

Bay RMP Steering Committee Meeting

15 April 2024



RMP

REGIONAL MONITORING
PROGRAM FOR WATER QUALITY
IN SAN FRANCISCO BAY

sfei.org/rmp



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1. Introductions and review goals of the meeting (10 min)
2. Approve last meeting summary, confirm future meeting dates (10 min)
3. TRC Meeting summary from March 26 (10 min)
4. RMP Financial Update for 2024 Quarter 1 (20 min)
5. Meet the new watershed modeler (15 min)
6. USEPA San Francisco Bay Program Office Funds (20 min)
7. Workgroup planning update (30 min)
8. Program Management and S&T 2025 Planning Update(30 min)
9. Communications (30 min)
10. Deliverables and Action Items (10 min)
11. Plan Agenda Items (5 min)
12. Plus/Delta (5 min)



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1. Introductions and Review Goals for the Meeting (10 minutes)



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2. Decision: Approve Meeting Summary from January 22, 2024 and Confirm Future Meeting Dates (10 minutes)

Desired outcomes:

- Approve meeting summary
- Confirm future SC meeting and Annual Meeting dates

Meeting Schedules

Scheduled Steering Committee meetings:

August 12, 2024

November 4, 2024 (+ MYP Workshop)

Scheduled Technical Review Committee meetings:

June 13, September 24, December 12, 2024

Annual Meeting:

October 16, 2024



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3. Information: TRC Meeting Summary from March 26, 2024 (10 minutes)

Desired outcome:

- Informed Committee

TRC 3/26 Meeting Summary

- Information: Wet Season Sampling Update
- Discussion: S&T Monitoring Update
- Information: Introducing Our New Watershed Modeler
- Information: Workgroup Planning Update
- Discussion: S&T and Program Management Planning Update
- Discussion: 2023 Interlaboratory Comparison Study Results and QA Update
- Information: 2021 Cu and CN Rolling Averages Data Update
- Discussion: Communications Update



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4. Information: RMP Financial Update for 2024 Q1 (20 minutes)

Desired outcome:

- Informed Committee



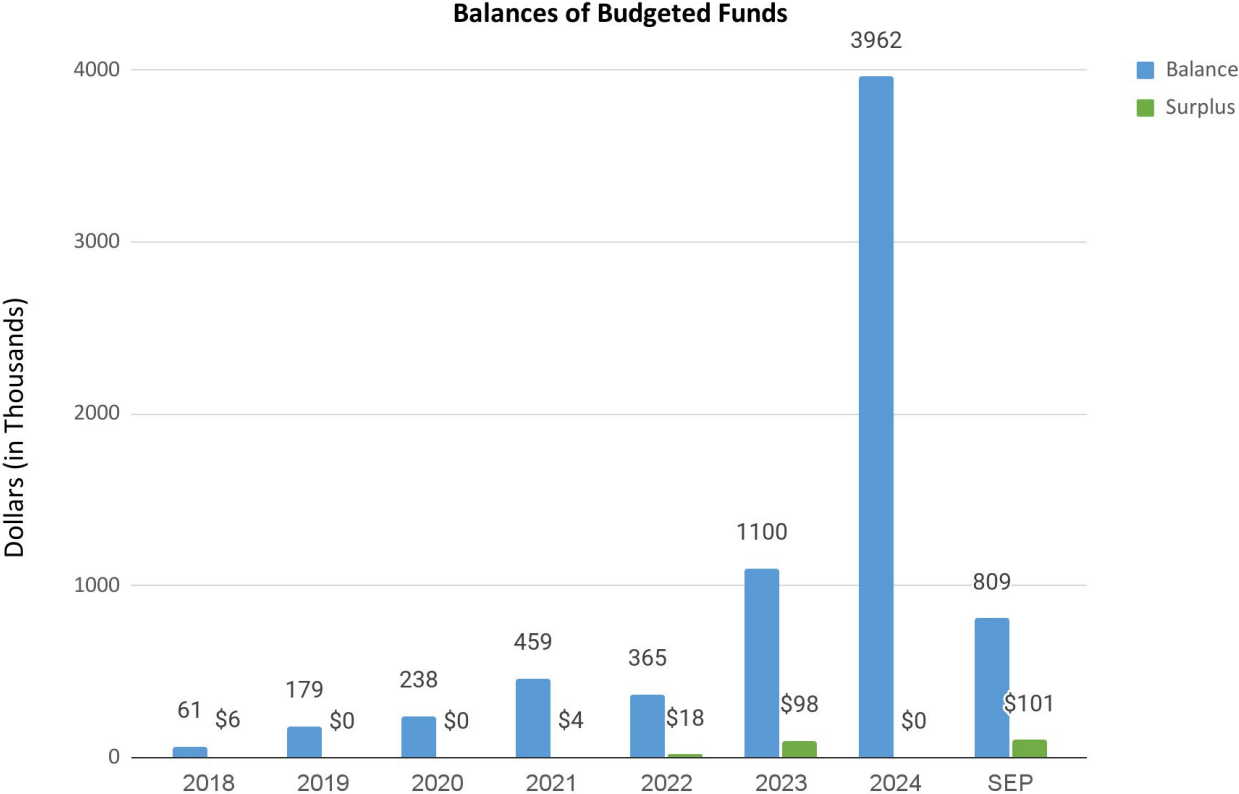
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Steering Committee Meeting

