

# RMP Update for CCAG Stormwater Committee

Amy Kleckner & Jay Davis

November 20, 2025



# RMP

REGIONAL MONITORING  
PROGRAM FOR WATER QUALITY  
IN SAN FRANCISCO BAY

[sfei.org/rmp](https://sfei.org/rmp)

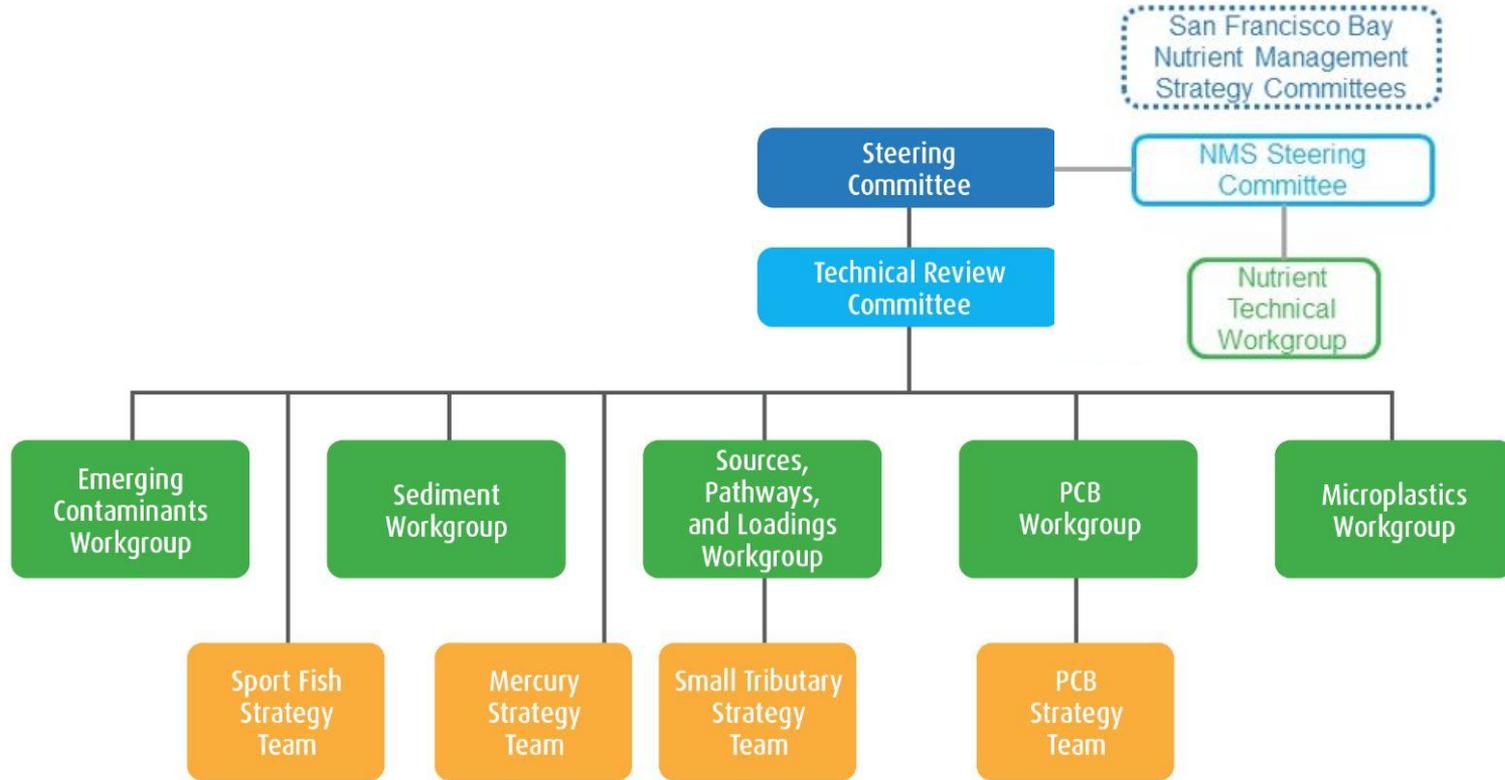
# Regional Monitoring Program

Collect data and communicate information about water quality in San Francisco Bay in support of management decisions

