



RMP Steering Committee Meeting

August 24, 2023
9:00 AM – 2:00 PM

HYBRID MEETING

In-person: First floor conference room at SFEI
Remote Access: <https://us06web.zoom.us/j/92590225613>
 Meeting ID: 925 9022 5613
 Dial in: (669) 900-6833

AGENDA

1.	Introductions and Review Goals for the Meeting	9:00 (10 min) Tom Mumley
2.	Decision: Approve Meeting Summary from SC Meeting on April 26, 2023; Confirm Dates for Future Meetings Scheduled SC meetings: MYP Workshop/SC meeting: November 1 SC meeting: January 24, 2024? Other scheduled meetings: 2023 Annual Meeting: October 12 TRC meeting: December 7 Materials: SC Meeting Summary, pages 6-20 Desired Outcomes: <ul style="list-style-type: none"> • Approve meeting summaries • Confirm future SC meeting date 	9:10 (10 min) Tom Mumley, Group

3.	<p>Information: TRC Meeting Summary</p> <p>Topics discussed at the most recent TRC meeting included:</p> <ul style="list-style-type: none"> • 2024 special study proposals • SEP list update • WQIF proposal • S&T update • Bay margins design • Interlaboratory comparison planning • Annual Meeting brainstorming <p>Materials: TRC Meeting Summary, pages 21-33</p> <p>Desired Outcome:</p> <ul style="list-style-type: none"> • Informed Committee 	<p>9:20 (10 min)</p> <p>Jay Davis</p>
4.	<p>Information: RMP Financial Update for 2023 Quarter 2</p> <p>The RMP Financial Update summarizes the balance of budgeted and reserved RMP funds as well as its cash position. A report on the recently-completed SFEI audit will be provided.</p> <p>Materials:</p> <ul style="list-style-type: none"> • Financial Update Memo, pages 34-71 <p>Desired outcomes:</p> <ul style="list-style-type: none"> • Informed Committee 	<p>9:30 (20 min)</p> <p>Jen Hunt</p> <p>Amy Kleckner</p> <p>Janice Chiu</p>
5.	<p>Information: Update on Fee Schedules and the MOU</p> <p>RMP fees are approved in 3-year increments. The most recent approval was for 2023-2025. Fee options for 2026-2028 will be discussed at the July 2024 SC meeting and fees will be set at the October 2024 SC meeting. The dredger fee schedule is reviewed every 3 years. The most recent approval was for 2022-2024. Discussions on the next fee schedule will begin at the January 2024 SC meeting. The MOU between SFEI and the Water Board for administering the RMP is amended every two years. The most recent amendment was for 2023-2024. The next amendment will be issued in fall 2024.</p>	<p>9:50 (10 min)</p> <p>Jay Davis</p>

<p>6.</p>	<p>Decision: Approve Special Studies for 2024 and List of Eligible RMP Studies for SEP Funding</p> <p>Between April and June 2023, workgroups met to develop proposals for special studies in 2024. On June 20, 2023, the TRC reviewed all the proposals put forward by the workgroups and recommended a suite of studies for 2024. The Steering Committee will review the recommended studies, make any adjustments they deem warranted, and then approve the special studies for 2024. Funding from core RMP fees and AMR fees will be budgeted during this item. Some proposals have requested early release of funds.</p> <p>In addition, the RMP maintains a list of projects that have been vetted by Workgroups and/or the TRC but were not funded. This list of projects is a resource to the Water Board as they negotiate Supplemental Environmental Projects. The TRC recommends revising the list by adding proposed projects for 2024 that were not funded and by removing any older projects that are no longer priorities. Projects from the list were prioritized by the TRC for future funding.</p> <p>Materials: TRC recommendations table (pages 72-73) and current SEP list (pages 74-76)</p> <p>Special Study summary table, special Study descriptions table, and full special study proposal writeups sent as separate attachment</p> <p>Desired Outcome:</p> <ul style="list-style-type: none"> • Approved list of Special Studies to be funded in 2024 and an updated SEP list • Approval of early release of funds for selected proposals 	<p>10:00 (60 min)</p> <p>Jay Davis</p> <p>Amy Kleckner</p>
<p>7.</p>	<p>Discussion: Multi-Year Planning Workshop Agenda</p> <p>The Multi-Year Planning (MYP) Workshop is an opportunity for Steering Committee members and Technical Review Committee members to discuss the priorities for the RMP in the upcoming 3-5 years. At the 2021 MYP Workshop, the SC agreed to a full Multi-Year Plan update by October 2023. For this agenda item, the SC will discuss how to structure the agenda for the MYP Workshop with a focus on the MYP update. An update on Workgroup strategy development will be provided.</p> <p>Materials: Slides presented at the meeting</p> <p>Desired Outcome:</p> <ul style="list-style-type: none"> • Priority agenda items for MYP Workshop 	<p>11:00 (30 min)</p> <p>Jay Davis</p> <p>Tom Mumley</p>

8.	<p>Decision: WQIF - Proposal and Use of RMP Funds for Match</p> <p>Updates and decisions on WQIF projects and proposals. Staff have prepared a proposal to expand on RMP-funded work on PFAS in stormwater.</p> <p>Materials: None</p> <p>Desired Outcome:</p> <ul style="list-style-type: none"> • Approve the PFAS proposal for submittal to EPA • Approval of the latest plan for use of RMP funds for match (include discussion of Sediment Solutions/Beneficial Baylands) 	<p>11:30 (30 min)</p> <p>Kelly Moran</p> <p>Amy Kleckner</p> <p>Jay Davis</p>
9.	<p>Lunch</p>	<p>12:00 (45 min)</p>
10.	<p>Decision: Communications</p> <p>Finalize speakers for the RMP Annual Meeting; update on timeline for the RMP Update.</p> <p>Materials: Draft Annual Meeting agenda (page 77); slides presented at the meeting</p> <p>Desired Outcomes:</p> <ul style="list-style-type: none"> • Decision on speakers for the Annual Meeting 	<p>12:45 (30 min)</p> <p>Jay Davis</p>
11.	<p>Discussion: Status of RMP Deliverables and Action Items</p> <p>Materials: Summary slides, Action Items & Deliverables Stoplight Reports, pages 78-88</p> <p>Desired Outcomes:</p> <ul style="list-style-type: none"> • Informed Committee • Feedback on progress and due dates 	<p>1:15 (20 min)</p> <p>Amy Kleckner</p>
12.	<p>Discussion: Plan Agenda Items for Future Meetings</p> <p>Desired Outcome:</p> <ul style="list-style-type: none"> • Identify future agenda items, including science updates 	<p>1:35 (5 min)</p> <p>Tom Mumley</p>

13.	Discussion: Plus/Delta	1:40 (5 min) Tom Mumley
14.	Adjourn	1:45



Bay RMP Steering Committee Meeting

April 26, 2023

San Francisco Estuary Institute

Meeting Summary

Attendees

SC Member	Affiliation	Representing	Present
Eric Dunlavey	City of San Jose	POTW-Large	Y
Amanda Roa	Delta Diablo	POTW-Small	Y
Karin North**	City of Palo Alto	POTW-Medium	Y
Adam Olivieri	BAMSC / EOA, Inc.	Stormwater	Y
John Coleman	Bay Planning Coalition	Dredgers	N
Tessa Beach	US Army Corps of Engineers	USACE	N
Tom Mumley*	SF Bay Regional WQCB	Water Board	Y
Maureen Dunn	Chevron	Refineries	Y

* Chair, ** Vice Chair, alternates in gray and italicized

Staff and Others:

- Jay Davis, SFEI
- Amy Kleckner, SFEI
- Martin Trinh, SFEI
- Jen Hunt, SFEI
- Melissa Foley, SFEI
- Kelly Moran, SFEI
- Luisa Valiela, EPA
- Xavier Fernandez, SFB RWQCB

1. Introductions and Review Goals for the Meeting

Tom Mumley began the meeting with a brief round of introductions and then reviewed the day's agenda. Key agenda items included presentations on CECs in stormwater, discussion on upcoming prey fish work, a new proposed process for accumulated MMP funds, strategy updates, and ongoing workgroup processes. Updating the list of projects available for SEP funding has been added to the agenda as a standing item.

2. Summary from SC Meeting on January 25, 2022; Confirm Dates for Future Meetings

Tom Mumley asked the group for any final comments on the previous meeting's summary. Receiving no comments, he continued to confirm the dates for upcoming meetings. The SC meeting was confirmed for August 10, 2023, and the proposed date for the Multi-Year Planning (MYP)/SC meeting was approved for November 1, 2023. The Technical Review Committee (TRC) will meet on June 20, 2023 and September 19, 2023.

The RMP Annual Meeting has been confirmed for October 12, 2023. Melissa Foley previously confirmed the David Brower Center was available and that SFEI has a hold on that date.

Action Item:

- Send out calendar invitations for the November 1, 2023 SC meeting (Martin Trinh, May 1, 2023)

Decision:

- Karin North motioned to approve the meeting summary. Eric Dunlavey seconded the motion. The motion was carried by all present members.

3. Information: TRC Meeting Summary

Jay Davis provided an overview of the previous Technical Review Committee meeting. Xavier Fernandez summarized the recently updated 303(d) list with an integrated report set to be released for Region 2. Xavier reported there would be 14 new listings for indicator bacteria in the Bay, with four listings being driven by shellfish harvesting use. Other notable items have been listed as Category 3 ("watch list") due to insufficient data, but beneficial uses are potentially threatened. Temperature, ocean acidification, and microplastics are being considered. Tom Mumley added that there is a significant step change in the level of effort going into the integrated report and outgrowth of legal challenges. The 303(d) list is combined with the 305(b) report to generate an integrated

report. Kevin Lunde and Tom weighed in on the state recommendations as staff in Sacramento wanted to list the Bay as impaired by microplastics using preliminary data from RMP. Richard Looker and Tom weighed in strongly about data and threshold manipulation. Microplastics were instead moved to the watchlist, indicating that that standards may not be met, but regulatory bodies need more data before making any decisions. However, the Committee emphasized that the RMP should consider standard methods or available thresholds as well as how third parties will interpret and manipulate RMP data. Karin North noted that having voluntary POTW participants in Northern California is strongly preferred to the situation in Southern California where POTWs are required to participate. Luisa Valiela added that microplastics should be primarily handled by OPC and the RMP should develop more strategy over the next 3-5 years as the Bay should not be the first region listed. The Bay has just wrapped up its 2024 round for 303(d) and will be up for consideration again in 2030. Karin suggested inviting regulators such as Erica Kalve (senior leading effort at state board) to future conversations, with Tom adding it is inevitable that there will be big pushes to add a listing for PFAS.

Alicia Gilbreath of SFEI gave the TRC an update on this year's historic wet season sampling. To date, this year has recorded 154% of the normal rainfall and currently ranks as one of the top five wettest wet seasons in San Francisco's rainfall record. This is in stark contrast to the drought-like conditions of the previous years. This has allowed the stormwater team to obtain samples for a variety of efforts for both legacy and emerging contaminants for both the Water Board and EPA.

Amy Kleckner proceeded to give an update on the S&T monitoring occurring in the past year as well as in the upcoming year. She began by reviewing the timing of the various S&T efforts with wet season water sampling ongoing between October and April, dry season water along with Bay sediment by SFEI and AMS between July-September, near-field prey fish and sediment along with margins sediment with Moss Landing Marine Labs in August, and marine mammals with the Marine Mammal Center beginning now through September.

Jay expanded on the near-field sediment and prey fish pilot effort. Currently 12 stations have been budgeted for sediment and fish, which will be sampled concurrently by Marco Sigala. The effort will focus on areas where there is an overlap with near-field wet season water, PCB PMU, and sport fish sampling. At the December meeting, the TRC discussed adding the airport stations. The effort will collect Mississippi silverside or topsmelt as primary indicator species at 12 stations with three composites per station for PFAS analysis. Samples will be archived for potential analysis of other contaminants (e.g., bisphenols, OPEs, other CECs, PCBs). The original draft had a budget in the MYP of \$120K. Following more detailed planning, Jay requested an additional \$31K to

fund the inclusion of staghorn sculpin collection at nine stations (1 composite per station, totaling \$19K, with other additional costs of \$12K). Sculpin had the highest levels of PFAS in a previous prey fish pilot study. An additional request of \$7K was made for analysis of PCBs at PMU stations in San Leandro Bay, which covers an element of the PCB multi-year plan. The TRC approved of this adjusted scope.

Amy concluded her section by reporting that the S&T Design Report currently had a draft in review. Following final advisor comments, a final draft is expected to be delivered in June 2023.

Don Yee reviewed the 2020 North Bay Margins Sediment results. Overall, observations somewhat followed expectations for legacy contaminants. Margins concentrations were highest in the Central Bay followed by the South and North Bays respectively. For the upcoming round of sampling, Don described the plan for S&T sampling at 12 targeted “near-field” sites at some repeat sites to evaluate trends near known expected sources, often upstream of margins “frame”. The proposed plan for margins sampling calls for 24 stations, including new GRTS sites for discovery and some fixed stations. The proposed plan calls for 17 deep Bay sites sampled for CECs every 5 years (7 historical +10 GRTs random CB/SB/LSB) and 27 sites sampled for CECs and CTR/legacy contaminants every 10 years (possibly 7 historical + 5 GRTS repeat + 15 GRTS random). Jay noted this work had already been included in the budget and redesign report. Tom agreed on keeping margins sampling roughly as planned, and pointed out the need to coordinate with the Wetland Regional Monitoring Program. Luisa Valiela agreed on coordinating with the WRMP and suggested scheduling a meeting with Christina Toms to discuss fixed stations to complement WRMP biological monitoring and fill the sediment contaminant monitoring data gap for the WRMP. Xavier Fernandez supported this action item. The Committee approved of the deep Bay 5 year design (7 historical + 10 GRTS random CB/SB/LSB), and stated that the deep Bay 10 year design can be decided further down the road.

Don presented on the Floating Percentile Method Report. This special study was approved to determine if this method could help characterize dry/dredged sediment material for disposal. There was noise and delays in the PCB data, which undermined its benefits. It will not be used going forward.

Don also presented on the interlaboratory comparison study. Working with Brooks Applied Laboratory (BAL), the RMP compared BAL’s legacy “reductive precipitation” method (1640m) with their new column chelation method (BA-5021) for copper. Through several rounds of intercomparisons, Don found a consistent relationship, concluding that the intercomparison could end. The TRC agreed, but asked

for follow up with Richard Looker. Opportunities for a 2023 PFAS intercomparison study was also discussed.

For Status & Trends, the TRC agreed to pilot a study to consider the inclusion of marine mammals into the program, working with the Marine Mammal Center for opportunistic sampling. ECWG experts expressed concern about cost effectiveness and representativeness for animals (collecting dead, possibly sick animals). Becky clarified for Luisa that necropsies will be conducted that may establish the cause of death, with special attention to immune function. Tom cautioned this would be a difficult matrix to take on and the effort will be closely observed by the ECWG. Eric noted that the advisors supported this effort but emphasized that parties should exercise caution in interpreting the data. The Committee emphasized that the additional collection of fish should be a standard aspect of S&T, always collecting more samples for the archive if possible.

Revisions to the scope and budget of the near field sediment and prey fish pilot effort will be discussed in a later agenda item.

Action Item:

- Plan ahead to be proactive for microplastic consideration for 2030 303(d) list - discuss at MYP Workshop (Jay Davis)

4. Information: RMP Financial Update for 2023 Quarter 1

Melissa Foley opened this item by updating the committee on WQIF Destination Clean Bay. The method used by the RMP to calculate was incorrect, as the federal approved rate is lower than the RMP labor rate. However, changing match throughout the course of the project is allowed. Future S&T activities have been approved as match for the effort, but the RMP will avoid using PFAS projects so they can move forward this year. Tom expressed he was not concerned and appreciated that the RMP can adapt matching contributions which provides flexibility. By design, the RMP should be ready to commit more funds if necessary. Melissa clarified that the RMP is not committing special studies to match at the moment, just S&T. Melissa will stay on the Destination Clean Bay project.

Jay shared with the RMP funding requests from the Sediment Workgroup that were approved via email. \$11K was granted to complete the sediment conceptual model report and \$8.2K to complete the effort of developing the Sediment and Modeling workplan and for updating management questions 3-5. These funds, totaling \$19.2K will come from Undesignated Funds.

Jen Hunt provided the regular financial update for Q1 of 2023. For 2023, 12% of funds have been expended on the year, with invoices being sent out now. The 2023 deficit is \$20K and will be balanced by balances in tasks 1-5 and SEP funds. Jen clarified that the RMP operates on the calendar year while POTW operate on the financial year. However, the RMP does not collect fees in advance. Karin offered to help Jen contact BACWA, with Jen noting that the RMP contact list has recently been updated. The 2022 budget has been 72% expended, with 98% of invoiced fees collected. There is a surplus of \$30k that has been reduced from \$138k in the previous quarter after funding for various projects was approved by the SC. Many subtasks within Tasks 1-5 have been closed. For 2021, 83% of funds have been expended with 99% of invoiced fees collected. For 2020, 93% of the budget has been expended and 100% of fees have been collected. For years 2019 and 2018, both years have had 99% of the budget expended and all fees collected. Jen reported earnings of \$24.2k (2.07% rate) from the Q4 LAIF interest. Jen showed the summary of unbudgeted funds and noted the set-aside funds had been steady in recent quarters. The S&T set aside funds and budget chart has been updated through 2028. The S&T will be withdrawing \$300k in 2023 and contributing \$500k in 2025 and \$25k in 2026. By 2028, there will be a balance of \$1.039 million. There were no requests for encumbrances this quarter.