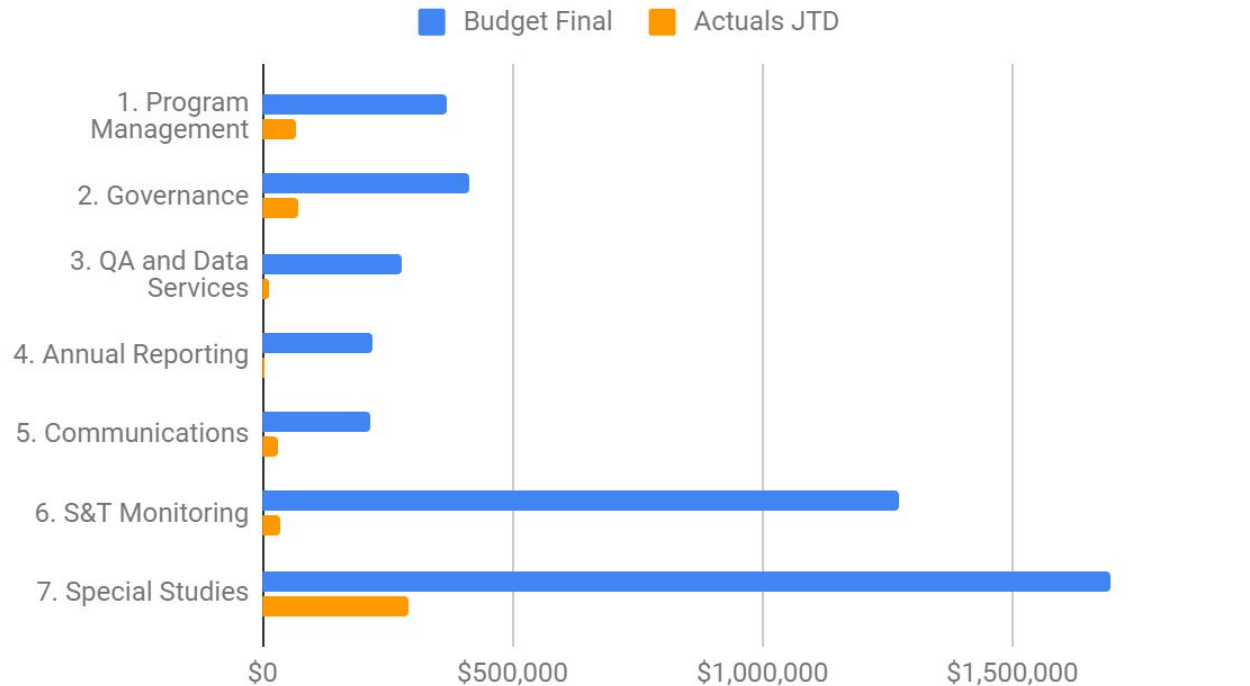
April 15, 2024

The Big Picture



2024 Budget and Expenses

Budget Final and Actuals JTD



Key Points

2024 Budget

- 11% expended
- Fees not yet invoiced
- Surplus of \$56

Key Points

2023 Budget

- 70% expended
- 99% of invoiced fees received (2 invoices remain)
- Surplus of \$98k due to \$118,250 in SEP funds supporting part of task 45 Sediment Delivery to Marshes in C&N Bays

Key Points

2022 Budget

- 87% expended
- 100% of invoiced fees received
- Surplus of \$18k (reduced from \$138k in previous quarters)

