

RMP UPDATE



BACWA Representatives who guide the RMP

- Steering Committee

Karin North

Amanda Roa

Eric Dunlavey

- 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)

- Workgroup participation and planning
- S&T Review Council of Wisdom

PROGRAM IMPACT

LONG-TERM MANAGEMENT PLANS

...

Water Board
LTMS
BACWA
BASMAA
USEPA

PRIORITIZED MANAGEMENT QUESTIONS

...

Steering Committee
Technical Review
Committee
Workgroups
Strategy Teams
Scientist

SCIENTIFIC KNOWLEDGE

...

Technical Review
Committee
Workgroups
Scientist

ENLIGHTENED MANAGEMENT ACTIONS

...

Regulators
Dischargers
The Public

A
Cleaner
San Francisco
Bay

Specific regulations informed by the RMP

- NPDES Permits
- Nutrient Watershed Permit
- Copper SSO Implementation Plan
- Cyanide SSO Implementation Plan
- Water column toxicity
- 303(d) listings
- CEC Tiered Risk-Based Framework



Potential future drivers for the RMP

- Local, state, or federal regulations on CECs
- Reduced wastewater inputs to the Bay
- Reverse osmosis concentrate discharge to the Bay
- Climate-change related changes in Bay water quality



A photograph taken from the perspective of someone on a boat, looking out at an offshore oil rig. The rig's lattice structure is visible in the distance against a cloudy sky. A large crane arm extends from the top right corner towards the rig. In the foreground, the churning white water of the boat's wake is visible, with a metal chain running horizontally across the bottom of the frame.

PROGRAM HIGHLIGHTS

Status & Trends Review update

- Water and sediment matrices reviewed and updated designs created
- Biota matrix currently under review
- Synthesis meeting to review all three matrices in September
- Proposed design to be reviewed at the MYP Workshop in October

S&T Review objectives

- Create a sampling design appropriate for CECs
- Review the design of the existing program to assess:
 - robustness of the current program
 - value of the data being collected
 - need to collect additional data

Status & Trends Review changes

Water

- Add bisphenols and organophosphate esters
- Conduct limited wet weather sampling for CECs
- LSB as focus area for pilot study, including stormwater and wastewater targeted stations
- Remove some legacy contaminants from regular monitoring