Jen provided an update on the Local Agency Investment Fund (LAIF) used to manage RMP funds. The LAIF is part of the Pooled Money Investment Account and as of Feb 2023, there is ~ \$5M of RMP funds in the LAIF account. The RMP's current bank is First Republic Bank and it now will keep all balances below the FDIC insured limit. Due to recent bank volatility, the RMP has investigated more about the LAIF account. According to the CA State Treasurer, funds are safe and \$27B invested in LAIF including from the State of CA General Fund. The LAIF prioritizes safety and liquidity over yields and the RMP's funds appear to be safe but are not guaranteed. Jen clarified that the RMP move funds between the LAIF to First Republic to pay bills.

Action Item:

- Let the SC know the final version of matching fund assignments (Melissa Foley)
- Check on whether the \$100K for CECs starts in 2023 or 2024 (Jen Trudeau)

5. Decision: Pursuing WQIF Funding in 2023

Jay introduced the item by asking Luisa to share more about the new pot of funding available from the EPA. Luisa announced that the WQIF will be sizable again this year: \$30 million for new proposals. The RFA will be released in May and be open for two months.

Jay shared that SFEI is going through a process across programs to consider whether it will submit proposals for this round, as SFEI is currently involved in multiple WQIF efforts. As such, there is limited labor capacity. However, Kelly Moran and Becky Sutton of the ECWG have brought together a proposal they would like to submit for funding this year. The first aspect of this project is the development of a stormwater PFAS monitoring program. Acquiring these funds would allow the RMP to accelerate its monitoring work and collect as many samples as possible, at a much higher rate than previously possible. This would really accelerate current PFAS work. Additionally, the RMP's scope does not extend all the way to product research, but this grant would allow the RMP to work from the product side down. The Department of Toxic Substance Control (DTSC)'s Safer Consumer Program is the primary way the State has to address PFAS in products that are associated with either urban runoff or wastewater pollution. Anne-Cooper Doherty told Kelly that PFAS is one of their priorities and there is a strong need to identify the products they should be focusing on to best protect water quality. DTSC is interested in a potential partnership to find this information, enabling the RMP to access their proprietary databases. Otherwise, it would normally be beyond the RMP's financial means to obtain the licenses necessary to access this data. DTSC's ability to do structured queries would allow them to compile and share information with us on chemical content for some classes and sales databases for the Bay Area. DTSC is going to put out a work plan in 2024 so this effort would aim towards their 2027 work plan. The ultimate goal is to produce actionable information to support their decision-making on selecting the products that would be the biggest priorities to protect water quality with the knowledge that they have both PFAS and water quality protection as priorities. The RMP would look for chemical markers in the monitoring data based on the products and locations identified. After conversations with Eric Dunlavey and Mary Cousins, Kelly could entertain the addition of wastewater, as DPR's work in sewers along with past RMP efforts with BACWA show that there are great opportunities to link specific uses and sources. Kelly reiterated that PFAS has been identified as the highest priority of a number of state agencies. This would be a helpful financial supplement to major RMP focus areas and SFEI has capacity to support this work, with the addition of two new hires. Tom noted that availability is not guaranteed but expressed support. Luisa clarified the matching rules; there will be a 50% match, but the RMP cannot match with federal funds. However, equipment, staff time, and contracts are all eligible for match. Luisa inquired if there was any connection to drinking water as drinking water has been the highest priority for the EPA, with most efforts aimed to support the establishment of a methodology and regulatory framework. Kelly stated that the RMP was downstream of drinking water, but the PFAS concentration in RO concentrate is a real issue affecting the potable reuse of wastewater. This also applied to potable reuse of stormwater, urban runoff, and groundwater infiltration. She emphasized this would be

an urban-focused project. Tom stated that the Water Board is responsible for groundwater and cautioned the group about scope creep, questioning how far upstream the RMP should go. He supports this proposal and appreciates Kelly's conversations with Anne-Cooper. Kelly clarified this process would be entirely upstream of the Bay, with the goal of identifying sources possibly through land use or chemical correlations to allow DTSC to identify classes to potentially regulate. Tom asked Kelly to consider adding more analytes in addition to PFAS to look for other factors that may help enhance our understanding. Kelly noted it is possible the RMP might have to develop PFAS specific samplers to work with DTSC's timeline, but does see a way that securing this grant would allow the RMP to add other contaminants in the future. The funds would coincide with the RMP's 2024 funding, which would allow the RMP to augment any study. Luisa and the rest of the group expressed support for the project. Tom noted that there are data that exceed forthcoming PFAS thresholds and that some listings could occur.

Tom noted there was much to be done in the world of sediment (first order conceptual model) and could easily champion the need for meeting sediment data gap study needs. The Committee advised the RMP to be proactive rather than reactive, and plan in advance in case WQIF continues to be funded well. Luisa expects the program funding level to stay level at \$50 million for a while. Luisa hopes to fund science proposals as contracts, while community projects may still be competitive.

Action Item:

- Submit draft proposal to SC for review via email (Kelly Moran, June 30, 2023)
- Plan ahead to be proactive for WQIF in 2024 and beyond - discuss at MYP Workshop (Jay Davis)

Decision:

- Karin North motioned to approve the plan to submit the WQIF proposal to the EPA and use RMP funds as match (piggybacking other analytes if possible). Eric Dunlavey seconded the motion. The motion was carried by all present members.

6. Decision: Stormwater CEC Groundwork Project Budget and Scope Revision

Jay introduced the need for a revision of the budget and scope of the Stormwater CEC Groundwork Project. Kelly Moran of SFEI had been working with a small team of stakeholders and science advisors to adjust the scope of the project. Kelly clarified that the initial proposal was written as a placeholder so the first task had already been to revise the scope and budget. The total budget has not changed, but funds have

been shifted around. Kelly shared that, due to the USGS developing their sampler slowly and going in a different direction, SFEI had to spend more money on developing a remote sampler that fit the needs of the ECWG in addition to issues looking for parts and components. Additionally, there were over 200 flow-gauged sites that fit the criteria of the study, which will be investigated more by science advisors and stakeholders and will require more funds. To accommodate these additions, the modeling work will be moved to next year, but monitoring funds should be available for early release. Tom noted early release of funds was historically used for the wet season. However, this project while yet to be funded is a high priority. The contingency funds built into this effort have been exhausted. Karin stated that there is enough in the Undesignated Funds and that this project can be approved in August. A request to adjust the scope and budget was circulated through email thread on March 14 with approvals from Lisa Austin, Steve Corsi, Rob Budd, Jon Butcher, Derek Muir, Miriam Diamond, Anne-Cooper Doherty, and Tom Mumley.

Action Items:

- Consider early release of groundwork project funds at the August SC meeting (Amy Kleckner, August 8, 2023)

Decision:

- Karin North motioned to approve the adjusted scope and budget of the Stormwater CEC Groundwork Project. Adam Olivieri seconded the motion. The motion was carried by all present members.

7. Decision: Revised Scope for Prey Fish Component of Status and Trends

Jay presented on the near-field sediment and prey fish pilot effort. Currently 12 stations have been budgeted for sediment and fish, which will be sampled concurrently by Marco Sigala. The effort will focus on areas where there is an overlap with near-field wet season water, PCB PMU, and sport fish sampling. At the December meeting, the TRC discussed adding the airport stations. The effort will collect Mississippi silverside or topsmelt as primary indicator species at 12 stations with three composites per station for PFAS analysis. Samples will be archived for potential analysis of other contaminants (e.g., bisphenols, OPEs, other CECs, PCBs). The original draft had a budget in the MYP of \$120K. Following more detailed planning, Jay requested an additional \$31K to fund the inclusion of staghorn sculpin collection at nine stations (1 composite per station, totaling \$19K, with other additional costs of \$12K). Staghorn sculpin had the highest levels of PFAS in a previous prey fish pilot study. An additional request of \$7K was made for analysis of PCBs at PMU stations in San Leandro Bay, which covers an

element of the PCB multi-year plan). The TRC approved of this adjusted scope. Eric noted the addition of the PCB element saves the RMP \$57K in 2025.

Action Items:

- Allocate \$38k from undesignated funds to Task 3023-06-G (Amy Kleckner, Beth Ebiner)

Decision:

- Eric Dunlavey motioned to approve the adjusted scope and budget of the near-field sediment and prey fish pilot. Karin North seconded the motion. The motion was carried by all present members.

8. Break

9. Decision: Process for Consideration of MMP Proposals

Jay introduced this item by identifying the need to standardize the process for considering MMP proposals. Jay proposed that new proposals for MMP funding can go directly to SC but are strongly preferred to be vetted by the TRC first. MMP proposals do not have to be run through workgroups. Tom clarified MMP funds should be used for discrete projects, not just adding funds to complete existing projects.

Action Item:

- Update document for consideration of MMP proposals (Jay Davis, June 15, 2023).

Decision:

- Karin North motioned to approve the revised process for consideration of MMP proposals. Adam Olivieri seconded the motion. The motion was carried by all present members.

10. Decision: Updated SEP List

Based on discussion at the January SC meeting, Jay updated the SEP list by removing outdated items and including NMS studies. Workgroup leads provided further edits. The Emerging Contaminants Workgroup (ECWG) removed the PFAS in SF Bay Seals and NTA in South Bay harbor seals projects as they have now been incorporated into the S&T program. The development of bioscreening thresholds for glucocorticoid receptor cell assay has been removed following SCCWRP's launching of an effort on this. Finally, the efficient extraction of endocrine disruptors from sediments from San Francisco Bay was removed as it is no longer a priority for the ECWG. For the

Microplastics Workgroup, the analysis of microplastics in South Bay sediment cores has been removed as it is currently underway as a pro-bono study.

The PCBWG has removed the second survey of PCBs in prey fish in San Leandro Bay as it has been included in the current S&T prey fish effort. Jay noted the addition of the Napa and Sonoma Sediment Loads effort, which was a Special Study proposal put forth in 2023, but not selected. The SPLWG kept the development of a statistical model for trends evaluation, but will change the content of the previously proposed work and get further feedback at the upcoming SPLWG meeting. Tom proposed an ad hoc project that was previously part of the nutrient work. This project would investigate harmful algal blooms in the Bay. This \$252K effort would build on past work done. The Committee voiced support for this effort.

Decision:

- Adam Olivieri motioned to approve the updated SEP list with the addition of the proposed HAB monitoring project. Amanda Roa seconded the motion. The motion was carried by all present members.

11. Information: Progress on Workgroup Strategy Updates and Additional Planning Guidance to Workgroups

Jay introduced this agenda item by informing the Committee that it would remain a standing item through the remainder of this year as the RMP workgroups update their respective strategy documents.

The Microplastics workgroup held a strategy meeting on March 14 and held a full WG meeting on Monday, April 10, 2023 where they updated their management questions. Current projects overlapping with other workgroups include the Stormwater monitoring (SPLWG, ECWG), Air monitoring (ECWG) and planned future projects with overlap include stormwater monitoring (SPLWG, ECWG) and air monitoring (ECWG). Additionally, a state plastics monitoring strategy and pilot have been planned so the RMP process can inform state activities.

The Emerging Contaminants team held a workgroup meeting on April 19-20, 2023 and expects to finalize their management questions (particularly question four) at these meetings. Current projects overlapping with other workgroups include the SPL monitoring/modeling, in-Bay model and planned future projects with overlap include SPL monitoring/modeling, in-Bay model, air monitoring. Science and Stakeholder (SST) meetings will help integrate EC and SPL strategy (includes selecting near-term MQs

specific to this effort). Introductory strategy revision chapters were shared with the strategy subgroup in mid-March.

The Sources, Pathways, and Loadings (SPL) team will hold a strategy meeting on April 12 with a core group to update management questions with full workgroup meeting days meeting with ECWG on Apr 20, one day on May 23. Current projects overlapping with other workgroups include the CEC stormwater groundwork (ECWG), IWBMS (PCBWG, ECWG, SedWG, MPWG) and planned future projects with overlap include stormwater M&M, WDM application.

The RMP is developing a Stormwater CECs Approach as a cross-workgroup project between the ECWG and SPLWG to address ECWG management questions and support Status & Trends CECs work. This effort currently uses \$250K-\$300K per year of Special Study funds and is overseen by an external advisory group drawn from ECWG & SPLWG (a Stormwater CECs Stakeholder Science Advisor Team (SST)). Monitoring will be piloted in WY 2024 with near-term priority sub-management questions to guide the Approach being discussed at the ECWG/SPLWG joint meeting on Apr 20 with the goal to obtain feedback and finalize. A project update will also be provided at the joint meeting, with the next SST meeting in summer.

The Sediment Workgroup conducted strategy meetings on January 31, 2023 (Part 1. MQ3-5), February 8, 2023 (MQ 1-2), and March 23, 2023 (Part 2. MQ 3-5). A full workgroup meeting is scheduled for May 11, 2023 where management questions will be updated. Current projects overlapping with other workgroups include the In-Bay model (PCBWG), IWBMS (SPLWG) and planned future projects with overlap include the In-Bay model (PCBWG) and WDM applications (SPLWG). The workgroup is currently focused on developing a sediment monitoring & modeling workplan and updating MQs 3-5. Updating MQ 1-2 was put on hold after the strategy meeting with SC members. The workgroup is still considering adding a 3rd advisor. A draft sediment conceptual model report was shared with the workgroup on March 16.

The PCBWG will meet in the beginning of June. Its management questions are currently updated. Current projects overlapping with other workgroups include the In-Bay model (ECWG, SedWG, Nutrients) and IWBMS (SPLWG). Jay noted most of the PCBWG multi-year plan funding is covered by the WQIF and a SEP.

Jay and Amy provided additional context to the Committee about ongoing selenium efforts. Jay reminded the Committee of a proposal to sample selenium in the fall after a wet winter when clams move to the South Bay, but the Committee indicated that this is not a priority to pursue. Robin Stewart is no longer leading the selenium effort at USGS. Karin noted an internal Palo Alto specific study focused on sampling in creeks.

12. Decision: Approval of Rationale for Workgroup Formation/Deactivation

To open this item, Jay highlighted some of the past inactive RMP workgroups. He presented a list of factors to consider when creating/deactivating workgroups such as:

- Addressing unanswered high priority management questions
- Significant, multi-year body of RMP special study work needing peer review of plans and projects,
- Opportunities to influence other funders via a strategic plan to answer priority Bay questions
- Ensuring high quality peer review of RMP studies
- Making good use of science advisors' time
- Distributing workgroup workload (preventing overload).

He noted past moves such as the separation of the Microplastic and Emerging Contaminant workgroups. However, he emphasized that workgroups will not be created unnecessarily, with staff time and effort in mind. Committee members commented that an overall program review was unnecessary because there is consistent high quality peer review of RMP studies.

Action Item:

- Update document (bullet 2) to say how these review processes make it unnecessary to perform an overall program review of the RMP (Jay Davis, June 1, 2023)

Decision:

- Eric Dunlavey motioned to approve the proposed rationale for workgroup formation/deactivation. Karin North seconded the motion. The motion was carried by all present members.

13. Break

14. Discussion: RMP Website Update

Martin Trinh of SFEI provided an update on the RMP website redesign. Following feedback from the SC and TRC, Martin and Tony Hale created a beta version for SC members to review. Martin invited Committee members to provide feedback on text and structural components of the website. Once final feedback has been provided, the new website design will go live. Committee members recommended small tweaks to the current iteration of the design at the meeting, such as grouping calendar events by year

and creating a page for “policies/procedures documents” such as the MMP proposal doc (Agenda Item #9) and the SEP list etc.

Action Items:

- Send email reminders to review the website (best on Thursday afternoons) by the 5/26 deadline (Martin Trinh, May 15, 2023)

Decisions:

- Website will be reviewed by SC after which the new RMP webpages will finalize and launch (Martin Trinh, June 9, 2023)

15. Discussion: Communications

Jay opened discussion to brainstorm ideas for various RMP communication products. In preparation for the upcoming RMP Annual Meeting, the Committee prioritized CECs, nutrients, and a general session for the Annual Meeting sessions. Sediment was also deemed important. There could be two sessions devoted to CECs, with efforts such as the CECs in stormwater screening study, Phase 2 of the BACWA PFAS study, S&T PFAS in fish analysis, and the CEC Strategy revision as possible topics. It was suggested that Amy could give a program update on the RMP, highlighting the wet season sampling effort. This presentation would highlight the flexibility and adaptability of the RMP and could also feature the HAB work. Tom emphasized that a major focus of the talk should be the RMP’s prioritization of CEC monitoring. Tom suggested a presentation on the overall integration of monitoring and modeling within the framework of the WQIF, supporting the RMP’s ability to answer future questions about climate change. He also suggested that the RMP should not be thinking about bacteria or the 303d listing as potential topics. For high profile speakers, Karin suggested someone on the Water Board, and the group supported the idea of Tom presenting a keynote talk given his upcoming retirement. The RMP Update will feature the CECs in stormwater effort.

