



# *The Revised Municipal Regional Permit*

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San Mateo Countywide Water  
Pollution Prevention Program



SAN MATEO COUNTYWIDE  
**Water Pollution  
Prevention Program**

Clean Water. Healthy Community.

[www.flowstobay.org](http://www.flowstobay.org)

C/CAG Board of Directors  
December 10, 2015

# The Municipal Regional Permit

- Issued by SF Bay Regional Water Board
- 76 municipal permittees
  - San Mateo, Santa Clara, Alameda, Contra Costa Counties, Cities of Fairfield, Suisun City, Vallejo
- Addresses full spectrum of stormwater issues
  - Municipal, commercial, construction
  - Monitoring, outreach
  - New & Redevelopment
  - Pollutants of concern

# Municipal Regional Permit

- Revised permit adopted 11/19
- Two day hearing, much testimony
- Key Provisions
  - Trash
  - Green Infrastructure Planning
  - Mercury/PCBs

# Trash

- Impacts aquatic life and aesthetics
- Municipalities required to implement controls to eliminate impacts from trash by 2022
- 40% reduction was required by July 1, 2014
- New permit has two enforceable limits:
  - 70% reduction by July 1, 2017
  - 80% reduction by July 1, 2019
- Cities have long-term trash reduction plans, trash management areas, generation rates

# Trash

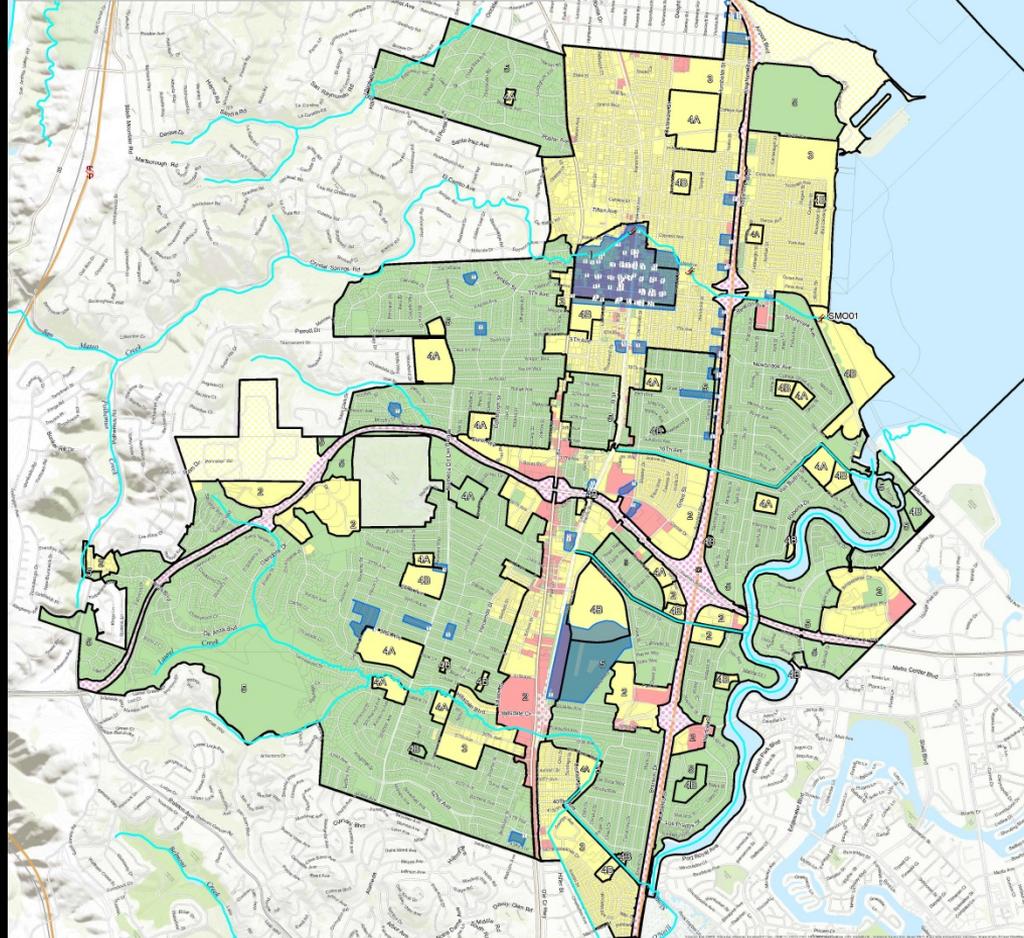
- Load reduction tool box includes:

- Full Trash Capture Devices
- Partial Trash Capture Devices
- Street Sweeping
- Solid Waste Process Improvements
- Education/Outreach
- Illegal Dumping Enforcement
- Public Container Management
- On-land, Creek/Shoreline Cleanups
- Product Bans
- Other

- Visual assessments to verify effectiveness

- Gets more costly with greater reduction

# City of San Mateo Full Trash Capture and Trash Management Area Map



- Legend**
- Trash Generation Category
    - Low
    - Moderate
    - High
    - Very High
  - Creek/Shoreline Hotspot
  - Full-Capture Location
  - Full Trash Capture
  - Trash Management Area
  - Current Condition Category (Flash Color = Current Category)
  - Non-Jurisdictional
  - (Dot color = Generation Category)
  - Streets
  - Freeway
  - Creeks
  - Parcel Boundary

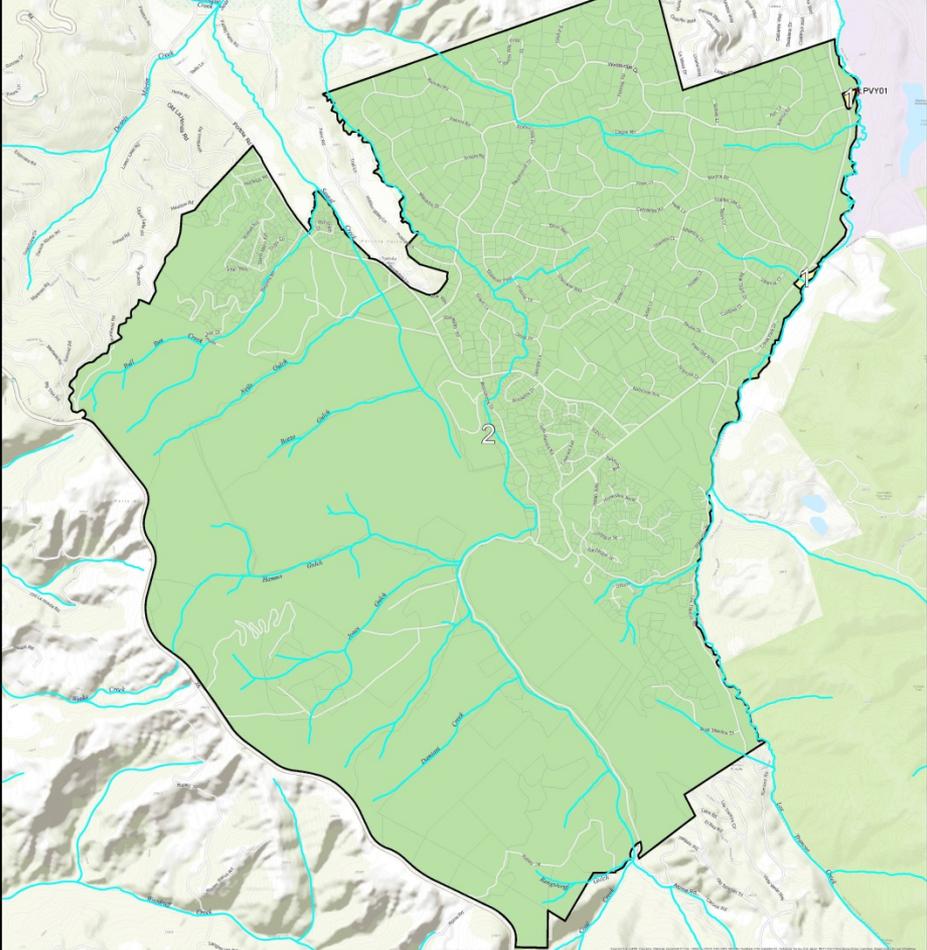


**Data Sources:**  
 Roads: San Mateo County  
 City Boundaries: San Mateo County  
 Creeks: San Mateo County  
 Parcels: San Mateo County  
 Background: ESRI World Topographic Map

**Map Created By:**  
 ECA, Inc.

**Date:**  
 September 14th, 2015

# Town of Portola Valley Full Trash Capture and Trash Management Area Map



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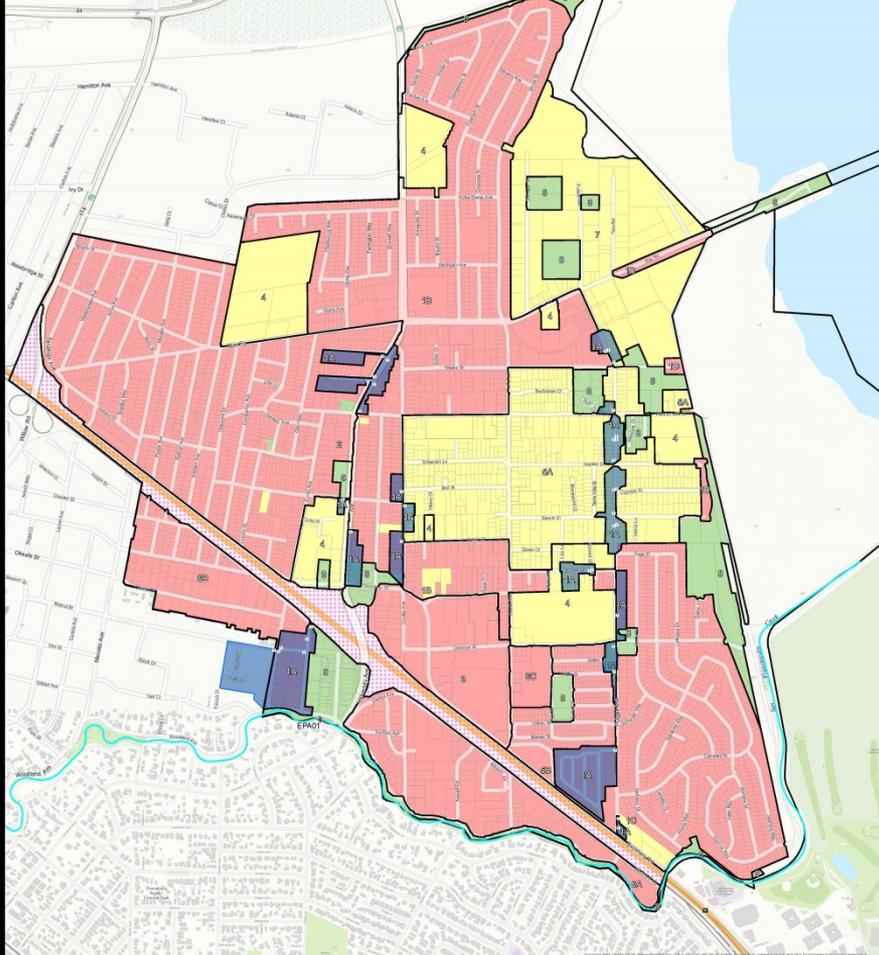


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City of East Palo Alto Full Trash Capture and Trash Management Area Map