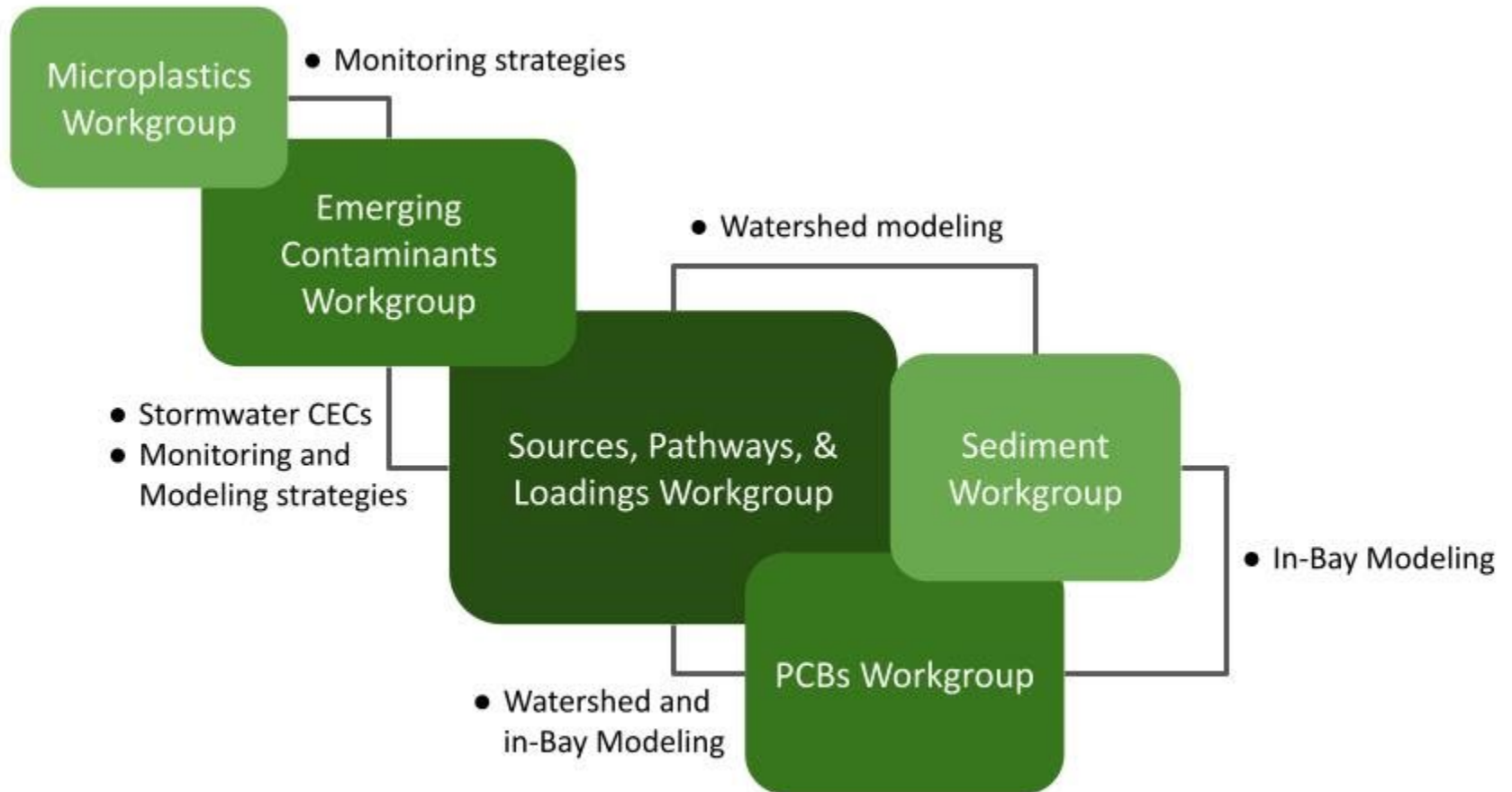
Status & Trends Review changes

Sediment

- Increase time between sampling events for ambient stations
- Add targeted stations near stormwater inputs
- Add limited number of margin stations
- Add bisphenols and PFAS
- Remove legacy pesticides



Workgroups and coordination



Emerging contaminants studies

2021 Special Studies

- Stormwater CECs (Year 3 of 4)
 - Limited storms in years 2 & 3
- PFAS in Bay water
 - Water cruise in mid-September
- Toxicology strategy
 - Helping update the Tiered Risk-Based framework
- Quaternary ammonium compounds in wastewater and sediment (MMP SEP funds)
 - Samples collected; additional in-Bay samples will be collected during water cruise
- Sunscreens in wastewater (MMP SEP funds)
 - Samples being collected soon



Emerging contaminants studies

2022 Special Studies

- CEC Strategy Revision
- Stormwater CECs (Year 4 of 4)
- Stormwater CECs monitoring strategy
- Tire-related contaminants in Bay water
 - Wet and dry season samples, focused in LSB
- Ethoxylated surfactants in wastewater, Bay water, and sediment (Year 1 of 2)
 - Additional wastewater samples
 - Reanalyzing previous samples for degradates, including short-chain ethoxylates