16. Discussion: Status of RMP Deliverables and Action Items

Amy reviewed the deliverables and action items with the TRC members. The spotlight report for this meeting was recently updated with the 2022 and 2023 deliverables. Amy began by reporting the short-term RMP sample archive purging, Margins Draft Report, Floating Percentile Draft Report, Stormwater Conceptual Model Report - SFEI Contribution #1109 and study design for Special Study: PFAS in Archived Sport Fish had all been recently completed. The Ethoxylated Surfactants in Water report was recently published in the journal Environmental Sciences and Toxicology.

Following with overdue items, she expanded on the PCB In-Bay contaminant modeling report section, for which modeling work began earlier this year with a revised timeline to be developed at PCBWG meeting in June 2023. Sturgeon sampling is currently being conducted for sturgeon selenium monitoring data management. The QA summary report for 2020 S&T activities is nearing completion.

Overdue items scheduled for completion soon include the NB Selenium Clam and Water Data Report (4/30/23), 2020 QA Summary for S&T Activities (3/31/23), and 2021 QA Summary for S&T Activities currently waiting for bird egg data (5/31/23). The CECs stormwater monitoring strategy document has been delayed due to complications in the stormwater groundwork project (2/28/24) while the Sediment Flux Richmond Bridge Data Release will not be moving forward in 2023 as planned due to USGS staffing issues (12/31/24). Tom will speak to the MTC next week.

Projects due before the August SC meeting include final Margins report, the final floating percentile sediment guidelines, the Sunscreen in wastewater technical report, Sediment conceptual model report, S&T QA Reports, North Bay Selenium Report, , and Integrated watershed modeling and monitoring strategy for which a draft is in review and expected to be completed by mid-May.

17. Discussion: Plan Agenda Items for Future Meetings

The main items for the August SC meeting include voting on special study funding, planning the agenda for the MYP workshop, a report on the SFEI financial audit, and Annual Meeting talks. Given the agenda is already full, a technical update from SFEI was deemed optional.

18. Discussion: Plus/Delta

The group commended Amy and SFEI for hosting the hybrid meeting. Both in-person and remote attendees were commended for accommodating the hybrid format and staying flexible. In-person attendees recommended building in more time in the agenda for lunch and other breaks as these breaks can affect meeting efficiency. A point of major emphasis going forward was to ensure that RMP data is not misrepresented and misused by third parties.

Adjourn



Bay RMP Technical Review Committee Meeting

June 20, 2023

Meeting Summary

Attendees

TRC Member	Affiliation	Representing	Present
Yuyun Shang	EBMUD	POTW	Yes
Mary Lou Esparza	Central Contra Costa Sanitary District	POTW	No
Tom Hall	EOA, Inc.	POTW	No
Heather Peterson	City and County of SF	CCSF	No
Anne Hansen Balis	City of San Jose	POTW	Yes
Bridgette DeShields*	Integral Consulting	Refineries	Yes
Chris Sommers	BAMSC (EOA, Inc.)	Stormwater	Yes
Shannon Alford	Port of San Francisco	Dredgers	No
Richard Looker	SF Bay Regional WQCB	Water Board	Yes
Luisa Valiela	US EPA	US EPA-IX	Yes
Ian Wren	Baykeeper	NGOs	Yes
Jamie Rose Sibley Yin	US Army Corps of Engineers	USACE	Yes

Staff and Others

- Jay Davis – SFEI
- Amy Kleckner - SFEI
- Bryan Frueh - City of San Jose
- Tom Mumley – SFBRWQCB
- Gerardo Martinez - SFBRWQCB
- Scott Dusterhoff – SFEI
- Rebekah Lindsay - SFEI
- Diana Lin - SFEI
- Miguel Mendez - SFEI
- Rebecca Sutton - SFEI
- Alicia Gilbreath - SFEI
- Don Yee - SFEI
- Martin Trinh - SFEI

1. Introductions and Review Agenda

Bridgette DeShields opened the meeting with a round of introductions and a brief review of the day's agenda.

2. Decision: Approve Meeting Summary from March 29, 2023, and Confirm/Set Dates for Future Meetings

Bridgette DeShields asked the group for any final comments on the previous meeting's summary. SFEI corrected Chris Sommers' affiliation to BAMSC. Receiving no other comments, Bridgette confirmed the dates for upcoming meetings. The next TRC meeting was confirmed for September 19, 2023 and the end of year TRC meeting was scheduled for December 7, 2023. The Multi-Year Planning Meeting was confirmed for November 1, 2023.

Action Item:

- Correct Chris Sommers' affiliation in March TRC meeting summary (Martin Trinh, July 15, 2023)
- Send out calendar invites for December 7, 2023 TRC meeting (Martin Trinh, July 15, 2023)

Decisions:

- Chris Sommers motioned to approve the meeting summary. Ian Wren seconded the motion. The motion was carried by all present members.

3. Information: SC Meeting Summary from April 26, 2023

Jay Davis went over the notable items from the April Steering Committee meeting, beginning with the financial update from Jen. For the upcoming WQIF 2023 - PFAS proposal, the SC approved the plan to submit the WQIF proposal and use RMP funds as match. The SC also approved the adjusted scope and budget for the Stormwater CEC Groundwork Project, moving the modeling to year two, as well as the adjusted scope and budget of the near-field sediment and prey fish pilot. The revised process for consideration of MMP proposals, updated SEP list with the addition of the proposed HAB monitoring project, and proposed rationale for workgroup formation/deactivation were all approved by the Committee. Other notable topics from the SC meeting, such as the status of incomplete projects, communications products, and website updates were also on the June TRC agenda.

4. Discussion: Presentation of Special Study Proposals Recommended by Workgroups

Jay Davis introduced the item by giving an overview of the budget, and then discussing the extensive coordination happening across workgroups. He continued with a review of the number and type of special studies that were up for consideration, noting that the time during this agenda item should be used to ask technical questions of the proposal authors present at the meeting.

Jay shared that Tan Zi, lead watershed modeler for SFEI, had accepted a position with Alameda County Water District. This will cause a 1 to 2 quarter pause for many of the watershed modeling efforts being conducted by the RMP. SFEI is currently assessing staffing options, including hiring, having recent hires adopt the workload, or working with contractors.

Workgroup leads then briefly outlined each of the 16 proposals, highlighting how each related to other RMP efforts - both proposed or already completed - as well as time-sensitivity. After reviewing the proposals for each workgroup, the TRC members discussed the technical details of the presented studies.

Becky presented six proposals from the ECWG. The primary focus was on stormwater CECs, with a recommended 300K proposal from their SST committee. The proposal aimed to include monitoring, primarily focusing on conceptual model development for specific CECs and establishing a load estimation modeling plan. Notably, the conceptual model development did not require Tan's involvement, and it was emphasized that this proposal would not have an immediate impact on modeling. Year 3 of the Tire and Roadwear Contaminant project was introduced, involving the addition of analytes through the UW lab to finalize data and risk evaluation processes.

There was discussion about addressing concerns regarding existing data, particularly for OPEs, Bisphenols, and other Plastic Additives, which required revising the CECS Strategy due to levels of high concern, along with PFAS. Despite existing surface water data, concerns were raised about the outdated wastewater data. The proposal received strong support from the workgroup, and there was consideration of potential follow-up studies in the Bay.

Another topic of discussion was the PFAS Synthesis and Strategy project. It was highlighted that recent data synthesis and a clear path forward were lacking, and a revision of the document was necessary, incorporating BACWA work and adding onto existing S&T work. The addition of 40 target analytes, including TOP (total oxidizable precursors), was proposed, offering a broader understanding of environmental levels. While sediment analysis was declined, water analysis was approved, and the 2024 sport fish monitoring project was deemed a major element of CECs work.

Richard inquired about the conceptual modeling for WDM and its alignment with Pedro's modeling framework. The relevance of pathways and the allocation of

resources were discussed. The meeting highlighted the budget allocation and the ongoing effort to engage with Pedro and other modelers to ensure an effective conceptual framework.

For Microplastics, Diana Lin introduced the Stormwater Monitoring Pilot, which aimed to enhance methods for field sample collection and analysis, focusing on capturing smaller particles, addressing undercounting in tire wear measurements, and leveraging OPC and SCCWRP parallel sampling. Early fund release for this project was proposed. Year 1 and Year 2 budgets were also outlined for a SEP study focusing on collection methods for microplastics in water and sediment, with questions raised about data compatibility and size distribution.

Scott Dusterhoff of the Sediment Workgroup then introduced a study proposed by Karen Thorne and Jessie Lacy at USGS, which aimed to study sediment accretion rate in marsh restoration sites. The project involved selecting sites based on access, with a timeline spanning over two years, including data collection and release of data. Discussion revolved around funding coordination, USGS QAQC, and the project's compatibility with RMP timelines. Another proposal for Year 3 of a project involving SSC and wave monitoring in South and Lower South Bay was rescoped to include synthesis from tier 3, but not tier 2 sampling. South Bay restoration funded year 1, but could not fund year 2. The project aimed to enhance data robustness for wave monitoring, with budget reallocation discussed for different tiers of monitoring and maintenance work.

Alicia presented five proposals, of which three were intended for ranking and two required higher-level TRC/SC decisions. The first proposal focused on integrated monitoring and modeling of PCBs and mercury, with plans to continue sampling at three locations around the Bay. The second year aimed to complete the dataset, with continued modeling for load estimation, including sensitivity analysis. This work was set to be phased over two years, with \$150K for monitoring and \$66K for modeling in 2024, intended to modify the model for integration with Monte Carlo calibration techniques. The team relied on Tan and his team's expertise for this effort. In the discussion, Luisa raised concerns about time-sensitivity, Richard mentioned Pedro's ongoing engagement with WDM, and further input from Tom and Chris about prioritizing the best model.

It was noted that the last SPLWG two items were not up for consideration in this meeting and would be discussed at a later date with the SC.

The progress of monitoring, which had commenced the previous year, was acknowledged, involving sites like Guadalupe River, ACdMP, and Walnut Creek. There was an emphasis on addressing spatial heterogeneity in the model, with approximately half of the modeling already completed and a plan for 4-6 samples per site over 2-3 years. Luisa emphasized the time sensitivity of this initiative, proposing a monitoring-first approach in the first year, followed by modeling in the second.

Alicia moved on to discuss the Tidal Area Remote Sampler Pilot, which was adapted from an EPA remote sampler. This sampler was designed for tidal areas, aimed at enhancing the ability to sample pollutants in these regions. The project built on carryover from the previous year. Another project discussed was the Dog PCB Detection study, which involved robust planning, scalability, and feasibility considerations in collaboration with WB and permittees. Richard expressed reservations about the project scope, advocating for conducting a pilot project rather than just planning. This led to discussions about the urgency of the project through the MRP and its potential regulatory implications. Chris raised the question of whether the pilot should be conducted by RMP.

For the general RMP, Don described a Remote Sampler Purchase project aimed at supporting CEC efforts. The need for pilot testing and regulatory implications were discussed. Additionally, Watershed Dynamic Model Maintenance (\$50K per year on average) was discussed, with ensuring no overlap with Proposal 1 a primary concern.

Jay introduced the PCBWG projects concerning PCB trend monitoring in PMU Shiner Surfperch and sediment deposition in SLB Intertidal areas, both with significant connections to modeling.

The workgroup strategy budgets were included as integral components for funding.

5. Break

6. Decision: Recommendation for Special Studies for 2023

The process of study prioritization by TRC members was similar to last year, and played out in a smooth and successful manner. With all of the adjustments made to the proposals and the delay of the Tan-dependent modeling proposals, the combined total of the proposals was \$10K under the total planned budget of \$1.628M. Jay suggested moving the \$20K for shiner surfperch to S&T, allowing Don to add PCB analysis (\$14K) and grain size analysis (\$6K) to the Monitoring of Sediment Deposition in San Leandro Bay Intertidal Areas proposal. To address the extra \$10K, Diana proposed moving \$10K from year 2 of the Microplastics Stormwater Monitoring Pilot to year 1.

Decisions:

- The Committee approved the 2024 Special Study list. The motion was carried by all present members.
- The Committee approved the new budgets for the Microplastics Stormwater Monitoring Pilot and Monitoring of Sediment Deposition in San Leandro Bay Intertidal Areas proposals. The motion was carried by all present members.

7. Decision: Update List of RMP Projects Eligible for Supplemental Environmental Project Funding and Recommend Allocation of Existing SEP Funds

Jay discussed the update of the SEP list, specifically the additional projects to recommend to the SC and the identification of funding priorities using MMP funds. The current SEP projects were collected from proposals by workgroups, and studies that did not make the cut for special studies were also considered. Three proposals: Size Distribution of MP in SF Bay, Sediment Loads from Bay Area Watersheds, and Sediment Conceptual Models for Individual Bay Segments were added to the SEP list. Chelsea Rochman will assist Diana with the MP proposal.

Jay noted that Tan's departure led to one proposal (Sediment Load from Bay Area Watersheds Under Future Climate) being pushed to 2025. This proposal will be moved back for 2025 Special Studies consideration instead of being put on the SEP list. The proposal for the Sediment Conceptual Model Report project was brought up, with the explanation that the recently completed project could not accomplish everything, so modular next steps were considered. There was agreement from the TRC, and the project was intended to be part of the sediment workgroup. The meeting also touched upon the importance of having the optimal list of projects and the need to maintain an up-to-date SEP list.

Discussion then moved to watershed modeling and staffing. There were plans to convene a small group to discuss deliverables and necessary work that could not be pushed out. There was interest in the concept of having a standing contract instead of an on-staff modeler for watershed modeling to ensure stability and long-term commitment. Jay highlighted the importance of finding the right person for this role. He mentioned Craig Jones and Pradeep Mugunthan as good examples of successful modelers for other projects. Tom raised concerns about instability with staffing and the need for assurance that progress would continue in a stable manner. The meeting concluded with a commitment to work towards long-term stability in staffing and exploring different models to achieve this goal.

Action Items:

- Update SEP list to include 2024 proposals (Amy Kleckner, July 30, 2023)
- Post updated list to website (Martin Trinh, July 30, 2023)

8. Lunch

9. Discussion: RMP Proposal for Water Quality Improvement Funds

The focus of the proposed project is to address PFAS as a high priority for various stakeholders, including the State of California. The project aims to get ahead of potential future issues related to PFAS.

Kelly expressed gratitude to the Committee members for their support and encouraged open discussion and feedback. The Committee discussed the need for PFAS monitoring data for urban runoff and emphasized the importance of source control as the primary strategy, as treating PFAS would be challenging.

The project's main goal is to provide valuable information for the DTSC Safer Consumer Products Program, which recently received a significant infusion of funds allowing them to expand their staff and conduct more work at a faster pace. The Committee members expressed enthusiasm for the proposal concept and acknowledged the importance of collaboration with DTSC. The proposal involves collaboration with various organizations and disadvantaged communities, with a proposed urban focus. The scope of the grant was still in the conceptual stage, and they aimed to finalize it by early August. Several Committee members volunteered to review the proposal.

The budget and match funding were also discussed. The main challenge lies in the required match funding. Kelly explained that they were exploring options for match funding from various sources, including DTSC, current ongoing projects, and possible partnerships with other entities.

The TRC expressed interest in expanding the scope of the proposal to include other CEC-related products, potentially enabling the inclusion of aligned projects in the grant application. Further discussions and detailed planning would be carried out to finalize the proposal application, ensuring it aligns with the objectives of various stakeholders and regulatory bodies.

Ian Wren volunteered to provide feedback and review of the proposal. The Water Board will play a role and Chris Sommers was recommended as an advisor.

Action Items:

- Distribute the proposal to Ian Wren, Chris Sommers, and the Water Board for review (Kelly Moran, August 15, 2023)

10. Discussion: S&T Monitoring Update and Design

Amy discussed the timing of the RMP S&T activities, particularly focusing on the dry season water sampling, nearfield prey fish and sediment, margins sediment, and marine mammal activities. Amy added she hoped to receive the results soon from the analysis of toxic contaminants during the wet season, but SGS AXYS had not provided a specific timeline for that yet.

For the dry season, the plan is to conduct water sampling at 22 stations distributed across five Bay segments. Out of these, six stations would be fixed, with one located in each subembayment and one in the lower South Bay. The remaining 16 stations would be randomly selected using the GRTS method. This dry season water sampling is scheduled to take place from August 28 to September 1, 2023.