Key Points

2021 Budget

- 87% expended
- 100% of invoiced fees received
- Surplus of \$3.5k

Key Points

2020 Budget

- 94% expended
- 100% of fees have been collected

Key Points

2019 Budget

- 95% expended
- 100% of fees have been collected

Key Points

2018 Budget

- 98% expended
- 100% of fees have been collected
- Year is ready to unencumber

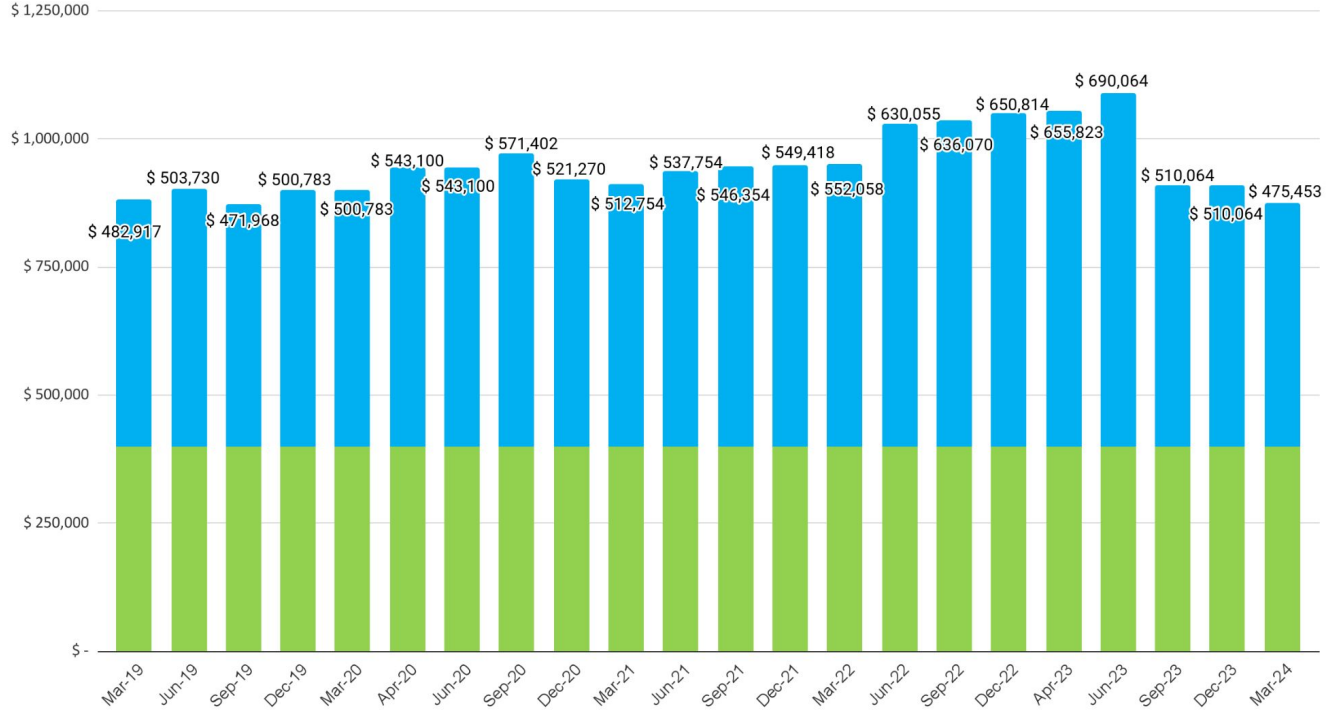
Unencumbrances

We request that a total of \$60,731 will be unencumbered from the 2018 Budget and added to the Undesignated Funds. This amount consists of the following components:

- \$61,149 surplus from closed Programmatic and S&T Tasks
- -\$418 deficit from closed Special Studies Tasks



Undesignated Funds Balance



Undesignated Funds Changes

2023

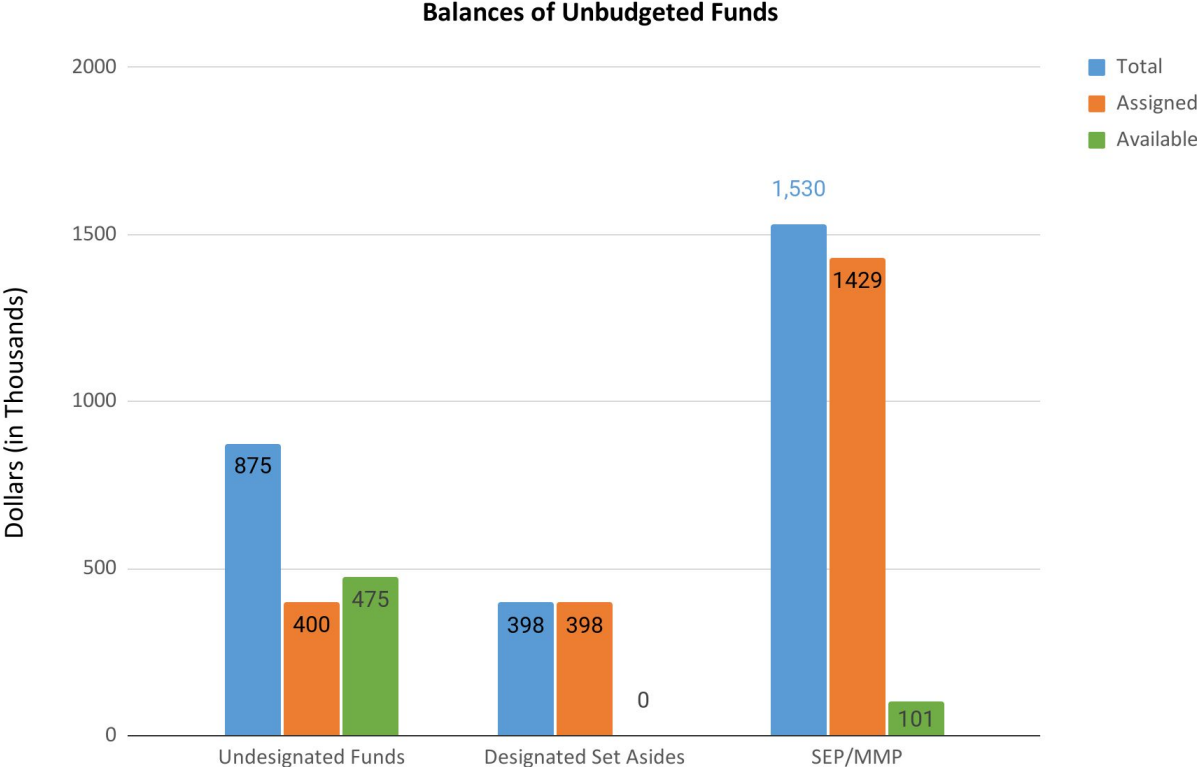
- Q1 LAIF interest of \$34,081 (2.74% rate)
- Q2 LAIF interest of \$38,160 (3.15% rate)
- Q3 LAIF interest of \$55,146 (3.59% rate)
- Q4 LAIF interest of \$61,057 (4% rate)