Microplastics studies

2021 Special Studies

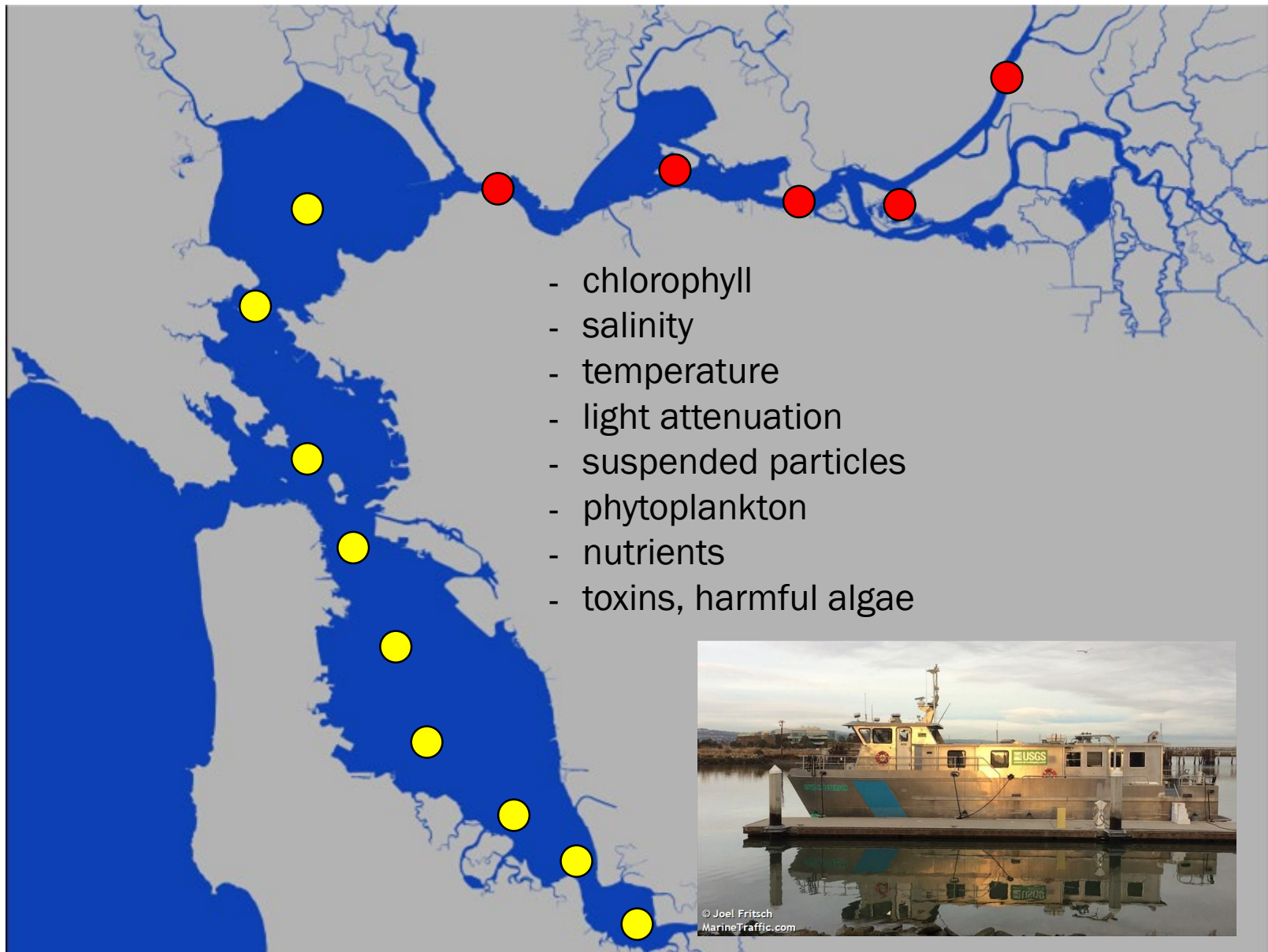
- Stormwater conceptual model (fiber focus)
- Ecotoxicology of microplastics