Regarding sediment sampling in the dry season, the RMP was focused on the nearfield Bay sediment. The plan is to collect sediment samples from 12 targeted stations that would overlap with the wet season water sampling locations. The sediment sampling would occur in August with collection by Marco Sigala at SJSURF, and testing for PFAS, bisphenols, TOC, nitrogen, percent solids, and grain size. This sediment sampling was planned for August 2023. The margins Bay sediment effort would sample at 24 stations for the same analytes, also in August. Amy would go into depth for the Deep Bay sediment-sampling plan in the next agenda item, hoping for final approval by the TRC. The Deep Bay Sediment effort would sample up to 17 stations, 4 targeted “historic” stations (1 each from CB/SB/LSB + 1 Pinole Point), and up to 13 random stations (4 CB, 4 SB, 4 LSB). PBDEs will also be sampled here in addition to the aforementioned analytes, after which PBDEs be discontinued.

The discussion also touched on the focus on chemicals of emerging concern (CECs) in the sediment sampling. The group suggested that there was no need to sample at the San Pablo and Suisun stations. Instead, they considered using a hypothetical negative control station, Pinole Point station, to confirm their model's assumption that urban uses drove CECs transport. They wanted to show that a less urban site would have lower CEC levels. This would be logistically feasible and fit within the budget. They discussed the curvature to shoal and decided that the next segmentation would be in 2028.

The RMP planned to address both CECs and legacy contaminants in their sampling efforts. Amy agreed to make sure not to conflict with the planned eelgrass restoration at Pinole. The TRC approved this approach.

For prey fish, the plan is to sample at 12 stations and test for PFAS and ancillary tissue parameters. Topsmelt, Mississippi silverside, and staghorn sculpin will be analyzed for PFAS and archived for potential analysis of bisphenols, OPEs, and other CECs.

Amy mentioned that the Marine Mammal Center had already collected several harbor seal pups for analysis of toxic contaminants, and their work was progressing well.

The draft of the design review report is under review, and still awaiting feedback from advisors.

Decisions:

- The Committee approved the Deep Bay station sampling locations.

Action Items:

- Reach out to Marilyn Latta @ Coastal Conservancy to determine if eelgrass restoration project interferes/overlaps at Pinole Point station (Amy Kleckner, July 30, 2023)

11. Decision: Bay Margins Sediment Survey Design

In this item, Amy gave an overview of the new RMP margin sampling strategy. The plan involves sampling 12 sites every five years, with targeted sites near expected loading areas. She categorized the sites into priority sites and GRTS sites. Priority sites are selected based on interests from various programs, and one specific site per Bay segment is chosen for closer monitoring. GRTS sites are the ones with historical time series that will be revisited for continuity. The design aims to capture signals from near sources. The discussion also explored site distribution concerns and ways to coordinate with the WRMP. Some concerns were raised about the proximity of certain sites, but overall, the plan is designed to improve the understanding of the Bay's ecosystem and contamination levels over time, with consideration given to different Bay segments and programmatic needs. The possibility of adding WRMP sites and more fixed stations for years when legacy contaminants are included was also discussed. The plan intends to strike a balance between random and targeted sampling.

Decisions:

- The Committee approved the Bay Margins Sediment Survey Design.

Action Items:

- Document rationale for station selection (number in each segment and WRMP proximity) in S&T redesign doc and 2023 SAP (Don Yee, July 30, 2023)

12. Discussion: Interlaboratory Comparison Studies for 2023

Don Yee discussed a proposal for comparisons between different laboratories. The focus was on understanding how the labs performed relative to each other in analyzing various contaminants. The primary lab used was AXYS, with Eurofins being considered. Becky noted Eurofins was more expensive but closer geographically, potentially saving on shipping costs. Potential issues with lab performance and pricing were discussed, and a third lab was also suggested. Don mentioned cross-lab validation results from EPA and the possibility of using the same labs for other types of samples like wastewater and stormwater.

The Committee then discussed the need for volunteers to review the Bay margins report, and some members (Richard Looker and Luisa Valiela) volunteered for this task.

Towards the end of the meeting, Don discussed plans for PFAS and grain size analysis. PFAS analysis was prioritized due to EPA's interest, and Don planned to collect and analyze samples from different matrices for the study. He also considered adding grain size analysis to the study using a third lab and hoped to compare results to ensure consistency.

Action Items:

- Price out PFAS analysis for water and sediment vs. water only for two vs. three labs (Don Yee, July 31, 2023)
- Determine the cost of doing a grain size analysis interlab comparison this year (Don Yee, July 31, 2023)

13. Discussion: Communications Update

Jay began this agenda item by discussing the upcoming Annual Meeting and the agenda items that could be included. The meeting started with brainstorming about potential topics, including the annual meeting agenda and updates on the group's new website. The discussion then shifted to the structure of the Annual Meeting agenda, with a focus on potential presentation blocks. The first block discussed was related to the Regional Monitoring Program (RMP), where various topics were suggested, such as long-term perspectives, a presentation by Tom, and updates on the Multi Year Plan and the Program shift towards CECs

The second block centered around nutrients and sediment, although ideas for this block were not fully fleshed out. Suggestions included nutrient modeling work, updates on HAB studies, and possibly the Sand Science report. There was also a focus on CECs with discussions about CEC strategy updates, stormwater studies, PFAS and fish studies, and Bill Arnold's pro bono work on QACs.

Chris Sommers brought up the success of presentations from outside regulatory agencies in the previous year's meeting, particularly DTSC's presentation on PFAS. He suggested having more presentations related to PFAS due to its importance. Chris also mentioned the potential inclusion of microplastics and debris-related topics from DTSC.

The discussion then moved to the format and placement of DTSC's presentation. Suggestions included placing it in the general block or within one of the CEC blocks. The group pondered presenting on how climate change-induced hydrology changes impacted the region, potentially including updates on infrastructure design to handle extreme events. This would align with the theme of using updated science to inform management decisions.

Alicia suggested that the presentation on wet season updates could be a valuable addition, but Tom noted that the data will not be available in time for the Annual Meeting. The idea of having a story about how the changing climate affects the region's hydrology and the responses to it was well-received.

The group aimed to balance updates on ongoing work with new and important developments in the field. The discussion touched on various environmental issues, management challenges, and the use of scientific data to inform decision-making. The item concluded with the suggestion to revisit the agenda items later to finalize and organize the content for the Annual Meeting.

Jay gave an overview of the new RMP website and took suggestions from TRC members.

Action Item:

- List all of the agencies using our data in the data overview tab on the website (Martin Trinh, July 31, 2023)

14. Information: Status of Deliverables and Action Items

Amy reviewed the deliverables and action items with the TRC members. Amy began by reporting the Ethoxylated Surfactants in Water paper had been published in ES&T,

the Toxicology thresholds for EC's "living document" and PFAS & NTA in Marine Mammals study design and sample collection protocol had been shared at the ECWG meeting. The Sunscreens in Wastewater Report has been completed along with the QA Summary report for 2020 S&T activities. For field work, the sturgeon selenium muscle plug samples have been collected and the tidal area remote sampler pilot testing has been completed.

Following with overdue items, she noted that the SLB Recovery from PCB contamination draft report is being written by Stanford. SFEI does have PCB data. Melissa Foley is working on a draft technical report for the 2020 Selenium in North Bay clams and water effort. The 2022 clam results have not arrived, but Michael Weaver has sent Brooks the EDDs for results. The MTC Bay Area land use update continues to be held up as SFEI is still seeking the terms of release from Kearey Smith at MTC. Our contacts at MTC are no longer responsive. The dataset has been brought up to date in areas agreed upon by stakeholders, it has value and others are requesting our version of the updated data. The Integrated watershed modeling and monitoring implementation strategy draft is still in preparation.

Amy proceeded to outline delayed deliverables including the 2021 QA Summary for S&T Activities, which is awaiting bird eggs analysis. The CEC in urban stormwater manuscript and management summary has been delayed until early next year due to the stormwater groundwork project. The Nutrient light attenuation in RS products - technical memo has been delayed as funding from a new WQIF grant (estimated start date: July 2023) will support generating remote-sensed (RS) turbidity/Kd data. Those RS-data will then be analyzed as part of this project. We propose shifting the technical memo due date to Dec 2023, lines up well with the anticipated workflows of both projects, WQIF and SS 2021. Enhances to the DMMO database have been pushed back to September 30, 2023 as ESA is revising the data templates and SFEI is now testing those new templates.

Projects due before the September TRC meeting include the final Margins report and final Floating percentile sediment guidelines that Don is wrapping up. The S&T Dry Season sample collections for Bay, nearfield and margins sediments, Bay and nearfield water, preyfish will be completed by the September meeting. Don will complete the QAPP update by early July. The SPLWG will finish the quantifying stormwater flow and sediment flux to the Bay report by the end of June and Diana Lin will complete the Impact of remediation actions on San Leandro Bay recovery from PCB contamination final technical report at that time as well.

Bridgette applauded Amy's conciseness and appreciated the abbreviated deliverables list now included in the agenda packages in addition to the more detailed spotlight reports.

Action Item:

- Send Margins Report to Richard Looker & Luisa Valiela for feedback (Don Yee, July 31, 2023)
- Follow up with Tony re: a call to Caitlin Sweeney @SFEP for assistance in MTC roadblock (Amy Kleckner, July 31, 2023)

15. Discussion: Plan Agenda Items for Future Meetings

The Annual Meeting and RMP Update will be discussed as well as an update on S&T implementation. The annual calendar will be brought up along with updates on watershed modeling and workgroup strategies and progress. The Committee reiterated the need to compare the planning budget and actual budget as many efforts have shifted into different funding categories.

16. Discussion: Plus/Delta

Overall, the group was commended for their sustained effort and focus throughout the day. The TRC particularly appreciated the efficient recommendation session and Luisa's apricot jam.



DATE: August 15, 2023

TO: RMP Steering Committee

FROM: Jen Hunt, Amy Kleckner, and Sarah Lowe

RE: RMP Financial Update – Period Ending 6/30/2023

The purpose of this memorandum is to provide an update of budgets and expenses for all open RMP budget years and the balances of reserve and designated funds. All of the information presented is for job to date labor and expense billing through June 30, 2023, hereafter referred to as the “current period.”

RMP 2023 Budget

\$1,679,664 of the \$3,865,174 (43%) in 2023 invoiced fees have been collected. 2023 invoices have not been sent out yet. Notes:

1. The full 2023 revenue is \$4,622,374 which includes
 - a. \$400,00 which is a pass through from USACE to USGS
 - b. \$300,000 from set aside funds
 - c. \$57,200 from undesignated reserve
2. In RMP 2023, we are passing \$515,000 in revenue directly through to the NMS to support NMS projects;
3. The full 2023 planned expenses are \$4,622,374 (including the \$400k in item 1 above and \$515k in item 2 above);
4. RMP 2023 has an overall surplus of \$98,024 but this is likely due to the extra \$100,000 in stormwater fees that have not been allocated to a project
5. The total amount invoiced does not include the \$400,000 that will go from USACE to USGS directly;
6. Table 6 showing the outstanding Accounts Receivable for 2023.

The expected fees are the sum of core fees (\$3,435,574) and supplemental fees paid by wastewater agencies (\$329,600) under Water Board Order R2-2016-0018 and updated Order R2-2021-0028 (hereafter referred to as Alternative Monitoring and Reporting funds or AMR funds) and \$100,000 in stormwater fees per the Municipal Regional Permit.

As of June 30, 2023, we are 31% expended on the total budget.

RMP 2022 Budget

\$3,582,765 of the \$3,601,438 (99%) in 2022 invoiced fees have been collected. Notes:

1. The full 2022 revenue is \$4,038,513 and includes \$400,00 which is a pass through from USACE to USGS.
2. In RMP 2022, we are passing \$508,000 in revenue directly through to the NMS to support NMS projects;

3. The full 2022 planned expenses are \$3,688,513 (including the \$400k in item 1 above and \$508k in item 2 above);
4. The total amount invoiced does not include the \$400,000 that will go from USACE to USGS directly;
5. RMP 2022 has an overall surplus of \$17,713. Note that the previous surplus amount was \$137,713. At the November 2022 Steering Committee meeting, the SC authorized usage of \$108,000 of surplus funds to support multiple tasks: 1) \$35k for the Emerging Contaminants Workgroup Strategy update, 2) \$27k for the Microplastics Workgroup Strategy update, 3) \$10.5k for the Sources, Pathways, and Loading Workgroup Strategy update 3) \$35.5k for the Regional Watershed Dynamic Model. In addition, the Steering Committee also authorized up to \$72,000 for additional stormwater sampling during Water Year 2023. As of 3/31/2023, \$12,000 of the \$72,000 has been allocated for additional stormwater monitoring.
6. Table 6 showing the outstanding Accounts Receivable for 2022.

The expected fees are the sum of core fees (\$3,718,033) and supplemental fees paid by wastewater agencies (\$320,480) under Water Board Order R2-2016-0018 and updated Order R2-2021-0028 (hereafter referred to as Alternative Monitoring and Reporting funds or AMR funds).

As of June 30, 2023, we are 78% expended on the total budget.

RMP 2021 Budget

Revenue

\$3,669,589 of the \$3,675,093 (99%) in 2021 invoiced fees have been collected. Notes:

1. The full 2021 revenue is \$4,091,093 and includes \$400,00 which is a pass through from USACE to USGS and \$16,000 from undesignated funds. \$50,000 of RMP 2021 revenue was transferred (deducted from the revenue) from RMP 2021 to Set-Aside Funds for S&T Monitoring and an additional \$74,516 was transferred (deducted from the revenue) to the undesignated reserve. Therefore operating revenue is \$3,966,577;
2. The full 2021 planned expenses are \$3,963,060;
3. During Q1 2022, the dredger invoice amount was determined. This amount was \$5,391 higher than planned. The full revenue amount has been updated in item 1 above.
4. The total amount invoiced does not include the \$400,000 that will go from USACE to USGS directly;
5. Due to the higher than planned dredger revenue, RMP 2021 has an overall net surplus of \$3,677 (was previously a deficit of \$1,800).
6. Table 6 shows the remaining outstanding Accounts Receivable for 2021.

The expected fees are the sum of core fees (\$3,795,792) and supplemental AMR funds paid by wastewater agencies (\$279,301).

As of June 30, 2023, we are 85% expended on the total budget.

RMP 2020 BUDGET

Revenue

\$3,873,720 of the \$3,873,721 (100%) in 2020 invoiced fees have been collected. Notes:

1. The full 2020 revenue is \$3,991,846 which includes \$88,129 from set aside funds for RMP Program Review, \$30,000 from undesignated reserve, and deducts \$275,000 which was transferred to Set-Aside Funds for S&T Monitoring;
2. The total amount invoiced does include the \$400,000 that will go from USACE to USGS directly;
3. The total amount invoiced includes the \$93,196 for Caltrans;
4. The total RMP 2020 local dredger revenues have been calculated at \$82,814, which is lower than the original estimate of \$209,489; and
5. RMP 2020 budgets were adjusted to reflect the lower dredger revenue (reduced multiple budgets by a total of \$53,800) and there remains an overall revenue shortfall of \$18,168.

The expected fees are the sum of core fees (\$3,594,416) and supplemental AMR funds paid by wastewater agencies (\$279,301).

As of June 30, 2023, we are 93% expended on the total budget.

The RMP budget is now planned at \$3,735,014 which results in a deficit of \$18,168. We have closed all of tasks 1-5 and the balance remaining in these tasks is \$203k. After accounting for the \$18k deficit, there's a remaining balance of \$185k in tasks 1-5. We will hold these funds in the RMP 2020 account until we unencumber the entire year.

RMP 2019 BUDGET

Revenue

\$3,459,851 of the \$3,460,087 (99%) in 2019 fees have been collected. SFEI has written off the expected revenue from Marina Dredge Neighbors in the amount of \$200. After accounting for this write off, all 2019 funds have been received. Notes:

1. The full 2019 revenue is \$3,819,850 which includes \$109,762 from undesignated reserve funds;
2. The total amount invoiced does not include the \$250,000 that went from the USACE to the USGS directly.

The expected fees are the sum of core fees (\$3,430,087) and supplemental AMR fees paid by wastewater agencies (\$279,301). There is reduced dredger revenue of \$262,334 (\$150,000 in reduced revenue from USACE and \$112,334 reduced revenue from local dredgers). Due to this lower than expected revenue, the planned 2019 RMP expenses exceeded revenue by \$36,108. At the August 2019 Steering Committee meeting, a decision was made to move \$16,762 from Undesignated Reserve Funds to RMP 2019 and to reduce the RMP 2019 unallocated budget from \$19,346 to \$0. These two changes balanced the RMP 2019 budget.

Expenses

Overall, 95% of the 2019 funds have been spent through June 30, 2023. To date, we are over budget on some tasks by about \$58.7k (\$39.7k on workgroup meetings, \$10k on the water cruise, and \$9k on the Selenium North Bay clam study (these overages were previously approved by the RMP SC)). Through 3/31/2022, we have a positive balance of about \$115.7k on tasks-1-5 (program management tasks). This \$115.7k balance will be needed to cover previous Steering Committee approved overages. We aim to complete remaining tasks on budget and will wait until we are near 100% complete on projects to unencumber funds.

Unencumbrances this Quarter

- There is no request to unencumber at this meeting.