~ 68 entities in the Program

- Industrial wastewater
- Municipal wastewater
- Municipal stormwater
- Dredgers

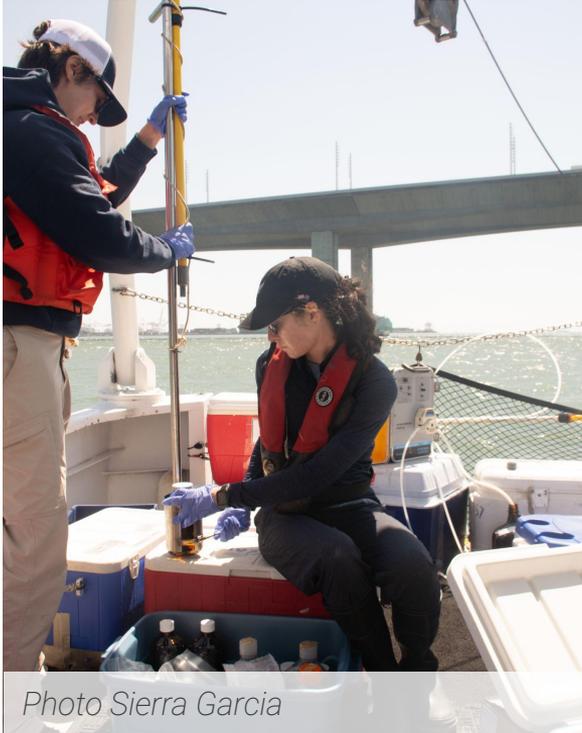
# RMP Structure



# BAMSC Representatives to the RMP

- Steering Committee  
Adam Olivieri
- Technical Review Committee  
Chris Sommers
- Workgroup participation and planning, committee alternates  
Bonnie De Berry, Lisa Sabin, Dan Sternkopff, Lisa Austin,  
Lisa Welsh, Rob Carson,

# Primary Goal for this Item



*Photo Sierra Garcia*

- Share information
  - General RMP program highlights
  - Update on current and future stormwater project funding
  - Highlights of some recent stormwater related activities



# Program Highlights



# Annual Multi-Year Planning Meeting was 11/17

## Priority Management Drivers



Decisions, Policies, and Actions	Timing
BAY WATERSHED PERMITS (NEXT REISSUANCE)	
Municipal Regional Stormwater Permit	2027
Mercury and PCBs Watershed Permit for Municipal and Industrial Wastewater (Implement mercury and PCB TMDLs)	2028
Nutrient Watershed Permit for Municipal Wastewater (Implement Nutrient Management Strategy)	2029
CURRENT HIGH PRIORITY DRIVERS BY TOPIC	
<i>303(d) List and 305(b) Report</i> Current listings and next cycle	2026*/2030
<i>Beneficial Reuse of Dredged Sediment</i> Review sediment guidelines <sup>+</sup> and testing criteria Impacts on marshes from sediment exchange between local watersheds, nearshore and deep water environments	Ongoing Ongoing
<i>Contaminants of Emerging Concern</i> Updates to CEC Tiered Risk-Based Framework Opportunities to inform regional actions and state and federal regulations	Annual Ongoing
<i>Determination of Wastewater Permit Limits</i> California Toxics Rule	Ongoing
<i>PCBs</i> Review existing TMDL and inform revisions	Complete by 2028
<i>Mercury</i> Review existing TMDL and inform revisions	Complete by July 2026
<i>Nutrients</i> Inform the Nutrient Management Strategy	Ongoing
OTHER DRIVERS BY TOPIC	
<i>Beneficial uses</i> Fish exposure (PCBs, Hg, and PFAS), <u>subsistence fishing</u> , and tribal uses	Ongoing
<i>Current Use Pesticides</i> EPA Registration Review of fipronil and imidacloprid DPR fipronil mitigation measures	Ongoing