2024

- Q1 LAIF interest rates have not yet been posted

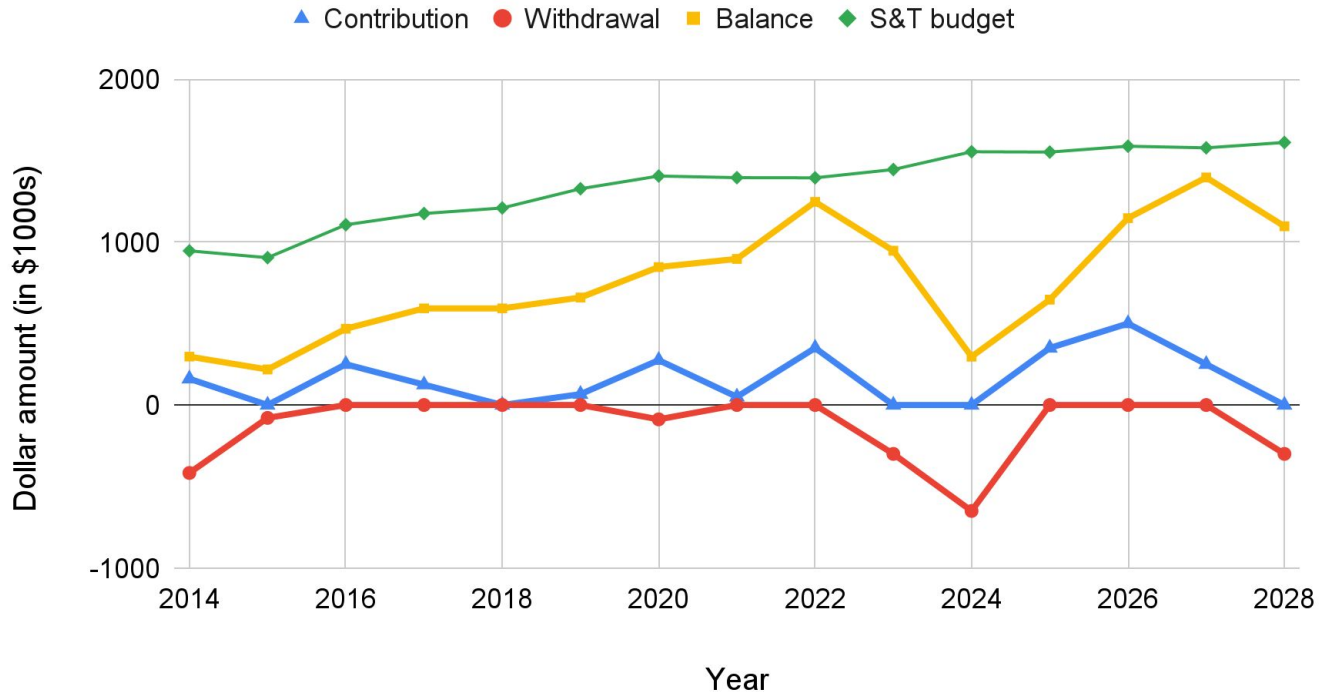


Unbudgeted Funds Summary



S&T Set Aside Funds

S&T Monitoring Dedicated Set-Aside Funds and S&T Budget



Information for Steering Committee

Unallocated SEP Funds

- By the end of April 2024, \$179,289 in unallocated SEP funds (\$19.5k remaining to be received)



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5. Information: Introducing Our New Watershed Modeler (15 minutes)

Desired outcome:

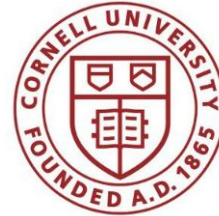
- Informed committee

Introducing myself... Matt Heberger



Education

- 1996 BS in Agricultural and Biological Engineering, Cornell University
- 2003 MS in Civil and Environmental Engineering, Tufts University
- 2024 PhD in Earth Science, Sorbonne University



My MS thesis I created watershed models for bacteria loading on the Mystic River in eastern Massachusetts

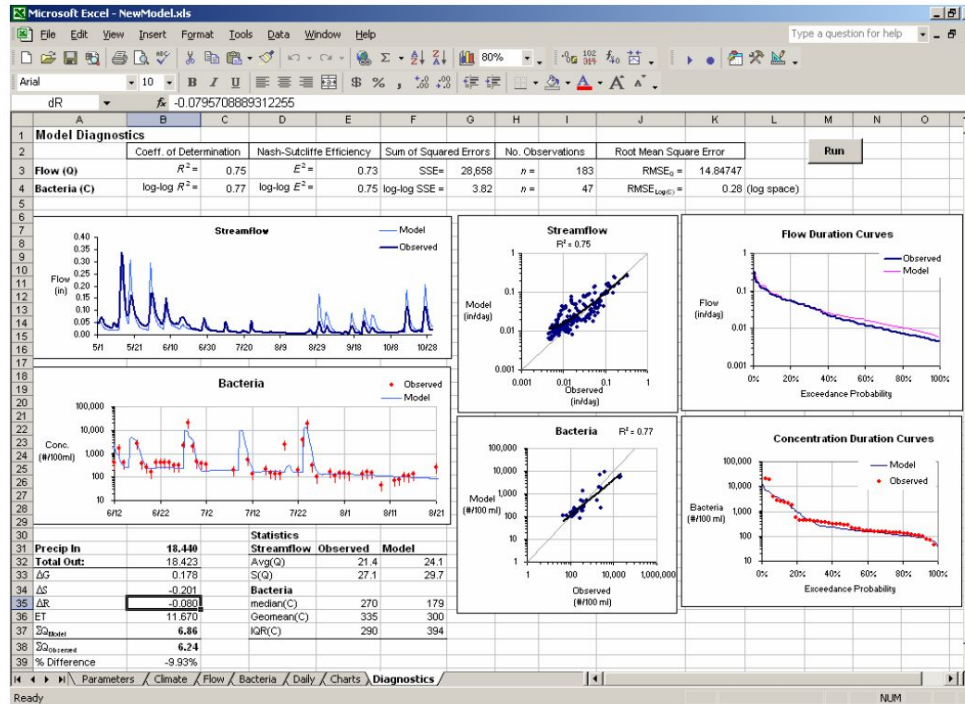


Figure 4.3 Model diagnostic worksheet

I worked as a consulting engineer in Cambridge, MA from 2004 – 2007



- Mostly doing H&H modeling – hydrology and hydraulics
- HSPF
- SWMM
- HEC-RAS



A map of the Merrimack River watershed in New England, showing the river's course through green-shaded land. A north arrow and an inset map of the region are also present.