RMP 2018 BUDGET

Revenue

\$3,596,060 of the \$3,596,060 (100%) in 2018 fees have been collected. The expected fees are the sum of core fees (\$3,326,493) and AMR fees paid by wastewater agencies (\$269,575).

Expenses

Overall, 98% of the 2018 funds have been spent. The remaining projects are mostly special studies. For the Status and Trends tasks, most of the remaining expenses are laboratory invoices and data management.

Unencumbrances this Quarter

- There is no request to unencumber at this meeting.

RESERVE FUNDS

Dedicated Set-Aside Funds

The RMP has several dedicated set-aside funds. The purpose of these funds is to spread out the cost of large projects across multiple budget years. In the first quarter of 2022, \$350,000 was transferred to the S&T set aside funds from RMP 2022. The current balance of all set-aside funds is **\$1,077,975**. The current balance of each set-aside fund is shown in Table 2. At the start of CY2023, \$300,000 was withdrawn from this account and moved to RMP year 2023. The historical and projected balance of the S&T Set-Aside Fund is shown in Figure 3.

Dedicated Dredger Reserve Fund

The balance of the Dredger Reserve Fund was reset to zero on January 1, 2018, when new dredger fees took effect. In 2018, there was a \$62,665 credit to the Fund for dredger fees associated with the 6-month “stub year” that was created when the new fee schedule was developed^[1]. There was also a debit of \$109,060 because the local dredger fee payments were below their target for the year. In 2019, 2020 and 2021, there was a dredger revenue reduction due to dredged materials below targets of \$262,334, 209,498, and \$196,757, respectively. Therefore, the balance of the Dredger Reserve is currently **-\$714,984**. Table 3 tracks the running balance of the Dredger Reserve Fund.

Undesignated Funds

The RMP has a policy to maintain a Reserve of Undesignated Funds of at least \$400,000 (this was increased from \$200,000 at the October 2018 Steering Committee meeting) to allow for response to unanticipated funding needs or revenue shortfalls.

Going forward, all RMP earned interest will be deposited directly into Undesignated Funds and will be reported each quarter.

Any remaining Undesignated Funds are available for spending at the discretion of the Steering Committee. Figure 2 shows how the balance of Undesignated Funds has changed over time. The balance of Undesignated Funds through the current period is **\$1,090,064**. Table 4 shows the withdrawals and deposits in the Undesignated Funds during the last two budget years. Q1 2023 LAIF interest was \$34,081 (2.74% interest) and Q2 2023 LAIF interest

was \$38,160 (3.15% interest). At the April 2023 Steering Committee meeting, \$38,000 was authorized to be transferred from the reserve to RMP 2023.

Supplemental Environmental Project (SEP) Funds

The total amount of RMP SEP funds received through the current period is \$3,863,420, which includes \$11,650 of additional funding for project oversight that supported previously completed and closed projects (no change since last reporting period). There are \$80,289 of unallocated SEP (MMP) settlement funds that were previously received and are available.

As of the end of the current reporting period, \$2,645.665 was spent on current and previous SEP projects, which includes 32 projects to date. The current balance of SEP funds is **\$1,229,405** (includes the unallocated funds that have been received and not yet committed to a project). Table 5a summarizes the budget status for current, active SEP projects through this reporting period. Descriptions of the active and approved projects are listed in Table 5b.

FOR STEERING COMMITTEE APPROVAL

- No items for approval.

Figures and Tables

Budget Final and Actuals JTD

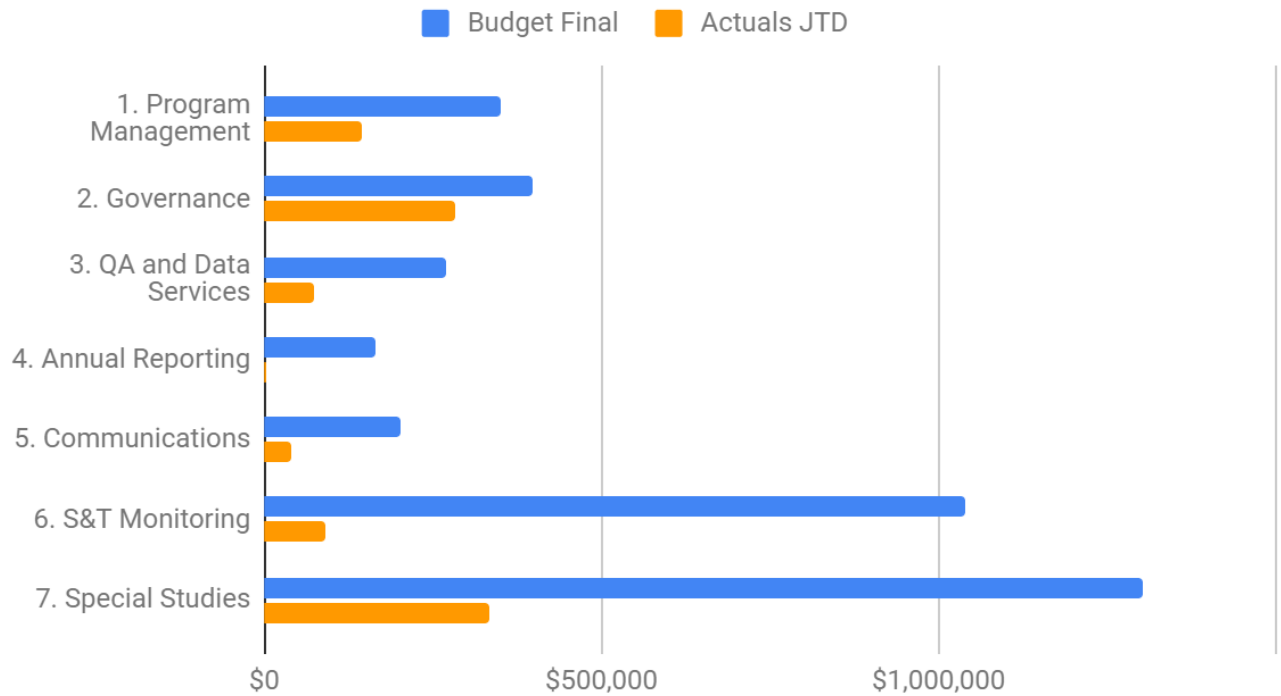


Figure 1 Bay RMP 2023 Budget. Budget and expenses through the current period by category.

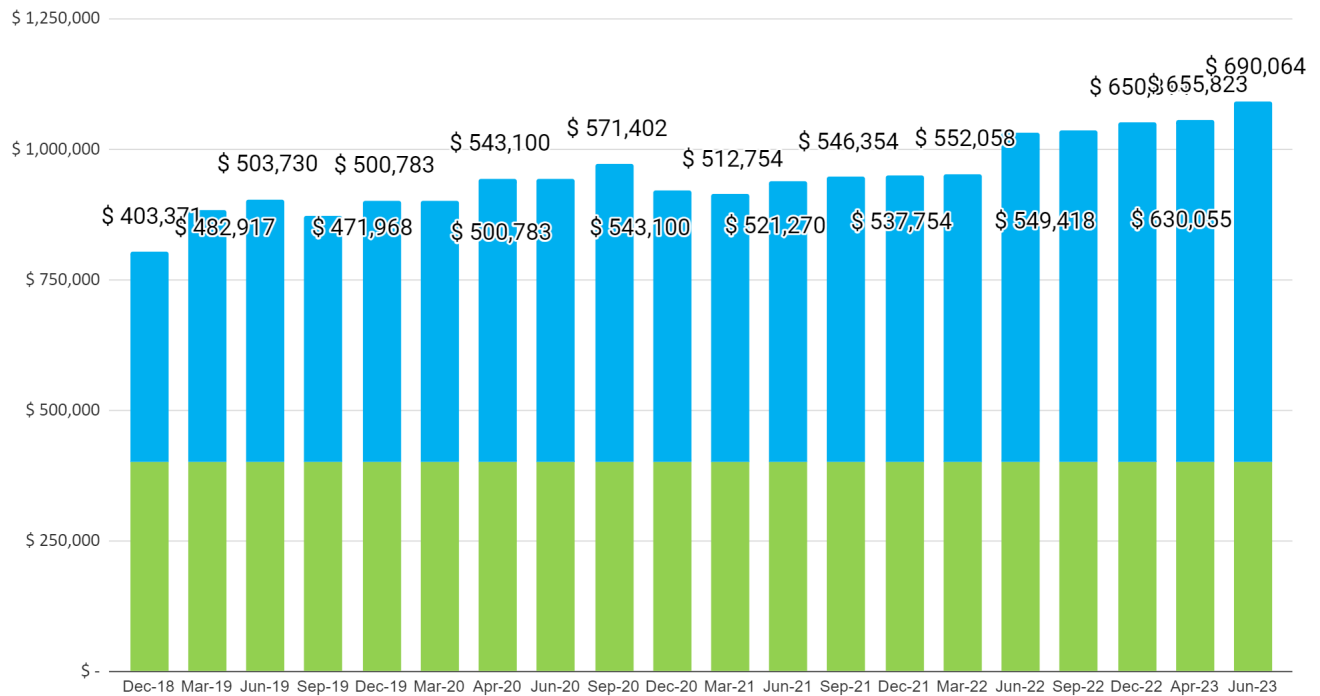


Figure 2: Bay RMP Undesignated Funds Balance over the past three years. The height of the bar shows the total balance of the Undesignated Funds. The bar is color coded to indicate the RMP policy that \$400,000 of the Undesignated Funds should not be spent. Note that prior to December 2018, the RMP policy for restricted Undesignated Funds was \$200,000. The increase to \$400,000 was approved at the October 2018 Steering Committee meeting.

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

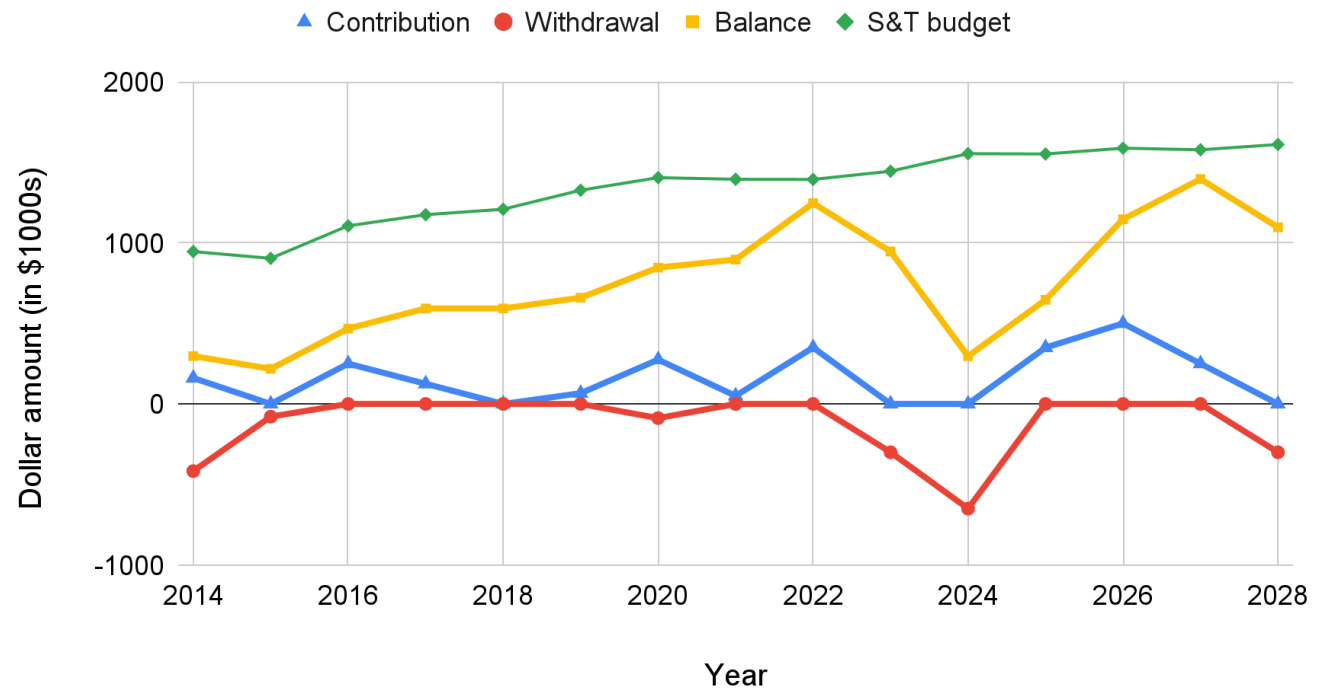


Figure 3. Contributions to and withdrawals from the S&T Set-Aside Fund from 2014 to 2022, anticipated contributions and withdrawals from 2023 to 2028, S&T actual budget for 2014 to 2021, and S&T projected budget for 2023 to 2028.

Table 1a: Bay RMP 2023 Budget: Budget and expenses for active tasks through the current period by line item.

Task	Subtask	Subtask Name	Budget	Expenses JTD	% Complete
Task Number: 001 Program Management	A	Budget and Workplan Development	\$46,000	\$17,475	38%
	B	Contract and Financial Management	\$70,000	\$20,898	30%

Task Number: 002 Governance	C	Technical Oversight	\$71,100	\$35,902	50%
	D	Internal Coordination	\$115,000	\$52,532	46%
	E	External Coordination	\$41,500	\$19,036	46%
	F	Administration	\$7,500	\$0	0%
	A	SC meetings	\$51,000	\$28,335	56%
	B	TRC meetings	\$51,000	\$30,407	60%
	C	General WG meetings (MF, E	\$63,800	\$52,929	83%
	D	External Science Advisors	\$60,000	\$7,015	12%
	E	Emerging Contaminants WG	\$52,000	\$51,615	99%
	F	Microplastic WG	\$13,000	\$13,525	104%
	G	SPLWG	\$44,000	\$42,720	97%

Task Number: 003 QA and Data Services	H	Sediment WG	\$40,000	\$36,571	91%
	I	PCB WG	\$22,000	\$18,666	85%
	A	Quality Assurance System	\$38,200	\$15,769	41%
	B	Online Data Access: CD3	\$73,200	\$9,435	13%
	C	Database Maintenance	\$62,000	\$20,519	33%
Task Number: 004 Annual Reporting	D	Updates to SOPs and Templates	\$43,800	\$17,694	40%
	E	DMMO Database Support	\$52,800	\$11,162	21%
	A	Pulse Report	\$80,000	\$0	0%
Task Number: 005 Communications	B	Annual Meeting	\$85,000	\$2,554	3%
	A	Communications Plan Implementation	\$51,200	\$9,620	19%
	B	Stakeholder Engagement	\$28,000	\$4,008	14%

Task Number: 006 S&T Monitoring	C	Responses to Information Requests	\$22,500	\$4,319	19%
	D	Outreach Products	\$17,000	\$204	1%
	E	Presentations at Conferences and Meeting	\$65,000	\$10,607	16%
	G	RMP Website Maintenance	\$18,800	\$12,944	69%
	A	USGS Sacramento Support	\$0	\$0	#DIV/0!
	B	USGS Menlo Park Support	\$0	\$0	#DIV/0!
	C	Dry season Bay water cruise	\$217,000	\$12,300	6%
	D	Dry season Bay water cruise data mgmt	\$40,000	\$3,746	9%
	E	Wet season water sampling	\$45,000	\$4,597	10%
	F	Wet season water data mgmt	\$15,000	\$3,744	25%
	G	Nearfield and margins sediment & prey fi	\$313,000	\$4,808	2%
	H	Nearfield and margins sed & prey fish da	\$50,000	\$250	0%

	I	S&T Laboratory Intercomparison Studies	\$60,000	\$2,164	4%
	J	Sample archive	\$80,000	\$46,969	59%
	K	S&T Field Sampling Report & Support	\$20,000	\$702	4%
	L	Ambient Bay sediment	\$170,000	\$9,807	6%
	M	Ambient Bay sediment data mgmt	\$30,000	\$374	1%
Task Number: 020 Special Study: PCB In-Bay contaminant mo		Special Study: PCB In-Bay contaminant mo	\$0	\$0	#DIV/0!
Task Number: 021 Special Study: PCBs in sediment and fish		Special Study: PCBs in sediment and fish	\$75,000	\$11,944	16%
Task Number: 022 Special Study: Nutrients Moored sensor h		Special Study: Nutrients Moored sensor h	\$0	\$0	#DIV/0!
Task Number: 023 Special Study: Microplastic Strategy		Special Study: Microplastic Strategy	\$13,000	\$1,622	12%
Task Number: 027 Special Study: STLS Strat. Supp. & Coord		Special Study: STLS Strat. Supp. & Coord	\$35,000	\$13,573	39%
Task Number: 029 Special Study: STLS Regional Model Devel		Special Study: STLS Regional Model Devel	\$130,000	\$47,351	36%

