

BACWA Representatives Guide the RMP

Steering Committee

Karin North Leah Walker

Eric Dunlavey Robert Wilson (alt)

Technical Review Committee

Yuyun Shang Ross Duggan

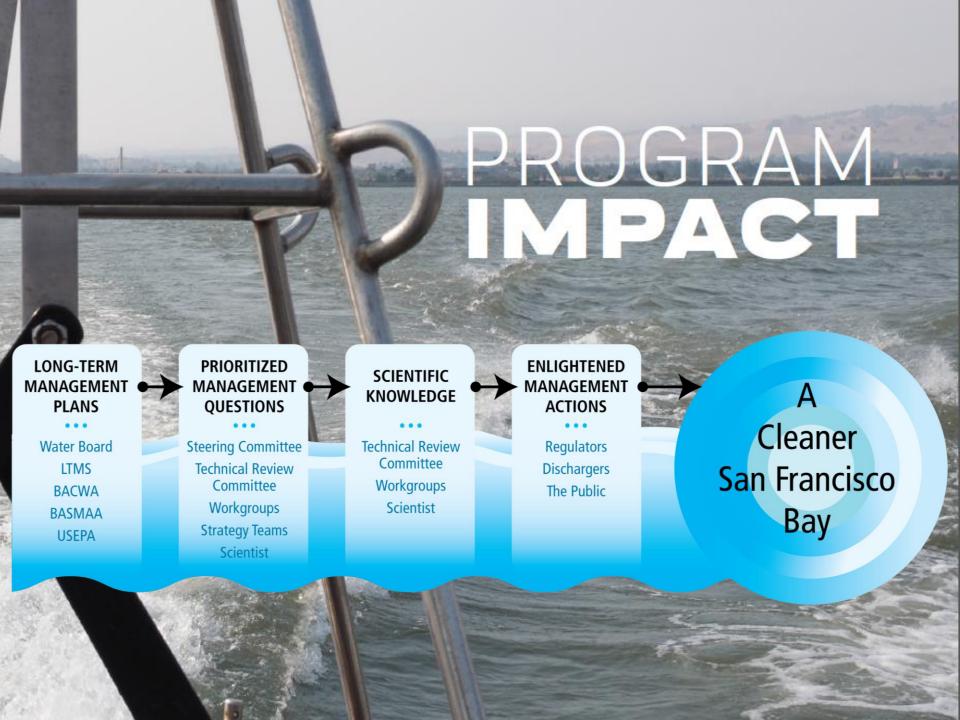
Mary Lou Esparza Anne Hansen

Tom Hall Simret Yigzaw (alt)

Heather Peterson (alt) Ryan Mayfield (alt)

Samantha Engelage (alt)

Workgroups – CECs and Microplastics



Specific regulations addressed by the RMP

NPDES Permits

Nutrient Watershed Permit

Stormwater Municipal Regional Permit

CEC Action Plans

Copper SSO Implementation Plan

Selenium TMDL

Mercury TMDL

PCBs TMDL

Dredged Material Disposal Permits

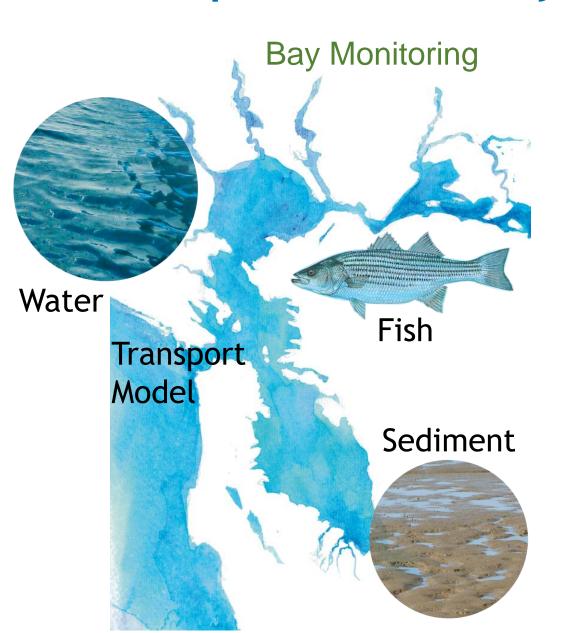
Management Strategy for Dredged Material