Merrimack River Watershed Assessment Study

Final Phase I Report


Prepared for:

**New England District
U.S. Army Corps of
Engineers**



An aerial photograph showing a bend in the Merrimack River, with urban areas and greenery visible on the banks.

Sponsor Communities:
Manchester, NH
Nashua, NH
Lowell, MA



I spent 10 years as a researcher at the Pacific Institute in Oakland, CA



PACIFIC
INSTITUTE

- Sea level rise
- Fracking
- Groundwater sustainability
- Desalination
- Water efficiency
- Stormwater capture
- Water and conflict
- Water and sanitation

THE IMPACTS OF SEA-LEVEL RISE ON THE CALIFORNIA COAST

A Paper From
California Climate Change

Prepared By:
Matthew Heberger, Heather Co. Pablo Herrera, Peter H. Gleick, Moore of the Pacific Institute

DISCLAIMER

The paper was prepared on the basis of data supplied by the California Energy Center a Department of Resources Agency, the California Transportation Center, the California Department of Transportation, and the California Department of Water Resources. The Pacific Institute and the authors do not assume any liability for any errors or omissions in the data or for any consequences arising from the use of the information contained in this paper. The Pacific Institute and the authors do not assume any liability for any errors or omissions in the data or for any consequences arising from the use of the information contained in this paper. The Pacific Institute and the authors do not assume any liability for any errors or omissions in the data or for any consequences arising from the use of the information contained in this paper.

Policy Options for Water Management in the Verde Valley, Arizona

Prepared for
The Nature Conservancy
114 N. San Francisco Street, Suite 205
Flagstaff, AZ 86001

June 24, 2011

By:
James Linsumner
Daniel Sheer
Hydrologics, Inc.
22040 Walker Drive, Suite 304
Columbia, MD 21046
Phone 410.715.2955

Matthew Heberger
Michael Cohen
The Pacific Institute
624 2381 Street
Oakland, CA 94612
Phone 510.763.1800

**OIL, FOOD, AND WATER:
Challenges and Opportunities
for California Agriculture**

Matthew Heberger and Kristina Donnelly

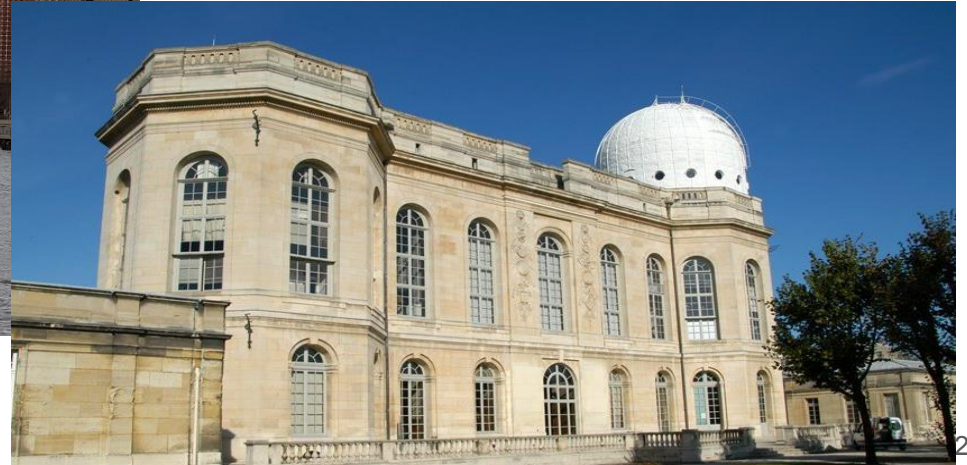
PACIFIC INSTITUTE
December 2015

At SFEI, managed the Delta RMP 2017-2020

- Tremendous learning experience in stakeholder-driven science
- Important water quality drivers were pesticides from agriculture and stormwater, nutrients, mercury
- Large program of aquatic toxicity testing
- Method development and intercomparison studies



In 2021, fulfilled 2 lifelong dreams...





My PhD research focused on optimizing estimates of the water cycle globally, at the pixel scale



Improved observation of the global water cycle with satellite remote sensing and neural network modeling

Une thèse présentée pour l'obtention du grade de Docteur

Sorbonne Université
École Doctorale des Sciences de l'Environnement d'Île de France (N° 129)

par

Matthew G. Heberger

Laboratoire d'Études du Rayonnement et de la Matière en Astrophysique et
Atmosphères, UMR 8112
Observatoire de Paris

Présentée et soutenue publiquement le 12 janvier 2024
devant un jury composé de:

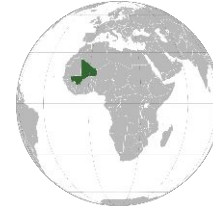
| | | |
|-------------------|----------------------------------|--------------------|
| Hélène CHEFFER | Sorbonne Université | Présidente du jury |
| Aaron BOONE | Météo France, Toulouse | Rapporteur |
| Frédéric FRAPPART | INRAE, Villenave d'Ornon | Rapporteur |
| Hélène BROGNIEZ | Université Paris-Saclay | Examinatrice |
| Ming PAN | Univ. of California at San Diego | Examinateur |
| Fabrice PAPA | IRD, Brasília, Brazil | Examinateur |
| Filipe AIRES | LERMA/CNRS, Paris | Directeur de thèse |



LERMA



I also served in the US Peace Corps in Mali, West Africa from 1996-98



Today, I volunteer for nonprofits involved in health and education in Mali...

