

Characterizing PFAS in California's Drinking Water and Groundwater

Virtual Forum – PFAS in San Francisco Bay Fish
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Current Water Board Focus on PFAS Sources

POTENTIAL USE CATEGORIES

Production of Chemicals
(not present in CA)

Used in the Manufacturing Process
(e.g. mist suppressants in chrome plating)

Used as a Component
in Industrial Products (e.g. AFFF)

Used as a Component
in Consumer Products
(e.g. treated textiles, paper,
packaging, household products)

Storage & Handling of PFAS Products,
Disposal of PFAS Wastestreams

Use of Industrial Product &
Disposal of Wastestreams

Consumer Product Waste

AFFECTED INDUSTRIES

Military

Chrome Platers

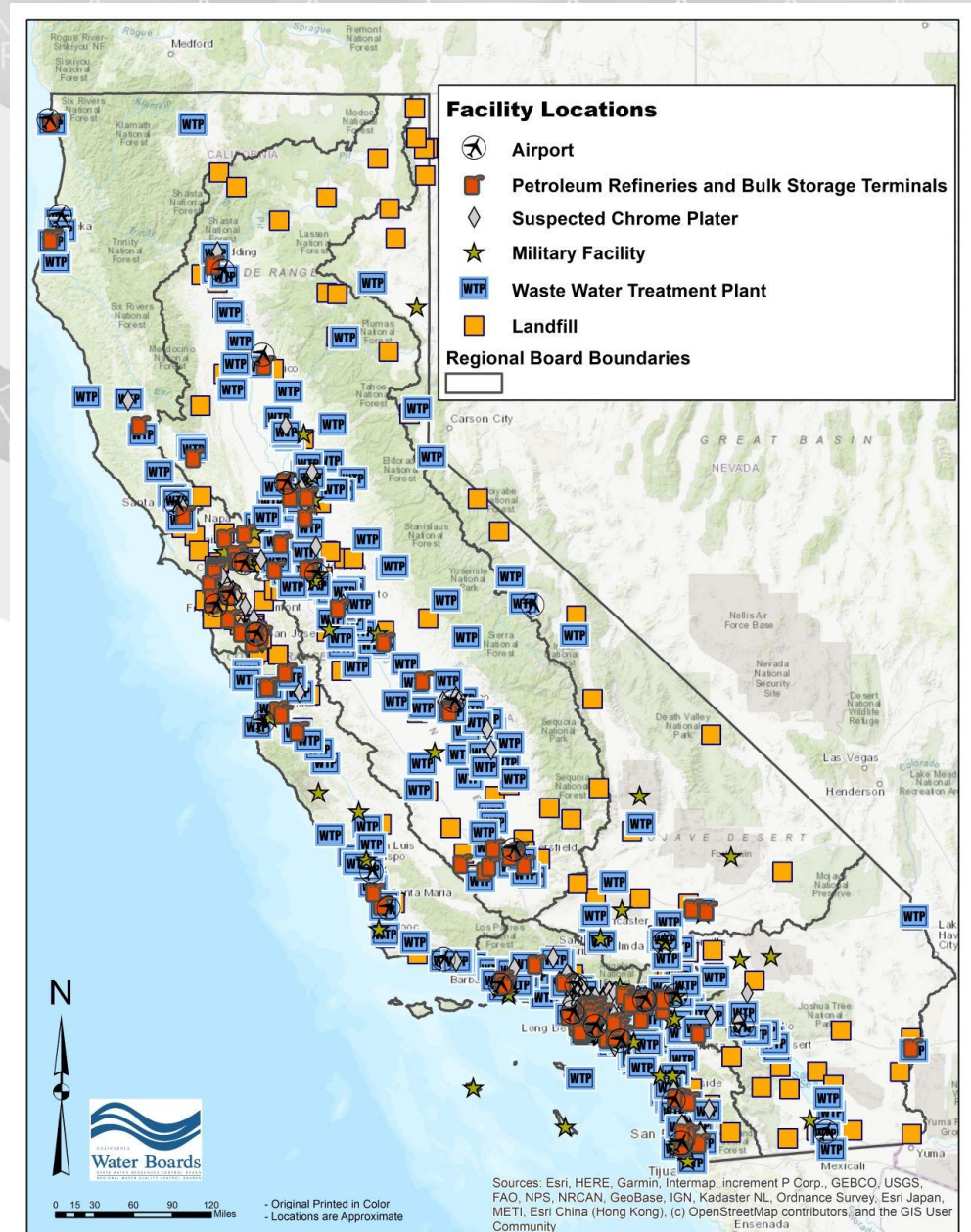
Airports, Refineries,
Bulk Fuel Terminals

WWTPs

Landfills

Secondary Receiver

State-wide PFAS Investigative Orders



Summary of General PFAS Concentrations from State-wide Investigative Orders

Media	Chrome Platers	Airports/Bulk Fuel Terminals/ Refineries	Landfills	POTWs
Soil	Green	Red	Green	Green
Groundwater	Yellow	Red	Yellow	Yellow
Stormwater	Yellow	Red	Grey	Grey
Surface Water/ Sediment	Grey	Grey	Grey	Grey
Wastewater	Yellow	Red	Red	Green

Not assessed	Not Detected to Low Concentrations (<100 ppt)	Moderate Concentrations (100 ppt to 5,000 ppt)	Significant Concentrations (>5,000 ppt)
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Drinking water EPA Method 537.1 includes 18 PFAS analytes; All other matrices were analyzed using the DoD QSM with 25 to 38 analytes.

What's Next - Data Gaps

- Assess PFAS in drinking water source wells associated with septic-dominated communities
- Assess PFAS at surface water intakes along several major rivers in California
- Coordinate with SWAMP programs where to add PFAS for future ambient monitoring
- Support Regional Water Boards in finding other significant sources of PFAS based on other affected industries
- Need for assessment of domestic wells

What's Next - EPA PFAS Roadmap

- Set MCL for PFOA and PFOS (draft regulation – 2022; final 2023)
- Establish wastewater effluent limitations guidelines (2022)
- Propose NPDES monitoring requirements at facilities where PFAS is expected or suspected (late 2022)
- Improve analytical methods (non-drinking water method/possible expansion of drinking water target list) (late 2022 to 2024)
- Designate PFOA and PFOS as CERCLA hazardous substances (proposed rulemaking – 2022; final 2023)
- Conduct UCMR 5 PFAS sampling in California's public and small water systems (2023-2025)

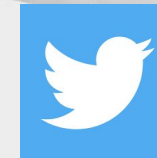
More information available at...

PFAS Website: www.waterboards.ca.gov/pfas/



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Division of Drinking Water PFOA/PFOS website:
www.waterboards.ca.gov/drinking_water/certlic/drinkingwater/PFOA_PFOS.html



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