Decisions, Policies, and Actions	Timing
OTHER DRIVERS BY TOPIC	
<i>Copper</i> Site specific objectives triggers <sup>+</sup>	Ongoing
<i>Cyanide</i> Site specific objectives triggers <sup>+</sup>	Ongoing
<i>Dioxins</i> Review 303(d) listings and establish TMDL development plan or alternative	Ongoing
<i>Dredging Permits</i> Bioaccumulation testing triggers and in-Bay disposal thresholds <sup>+</sup>	Ongoing
<i>Legacy Pesticides (DDT, Dieldrin, Chlordane)</i> Monitoring recovery (biota)	Ongoing
<i>Sediment Hot Spots</i> Review 303(d) listings and establish TMDL development plan or alternative	Ongoing
<i>Wetland restoration permits and regional monitoring</i>	Ongoing
POTENTIAL FUTURE DRIVERS	
<i>Specific CECs, e.g., PFAS</i>	TBD
<i>Effects of reduced wastewater and stormwater inputs to the Bay</i>	TBD
<i>Effects of reverse osmosis concentrate discharge to the Bay</i>	TBD
<i>South Bay standards-related selenium assessment</i>	TBD
<i>Sea level rise adaptation and changes in salinity, pH, temperature, and dissolved oxygen due to climate change</i>	TBD
<i>Effects of recycled water discharges to shallow baylands</i>	TBD
<i>Trash and Microplastics</i>	TBD

+ Comparisons to triggers updated every 5 years for sediment and every 2 years for water; \*Data for 2030 Integrated Report needed by October 2026

# Tracking Bay Health Funding Update

**Overall 5-Year Total Award: \$23.5M**

**First Allotment = \$6M (Awarded 12/17/24)**

**Second Allotment = \$11M (Awarded 9/24/25!)**

\$3M	Special Studies
\$2M	PCB TMDL Studies
\$1M	Fixed Station Monitoring Network
\$2.5M	Watershed Dynamic Modeling
\$1.5M	Program Management
\$1M	Status & Trends Monitoring

**Third Allotment??? Unfunded Amount = \$6.5M**

**All funds must be spent and deliverables completed by the end of September 2029**



# TBH Funds Help the RMP to Do More and Better in 2025



## “Twenty Five in ‘25”

1. Stormwater CECs Monitoring & Modeling 2025
2. San Leandro Bay OPTICs Study
3. Microplastics Stormwater Monitoring Pilot
4. PFAS Analysis Add-On to Stormwater Depth Monitoring Pilot
5. NTA Add-On to Stormwater 2025 Monitoring
6. Stormwater Systems Management Upgrades
7. Stormwater Non-CECs Monitoring Add-On
8. Nontarget and Target Analysis of Fibers and Urban Stormwater
9. Stormwater In Vitro Toxicity Screening
10. Suspended Sediment Flux at Richmond San Rafael Bridge
11. Plastic Additives in Bay Water and Archived Sediment
12. Quaternary Ammonium Compounds (QACs) in Bay Water and Stormwater
13. Nontarget Analysis of San Francisco Bay Fish
14. Tire Rubber Marker Analysis for Tire Wear Particle Quantification
15. PFAS NMR Analysis in Wastewater, Stormwater, and Bay Matrices
16. Bed Sediment and Settling Velocity Study Plan for SF Bay Sediment Transport Modeling
17. Shoreline Change in San Francisco Bay
18. Integrated Monitoring and Modeling to Support PCBs and Mercury Watershed Loads Uncertainties Assessment and Monitoring Design
19. Stormwater CECs Modeling and Data Analysis
20. GIS Improvements to Support Modeling, Data Interpretation, and Site Selection
21. Mapping Mudflat Morphodynamics
22. Sediment Trap Reconnaissance
23. Fixed Station Monitoring Network
24. WDM Model Maintenance
25. Moored Sensor high-frequency observation network

<https://www.sfei.org/content/rmp-e-updates>

## New RMP Hires

March 2025

**Sierra Garcia, Associate Science Communicator**



Contact Sierra

Sierra is an interdisciplinary environmental science writer and communicator with prior experience with both Estuary News Magazine and KneeDeep Times as well as a range of national outlets. She is also a National Geographic Explorer and scuba divemaster with a deep appreciation for coasts and the interconnectedness of human and environmental health from her rural upbringing in North Monterey County.