2022 Special Study

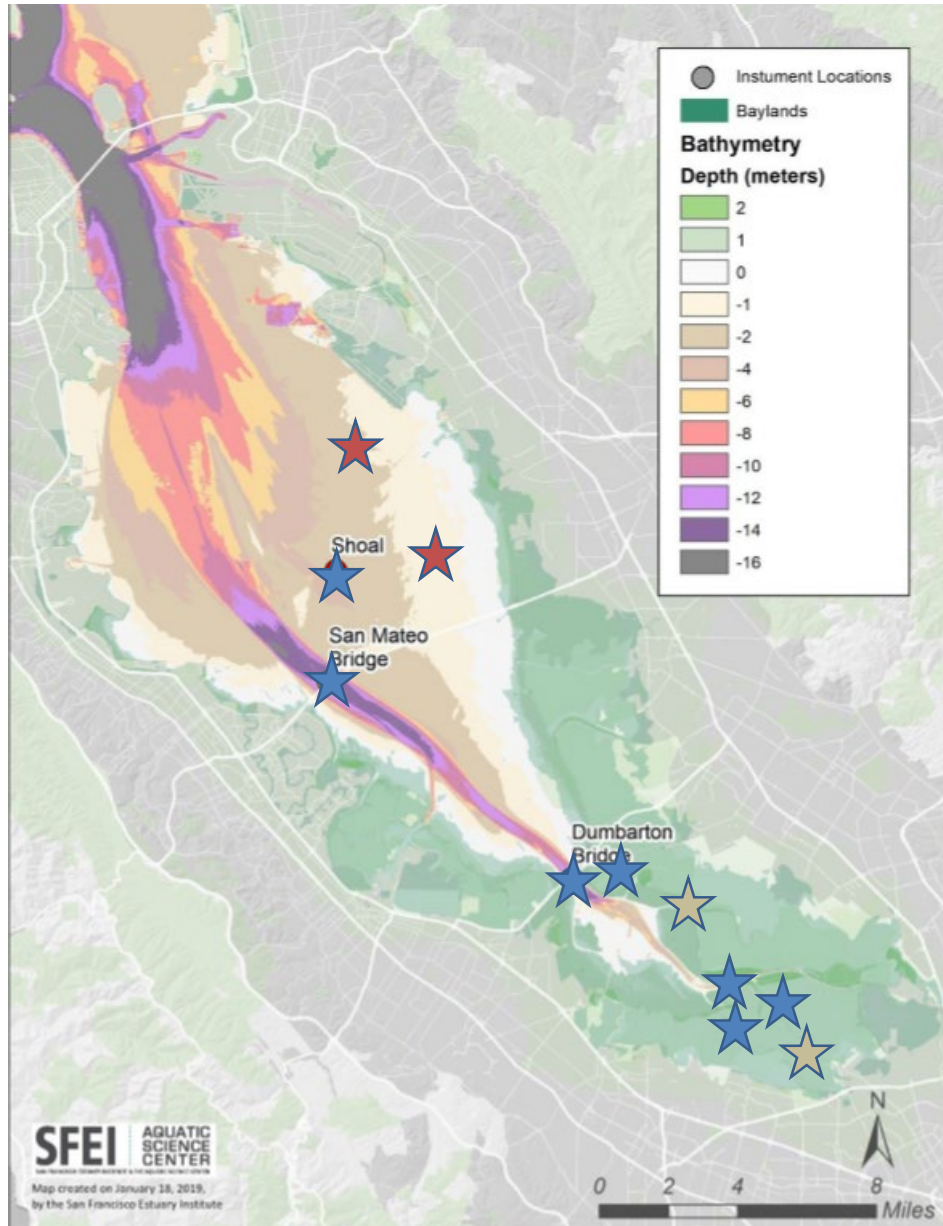
- Tires Strategy



Nutrient monitoring continues



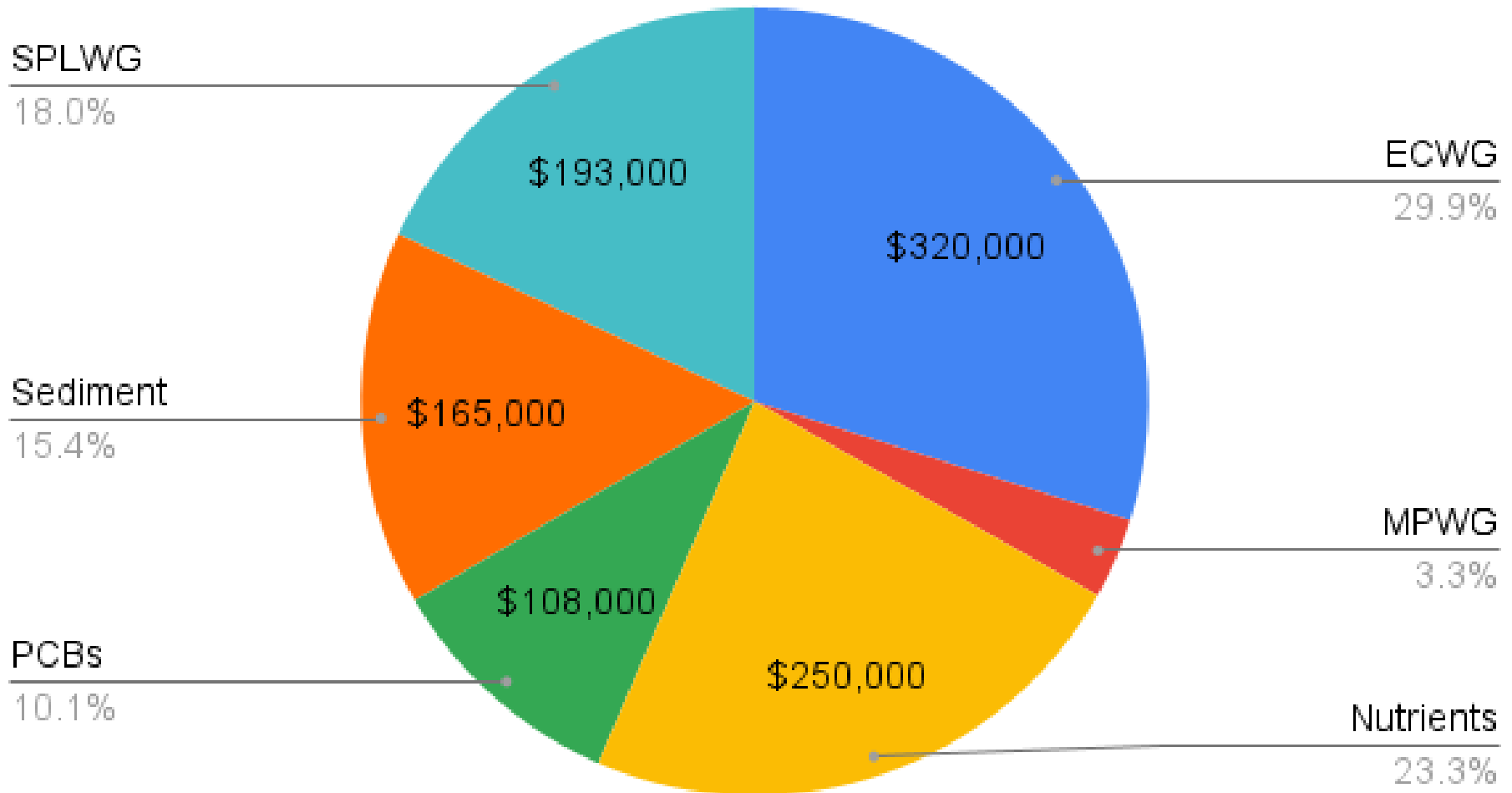
