

The Municipal Regional Stormwater Permit

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Permit History

Fairfield-Suisun

1995, 2003

Vallejo

1998

Contra Costa

1993, 1998

Alameda

1991, 1997, 2003

San Mateo

1993, 1999

Santa Clara

1990, 1995, 2001

Regional Permit Goals

- 🐟 Specifics in one permit rather than individual management plans
- 🐟 Consistency, accountability, flexibility
- 🐟 Opportunity for collaboration



Regional Permit Goals

🐟 Implement and enhance actions to control pollutants of concern

🐟 Comprehensive monitoring framework
and incentive for regional collaborative








Permit's Regulatory Drivers


- 🐟 Implement controls to reduce pollutants to the **maximum extent practicable**
- 🐟 Effectively **prohibit non-stormwater** discharges
- 🐟 Manage contribution to violations of **water quality standards**



Base Program Requirements

-  Municipal Operations
-  New and Re-Development
-  Industrial/Commercial Site Controls
-  Construction Site Control
-  Illicit Discharge Detection and Elimination

Base Program Requirements

 Exempted and conditionally exempted non-stormwater discharges

- Groundwater, wash water, potable water

 Public Information & Participation



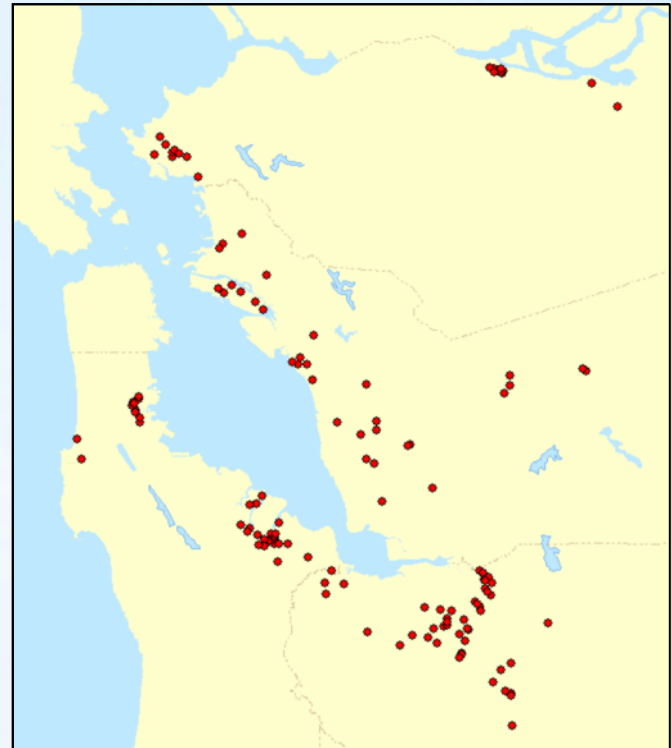
Municipal Operations

- 🐟 Storm drain system
- 🐟 Streets and roads
- 🐟 Corporation yards
- 🐟 Parking lots, plazas, parks, etc.
- 🐟 Pump stations



Pump Stations

- 🐟 > 200 in region
- 🐟 Potential for low dissolved oxygen
- 🐟 Opportunity to manage pollutants of concern



New and Redevelopment



Low Impact Development

- Capture and reuse, infiltration, evaporation, “and biotreatment”
- 10,000 ft² hardscape threshold
 - 5,000 ft² for parking lots, restaurants, gas stations, and auto repair



Green Streets Pilots (10)



Prevent hydromodification



Industrial/Commercial Sites

Construction Sites

Illicit Discharges

- 🐟 Identify
- 🐟 Inspect
- 🐟 Respond
- 🐟 Enforce



Specific Pollutants Requirements



Trash



Pesticides



Mercury



PCBs



Copper



Others

- PBDEs
- Legacy pesticides (eg, DDT)
- Selenium



Trash

Reduce trash loading 40% by 2014,
70% by 2017, and 100% by 2022

- 💧 Baseline Load and Tracking Method
- 💧 Short-Term Load Reduction
- 💧 Long-Term Load Reduction
 - Next permit and beyond