# 20 in '26

- Stormwater Contaminants of Concern Monitoring 2026
- PFAS in Precipitation Pilot Study
- Tire and Vehicle-derived Contaminants in Bay Water and Stormwater
- Biocides in Wastewater and Stormwater
- NTA Stormwater 2026 Monitoring
- Co-benefits of nutrient treatment tech on CECs
- Moored sensor high-frequency observation network
- Small Microplastic Particles in Bay Water Pilot
- Modeling dispersal of dredged sediment placement
- Analysis of fine sediment flux and development of transport modeling platform

# 20 in '26

- Central Bay Conceptual Understanding of Sediment Transport
- Enhancement and Recalibration of the WDM
- Stormwater Systems Improvements
- WDM Modeling
- Fixed Station Monitoring Network
- Richmond Harbor Conceptual Model Report
- Analysis of Archived SFB Sediment Samples
- PCB TMDL Studies
- Mercury Synthesis
- Mercury Analysis of Archived Bay Sediment Samples

# 2026 S&T Monitoring Plans



- USGS Moored Sensor Network for Suspended Sediment
- USGS Monthly Cruises for Nutrients and Phytoplankton
- Toxic Contaminants in Water - wet season
- North Bay Selenium in Water, Clams, and Sturgeon
- Bird Egg and Sport Fish Reporting
- Maintenance of the RMP Sample Archive
- CEC Methods/ Lab Intercomparison Studies

# 2025 RMP Update



- A biennial update of all of the RMP program areas
- Available on the RMP website or [request a hard copy](#) be mailed to you