Task Number: 030 Small Tributaries Pollutants of Concern	B	Labs and Subs	\$10,000	\$1,315	13%
Task Number: 031 Special Study: SPL Tidal Area Remote Sam	A	Site planning	\$21,156	\$18,195	86%
	B	Field work	\$31,556	\$9,795	31%
	C	Reporting	\$7,000	\$0	0%
	E	Project management	\$7,000	\$0	0%
Task Number: 032 Special Study: SPLWG Strategy		Special Study: SPLWG Strategy	\$30,000	\$8,443	28%
Task Number: 033 Special Study: EC Strategy Support		Special Study: EC Strategy Support	\$60,000	\$18,847	31%
Task Number: 034 Nontargeted data mining	A	Study Design	\$7,000	\$4,605	66%
	B	Analysis	\$30,000	\$0	0%
	C	Reporting	\$8,000	\$212	3%
Task Number: 035 CEC: Tires Strategy		CEC: Tires Strategy	\$10,000	\$2,616	26%

Task Number: 036 CEC: Groundwork for CEC stormwater	A	Stakeholder Meetings & Project Mgmt	\$49,000	\$25,322	52%
	B	Remote Sampler Pilot	\$101,700	\$49,641	49%
	C	Location Database	\$46,300	\$13,314	29%
	D	Data Analysis of SW Pilot Project	\$53,000	\$24,444	46%
Task Number: 037 Special Study: Tire-related Contaminants	A	Study Des & Sample Collection	\$30,000	\$0	0%
	B	Data Mgmt	\$5,000	\$0	0%
	C	Data Analysis & Report	\$5,000	\$0	0%
Task Number: 038 Spec Stud: EC Ethoxyl Surfact in Water	A	Wastewater Sample Collection	\$8,000	\$2,514	31%
	B	Data Services	\$2,700	\$406	15%
	C	Analysis and Reporting	\$19,300	\$0	0%
Task Number: 039 Spec Stud: SPL SW CECs Strategy Year 2	A	Draft Approach	\$24,000	\$0	0%

	B	Report	\$31,000	\$0	0%
Task Number: 040 Special Study: PFAS and NTA in marine ma	A	Study design and Collection	\$14,500	\$7,245	50%
	B	Data Management	\$4,000	\$0	0%
	C	Analysis and Reporting	\$97,000	\$240	0%
Task Number: 042 Special Study: Suspended Sediment in LSB		Special Study: Suspended Sediment in LSB	\$52,000	\$12,444	24%
Task Number: 043 Sediment WG Workplan		Sediment WG Workplan	\$18,200	\$19,768	109%
Task Number: 044 Special Study: Sediment Flux Richmond Br		Special Study: Sediment Flux Richmond Br	\$70,000	\$0	0%
Task Number: 045 Special Study: Sediment Delivery to Mars		Special Study: Sediment Delivery to Mars	\$135,000	\$0	0%
Task Number: 046 PFAS in fish	A	Analysis and Reporting	\$32,500	\$16,789	52%
Task Number: 047 Sediment Modeling (\$11k to for 3300/21E)		Sediment Modeling (\$11k to for 3300/21E)	\$11,000	\$12,695	115%
Task Number: 031 Special Study: SPL Tidal Area Remote Sam	D	Sampler Development	\$18,288	\$9,722	53%

Table 1b: Bay RMP 2022 Budget: Budget and expenses for active tasks through the current period by line item.

<i>Task</i>	<i>Subtask</i>	<i>Subtask Name</i>	<i>Budget</i>	<i>Expenses JTD</i>	<i>% Complete</i>
Task Number: 001 Program Management	A	Budget and Workplan Development	\$44,300	\$42,445	96%
	B	Contract and Financial Management	\$105,200	\$79,226	75%
	E	External Coordination	\$42,800	\$39,116	91%
	F	Administration	\$7,000	\$1,628	23%
Task Number: 002 Governance	A	SC meetings	\$54,500	\$50,918	93%
	B	TRC meetings	\$55,700	\$45,448	82%
	D	External Science Advisors	\$60,000	\$22,244	37%
Task Number: 004 Annual Reporting	A	Pulse Report	\$129,000	\$78,062	61%
Task Number: 005 Communications	A	Communications Plan Implementation	\$47,100	\$30,173	64%

Task Number: 006 S&T Monitoring	B	Stakeholder Engagement	\$27,000	\$26,315	97%
	C	Responses to Information Requests	\$20,700	\$18,606	90%
	B	USGS Menlo Park Support	\$0	\$0	#DIV/0!
	C	Winter StormWater	\$107,000	\$55,770	52%
	D	Winter StormWater Data Mgmt	\$20,000	\$16,117	81%
	E	S&T Bivalves	\$20,000	\$775	4%
	F	N Bay Se Mon DataMgt	\$30,000	\$6,397	21%
	G	North Bay Selenium Monitoring	\$97,000	\$54,310	56%
	H	Dry season Bay water cruises	\$25,000	\$3,439	14%
	I	S&T Laboratory Intercomparison Studies	\$22,000	\$5,162	23%
	J	Sample archive	\$43,000	\$40,486	94%
	K	S&T Field Sampling Report & Support	\$10,000	\$4,575	46%

Task Number: 023 Special Study: Microplastic Strategy		Special Study: Microplastic Strategy	\$37,000	\$14,504	39%
Task Number: 027 Special Study: STLS Strat. Supp. & Coord		Special Study: STLS Strat. Supp. & Coord	\$45,500	\$37,149	82%
Task Number: 029 Special Study: STLS Reg. Model Devpmt.		Special Study: STLS Reg. Model Devpmt.	\$125,500	\$110,072	88%
Task Number: 030 Small Tributaries Pollutants of Concern	E	Labs and Subs	\$55,000	\$21,235	39%
Task Number: 031 PCB monitoring at GE property		PCB monitoring at GE property	\$21,200	\$1,507	7%
Task Number: 032 AQUA-GAPS passive sampler		AQUA-GAPS passive sampler	\$10,000	\$0	0%
Task Number: 034 Special Study: EC in Urban Stormwater	A	Stormwater Sampling	\$33,000	\$4,909	15%
	C	Analysis and Reporting	\$62,000	\$13,868	22%
Task Number: 035 CEC modeling exploration		CEC modeling exploration	\$25,000	\$19,670	79%
Task Number: 037 Spec Stud: EC Tire-related contam in Bay	A	Study Des & Smples Collection	\$27,993	\$21,230	76%
	B	Data Mgmt	\$12,007	\$12,007	100%

Task Number: 038 Spec Stud: EC Ethoxyl Surfact in Water	C	Data Analysis & Report	\$10,000	\$0	0%
	A	Project Management	\$2,509	\$0	0%
	B	Data Services	\$3,500	\$0	0%
	C	Analysis and Reporting	\$12,100	\$0	0%
	D	Laboratory analysis	\$11,891	\$9,337	79%
Task Number: 039 Spec Stud: SPL SW monitor strat for CECs		Spec Stud: SPL SW monitor strat for CECs	\$50,000	\$22,549	45%
Task Number: 044 Special Study: Upload Data to DMMO		Special Study: Upload Data to DMMO	\$20,000	\$183	1%
Task Number: 045 Special Study: Sediment Temp variability		Special Study: Sediment Temp variability	\$155,000	\$132,859	86%
Task Number: 001 Program Management	C	Technical Oversight	\$66,500	\$71,802	108%
	D	Internal Coordination	\$98,200	\$98,221	100%
Task Number: 002 Governance	C	General WG meetings (MF, E	\$58,000	\$50,425	87%

	E	Emerging Contaminants WG	\$46,000	\$45,938	100%
	F	Microplastic WG	\$11,500	\$11,358	99%
	G	SPLWG	\$28,800	\$34,840	121%
	H	Sediment WG	\$40,300	\$42,518	106%
	I	PCB WG	\$17,300	\$17,831	103%
Task Number: 003 QA and Data Services	A	Quality Assurance System	\$36,100	\$35,689	99%
	B	Online Data Access: CD3	\$69,100	\$72,051	104%
	C	Database Maintenance	\$63,800	\$63,799	100%
	D	Updates to SOPs and Templates	\$36,100	\$36,077	100%
	E	DMMO Database Support	\$49,900	\$61,899	124%
Task Number: 004 Annual Reporting	B	Annual Meeting	\$70,000	\$59,344	85%

Task Number: 005 Communications	D	Outreach Products	\$12,700	\$13,177	104%
	E	Presentations at Conferences and Meeting	\$59,200	\$49,537	84%
	G	RMP Website Maintenance	\$17,300	\$17,589	102%
Task Number: 006 S&T Monitoring	A	USGS Sacramento Support	\$0	\$0	#DIV/0!
Task Number: 020 Special Study: PCB In-Bay contaminant mo		Special Study: PCB In-Bay contaminant mo	\$56,000	\$57,550	103%
Task Number: 021 PCBs in sediment and fish SS/RC		PCBs in sediment and fish SS/RC	\$52,000	\$52,006	100%
Task Number: 022 Special Study: Nutrients Moored sensor h		Special Study: Nutrients Moored sensor h	\$0	\$424	#DIV/0!
Task Number: 030 Small Tributaries Pollutants of Concern	B	Field Work	\$0	\$0	#DIV/0!
Task Number: 033 Special Study: EC Strategy Support		Special Study: EC Strategy Support	\$125,000	\$124,337	99%
Task Number: 034 Special Study: EC in Urban Stormwater	B	Data Management	\$5,000	\$4,992	100%
Task Number: 036 Spec Stud: MPWG RMP Tire Strategy		Spec Stud: MPWG RMP Tire Strategy	\$25,500	\$25,443	100%
Task Number: 043 Sediment WG Workplan		Sediment WG Workplan	\$10,000	\$10,002	100%

Task Number: 046 PFAS in fish	A	PFAS in fish	\$11,500	\$11,001	96%
	B	Data Management	\$10,500	\$10,993	105%

Table 1c: Bay RMP 2021 Budget: Budget and expenses for active tasks through the current period by line item.

<i>Task</i>	<i>Subtask</i>	<i>Subtask Name</i>	Budget	Expenses JTD	% Complete
Task Number: 006 S&T Monitoring	D	2021 Water Cruise Data Mgmt	\$35,000	\$27,703	79%
	E	Bird Egg Sampling	\$226,000	\$66,534	29%
	F	2021 Bird Egg Data Mgmt	\$30,000	\$1,554	5%
	G	North Bay Selenium Monitoring	\$73,316	\$74,190	101%
	I	S&T Laboratory Intercomparison Studies	\$28,000	\$13,423	48%
	J	Sample Archive	\$84,000	\$74,542	89%
	K	S&T Field Sampling Report & Support	\$12,000	\$5,021	42%
			\$39,000		
Task Number: 021 Special Study: PCB Remediation Monitorin	C	Labs	\$39,034	\$27,206	70%
	D	Reporting	\$12,830	\$6,203	48%
Task Number: 026 Special Study: STLS Integrated Conceptua		Special Study: STLS Integrated Conceptua	\$49,640	\$44,828	90%
Task Number: 030 Special Study: STLS WY20 POC Recon Monit	B	Field Work	\$16,359	\$6,337	39%
	C	Data Management	\$44,203	\$42,952	97%
Task Number: 035 Special Study: Toxicology Strategy		Special Study: Toxicology Strategy	\$60,000	\$56,762	95%

Task Number: 046 Special Study: DMMO Database Enhancement	Special Study: DMMO Database Enhancement	\$40,000	\$4,641	12%
		\$220,000		
Task Number: 048 S&T RMP Prog Rev	S&T RMP Prog Rev	\$130,689		59%
Task Number: 049 Special Study: Microplastics Sed Core	Special Study: Microplastics Sed Core	\$3,500	\$1,489	43%

Table 1d: Bay RMP 2020 Budget: Budget and expenses for active tasks through the current period by line item.

<i>Task</i>	<i>Subtask</i>	<i>Subtask Name</i>	<i>Budget</i>	<i>Expenses JTD</i>	<i>% Complete</i>
Task Number: 006 S&T Monitoring	E	2020 N Bay Margins Sediment Mon FieldWk	\$220,600	\$215,849	98%
	I	S&T Laboratory Intercomparison Studies	\$37,000	\$29,986	81%
	K	S&T Field Sampling Report & Support	\$23,000	\$4,861	21%
Task Number: 041 Special Study: Selenium N.Bay Clam&Water	A	Planning & field work	\$77,050	\$76,022	99%

Table 1e: Bay RMP 2019 Budget: Budget and expenses for active tasks through the current period by line item.

<i>Task</i>	<i>Subtask</i>	<i>Subtask Name</i>	<i>Budget</i>	<i>Expenses JTD</i>	<i>% Complete</i>
Task Number: 035 Special Study: EC Ethoxylated Surf. Stud	A	Sample Collection and Reporting	\$98,300	\$68,153	69%
	B	Data Management	\$24,700	\$12,949	52%

Table 1e: Bay RMP 2018 Budget: Budget and expenses for active tasks through the current period by line item.

Table 2: Bay RMP Dedicated Set-Aside Funds. Balances as of the current period.

Reserve Type	Purpose	Balance
Dedicated Set-Aside Fund	Monitoring Contingency	\$50,000
Dedicated Set-Aside Fund	S&T Monitoring	\$1,027,975
	TOTAL	\$1,077,975

Table 3: Bay RMP Dedicated Dredger Reserve Fund. Yearly surplus (deficit) and total surplus (deficit) as of the current period. Note that the previous running surplus/deficit was reset to \$0 in 2018.

Year	Yearly Surplus/Deficit	Balance
Starting Balance from “Stub Year”		\$62,665 (received) \$62,665 (total)
2018	-\$109,060	-\$46,395
2019	-\$262,334	-\$308,729
2020	-\$209,498	-\$518,227
2021	-\$196,757	-\$714,984

Table 4: Bay RMP Undesignated Funds. Withdrawals and deposits during the last two budget years and total balance as of the current period.

Budget Year	Deposit or Withdrawal	Reserve Type	Purpose	Authorization	Date of Authorization	Amount	Include	Comment
2022	Deposit	Undesignated Funds		Program Manager	3/31/2022	\$3,481		Q1 2022 LAIF interest

2022	Deposit	Undesignated Funds		Program Manager	6/30/2022	\$6,015		Q2 2022 LAIF interest
2022	Deposit	Undesignated Funds		Program Manager	9/30/2022	\$14,744		Q3 2022 LAIF interest
2023	Withdrawal	Undesignated Funds		Steering Committee	2/23/2023	-\$8,200		\$8,200 withdrawal from undesignated funds approved by SC on 2/23/23 allocated for 3023-43
2023	Withdrawal	Undesignated Funds		Steering Committee	2/23/2023	-\$11,000		\$11,000 withdrawal from undesignated funds approved by Tom/SC on 3/21/23 to be allocated to RMP project task XXXX to support the completion of the SEP project 3300-21E

2022	Deposit	Undesignated Funds		Program Manager	12/31/2022	\$24,209		Q4 2022 LAIF interest
2023	Withdrawal	Undesignated Funds		Steering Committee	4/26/2023	-\$38,000		\$38k withdrawal from undesignated funds approved by SC for 3023 006 G for fish/sed
2023	Deposit	Undesignated Funds		Program Manager	3/31/2023	\$34,081		Q1 2023 LAIF interest
2023	Deposit	Undesignated Funds		Program Manager	3/31/2023	\$38,160		Q2 2023 LAIF interest

Table 5a: Bay RMP Supplemental Environmental Project (SEP) Settlement Funds budget status for open, current projects or projects that ended within the last quarter. Listed are the amount of funds received and allocated to specific projects, the amount spent through the end of this reporting period, and the amount of unallocated funds available for this reporting period. The RMP maintains records of each settlement payment in their accounting system.