Fish Consumption Advisories

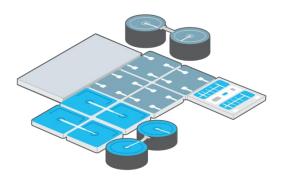




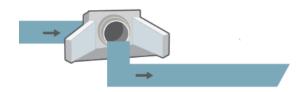
Microplastics study



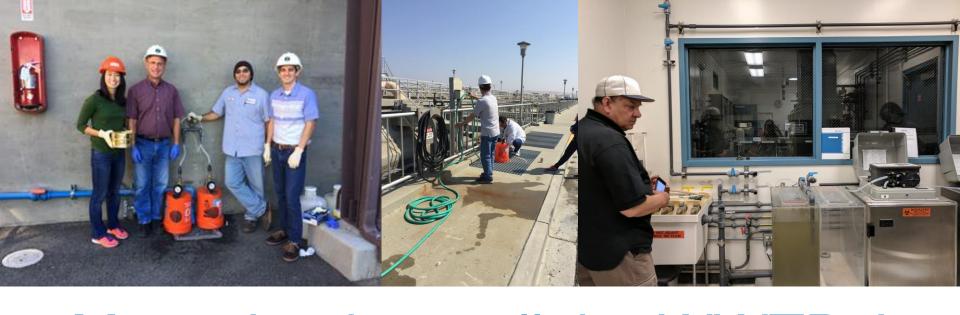
Pollution Pathways



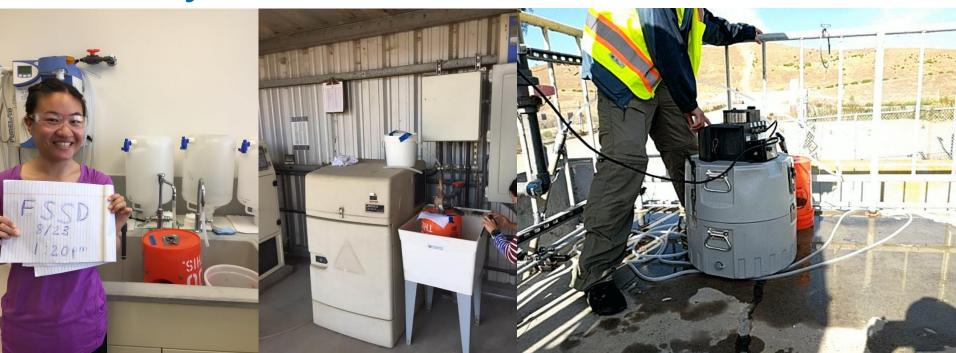
Wastewater (BACWA)



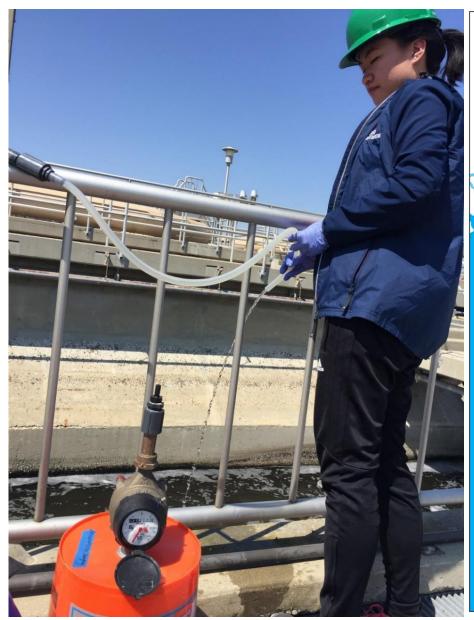
Stormwater (BASMAA)



Many thanks to all the WWTPs!