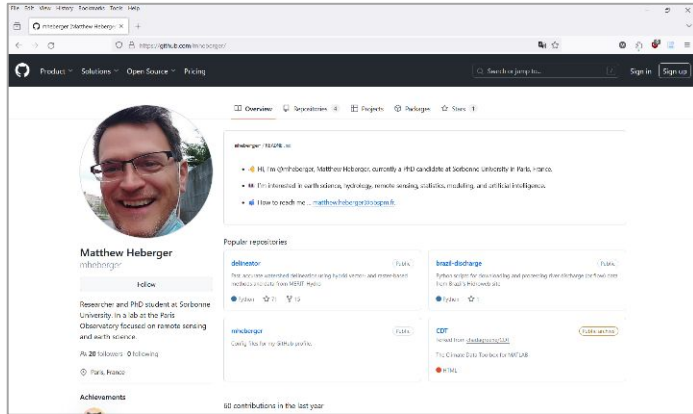


Build a School in Africa

A volunteer-run, non-profit organization, since 2005 we have built over 30 schools in deserving communities in Mali, West Africa. Explore our website to learn more about the schools and how you can help us build more!



I love open source and science that is FAIR*



*findable, accessible, interoperable, and reusable



<https://mghydro.com>

What I hope to contribute to the Bay RMP

- Hydrologic science and watershed modeling
- Statistics and machine learning
- Project management and facilitation
- And of course, my love of the environment and San Francisco Bay!



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6. Information: USEPA San Francisco Bay Program Office Funds (20 minutes)

Desired Outcome:

- Informed Committee
- **Decision** on amount of funding request

**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)**

Getting the RMP Bucket Ready

- \$5-7 million could be available for RMP from FY23/24 funds
 - Step 1 (April): Exception memo
 - General list of work areas
 - \$ amounts for FY24 and total for a 5 year period
 - Step 2 (June): Workplan
 - Step 3 (September): Agreement in place
- FY24/25 and beyond
 - \$54 M per year
 - Agreement can be added to
- Specific items for RMP expansion - Items 7 and 8



Getting the RMP Bucket Ready

- Other notes
 - Important to include EJ and climate adaptation
 - Match requirement of 25%
 - SC guidance in January to Workgroups and staff: aim for 50% funding increase in 2025, eventual 100% increase over the next few years



Getting the RMP Bucket Ready

- Decision today: amount of funding request
- Staff proposal

| | |
|--------------|-------|
| FY24 | \$2M |
| FY25 | \$4M |
| FY26 | \$4M |
| FY27 | \$4M |
| FY28 | \$4M |
| 5 Year Total | \$18M |

} \$6M initial request





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Break





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7. Information: Workgroup Planning Update (30 minutes)

Desired outcome:

- Informed Committee
- Guidance for Workgroups
- Approve WG strategy fund allocations for 2025

Emerging Contaminants Workgroup

Tier 1 Proposals

- **Strategy - \$70k**
- **Stormwater CECs - \$300k**
- **Plastic Additives in Water, Sediment - \$173k or \$235k**
- **QACs in Water, Sediment - \$106k or \$164k**
- **Synthetic Dyes in Sediment, Water, Wastewater, Stormwater - \$171k**
- **NTA of Bay Fish (year 2) - \$76k**
- **NTA of Fibers, Stormwater - \$124k**
- **Stormwater In Vitro Toxicity Screening - \$26k**

Tier 2 Proposals

- **Stormwater CECs (augmented) - \$150k**
- **PFAS NMR Analysis in Wastewater, Stormwater, and Bay Matrices - \$380k**
- **Tire Wear Emissions and Washoff Estimates Journal Paper - \$15k**
- **Tire Rubber Marker Analysis - \$105k**
- **PFAS Analysis Add-on to Stormwater Depth Monitoring Pilot - \$55k**
- **PFAS Wet Deposition Pathway* - \$185k or \$320k**

Sediment Workgroup: May 16

Tier 1 Proposals

- **Strategy and coordination (\$50k)**
- **Updated sediment conceptual model (~\$50k)**
- **Workplan for studies to support hydrodynamic model calibration - assess bed erodibility and impacts of flocculation on settling velocity (~\$75k)**
- **Pilot project for using satellite imagery to determine suspended sediment concentration (~\$125k)**

Tier 2 Proposals

- **Shoreline change analysis (\geq \$75k)**
- **Tributary sediment load monitoring (~\$100k)**
- **Fixed flux station on Richmond Br (~\$100k)**
- **Flux and deposition monitoring at key mudflat-marsh location (~\$100k)**
- **Monitoring at Bay shallows stations established by USACE (TBD)**

SPLWG: May 20

BAMSC Fixed station watershed monitoring network (SPLWG, ECWG, SedWG, PCBWG)

Tier 1 Proposals

- **Strategy and Coordination - \$65k**
- **Tidal Area Remote Sampler - \$10k**
- **PCB/Hg monitoring and modeling to support load and trend assessment - \$167k**

Tier 2 Proposals

- **GIS improvements in watershed delineation and land use integration to support modeling, data interpretation and site selection decision-making (\$60k - \$100k)**
- **Stormwater systems management and equipment upgrades (\$60k - \$100k)**
- **Large storm event contingency funds planning and implementation (\$175k)**
- **Discharge rating curve sampling (\$90k)**
- **Loads/Trends monitoring at Mallard Island (\$150-\$200k)**
- **Trend analysis update for Guadalupe River (\$60k)**

Microplastics Workgroup: April 30

Tier 1 Proposals

- **Strategy - \$20K**
- **MP in Stormwater Pilot Year 2 - \$100K**
- **MP size distribution ambient water - \$202K**

