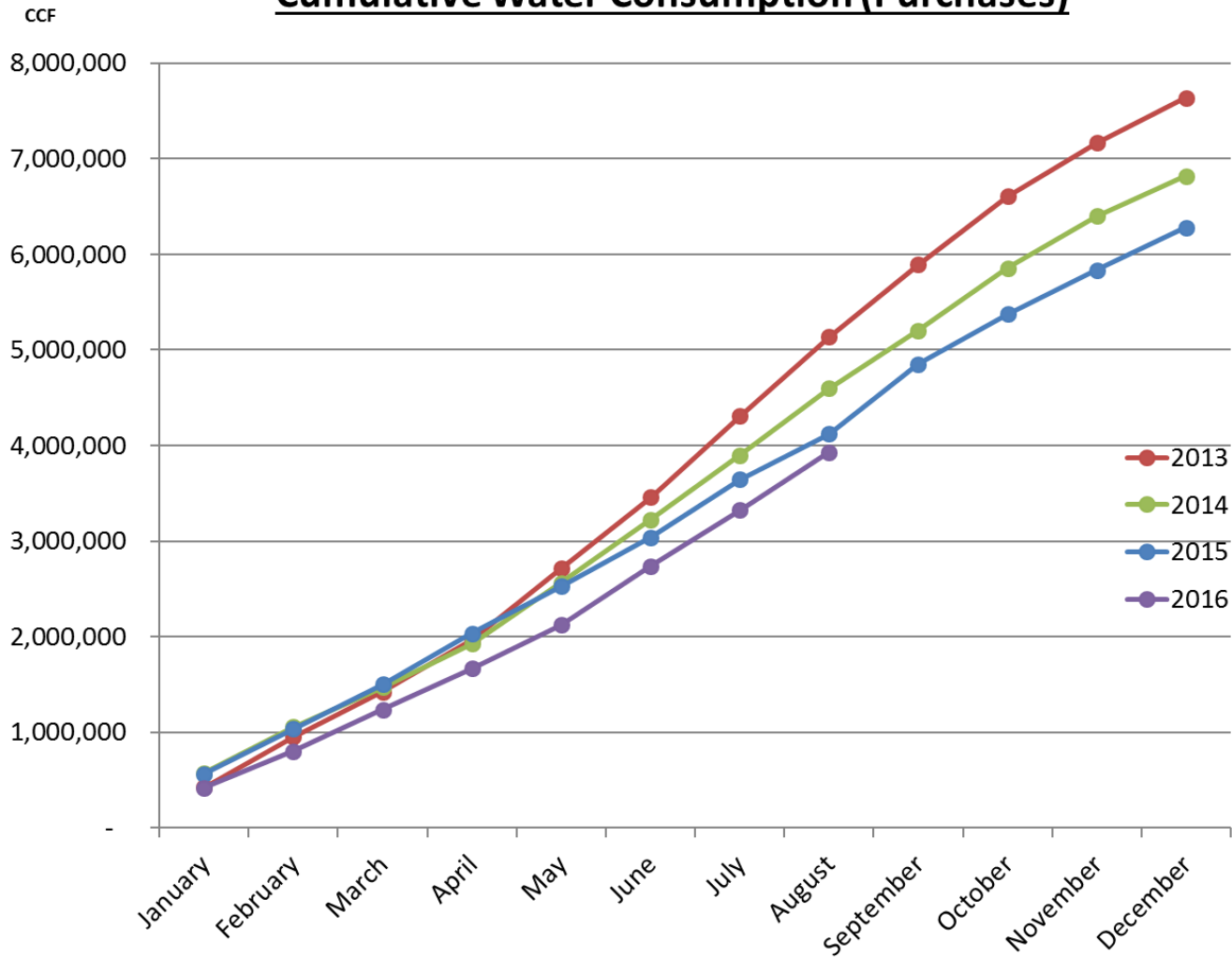


- ▶ May 2015 – State Water Board revises Emergency Regulations to achieve a 25% statewide reduction
- ▶ June 2015 – Compliance assessment begins
- ▶ May 2016 – State Water Board adopts revised Emergency Regulations