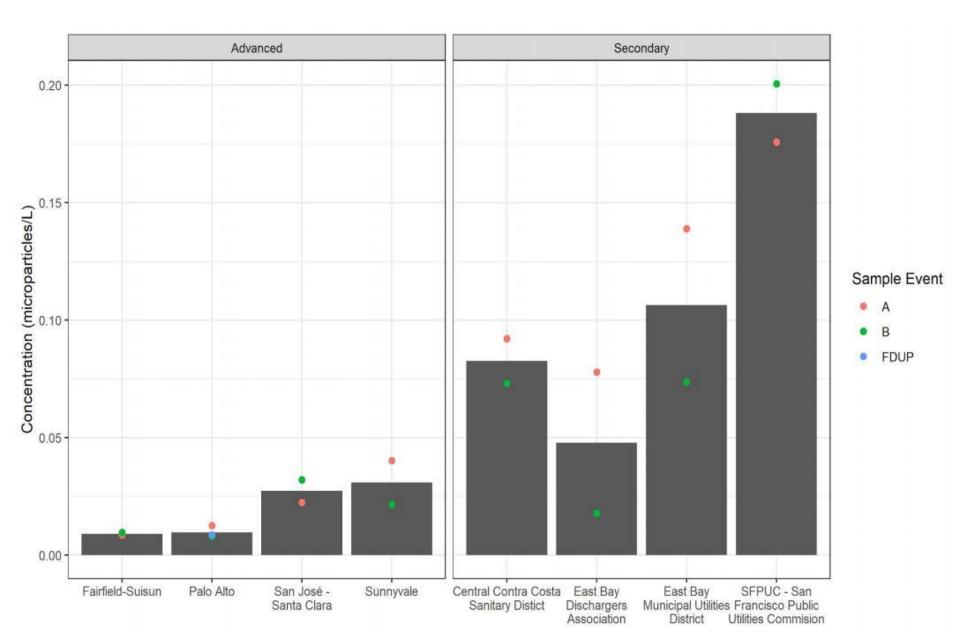


Wastewater sampling sites

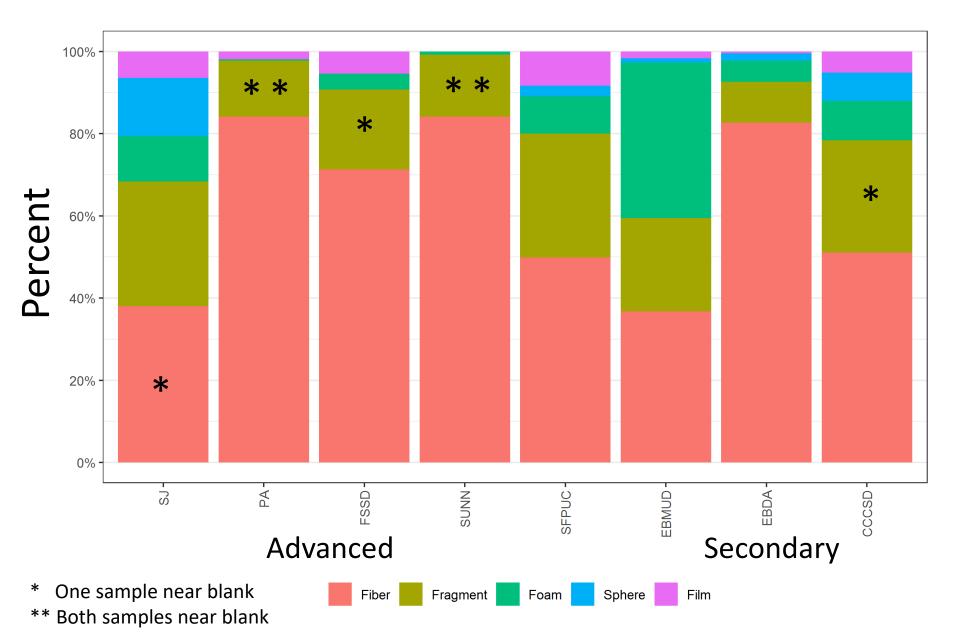




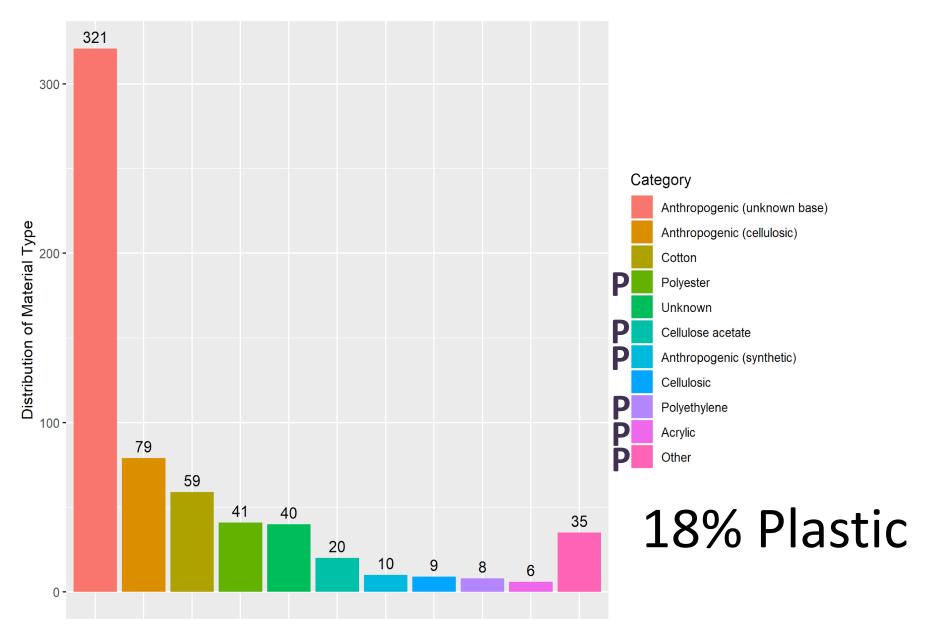
Treatment matters



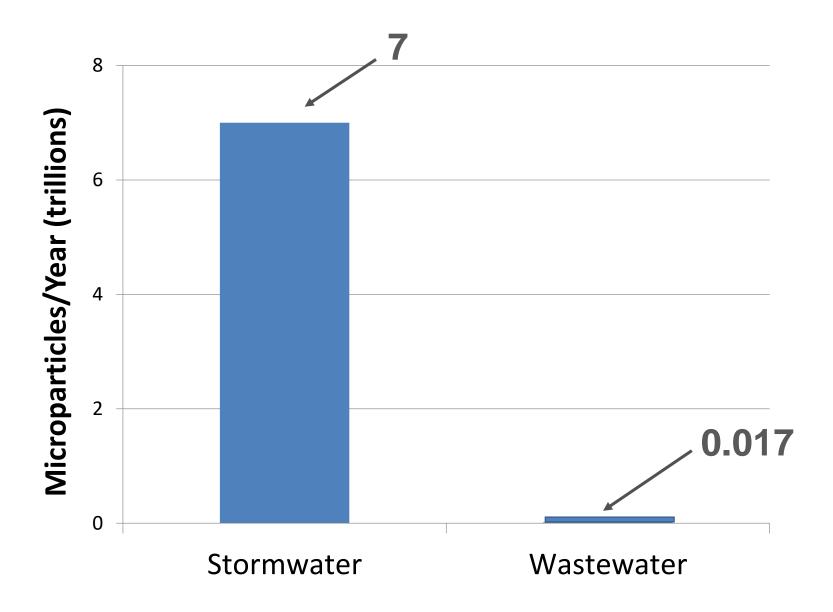
Fibers dominate



Mostly "anthropogenic" fibers



Wastewater contribution in context



Many outlets for this research



Science-Supported Solutions and Policy Recommendations









Elevating the status of CECs

High Concern

moderate or

Moderate Concern

low impact

Low Concern

limited impact

Possible Concern

uncertainty as to impact

None currently

PFOS, PFOA, Long-Chain Carboxylates
Alkylphenols, Alkylphenol Ethoxylates
Fipronil, Imidacloprid, Bisphenols
Organophosphate Esters,

PBDES and HBCD

Pharmaceuticals, Pyrethroids*
Personal Care & Cleaning
PBDDs / PBDFs

Alternative Flame Retardants
Other PFAS (Fluorinated Chemicals)
Pesticides, Plastic Additives

Siloxanes, SDPAs, UV-BZTs, others



CECs monitoring studies

2019 Special Study

- Ethoxylated surfactants in wastewater effluent (and Bay water and sediment)
- Stormwater CECs (PFAS, ethox, OPEs, bisphenols, and road suite)