Continuous data in South Bay



- ★ Existing stations
- ★ Proposed stations
- ★ Retired stations

Special Studies funding - 2022

Proportion of special studies budget



2021 S&T Activities

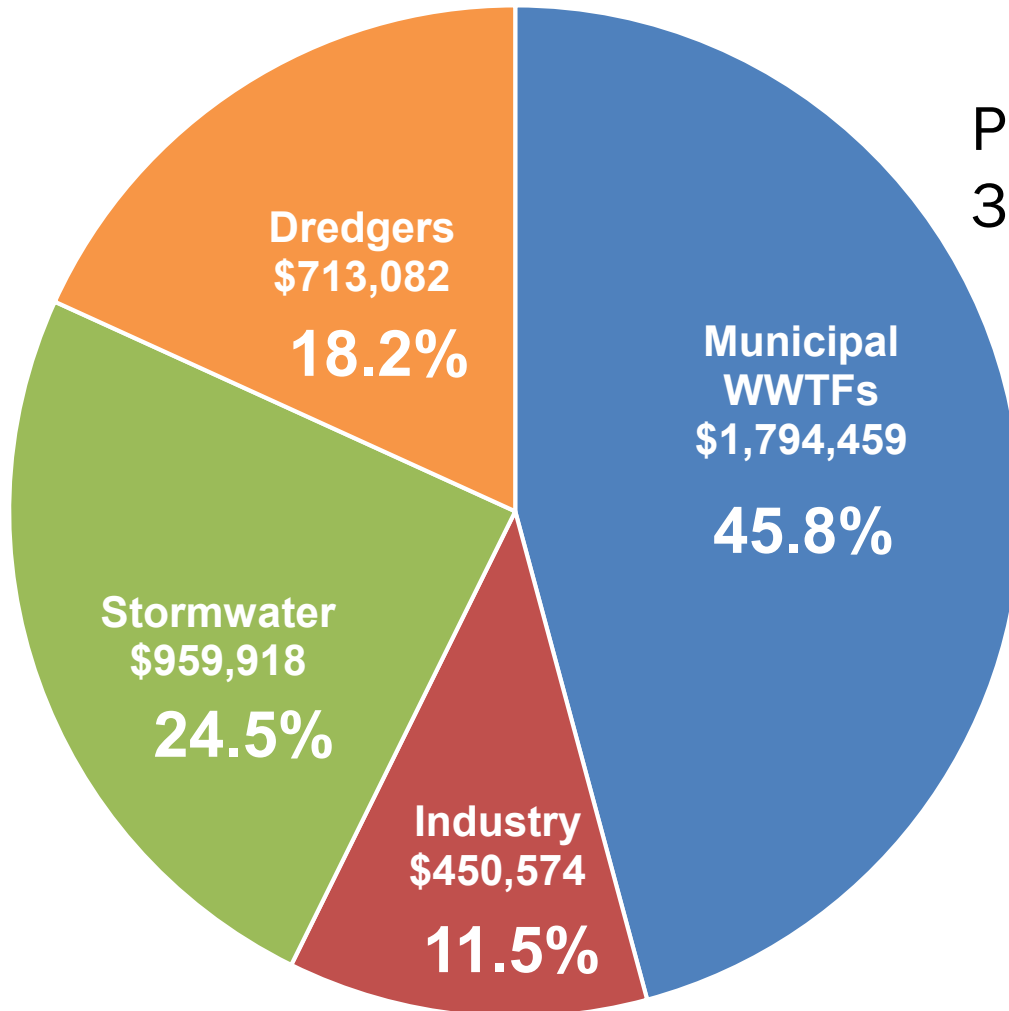
- USGS suspended sediment monitoring
- USGS nutrient and phytoplankton cruises
- Contaminants in Bay water



