Characterizing PFAS in California’s Drinking Water and Groundwater

Virtual Forum – PFAS in San Francisco Bay Fish
February 4, 2022

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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)

**AFFECTED INDUSTRIES**
- Military
- Chrome Platers
- Airports, Refineries, Bulk Fuel Terminals
- WWTPs
- Landfills
- Secondary Receiver

**Used as a Component in Industrial Products**
- Used as a Component in Consumer Products
- Storage & Handling of PFAS Products, Disposal of PFAS Wastestreams
- Use of Industrial Product & Disposal of Wastestreams
- Consumer Product Waste
State-wide PFAS Investigative Orders
### Summary of General PFAS Concentrations from State-wide Investigative Orders

<table>
<thead>
<tr>
<th>Media</th>
<th>Chrome Platers</th>
<th>Airports/Bulk Fuel Terminals/ Refineries</th>
<th>Landfills</th>
<th>POTWs</th>
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<tbody>
<tr>
<td>Soil</td>
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<tr>
<td>Groundwater</td>
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<tr>
<td>Stormwater</td>
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<td>Surface Water/Sediment</td>
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<td>Wastewater</td>
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</tbody>
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<tr>
<th>Not assessed</th>
<th>Not Detected to Low Concentrations (&lt;100 ppt)</th>
<th>Moderate Concentrations (100 ppt to 5,000 ppt)</th>
<th>Significant Concentrations (&gt;5,000 ppt)</th>
</tr>
</thead>
</table>

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/

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

Email: PFAS@waterboards.ca.gov

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February 2022