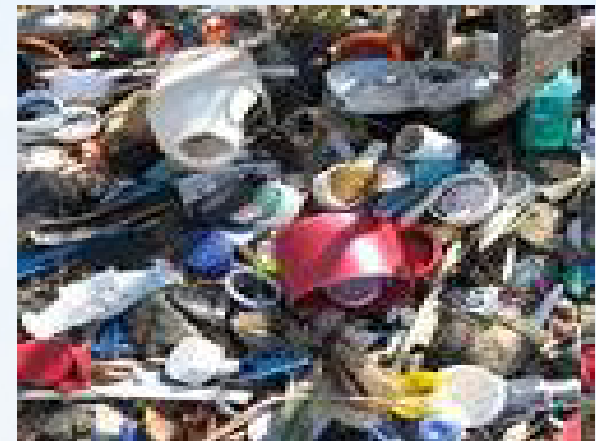
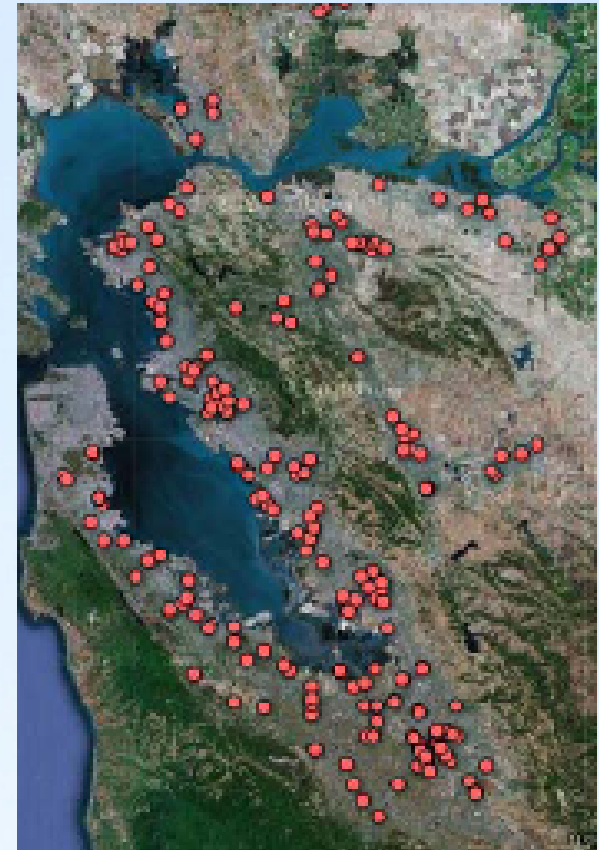
100% reduction = no adverse impacts



Trash

Short-Term Trash Load Reduction

- Full trash capture = 30% of commercial land area
\$5 million stimulus funds grant
- Minimum # of Trash Hot Spot Cleanups
- Institutional - preventive
- other measures



Pesticides

pyrethroids, carbamates, fipronil



Control municipal uses

- Integrated pest management



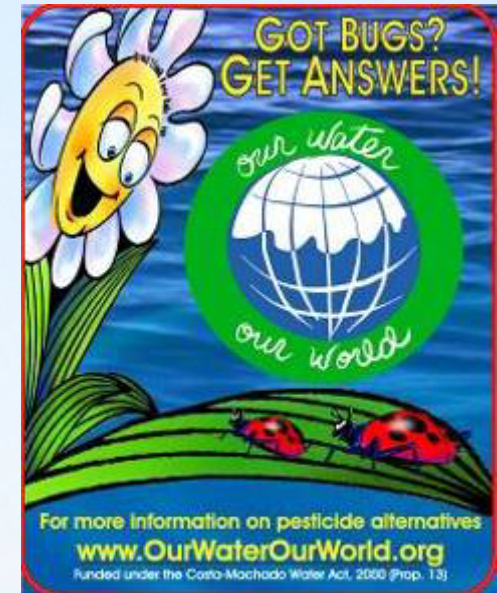
Affect uses by others

- Point of sale outreach

- Professional applicators outreach



Engage in pesticide regulation



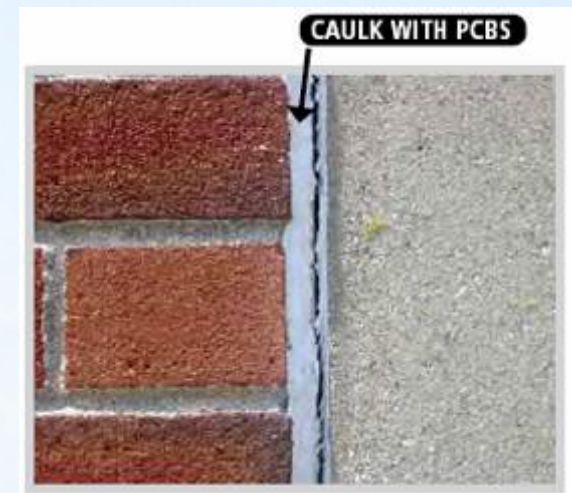
Mercury

- 🐟 Collect and recycle mercury containing devices
- 🐟 Participate in Risk Reduction Program
- 🐟 Pilot-scale projects
 - 💧 Inform next permit-term requirements