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# Mercury & PCBs

- Mercury – legacy and ongoing problem
- PCBs – Used extensively, now banned, but still found throughout urban environment and in buildings
- Fish tissue levels = public health threat
- Significant reductions required for both
- Both attach strongly to sediment

# A guide to eating San Francisco Bay fish and shellfish

Women 18 - 45 and children 1 - 17

Safe to eat  
2 servings per week

OR

Safe to eat  
1 serving per week

Do not eat



Chinook (king) salmon ♥



Brown rockfish



Red rock crab



Jacksmelt



California halibut



White croaker



Striped Bass



Surfperches



Sharks



White sturgeon

♥ = High in Omega-3s

# Mercury & PCBs

- Source Controls
  - Source property identification and referral
  - Building materials – renovation/demolition controls
  - Mercury recycling
  - Industrial inspections (include PCBs)
- Downstream Interception
  - Stormwater treatment retrofits and green infrastructure
  - Enhance routine municipal O&M (e.g., street sweeping, inlets)
  - Conveyance cleanouts (streets, channels, piping, pump stations)
  - Diversions to wastewater treatment plants
- Outreach: Risk communication and exposure reduction

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# Mercury & PCBs

- Permit mandates 3 kg/yr PCBs reduction
  - San Mateo County = 370 g/yr (pop. share)
- Property referrals = half initially, full at cleanup
- Area-wide building demolition program = 2 kg/yr
- Green infrastructure = 120 g/yr (15 for SM Co)
- “Reasonable assurance analyses” required
  - One for 3 kg/yr by 2040 via green infrastructure
  - One for overall mercury/PCBs load reductions
  - Show/model reductions by 2020, 2030, & 2040

# Mercury & PCBs

- Accounting system for implemented controls
- Monitoring for mercury & PCBs included in overall WQ monitoring requirements
- Numbers are numeric effluent limits
- Failure to meet numbers = non-compliance, subject to enforcement and 3<sup>rd</sup> party suits

# Green Infrastructure

- Using natural systems to capture, treat, and infiltrate stormwater
- Restores “natural” stormwater management
- Distributed, small-scale systems
- Multi-benefit, including for key water issues
  - Adaptation for climate change impacts
  - Flooding
  - Groundwater recharge
- Includes public and private projects



*Stormwater Curb Extensions  
PCB Treatment Pilot  
Bransten Road  
City of San Carlos*



# Green Infrastructure Planning

- Each permittee must develop GI Plans by 2019, framework by 2017
- Describe gradual shift from gray to green
- Achieve 3 kg/yr PCBs load reduction by 2040
- Prioritize/map areas for potential projects on drainage-area basis within specific time frames
- Design guidelines, details, and standard specs
- Includes public and private

# Green Infrastructure Planning

- Amend other relevant plans
- Evaluate funding options
- Adopt relevant policies & ordinances
- Public outreach, staff training, educate electeds
- Evaluate funding opportunities
- Early implementation (no missed opportunities)
- Participate in process to promote GI



# SUSTAINABLE **STREETS** CITY OF SAN MATEO

Final Plan

February 2015

# City of San Mateo Sustainable Streets Plan

- Integrates Complete Streets & Green Streets
- Extensive public engagement
  - Taste & Talk Series, event videos available
- Design guidelines
- [www.sustainablestreetssanmateo.com](http://www.sustainablestreetssanmateo.com)

# Petition/Appeal

- Appeal of the permit is an option
- File within 30 days of Water Board action: Dec 19
- Some countywide programs expected to file
- Pros:
  - Fix procedural processes
  - Address slippery slope of numeric effluent limits
- Cons:
  - May not be successful
  - Requires resources

# Petition/Appeal

- Filing Options
  - Submit as Countywide Program
  - Submit as C/CAG on behalf of permittees
  - One or more permittees file
  - Potential to join with another countywide program's appeal
  - Potential post-filing joinder with another entity



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