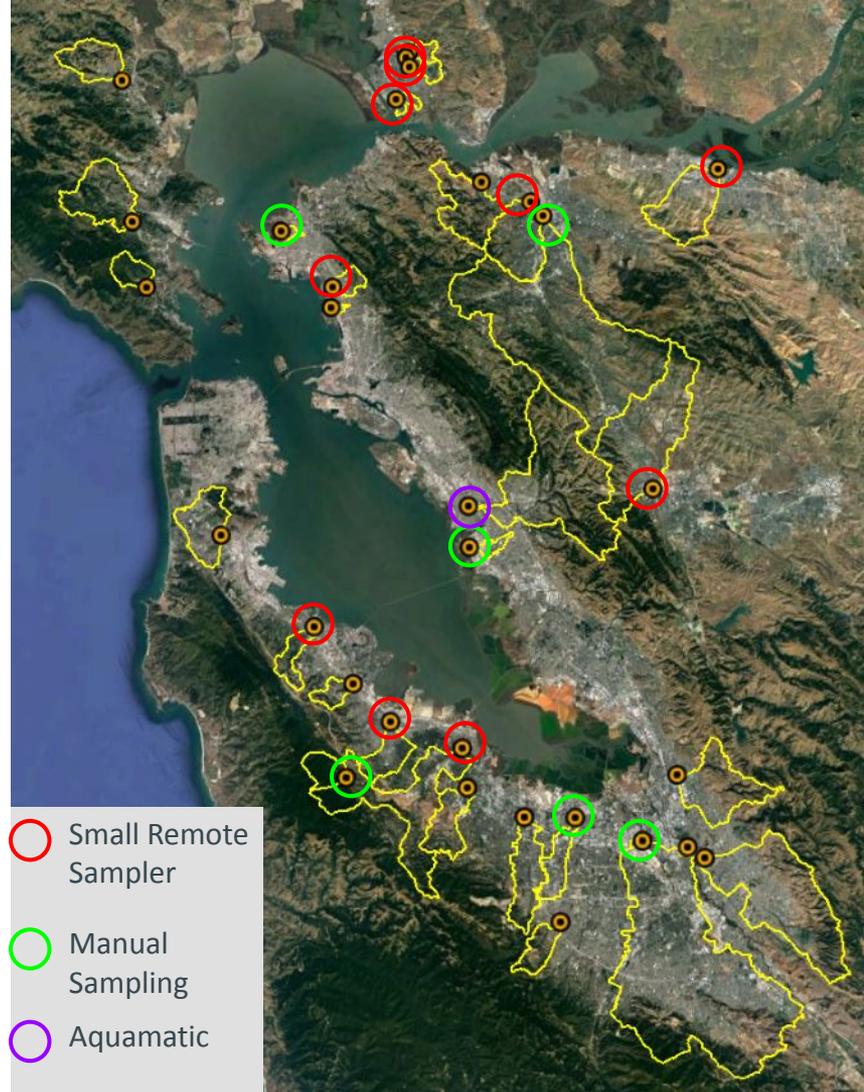
# 2025 RMP Annual Meeting

[www.sfei.org/events/2025-rmp-annual-meeting](http://www.sfei.org/events/2025-rmp-annual-meeting)



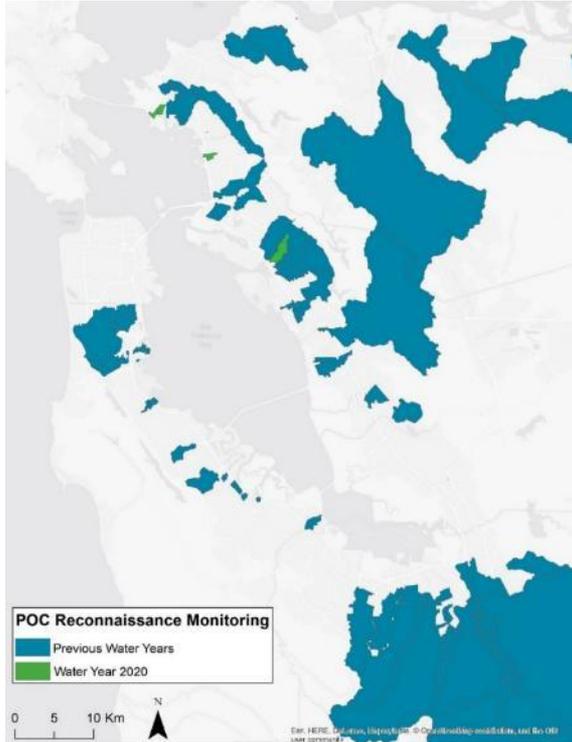
# The RMP is a world leader in monitoring CECs

- 17 sites sampled in 2025
- Analytes: PFAS, PCBs, mercury, and metals
- Mix of remote samplers and manual sampling



