

A photograph of the Golden Gate Bridge in San Francisco, California, showing a section of the bridge under construction. The bridge's iconic red-orange steel structure is prominent, with a large tower on the right side. The bridge spans across a body of water, with hills visible in the background under a cloudy sky. The text is overlaid on the upper left portion of the image.

PFAS Sources to Solutions Project Overview (Sneak Peek)

Ezra Miller, on behalf of the SFEI PFAS team

BACWA Meeting

August 7, 2024

**Subtidal eelgrass
and oyster reef
restoration**

**Wetlands Regional
Monitoring Program**

**Beneficial Reuse of
Dredged Material
Support**

**In-Bay Monitoring of
Pollutants, including
trash, and algal species
under the Regional
Monitoring Program**

**EPA Region 9
San Francisco Bay Program Office
FY24 Draft Annual Priority List**

**Large scale shoreline
resilience, multi-benefit
projects including
horizontal levees and
wastewater
treatment/reuse**

**Nutrient
Management
Strategy**

**Special
studies/projects for
addressing PFAS in
SF Bay**

**Large scale tidal
wetlands restoration**

**Special
studies/projects for
addressing PCBs
under TMDL
implementation plan**

**Large scale
implementation of
urban green
stormwater
infrastructure**

**BRRIT
(Bay Restoration
Regulatory
Integration Team)**

PFAS Sources to Solutions:

Identifying and Preventing PFAS Pollution
in San Francisco Bay

PROPOSAL TO THE EPA WATER QUALITY IMPROVEMENT FUND 2023
SUBMITTED BY THE **SAN FRANCISCO ESTUARY INSTITUTE** with

Regional Monitoring Program for Water Quality in San Francisco Bay (RMP)
Department of Toxic Substances Control (DTSC)
Bay Area Clean Water Agencies (BACWA)
Bay Area Municipal Stormwater Collaborative (BAMSC) Member Programs
Indiana University Bloomington
University of Toronto

\$6.2 Million Project

50% grant funds

50% partner match
(activities and funds)

Thank you partners!

Thank you EPA SF Bay Program Office!



Project Goals

- Inform PFAS water pollution management actions
- Identify priority PFAS product categories for management action
- With the help of partners and supporters, increase community, manufacturer and regulator awareness of linkage between products and PFAS water pollution
- Further develop cooperation between water quality managers and California Safer Consumer Products Program
- Inform future scientific work addressing PFAS water pollution

Project overview



Project Partners

Monitoring & Loads (Task 1)

- Regional Monitoring Program for Water Quality in San Francisco Bay
- Bay Area Municipal Stormwater Collaborative
- **Bay Area Clean Water Agencies**

Product Sources, Linkages & Solutions (Task 2)

- California Department of Toxic Substances Control (DTSC)
- Indiana University Bloomington (Marta Venier)
- University of Toronto (Miriam Diamond)

Communications (Task 3)

- California DTSC
- Community outreach partner TBD

Project overview



Project Focus - Urban pathways



Urban
Stormwater
Runoff

Municipal
Wastewater



Project Focus - PFAS products

Conceptual models

- Link products to pathways
- Identify product categories for testing
- Results to inform management actions

Consumer Products



Estimated Schedule

Start - August 2024

- Monitoring - 2024-2027
- Product research - 2024-2025
- Conceptual model - 2024-2026
- Product testing - 2025-2027
- Data analysis & linkage assessment - 2027-2028
- PFAS loads estimates (urban pathways) - 2028
- Communications - 2024-2028

Complete - June 2028

Useful Outputs

- List of PFAS-containing product categories
- Summary of available product PFAS content data
- Conceptual model
 - Map PFAS transport from products to Bay via runoff and wastewater
- Product categories most likely to be major contributors to PFAS in wastewater and urban stormwater runoff
- List of management actions already underway & likely to affect California products
- Product testing data to fill priority data gaps (Marta Venier)
- PFAS product categories prioritized for management action
- List of remaining key information gaps
- Recommendations for future work

Useful Outputs

Reports

1. PFAS Synthesis and Strategy (RMP match \$)
2. Urban PFAS Loads Estimates (municipal wastewater, urban runoff)
3. Product-Pollution Linkage Assessment

Communications (supported by community outreach partner)

- Presentations and outreach
- Project website
- Fact sheets for diverse audiences

More Info Coming Soon