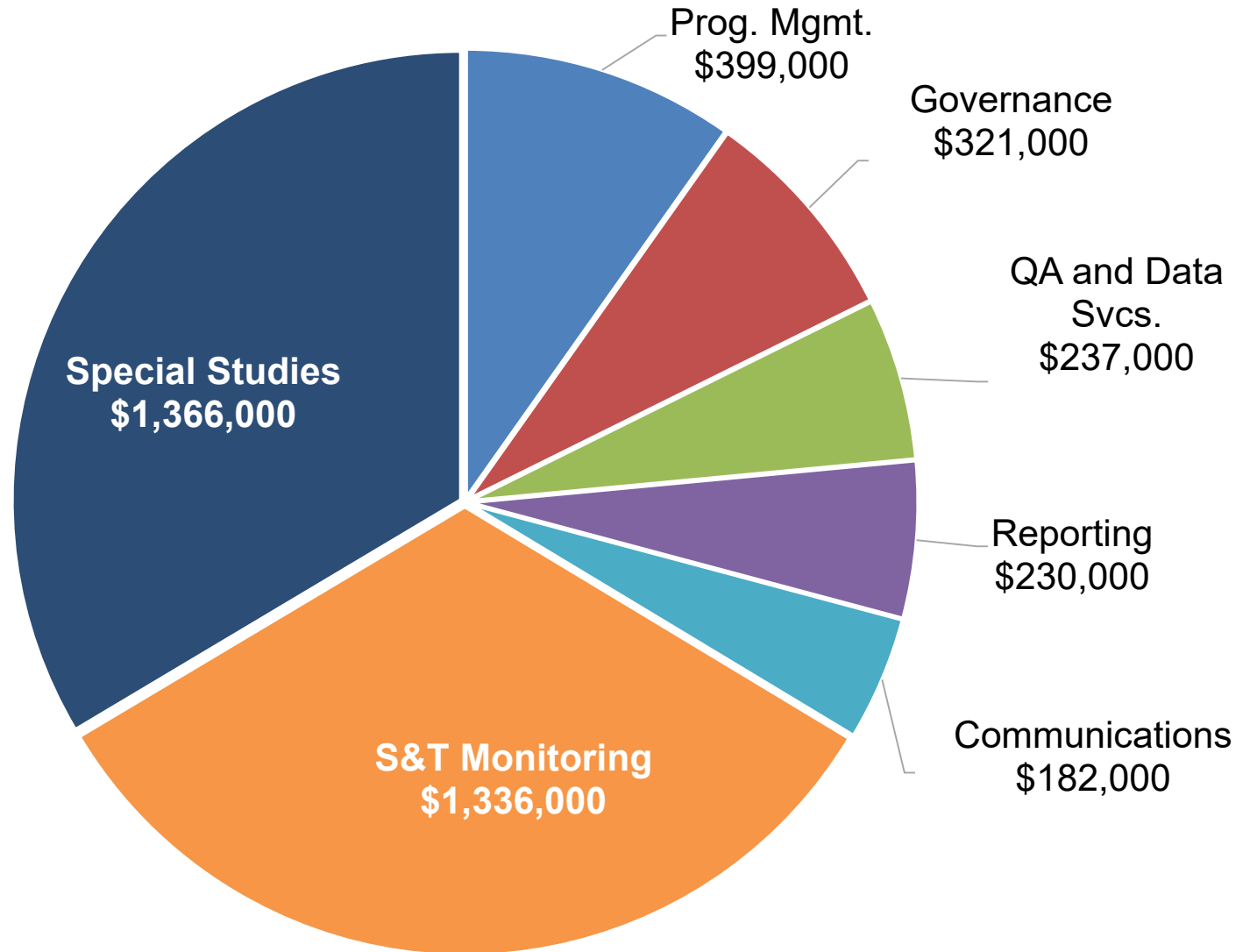
RMP contributions by sector (2022)

2022 fees = 0% increase

Proposed fees for 2023-2025:
3% increase each year



Proposed RMP budget 2022



Other highlights



Virtual Annual Meeting – 14 October 2021





RMP
REGIONAL MONITORING
PROGRAM FOR WATER QUALITY
IN SAN FRANCISCO BAY

sfei.org/rmp



Planning for the Future

Multiyear Planning Workshop – 20 October

MULTI-YEAR PLAN FOR EMERGING CONTAMINANTS

2023 and beyond priorities

- Pharmaceuticals in wastewater, Bay water, and sediment
- Personal care and cleaning product ingredients
- Non-targeted analysis in biota and sediment
- Toxicology
- Integrated monitoring and modeling strategy development
- Special studies to augment S&T pilot sampling

Multiyear Planning Workshop – 21 October

MULTI-YEAR PLAN FOR MICROPLASTICS

2023 and beyond priorities

- TBD

Discussion

- Contaminant priorities?
- Matrix priorities?
- Critical nutrient work not funded by the NMS?
- Upcoming management decisions?

For More Information

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