Tier 2 Proposals

- **Sport fish - \$130K**
- **(ECWG) Tire Rubber Marker Analysis - \$105k**

PCB Workgroup: end of May or first week of June

Tier 1 Proposals

- Strategy and coordination - \$10K

Tier 2 Proposals

- Contaminant Flux Field Sampling in San Leandro Bay, Integral - \$285K

Related Non-RMP Proposals

- BAMSC PCB Project



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8. Discussion: Program Management and S&T 2025 Planning Update (30 minutes)

Desired outcome:

- Informed committee
- Input on prioritization of ideas for using USEPA funds towards tasks 1-6

Ideas for use of USEPA Bay Program Funds for Program Management (Tasks 1-5)

- **Internal and External Coordination**
 - More coordination between workgroups, external partners, developing analysis plans with labs etc.
- **Technical Oversight**
 - Internal and external review of deliverables
- **Contract and Financial Management**
 - More projects = more contracts and budgets to manage
- **Governance**
 - Funds to support proposal development, literature review
- **QA & Data services**
 - Increase DS team and budgets to allow datasets to be processed and uploaded more frequently
 - Database maintenance, archive database edits as use of archived samples increase
- **NEW: Equipment maintenance budget (RMP funds)**
 - To purchase and maintain field and lab equipment

Status & Trends 2025 Plan

- USGS Moored Sensors - \$400k
- USGS Nutrient Cruises - \$283k
- Toxic Contaminants in Dry Season Water – \$265k
 - CTR & Organics - \$88k
 - NTA - \$12k
 - Passives - \$51k
- Archives - \$85k
- Reporting - \$14k
- Lab Intercomparison Studies - \$30k
- **GRAND TOTAL - \$1,228,000**

Ideas for use of USEPA Bay Program Funds for Status & Trends Monitoring (Task 6)

- NTA - current budgets for 2025-6 as listed in the MYP is insufficient
- Sport fish - support for SWAMP Realignment-related work
 - Community fish collection
 - Additional locations - ex. Hunters Point
- Continuation of S&T pilot studies
 - Wet season water sampling
 - Increase sampling stations to include more regions of the Bay
 - Increase the number of storm events sampled
 - Harbor seals
 - Targeted sampling (not currently feasible)
- Selenium
 - Increased frequency of sampling (Annual, monthly)
 - South Bay stations
- Sediment
- Funds for more reporting and analysis, manuscript writing
- Systems upgrades - sample tracking, sites databases, field apps



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9. Discussion: Communications (30 minutes)

Desired outcomes:

- Approval of rough outline for Annual Meeting agenda
- Update on plan for Pulse in 2024

Pulse 2024

- Theme: CECs
- Similar to the 2013 Pulse
- An updated go-to guide to CECs in the Bay
- Will start early in 2024



2 OVERVIEW

6 MANAGEMENT UPDATE

8 MANAGEMENT OF CECs IN SAN FRANCISCO BAY

- 3 California Safer Consumer Products Regulations
- 4 Treating CECs in Municipal Wastewater
- 5 Pesticide Management
- 6 Target Organisms and Application Sites of Pesticides with Pathways to San Francisco Bay
- 8 Cradle to Cradle Certified^{CM} Products
- 9 REACH for Safer Chemicals in Europe
- 10 Biomonitoring California Measures Contaminants in Californians
- 12 The Turning Tide
- 13 The 303(d) List and Regulatory Status of Pollutants of Concern

STATUS AND TRENDS UPDATE

LATEST MONITORING RESULTS

- 26 Nutrients 28 Mercury 31 Selenium
- 32 PCBs 34 PAHs 36 PBDEs

WATER QUALITY TRENDS AT A GLANCE

- 38 Toxics and Bacteria 39 Chlorophyll and Dissolved Oxygen
- 40 Nutrients and Sediment 41 Flows and Loads
- 42 Human Presence 43 Climate and Habitat
- 44 Populations 45 Graph Details

46 CEC MONITORING

- 48 MONITORING CONTAMINANTS OF EMERGING CONCERN IN SAN FRANCISCO BAY
- 51 The RMP Emerging Contaminants Workgroup

54 A GUIDE TO CECs IN THE BAY

- 54 Introduction 55 Perfluorooctane Sulfonate
- 59 Alkylphenols and Alkylphenol Ethoxylates
- 63 Polybrominated Diphenyl Ethers
- 67 Alternative Flame Retardants
- 71 Pharmaceuticals and Personal Care Products
- 75 Triclosan 79 Pyrethroids 83 Fipronil
- 87 Currently Used Pesticides
- 91 Nanoparticles or Nanomaterials
- 92 Chlorinated Paraffins
- 93 Polybrominated Dioxins and Furans
- 94 On the Lookout for New CECs

95 REFERENCES

97 RMP COMMITTEE MEMBERS AND PARTICIPANTS

98 CREDITS AND ACKNOWLEDGEMENTS

Comments or questions regarding *The Pulse* or the RMP can be addressed to Dr. Jay Davis, RMP Lead Scientist, (510) 746-7368, jay@sfci.org

Article

- Water Board
- DTSC

Sidebars

- Tiered Risk-Based Framework
- EPA and PFAS: Sources to Solutions
- DPR and pesticides
- State Board CEC Strategy
- Essential Use Approach