Active RMP SEP Projects	Amount Funded	Amount Spent	SEP Project Balance
Task 012: PCB Shiner Surfperch PMU Survey	\$59,752	\$59,712	\$40
Task 014: Quantifying Stormwater Flow and Sediment Flux to the Bay	\$385,000	\$378,480	\$6,520
Task 015: North Bay Selenium Clam and Water Data Management and Reporting	\$40,000	\$38,211	\$1,790
Task 016: Sunscreen in Wastewater	\$36,500	\$36,462	\$38
Task 019: ECWG Special Study 2020 Q_Ammonium Compounds Survey	\$58,200	\$33,775	\$24,425
Task 023: Integrated Watershed-Bay Modeling Strategy and Pilot Implementation	\$200,000	\$63,957	\$136,043
Task 024: Regional Watershed Spreadsheet Model Update	\$23,300	\$569	\$22,731
Task 026: Characterizing Per- and Polyfluoroalkyl Substances (PFAS) and Chlorinated Paraffins in San Francisco Bay Sediment	\$106,150	\$5,571	\$100,579
Task 027: High speed mapping of water quality parameters on the eastern shoal of South San Francisco Bay	\$184,470	\$131,707	\$52,763
Task 028: San Francisco Bay Sediment Transport and Fate Modeling	\$408,000	\$26,577	\$381,423
Task 029: PFAS in Archived Sport Fish Manuscript	\$25,500	\$9,119	\$16,381
Task 030: Non-targeted Analysis (NTA) Sediment Data Manuscript	\$37,600	\$1,767	\$35,833
Task 031: Investigating harmful algal blooms in San Francisco Bay: priority data, model development/application, and synthesis	\$252,300	\$0	\$252,300
Task 032: Temporal Variability in Sediment Delivery to a North & Central SF Bay Salt Marsh	\$118,250	\$0	\$118,250
Unallocated	\$80,289	\$0	\$80,289
Total for above active projects and unallocated funds	\$2,749,322	\$1,519,917	\$1,229,405
Total for all SEP Projects	\$3,863,420	\$2,645,665	\$1,229,405

Table 5b: Active Bay RMP Supplemental Environmental Project Descriptions

Study Name	Budget	Description	Status
Task 012 PCB Priority Margin Unit (PMU) Surfperch Survey	\$59,752	Conceptual site models for PCBs in priority margin units have been developed for the Emeryville Crescent and San Leandro Bay. The San Leandro Bay model was supported by an intensive field study. These conceptual site models identified shiner surfperch as a crucial indicator of impairment in these areas, due to their explicit inclusion as an indicator species in the TMDL, their importance as a sport fish species, their tendency to accumulate high concentrations, their site fidelity, and other factors. The conceptual site models recommend periodic monitoring of shiner surfperch to track trends in the PMUs, and as the ultimate indicator of progress in reduction of impairment. Shiner surfperch and other sport fish species will be monitored in 2019 as part of RMP Status and Trends (S&T) monitoring. A coordinated sampling of PCBs in shiner surfperch in four PMUs is proposed as an add-on to the 2019 S&T sport fish sampling. This coordination will yield significant savings in data management and reporting, because these results can be easily added to the S&T activities with negligible additional cost. In addition, a dataset for shiner surfperch will be obtained that is directly comparable across the four PMUs and the five locations that are sampled in S&T.	Approved
Task 014 Quantifying stormwater flow and sediment	\$385,000	Information on urban storm water flow, either measured or estimated using modeling, is fundamental to policy development, planning and environmental management and supports drainage engineering, pollutant loading estimates, and models of transport and fate of pollutants. In the Bay Area, the majority of flow data have been collected by the USGS and partner flood control and water supply agencies in less urbanized larger watersheds mainly in support of flood risk analysis, the operation of water supply systems, and riparian flows for fish and wildlife. Presently there are 12 watershed being gauged by USGS and six others being gauged by flood control and water district staff or consultants to support these issues. Flow data are not being collected in the smaller highly urban watersheds that fringe the Bay that have rainfall-runoff characteristics that are distinctly different to larger non-urban watersheds. This project aims to fill these data gaps.	Approved

Study Name	Budget	Description	Status
Task 015 North Bay Selenium Clam and Water Data Management and Reporting	\$40,000	The goal of the study is to provide data quality assurance, data management, and preparation of a data report for clam and water selenium monitoring conducted by the Regional Monitoring Program for Water Quality in San Francisco Bay (RMP) in North San Francisco Bay. This monitoring is being conducted by the RMP in support of the North Bay Selenium TMDL. This study will cover clam and water selenium data generated by RMP monitoring in 2019 and 2020.	Approved
Task 016 Sunscreens in Wastewater	\$36,500	Recent qualitative work has indicated the presence of one sunscreen active ingredient, oxybenzone, in Bay water and wastewater effluent. Oxybenzone and other sunscreen active ingredients have been shown to cause adverse effects, such as endocrine disruption in fish and bleaching on coral reefs. The City of San Francisco is considering a resolution to examine the occurrence and potential impacts of some of these compounds. This sunscreen screening study will help assess whether they may be a potential concern for the Bay.	Approved
Task 019 ECWG Special Study 2020 Quaternary Ammonium Compounds Survey	\$58,200	<p>Quaternary ammonium compounds (QACs) are surfactants widely used in a variety of consumer products, particularly as antimicrobials. The current COVID-19 pandemic is thought to have increased use of products containing QACs, which is expected to continue into the near future. QACs have been detected in San Francisco Bay sediment, and are considered Possible Concern within the RMP tiered risk-based framework for emerging contaminants in the Bay.</p> <p>This ECWG special study will determine the concentrations of at least 22 QACs in Bay Area wastewater influent and effluent and begin to assess the temporal trends related to COVID-19.</p>	<p>Approved</p> <p>Started 7/2020</p>
Task 023: Integrated Watershed-Bay Modeling Strategy and Pilot Implementation	\$200,000	This project will produce and implement a strategy that integrates, links, and advances modeling tools to evaluate transport and loading of pollutants and sediment to San Francisco Bay from its tributary watersheds and other sources and pathways, and to evaluate the fate and transport of the resulting exposure of the pollutants in the Bay. Currently available models include watershed and Bay dynamic simulation models, watershed spreadsheet models, food web models, and mass balance conceptual box models of the Bay and Bay margins. Integrated use of these modeling tools and monitoring data will provide improved understanding of the linkages between ecosystem components and will better answer management questions to inform preventive and corrective actions for pollutants of concern, including contaminants of emerging concern, and management of sediment sources and supply needed for sea level rise resilience and adaptation, and habitat protection and restoration.	<p>Approved</p> <p>Started 6/2021</p>

Study Name	Budget	Description	Status
Task 024: Regional Watershed Spreadsheet Model Update	\$23,300	<p>The Regional Watershed Spreadsheet Model (RWSM) was developed to estimate average annual regional and sub-regional scale pollutant loads to San Francisco Bay from stormwater runoff. It is part of a class of deterministic empirical models based on the volume-concentration method. In the Bay Area, it has so far been used for providing first approximations of regional (Baywide) and sub-regional (e.g., individual county, Bay segment, or priority margin unit) estimates of PCBs, mercury, copper, nutrients, and microplastics.</p> <p>The model will be recalibrated for flow using a new calibration period (1991-2020) and updated land use data to be published by the Metropolitan Transportation Commission in March 2021. The recalibrated flow model will be used to improve the model calibration and load estimates for mercury and one or more other pollutants.</p>	<p>Approved</p> <p>Started 6/2021</p>
Task 026: Characterizing Per- and Polyfluoroalkyl Substances (PFAS) and Chlorinated Paraffins in San Francisco Bay Sediment	\$106,150	<p>This study will assess PFAS concentrations in San Francisco Bay sediment samples to improve our understanding of the occurrence and risks associated with PFAS in the Bay. Sediment samples collected throughout the Bay in 2018 and archived for the Status and Trends (S&T) Program will be analyzed, as well as a subset of samples expected to be collected in 2023 to provide information on current status. PFAS will be analyzed via targeted methods using tandem liquid chromatography/mass spectrometry (LC-MS/MS), and may also include analysis via the total oxidizable precursors (TOP) assay, which allows characterization of the overall presence of precursors rather than individual PFAS.</p>	<p>Approved</p> <p>Started 4/2022</p>
Task 027: High speed mapping of water quality parameters on the eastern shoal of South San Francisco Bay	\$184,470	<p>This study will conduct high speed mapping of water quality parameters covering the eastern shoals of South San Francisco Bay (monthly) over 4 months. The mapping surveys will include information about water quality, nutrients, phytoplankton, and near-field remote sensing of high spatial resolution on the shoals and into the channels.</p> <p>The results will provide a quantitative understanding of phytoplankton and nutrient dynamics on the shoals and how they link to nutrient cycling processes in the channels of San Francisco Bay.</p>	<p>Approved</p> <p>Started 7/2022</p>
Task 28: San Francisco Bay Sediment Transport and Fate Modeling	\$408,000	<p>This project will produce a foundational quantitative model of sediment transport and fate in San Francisco Bay that can be used to address management questions for polychlorinated biphenyls (PCBs), nutrients, and sediment.</p> <p>The study will have four major elements:</p> <ol style="list-style-type: none"> 1. Compilation of existing information on (a) sediment loadings and boundary conditions and (b) sediment properties and parameters in San Francisco Bay; 2. Diagnostic analysis of sediment transport and fate model 	<p>Approved</p> <p>Started 9/2022</p>

Study Name	Budget	Description	Status
		<p>development;</p> <p>3. Application of the model to answer management questions for PCBs, nutrients, and sediment supply; and</p> <p>4. Coordination among the scientists working on the multiple facets of this effort and the stakeholders (including Regional Water Board staff) providing guidance via San Francisco Bay Regional Monitoring Program and Nutrient Management Strategy workgroups.</p>	
Task 029: PFAS in Archived Sport Fish Manuscript	\$25,500	<p>This funding request would support SFEI staff to prepare a draft manuscript from a 2022 RMP study to examine archived samples of four fish species from previous RMP sport fish sampling events in 2009, 2014, and 2019 across subembayments. Publishing this work in a peer-reviewed journal is important to add to the growing body of literature regarding PFAS in fish and widely increase the reach of the important studies done by the RMP.</p> <p>In coordination with this manuscript, an additional communication supplement is recommended to highlight this work at the SETAC Conference in Europe in May. This would include costs for attendance as well as creation of a poster synthesizing the findings of the report/manuscript, modeled after previous RMP conference posters. This effort further aids in improving the audience informed of our work while building on peer networking and partnership opportunities globally.</p>	<p>Approved</p> <p>Started 1/2023</p>
Task 030: Non-targeted Analysis (NTA) Sediment Data Manuscript	\$37,600	<p>This SEP funding supports the development of a manuscript that would report on non-targeted techniques to examine both nonpolar and polar contaminants in Bay sediment using data reported from a 2018 RMP study lead by Lee Ferguson at Duke and Eunha Hoh at San Diego State University. SFEI staff will use the data provided by the 2018 study to further assess the distribution patterns, pathway influences, potential compound sources, and available toxicity information to inform prioritization. In addition SFEI will develop a 2-page fact sheet to describe the results and their implications modeled after past RMP fact sheets for non-targeted analysis.</p>	<p>Approved</p> <p>Started 1/2023</p>

Study Name	Budget	Description	Status
Task 031: Investigating harmful algal blooms in San Francisco Bay: priority data, model development/application, and synthesis	\$252,300	In August 2022, SFB experienced its first severe harmful algae bloom (HAB) event, with a large-scale bloom of the organism <i>Heterosigma akashiwo</i> resulting in unprecedented water quality impacts in South Bay and other regions, including widespread fish mortality. The recent SFB monitoring program investments allowed a team of regional scientists (SFEI, USGS, UCSC) to quickly mobilize and intensively track the HAB event, yielding valuable datasets (field surveys; in situ measurements using water quality moorings; remote sensing) and samples (preserved/archived) that are essential for understanding the factors that initiated and shaped this HAB event. In this study, SEP funds will be used to support a range of activities related to understanding the August 2022 HAB event, including: analysis of physical forcing data (sunlight, wind, tides); analysis of water quality datasets from ship-based, mooring, and remote-sensed measurements (nutrients; phytoplankton abundance; dissolved oxygen; suspended sediments; etc.) to characterize how conditions varied spatially and temporally over the course of the event; analysis of archived samples collected during or in the lead-up to the event for molecular/DNA related parameters (e.g., sequencing to characterize phytoplankton, grazers, bacteria, viruses); application of numerical models to quantitatively explore coupled transport/transformation hypotheses; and numerical simulations to explore how potential management actions (e.g., nutrient load reductions to SFB) could lower the risk of similar events in the future.	Approved (New)
Task 032: Temporal Variability in Sediment Delivery to a North & Central SF Bay Salt Marsh	\$118,250	This study will investigate the influence of tides, waves, and water levels on sediment delivery and deposition on two tidal marshes in North and Central San Francisco Bay. The project will include measurements of suspended sediment concentration (SSC) and suspended sediment flux in the shallows adjacent to the marshes, SSC at long-term tidal creek stations, deposition and accretion on the marshes, and the variation in deposition with elevation and vegetation density and type. Data will be collected in 2023 and analyzed and reported by fall 2024. Study results will inform shoreline and tidal marsh sea level rise resilience and adaptation management strategies.	Approved (New)

Table 6: Steering Committee RMP Budget Summary								
as of 6/30/2023								
Budget and Current Expenses								
		Budget	Expended	Balance	Previously Unencumbered	Unencumbered this Period	Balance minus Unencumbered (Remainder)	% Remaining
Year		\$	\$	\$	\$	\$		
SEP		3,875,070	2,645,665	1,229,405	0	0	1,229,405	32%
2023		3,727,600	1,142,885	2,584,715			2,584,715	69%
2022		2,762,800	2,156,030	606,770			606,770	22%
2021		3,564,216	3,030,074	534,142	0	0	534,142	15%
2020		3,735,174	3,944,165	-208,991			-208,991	-6%

2019		3,819,850	3,624,155	195,695	0	0	195,695	5%
2018		3,818,427	3,739,914	78,513	0	0	78,513	2%
	Grand Total	25,303,137	20,282,888	5,020,249	0	0	5,020,249	20%
Year	Accounts Receivables & Remaining Interest:	Amount	Notes					
2023	3023.02 Burlingame - Municipal	\$27,300						
2023	3023.05 Central Marin - Municipal	\$63,937						
2023	3023.07 EBDA - Municipal	\$158,926						
2023	3023.19 SF Airport - Municipal	\$16,789						
2023	3023.22 San Mateo - Municipal	\$68,008						

2023	3023.29 St. Helena - Municipal	\$8,71 5						
2023	3023.30 Tiburon (SD#5) - Municipal	\$11,1 65						
2023	3023.32 Vallejo SFC - Municipal	\$56,7 47						
2023	3023.33 West County - Municipal	\$50,6 39						
2023	3023.35 Treasure Island (U.S. Navy) - Municipal	\$14,4 40						
2023	3023.36 C&H Sugar Company - Industrial	\$19,2 33						
2023	3023.37 Chevron Products Company - Industrial	\$69,4 05						
2023	3023.38 Valero Refining Company - Industrial	\$69,4 05						
2023	3023.39 Schnitzer Steel Industries - Industrial	\$19,2 33						
2023	3023.40 Rhodia, Inc. - Industrial	\$19,2 33						

2023	3023.41 Martinez Refining Company - Industrial	\$69,405						
2023	3023.42 Tesoro Golden Eagle Refinery - Indust	\$69,405						
2023	3023.43 Phillips 66 Company - Industrial	\$69,405						
2023	3023.44 USS-POSCO - Industrial	\$40,138						
2023	3023.45 Crockett Cogeneration - Industrial	\$19,233						
2023	3023.46 Santa Clara - Stormwater	\$226,726						
2023	3023.47 Alameda - Stormwater	\$220,486						
2023	3023.48 Contra Costa - Stormwater	\$180,802						
2023	3023.49 San Mateo - Stormwater	\$106,086						
2023	3023.51 Marin - Stormwater	\$71,122						

2023	3023.52 San Francisco - Stormwater	\$48,417						
2023	3023.53 Vallejo - Stormwater	\$16,438						
2023	3023.54 Fairfield-Suisun - Stormwater	\$19,767						
2023	3023.82 American Canyon - Municipal	\$22,055						
2021	3021.74 San Francisco Marina - Dredger	\$5,504	<p>Followed up 4/28</p> <p>Possible new contact: Jennifer.Marquez@sfdpw.org</p> <p>ML emailed og contact Frank (bounce back); need WB response for updated contact</p>					

Table 1: Summary of Proposals for RMP Special Studies in 2024

				\$1,628,074	\$1,188,586	\$339,488	\$100,000	
				\$1,628,074				
Workgroup	Study Name	PI / Agency	Funding Request	TRC Recommendation	RMP Special Study Funds (\$1,188,586)	AMR Funds (\$339,488)	Stormwater CEC Funds (\$100,000)	Notes
Emerging Contaminants	Stormwater CECs Monitoring and Modeling 2024	Moran / SFEI	\$300,000	\$300,000	\$200,000		\$100,000	Additional \$100,000 from WQIF. Early release of RMP funds requested. Proposed for inclusion as match for the WQIF PFAS proposal.
Emerging Contaminants	Tire and Roadway Contaminants in Wet Season Bay Water Year 3	Miller / SFEI	\$50,000	\$50,000	\$3,112	\$46,888		
Emerging Contaminants	OPEs, Bisphenols, and Other Plastic Additives in Wastewater	Mendez / SFEI	\$95,400	\$95,400		\$95,400		Strong support for including the expanded list of plastic additives
Emerging Contaminants	PFAS Synthesis & Strategy	Lin / SFEI	\$107,000	\$107,000		\$107,000		Proposed for inclusion as match for the WQIF PFAS proposal.
Emerging Contaminants	PFAS in Bay Water using the TOP Assay	Mendez / SFEI	\$67,200	\$67,200		\$67,200		Leveraging S&T water monitoring in 2023 & 2024; sediment monitoring was not considered a priority, so this was excluded from the recommended scope and budget. Early release of RMP funds requested.
Emerging Contaminants	Non-targeted Analysis of SF Bay Fish Year 1	Miller / SFEI	\$23,000	\$23,000		\$23,000		Year 1 only - \$85,000 for both years; Sample collection (\$25,000) not included as it will be covered by S&T
Emerging Contaminants	PFAS and Nontargeted Analysis of Marine Mammal Tissues Year 2	Miller / SFEI	\$126,500	-				S&T Pilot study. Proposed for inclusion as match for the WQIF PFAS proposal.
	Total		\$642,600	\$642,600				
Microplastic	Microplastics Stormwater Monitoring Pilot	Lin / SFEI	\$119,500	\$78,100	\$78,100			\$119,500 (Yr. 1: \$68,100)
Microplastic	Size Distribution of Microplastic Particles in SF Bay	Miller / SFEI	\$65,000 - \$105,000	-				SEP Proposal; \$65,000 for water only, \$105,000 for water and sediment.
	Total		\$119,500	\$78,100				
Nutrients	Moored sensor high-frequency observation network	Senn / SFEI	\$250,000	\$250,000	\$250,000			Additional \$190,000 in matching funds from NMS
	Total		\$250,000	\$250,000				
Sediment	Spatial variability of sediment accretion in San Francisco Bay restorations	Thorne / USGS	\$203,528	\$203,528	\$203,528			Fund over two years, \$130k yr 1; \$75k yr 2? Roughly a per site cost, so could adjust as needed. Data release in Sep 2025 so others can use the data earlier than project completion.
Sediment	Continuous Suspended Sediment Concentration and Wave Monitoring in South and Lower South San Francisco Bay - Year 3	Mourier / SFEI	\$83,558	\$79,000	\$79,000			rescoped to include - synthesis from tier 3, but not tier 2 sampling
Sediment	Sediment load from Bay area watersheds under future climate	Zi / SFEI	\$82,325	-				Possibly adapt scope based on priorities for SPLWG and model updates. Add project to the SEP list at a minimum. Possible proposal for 2025 funding.
Sediment	Sediment Conceptual Model(s) for Individual San Francisco Bay Segments and Subembayments		modular	-				SEP proposal
	Total		\$369,411	\$282,528				
Sources Pathways and Loading	Integrated Monitoring and Modeling to Support PCBs and Mercury Watershed Loads Uncertainties Assessment and Monitoring Design	Avellaneda / SFEI	\$217,000	\$217,000	\$217,000			\$217K in 2024, \$167K in 2025
Sources Pathways and Loading	Tidal Area Remote Sampler Pilot - Year 2	Gilbreath / SFEI	\$62,000	\$62,000	\$62,000			Year 2 of 2-year project. Full budget for 2024 is \$107K (\$45 can be carried over from 2023). Could be reduced from \$62K if needed, 8 sites (for 5 sites the cost would be \$47K). Early release of RMP funds requested.
Sources Pathways and Loading	Pilot Study Using a Detection Dog Team for Source Tracing of PCBs in Old Industrial Areas of the San Leandro Bay Watershed	Gilbreath / SFEI	\$25,000	-				Smaller budget recommended to scope this out in more detail.