PCBs

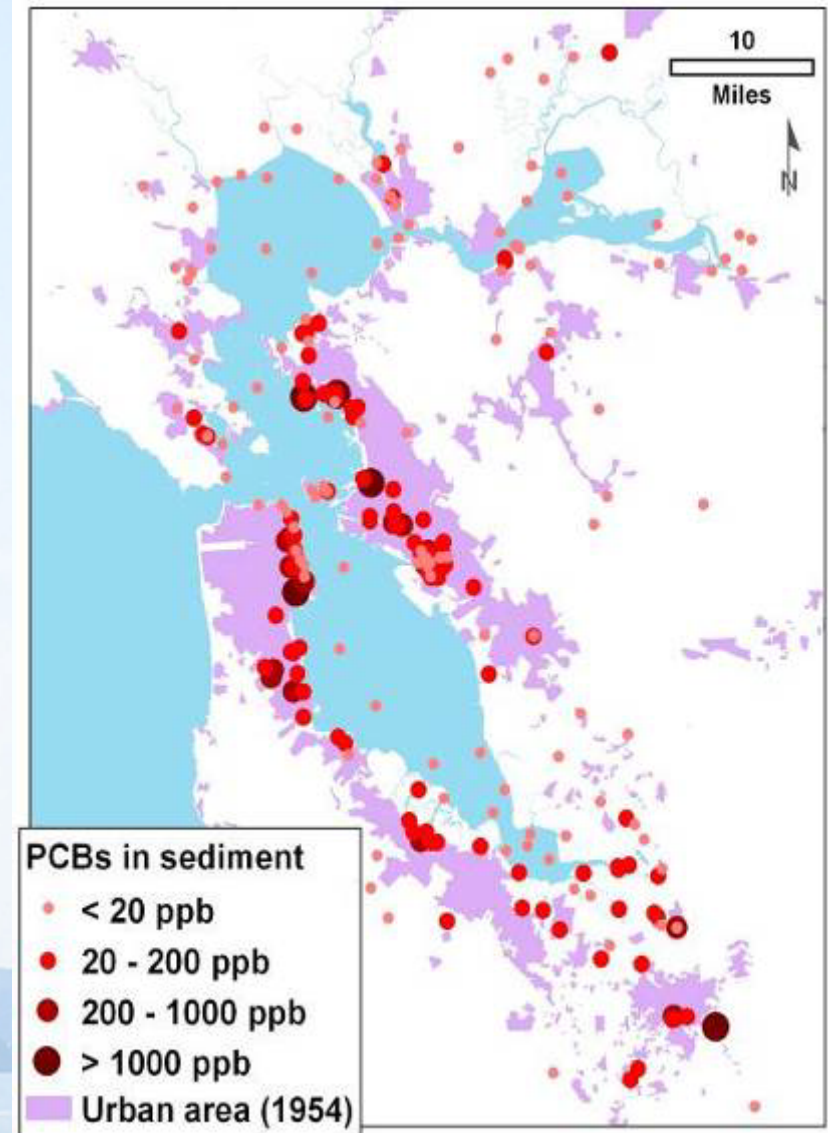
- 🐟 Industrial inspections
- 🐟 Building materials (caulk) pilot project
- 🐟 Participate in Risk Reduction Program
- 🐟 Pilot-scale projects
 - 💧 Inform next permit-term requirements



Mercury and PCBs

Pilot-Scale Projects

- 🐟 Identify and cleanup sources (5)
- 🐟 Improve system O&M (5)
- 🐟 Treatment retrofit (10)
- 🐟 Route runoff to wastewater system (5)



Copper




- 🐟 Control architectural use
- 🐟 Control industrial sources
- 🐟 Prohibit discharges from pools, etc.
that contain copper-based chemicals
- 🐟 Brake Pad Partnership



Polybrominated Diphenyl Ethers

Legacy Pesticides

Selenium

-  Characterize presence (loading)
-  Identify sources
-  Identify existing and potential controls

Monitoring

 Bay → Regional Monitoring Program

 Creek status monitoring

 Long-term trends

 Monitoring projects (eg, cause of toxicity)

 Pollutant loads

Regional collaboration encouraged/rewarded



Challenges

- 🐟 \$(hundreds-of) millions per year
- 🐟 Technical uncertainty
- 🐟 Infrastructure
- 🐟 Institutional resistance
- 🐟 Public support



For permit details go to

[www.waterboards.ca.gov/sanfranciscobay/
water_issues/programs/stormwater/mrp.shtml](http://www.waterboards.ca.gov/sanfranciscobay/water_issues/programs/stormwater/mrp.shtml)

Better yet, go to the municipal programs' websites to see what's happening.