2020 Special Study

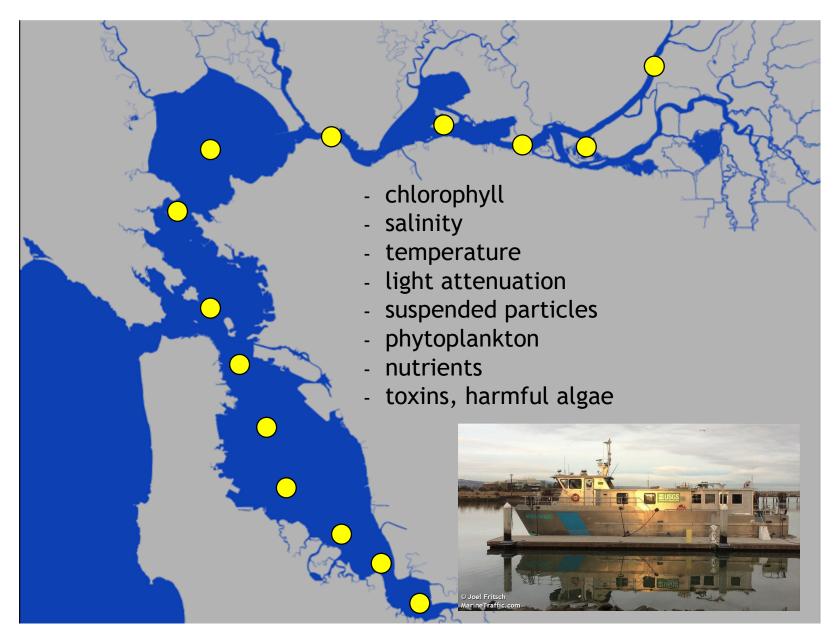
Bisphenols in wastewater effluent (and sediment)

2021 Status & Trends (potential)

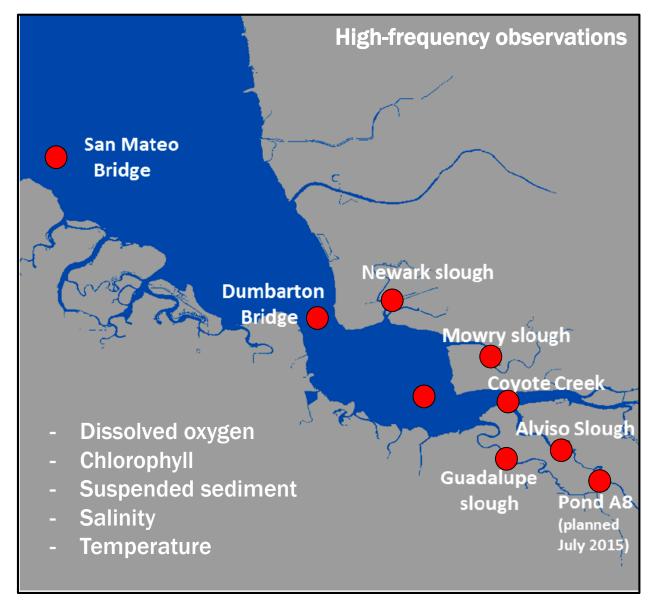
Bisphenols and OPEs in surface water



Nutrients monitoring continues



Continuous data in South Bay





Other highlights



Annual Meeting



SAN FRANCISCO BAY

DATA EXPLORATION HALLENGE

Sponsored By:



RMP
REGIONAL MONITORING
PROGRAM FOR WATER QUALITY

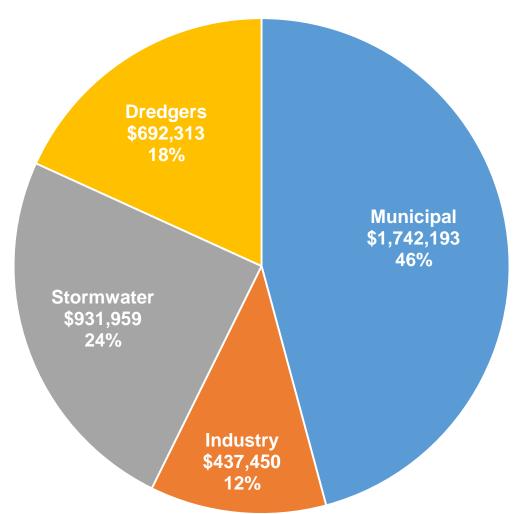
IN SAN FRANCISCO BAY

sfei.org/rmp



RMP contributions

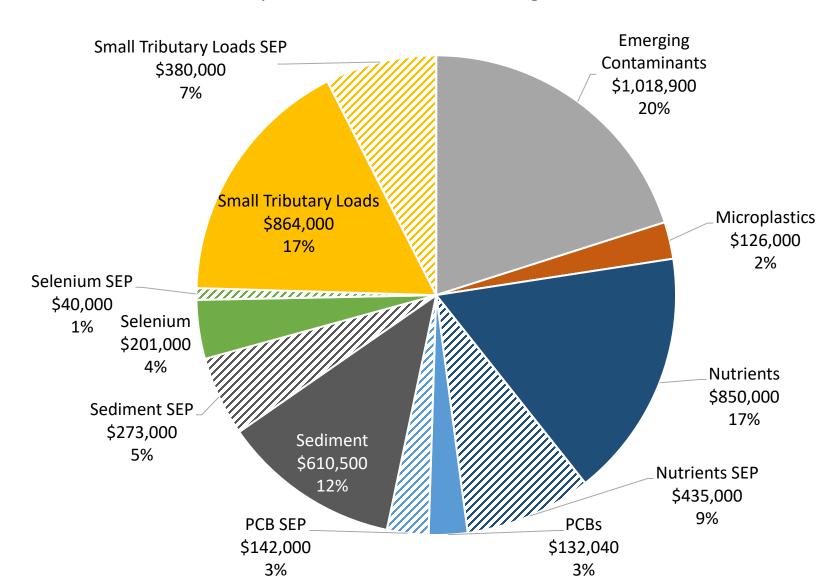






Special Studies funding

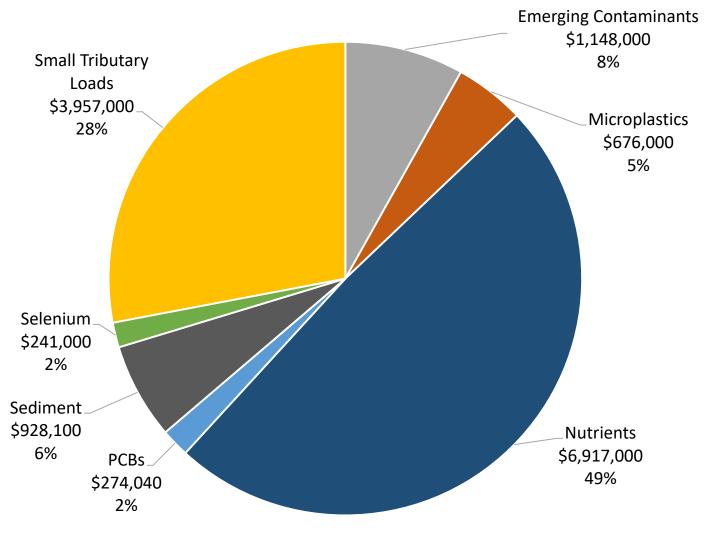
RMP Special Studies & SEP Funding in 2018-2020





Total funding w/ external sources

Total Funding from 2018 to 2020





Multiyear Planning Workshop - 23 October

MULTI-YEAR PLAN FOR EMERGING CONTAMINANTS

2021 Priorities:

- Stormwater CECs (year 3)
- Bay water sampling OPEs, PFAS, Bisphenols
- Toxicology

2022 potential studies:

- Toxicology
- Trash
- Bisphenols (sport fish & bivalves)
- PFAS (harbor seals & air deposition)

Multiyear Planning Workshop - 23 October

MULTI-YEAR PLAN FOR MICROPLASTICS

2021 Priorities:

- Ecological impacts
- Stormwater conceptual model

2022 potential studies:

- Follow-up monitoring in surface and stormwater
- Monitor air deposition
- Characterize microplastic additives

For More Information

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