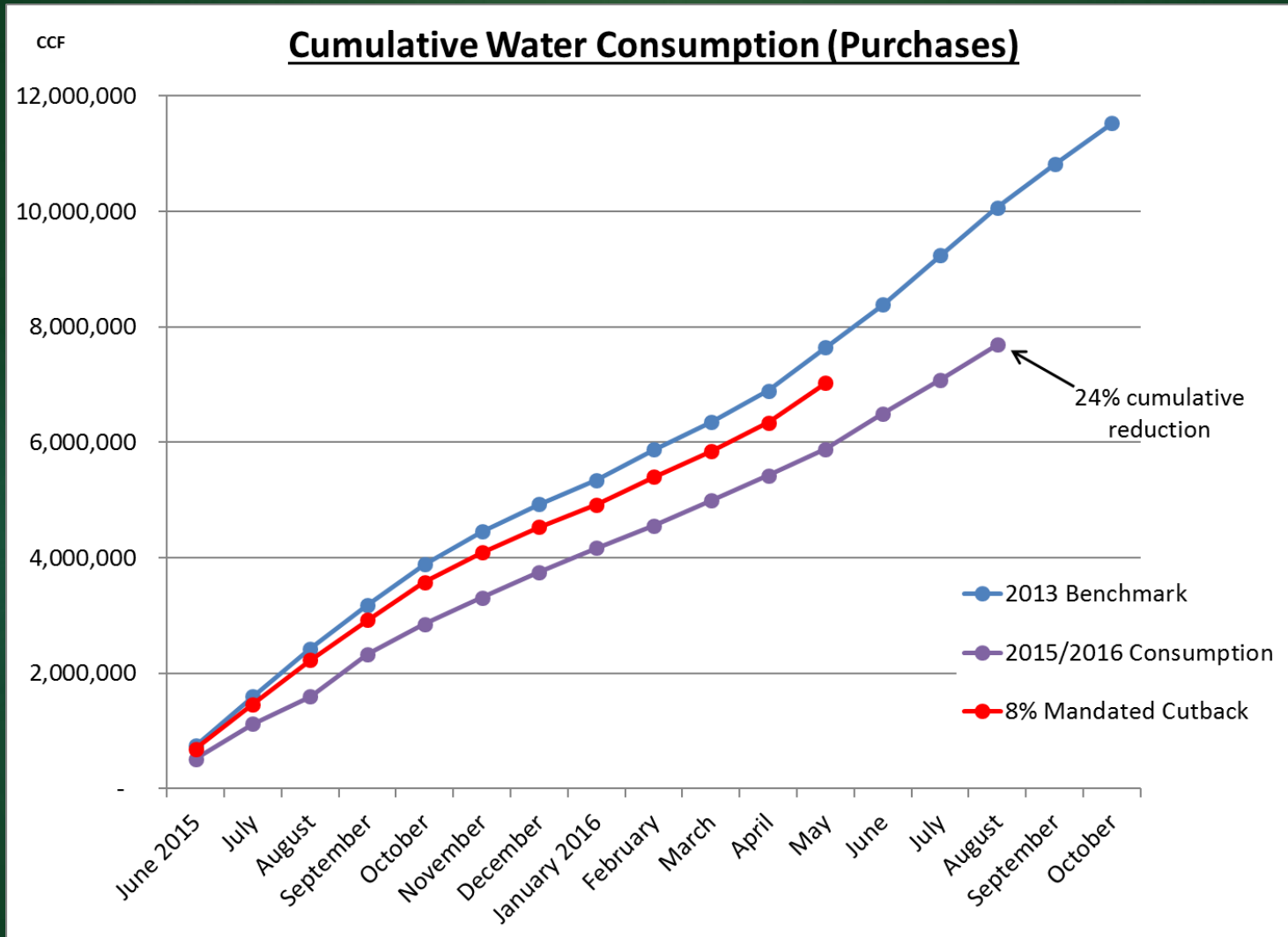
# Water Consumption Comparison



## Cumulative Water Consumption (Purchases)



# Consumption Beginning June 2015



# Revised Water Conservation Regulations



- ▶ Adopted by State Water Board on May 18
- ▶ Replaces the prior percentage reduction-based standard with a localized “stress test” approach
- ▶ Less restrictive measures adopted in recognition that local agencies are better positioned to assess, plan for, and accommodate drought impacts on their water supplies
- ▶ Requires water suppliers to ensure at least a three-year supply of water to their customers under drought conditions
  - ▶ Based on analysis completed by SFPUC, no percentage reduction will be mandated by State Water Board
  - ▶ SFPUC has requested a voluntary 10% reduction from its customers



JUST **PUSH IT**

Sweep don't spray. It's a DROUGHT.

[hayward-ca.gov/droughtwatch](http://hayward-ca.gov/droughtwatch)



Hetch Hetchy  
Regional Water System  
Services of the San Francisco Public Utilities Commission



SHORT & **STEAMY**

Shorten your showers. It's a DROUGHT.

[hayward-ca.gov/droughtwatch](http://hayward-ca.gov/droughtwatch)



Hetch Hetchy  
Regional Water System  
Services of the San Francisco Public Utilities Commission

# Questions & Discussion





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## **Solid Waste Diversion Rate Update**

UTILITIES & ENVIRONMENTAL SERVICES

# Diversion Rate Overview



- AB 939 Requires Diversion of 50%
- CalRecycle Measures Compliance by:

Annual pounds per-capita disposed

vs

Target per-capita rate

- Special Waste deductions



# Diversion Rate: 2014



- 2014 Diversion 76% - under review by CalRecycle
- Changes to Special Waste documentation requirements
- 2014 Diversion = 74%-76%
- CalRecycle to confirm in Fall 2016

# Diversion Rate 2015



- 2015 Diversion of 73%
- Most waste to landfill since 2011
  - Strong economic activity
- CalRecycle to provide update  
December 2016

Year	Rate
2000	52%
2005	62%
2006	65%
2007	56%
2008	63%
2009	68%
2010	67%
2011	71%
2012	72%
2013	74%
2014	74%-76%
2015	<b>73%</b>

# Questions & Discussion

