

# Brake Pad Partnership

Stakeholder Conference

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# Brake Pad Partnership Overview

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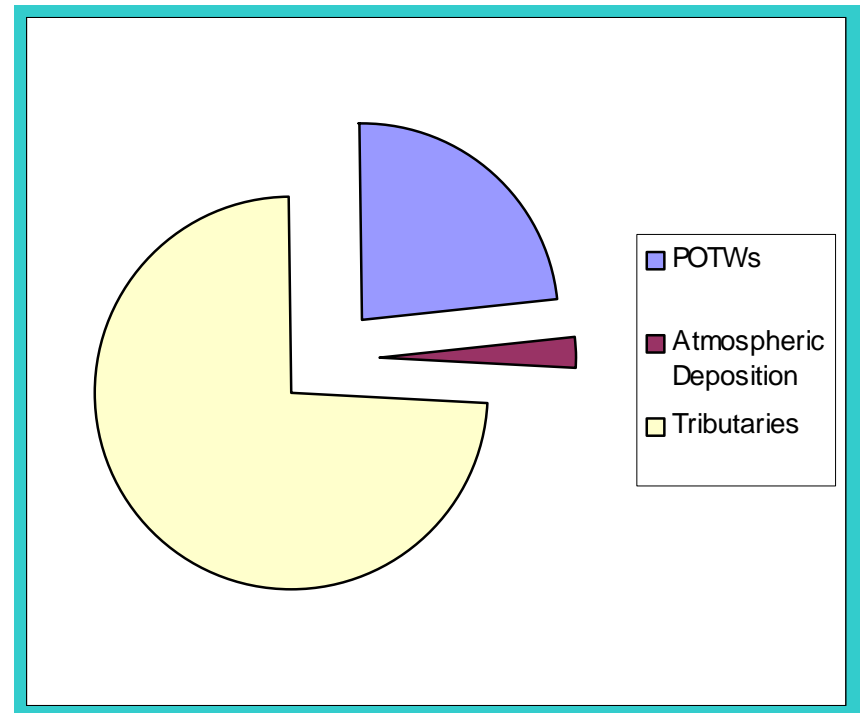


# History

- High levels of copper in the South San Francisco Bay have been a regulatory concern since the 1980s
- Since then, South Bay sewage treatment plants reduced copper discharges by 10-fold through aggressive pretreatment and treatment programs
- Early 1990s: Copper levels in the Bay plateaued and stormwater was found to have unexpectedly high levels of copper

# Copper Loadings to the Bay

- Total Copper Loading to Lower South SF Bay.
- Tributaries (including stormwater) are dominant sources on annual basis.



# Identifying Nonpoint Copper Sources

- Early 1990s: A study estimated that up to 80% of the copper in urban runoff could be coming from automobile brake pads
- Stormwater managers investigated options for addressing copper in brake pads, including regulatory approaches
- Stormwater managers determined that a voluntary approach had the best prospects for success and asked Stanford University & Sustainable Conservation to help engage industry

# A Multistakeholder Partnership

- Engage the key stakeholder groups:
  - Stormwater managers
  - Brake Pad Manufacturers (OE)
  - Water Quality Regulators
  - South Bay Environmental Groups

# Foundation Commitments for Collaboration

- All stakeholder groups agreed to participate actively
- All stakeholder groups agreed to work collaboratively
  - No lawsuits or legislation
  - Track progress
- Manufacturers agreed to report on copper use in brake pads annually to track trends
- Manufacturers agreed that if the Partnership found that brake pads are a significant source of copper to surface waters, they would introduce new products within five years

# Three-fold Purpose

- Determine whether the contribution of copper from brake pads to copper levels in surface waters is substantial, using SF Bay as an example
- Develop a tool that manufacturers can use to evaluate the potential water quality impacts of other brake pad ingredients
- Demonstrate a model approach to solving environmental problems through cooperation and collaboration

# Today's Agenda

- What the Partnership has learned about:
  - Brake Pads
  - Other sources of copper
  - Copper and brake pad wear debris transport in the environment
- Translating information into action:
  - Manufacturing timelines
  - TMDL compliance timelines
  - Achieving effective source control for copper

# Ground Rules

- Be open and frank about your interests and expectations.
- Listen openly, carefully, and with suspended judgment. Hear one another's ideas out.
- Do not interrupt one another or talk over others.
- Maintain respectfulness for one another, even when your views may differ.
- Ask, do not assume.

# Thank You!

## Technical Studies:

- SWRCB Proposition 13
- Caltrans
- US EPA
- San Francisco Estuary Project
- Our technical contractors:
  - AER
  - URS
  - ACCWP
  - SFEI
  - AQUA TERRA
  - Clemson University

## Partnership Process (last 12 months):

- BASMAA
- BMC-PEC Companies
- US EPA
- Peninsula Community Foundation
- Rose Foundation
- Anonymous
- Fred Gellert Family Foundation
- Marisla Foundation
- Lisa and Douglas Goldman Foundation
- Chevron
- Sacramento Stormwater Quality Partnership