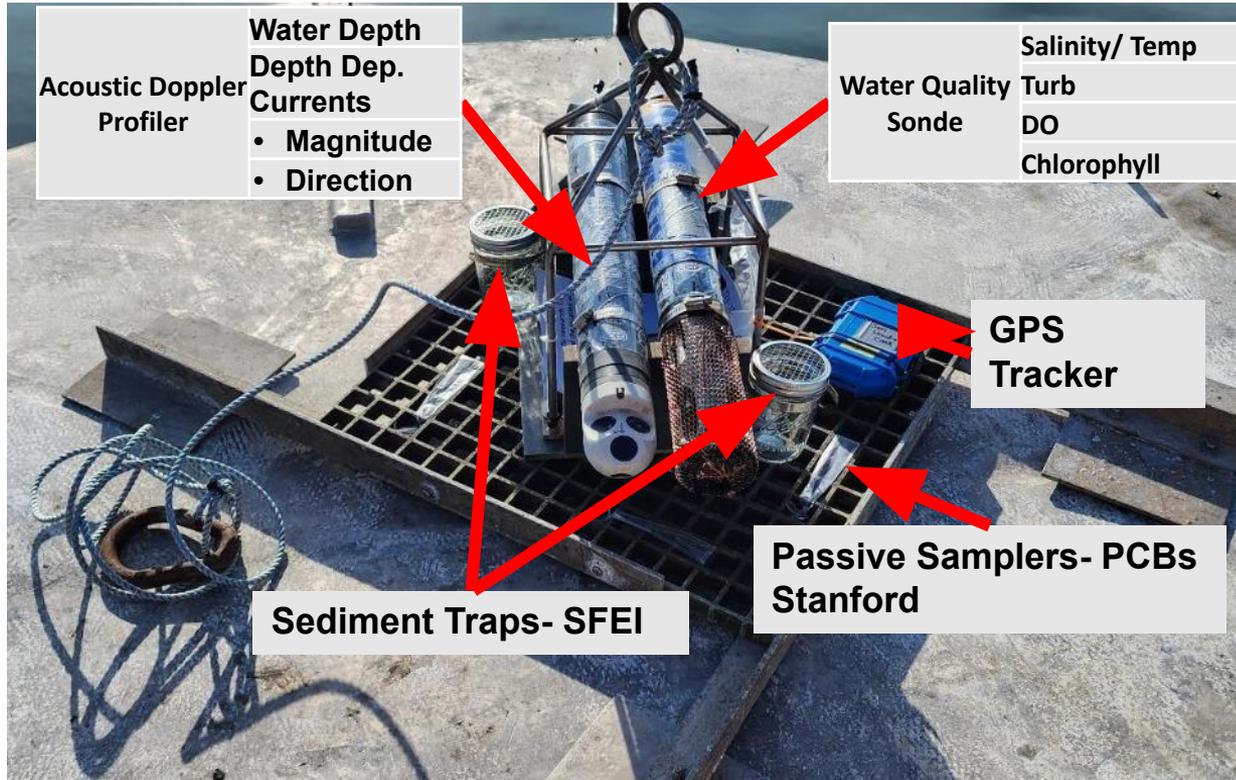
- Small Remote Sampler
- Manual Sampling
- Aquamatic

# Legacy pollutants remain an important RMP priority



- Extensive monitoring of **PCBs and mercury** in stormwater (>80 sites since 2015)
- Sampling since 2011; continuously since 2015
- Targeted sampling from 2023 – 2025 to help calibrate and validate our watershed model

# The OPTICS study is delivering important insights into PCB loading to San Leandro Bay



OPTICs is generating data that will allow us to refine models

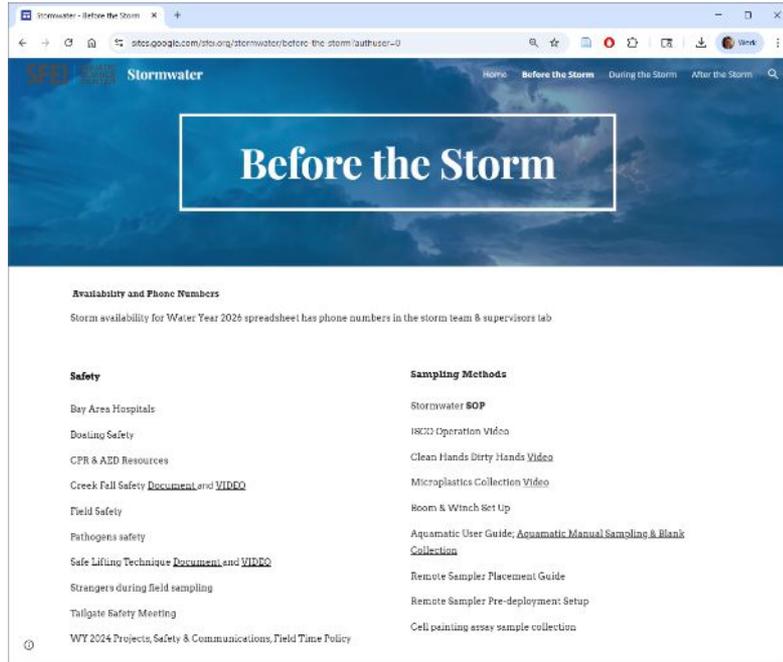


# Special studies inform study design and fill information gaps

Microplastics Depth Profile Pilot



# The stormwater monitoring program has grown more sophisticated to keep pace with demand





**Please reach out with questions,  
ideas, and information needs!**

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Amy Kleckner, RMP Manager - [amyk@sfei.org](mailto:amyk@sfei.org)

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