Article

- Summary of RMP CEC Strategy

Sidebars

- Challenges of analytical methods
- Microplastics

TIER 3

TIER 2

TIER 1

Annual Meeting Early Draft Agenda

2023 RMP ANNUAL MEETING AGENDA

October 12, 2023; 9:00AM – 4:00PM

Hybrid meeting: [Register](#) to obtain information

- General
 - RMP Highlights (EPA funding, ...)
- CECs Block 1: ECWG advisor perspectives
 - Derek Muir
 - Bill Arnold: QACs in wastewater
 - Third advisor
- CECs Block 2?
 - CEC strategy revision
 - Ethoxylated surfactants?
 - PFAS Sources to Solutions project intro
- PCBs +
 - In-Bay modeling
 - Pedro's watershed modeling
- Sediment
 - Sediment talk
- Nutrients
 - NMS highlights (NMS "Pulse", ...)
- SPL
 - SPL talk
- Microplastic
 - MP talk

| Welcome and Introduction | |
|--|--|
| 9:00 | Welcome and Introduction <i>- Tom Mumley, San Francisco Bay Water Board, RMP Steering Committee Chair</i> |
| Session 1: General RMP Highlights | |
| 9:10 | Introduction - <i>Karin North, City of Palo Alto</i> |
| 9:15 | Reflections on 30+ Years of Regional Monitoring <i>- Tom Mumley, San Francisco Bay Water Board</i> |
| 9:45 | RMP Highlights <i>- Amy Kleckner, RMP Manager, San Francisco Estuary Institute</i> |
| 10:10 | Discussion - <i>Moderated by Karin North, City of Palo Alto</i> |
| 10:35 | BREAK (20 minutes) |
| Session 2: Nutrients and Sediment | |
| 10:55 | Introduction - <i>Ian Wren, Baykeeper</i> |
| 11:00 | Harmful Algal Bloom Update <i>- Dave Senn, San Francisco Estuary Institute</i> |
| 11:20 | Dissolved Oxygen Studies <i>- Ariella Chelsky, San Francisco Estuary Institute</i> |
| 11:40 | Sediment Loads from Creeks in Drought and Flood Years <i>- Alicia Gilbreath, San Francisco Estuary Institute</i> |
| 12:00 | Discussion - <i>Moderated by Ian Wren, Baykeeper</i> |
| 12:20 | LUNCH BREAK (60 minutes) |
| Session 3: PFAS | |
| 1:20 | Introduction - <i>Maggie Monahan, San Francisco Bay Water Board</i> |
| 1:25 | PFAS in Bay Fish <i>- Jay Davis and Miguel Mendez, San Francisco Estuary Institute</i> |
| 1:45 | Investigation of PFAS Sources to Municipal Wastewater <i>- Diana Lin, San Francisco Estuary Institute and Lorien Fono, Bay Area Clean Water Agencies</i> |
| 2:05 | Cosmetics Contribute to the PFAS Load at Wastewater Treatment Plants in California <i>- Simona Balan, California Department of Toxic Substances Control</i> |
| 2:25 | Discussion - <i>Moderated by Maggie Monahan, San Francisco Bay Water Board</i> |
| 2:45 | BREAK (20 minutes) |
| Session 4: Contaminants of Emerging Concern in Stormwater | |
| 3:05 | Introduction - <i>Chris Sommers, EOA, Inc.</i> |
| 3:10 | CECs in Stormwater <i>- Rebecca Sutton, San Francisco Estuary Institute</i> |
| 3:30 | CECs from Tires <i>- Ezra Miller, San Francisco Estuary Institute</i> |
| 3:50 | DTSC Actions on CECs and Microplastics <i>- Jen Jackson, California Department of Toxic Substances Control</i> |
| 4:10 | Discussion - <i>Moderated by Chris Sommers, EOA, Inc.</i> |
| 4:30 | Adjourn |



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10. Information: Status of Deliverables and Action Items (10 minutes)

Desired outcomes:

- Informed committee
- Feedback on progress and due dates

Deliverables - completed!

- 😊 S&T WY24 wet season water sampling
- 😊 Technical Memo: Development of Semi-Empirical Light Extinction Estimates for Biogeochemical Modeling Applications in SFB. SFEI Cont. #1177
- 😊 2024 RMP QAPP Update SFEI Cont. #1169
- 😊 CEC Modeling Exploration Report SFEI Cont. #1131
- 😊 Stormwater CECs manuscript submitted!
- 😊 NB Se clam and water data report (2019-2020) SFEI Cont. # 1116
- 😊 SS: Suspended Sed in LSB - Year 2; 15 min SSC time series data from 8 stations.
- 😊 Ambient Sediment Thresholds Update

Deliverables – Overdue...

- MTC Bay area land use update (SEP)
- STLS regional model development
- 2020 S&T design report
- RWSM update and technical report

Deliverables – delayed

- STLS WY21 POC Recon. Monit. - Update data for the Advanced Data Analysis (ADA)
- NB Se in clams and water report (2021-2023)
- NTA Sediment Data Manuscript and Fact Sheet
- PFAS in Archived Sport Fish Manuscript
- Action Item: Schedule Council of Wisdom meeting to discuss event based monitoring.

Deliverables – due before next SC meeting (8/12)

- Impact of Remediation Actions on San Leandro Bay Recovery from PCB Contamination technical report
- Final Margins Report
- 2021 QA Summary Report for S&T Activities
- 2020 S&T Design Report
- Sediment Deposition on SB Marsh (Whales Tail) report
- Integrated Watershed monitoring and modeling strategy report
- PFAS in Archived Sport fish



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11. Discussion: Plan Agenda Items for Future Meetings (5 minutes)

Desired outcome:

- Identify future agenda items, including science updates



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12. Discussion: Plus/Delta (5 minutes)



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Thank you!