Table 1: Summary of Proposals for RMP Special Studies in 2024

				\$1,628,074	\$1,188,586	\$339,488	\$100,000	
				\$1,628,074				
Workgroup	Study Name	PI / Agency	Funding Request	TRC Recommendation	RMP Special Study Funds (\$1,188,586)	AMR Funds (\$339,488)	Stormwater CEC Funds (\$100,000)	Notes
Sources Pathways and Loading	Remote Sampler Purchase	Moran / SFEI	\$180,000	-				General RMP Proposal. Early release of RMP funds requested.
Sources Pathways and Loading	Watershed Dynamic Model Maintenance	Zi / SFEI	\$50,000 annually	-				General RMP Proposal. Will be vetted to ensure no double-dipping with Proposal #1
	Total		\$304,000	\$279,000				
PCBs	Priority Margin Unit Shiner Surfperch PCB Trend Monitoring	Davis / SFEI	\$20,000	-				Would make sense to move to S&T.
PCBs	Monitoring of Sediment Deposition in San Leandro Bay Intertidal Areas	Yee / SFEI	\$76,000	\$95,846	\$95,846			Options available for a larger scope.
	Total		\$96,000	\$95,846				
				\$1,628,074				

RMP SUPPLEMENTAL ENVIRONMENTAL PROJECT CANDIDATE LIST

Updated 08-14-23

Project	Estimated Budget Range	Nexus Keywords	Geography	Matrix	Oversight Group	Project Lead	Year Proposed	Comments
Projects that have been reviewed by a RMP workgroup, and/or the Technical Review Committee, (as indicated in the Oversight Group column) and approved by the Steering Committee.								
Identification and Pilot Monitoring of High-Priority Current Use Agricultural Pesticides in Region 2	\$75,000 - \$125,000	Emerging Contaminants, Pesticides	North Bay	Stormwater	ECWG	SFEI	2014	
Monitoring for Halogenated Azo Dyes in Bay Sediments	\$65,000 - \$130,000	Emerging Contaminants, Azo dyes,	Whole Bay	Sediment	ECWG	SFEI	2020	
Monitoring Microplastics in San Francisco Bay Sport Fish	\$50,000- \$200,000	Microplastic, Sport Fish	Whole Bay	Sport fish	MPWG	SFEI/U. Toronto	2019	
Tire Particle/Contaminant Fate and Transport	\$90,000 - \$115,000	Microplastics	Whole Bay	Particles	MPWG	SFEI	2021	
Size Distribution of Microplastic Particles in SF Bay	\$65,000 - \$105,000	Microplastics	Whole Bay	Particles	MPWG	SFEI	2023	
Biogeochemical transformation rates in San Francisco Bay	\$50,000 - \$300,000	Nutrients	Whole Bay	Water	Nutrients	SFEI	2021	
Richmond Harbor PCB Conceptual Model Development	\$50,000- \$100,000	PCBs, Central Bay	Richmond Harbor	Sediment, Fish, Water	PCBWG	SFEI	2018	

Filling Bathymetry Data Gaps	\$50,000-\$250,000	Bathymetry	Whole Bay	Sediment	SedWG	USGS	2019	
Toxicity Reference Value Refinement	\$30,000	Toxicity, Dredged sediment, Beneficial reuse	Whole Bay	Sediment	SedWG	SFEI	2019	
Estimation of future sediment loadings from local tributaries	\$70,000	Sediment, future conditions	Whole Bay	Water	SedWG	SFEI	2021	
Napa and Sonoma Sediment Loads	\$138,500	Watershed sediment supply	North Bay	Sediment	SedWG	SFEI	2022	Addition: Special Study proposal put forth for 2023 funding but not selected.
Sediment Conceptual Model(s) for Individual San Francisco Bay Segments and Subembayments	modular	Sediment	Whole Bay	Sediment	SedWG	SFEI	2023	
Identifying mechanisms controlling selenium bioavailability at the base of the food web in North versus South San Francisco Bay	\$112,000	Selenium, Bioavailability, South Bay	North and South Bay	Water	SeWG	USGS	2020	
Use of Remote Stormwater Sampling Devices to Improve Temporal Coverage of Sampling	Year 1: \$160,000 Year 2: \$120,000	PCBs, methods development, remote samplers	Whole Bay	Stormwater	SPLWG	SFEI	2017; revised 2022	

Develop a Statistical Model for Trends Evaluation	\$35,000-\$50,000	Stormwater flows, pollutant loads, PCBs	Whole Bay	Stormwater	SPLWG	SFEI	2018	We will keep this idea, but change the content of previously proposed work and run it through at the SPLWG meeting.
Mallard Island Monitoring for Loads and Trends	\$150,000 - \$200,000	Sediment load, Delta, PCBs, Hg, Se, Pesticides microplastics, CECs, Bay mass balance	North Bay	Sediment	SedWG SPLWG ECWG	SFEI	2020	
Nutrient exchanges between SFB and the coastal ocean (export, import)	\$50,000-\$300,000	Nutrients	Central, South Bays	Surface Water	Nutrients	SFEI	2023	
Expanded water quality monitoring to support nutrient management decisions	\$50,000-\$300,000	Nutrients	Whole Bay	Surface Water	Nutrients	SFEI	2023	
Biogeochemical transformation rates in San Francisco Bay: field studies and/or synthesis/interpretation	\$50,000-\$300,000	Nutrients	Whole Bay	Surface Water	Nutrients	SFEI	2023	
Investigating harmful algal blooms in San Francisco Bay: priority data, model development/application, and synthesis	\$252,300	Nutrients	Whole Bay	Surface Water	Nutrients	SFEI	2023	Funded July 2023, ACL # R2-2023-1002

Draft Annual Meeting Agenda

- General
 - **Tom's perspective - Keynote**
 - **Amy - Program update: MYP update, wet season, S&T focus on CECs**
 - Changing climate effect on hydrology and water quality
- Nutrients and Sediment
 - **Nutrients: HAB update**
 - Nutrients: Modeling?
 - Sediment: Suspended sediment loads from creeks in drought and flood years - Alicia
 - Sediment: Sand science?
- PFAS
 - **Phase 2 BACWA PFAS - Diana and Lorien**
 - **PFAS in fish - Jay/Miguel**
 - PFAS in cosmetics as source to POTWs? - Simona Balan (DTSC)
 - Statewide PFAS dataset? – Wendy Linck
- Stormwater CECs
 - **CECs in stormwater (highlights from screening study) - Becky**
 - **DTSC action update: tire listing, adding microplastics, draft workplan**
 - PFAS in building materials? – Green Science Policy Institute

Bold items are
strong candidates
for inclusion



RMP

REGIONAL MONITORING
PROGRAM FOR WATER QUALITY
IN SAN FRANCISCO BAY

sfei.org/rmp

Status of RMP Deliverables and Action Items (20 minutes)

Deliverables & Action Items - completed!

Page 79

- 😊 QA Summary report for 2020 S&T activities.
- 😊 Deep Bay Sediment Cruise - SAP SFEI Contribution No. 1138
- 😊 2023 S&T Deep Bay Sediment Cruise (add a picture)
- 😊 Quantifying Stormwater Flow and Sediment Flux to the Bay (SEP) - Technical Report (SFEI Contribution No. XXX) and Summary Factsheet
- 😊 Floating Percentile Method Report - SFEI Contribution No. XXX
- 😊 Sunscreens in Wastewater Report (SEP) - SFEI Contribution No. 1111
- 😊 Sediment Dynamics Assessment and Uncertainty Analysis for San Francisco Bay (SEP) - SFEI Contribution No. 1114
- 😊 S&T Lab Intercomp Study Design

Deliverables – Overdue...

- Selenium in Sturgeon Muscle Plugs
- QA summary report for 2021 S&T activities
- Selenium in North Bay Clams and Water
- MTC Bay Area Land Use Update (SEP)

Deliverables – delayed

- STLS WY21 POC Recon Monitoring Final Report
- Impact of Remediation Actions on San Leandro Bay Recovery from PCB Contamination - Final Report
- Ethoxylated Surfactants Final Report
- PCB In Bay Contaminant Modeling Report
- Integrated Watershed Bay Modeling and Monitoring Implementation Strategy (SEP) - Final Report

Deliverables – due before next SC meeting (11/1)

- Margins report final
- North Bay Selenium Clam and Water Report
- PCB monitoring at GE property data
- 2023 QAPP Update
- S&T Design Report

Bay RMP Deliverables Stoplight Report_new

	Focus Area	Project	Task	Deliverable	Assigned To	Due Date	Old Due Date	Days overdue	Due Date Extended (external delay)	Due Date Extended (internal delay)	# of extensions	Status	Comments
1		142758 RMP SEP	20. MTC Bay Area Land Use Update	Collect and transform data relevant to RMP Stakeholders	Tony Hale	04/30/23	03/31/21	868	🚩	🚩	3	🔴	8/16/23 - Was able to reach MTC in July. Was told we could publish the dataset (which has flaws acknowledged by both MTC and SFEI) as an SFEI product. MTC stated in July that an updated version of the data would be released in a month or so. Tony requested a release date but MTC has yet to respond. Tony will reach out to Caitlin Sweeney @ SFEI to see if she can get MTC to respond with a release date.
2		Bay RMP (2020)	41. Selenium in North Bay clams and water	Technical Report	Melissa Foley	04/30/23	06/30/21	777	🚩	🚩	5	🔴	7/18/23 - Jay has a draft. A 2019-2022 report will need additional funding (2024?) to complete. Want to include USGS data but still waiting on USGS to post the data, w/ no timeline for that.
3		Bay RMP (2021)	3. QA and Data Services	QA Summary Report for 2021 S&T Activities	Don Yee	05/31/23	09/30/22	320	🚩	🚩	3	🔴	8/16/23 - Still waiting on water data from SGS AXYS, estimated delivery for that data is 8/31. Bird eggs still outstanding but could be put into 2022 report since were not sampled until 2022?
4		Bay RMP (2023)	1. Program Management	Q2 RMP Financial Report	Jennifer Hunt	08/24/23			🚩	🚩		🟡	
5		Bay RMP (2023)	2. Governance	August SC Meeting	Amy Kleckner	08/25/23			🚩	🚩		🟡	
6		Bay RMP (2023)	C. 2023 Dry season Bay Water Cruise	Complete Sampling and Analysis Plan	Amy Kleckner	08/28/23			🚩	🚩		🟡	8/16/23 - Draft out for review.
7		Bay RMP (2023)	Special Study: STLS Regional Model Development	Model data collation and preparation	tanz@sfei.org	08/30/23			🚩	🚩		🟡	
8		Bay RMP (2020)	6. Status and Trends Monitoring	Final Margins report	Don Yee	08/31/23	12/31/21	593	🚩	🚩	6	🟡	8/16/23 - Sent to Richard L. and Luisa V. for feedback.
9		Bay RMP (2022)	F. North Bay Selenium Monitoring Data Management	Process and upload data	Adam Wong	08/31/23	05/31/23	77	🚩	🚩	2	🟡	7/18/23 - Prioritized behind ethox. surf. 5/29/23 - In the process of compiling the data from the labs. Prioritized behind EI (TPW) portal which will go thru June. Delayed. NB Selenium still sampling
10		Bay RMP (2023)	4. Annual Reporting	2023 Annual Meeting Agenda	Jay Davis	08/31/23	07/30/23		🚩	🚩	1	🟡	8/16/23 - will be finalized at 8/24 SC meeting.
11		Bay RMP (2023)	G. Nearfield and margins sediment & prey fish	Complete Sampling and Analysis Plan	Miguel Mendez	08/31/23	06/01/23	76	🚩	🚩	2	🟡	8/16/23 - Finalization in progress. Will be posted on Bay RMP web page when complete.
12		Bay RMP (2023)	G. Nearfield and margins sediment & prey fish	Complete contracts	Miguel Mendez	08/31/23	06/01/23	76	🚩	🚩	2	🟡	8/16/23 - Waiting on SJSURF to return with signatures.
13			I. S&T Laboratory Intercomparison Studies	Complete contracts	Beth Ebner	08/31/23	06/01/23		🚩	🚩	2	🟡	8/16/23 - Draft SOW and budgets under review, will be creating a PO instead of a contract for CCSF and possibly Eurofins and Enthalpy as well.
14		Bay RMP (2022)	Special Study: Stormwater monitoring strategy for CEC's	Final strategy document	Kelly Moran	09/01/23			🚩	🚩		🟡	
15		Bay RMP (2022)	Special Study: CEC modeling exploration	Report	Pedro Avellaneda	09/01/23	12/31/22	228	🚩	🚩		🟡	7/18/23 - Becky partway through review. Kelly and Lester need to review and Pedro needs to edit. Important for Stormwater CEC strategy. 7/6/2023 Draft in review Assigned now to Pedro
16		Bay RMP (2023)	E. 2023 Wet season water sampling	Complete Sampling and Analysis Plan	Amy Kleckner	09/01/23			🚩	🚩		🟡	
17		Bay RMP (2023)	C. 2023 Dry season Bay Water Cruise	Collect samples	Amy Kleckner	09/04/23			🚩	🚩		🟡	
18		Bay RMP (2023)	3. QA and Data Services	QAPP Update	Don Yee	09/15/23	04/30/23	108	🚩	🚩	2	🟡	8/16/23 - Late request to add PFAS TOP, estimated to be completed by 9/15/23.
19		Bay RMP (2023)	2. Governance	September TRC Meeting	Amy Kleckner	09/22/23			🚩	🚩		🟡	
20		RMP SEP	15. North Bay Selenium Clam and Water Data Management and Reporting	Report	Jay Davis	09/30/23	12/01/21	623	🚩	🚩	3	🟡	8/16/23 - Jay is reviewing draft report from Melissa. Estimated completion by end of September.
21		Bay RMP (2021)	Selenium in Clams	Task 4. Draft Report	Amy Kleckner	09/30/23	12/31/22	228	🚩	🚩	1	🟡	delayed to allow for 2022 collections before working on the report
22		Bay RMP (2021)	DMMO Database	DMMO Database Enhancements	Cristina Grosso	09/30/23	12/31/21	593	🚩	🚩	3	🟡	5/29/23 - SFEI is now testing the new templates from Exa. Due date extended. Due to staffing shortages, we will need to request an extension for this Special Study. The Data Services team was busy with other RMP-related projects, and we did not hire a new DBA/DBD to replace Shira until November. Extension requested to allow time to discuss DMMO Database priorities with the DMMO Database Project Team. We have subcontracted with Exa to revise the data templates. SFEI is working on revising the upload scripts and modifying the database to accommodate the streamlined data template structure.
23		Bay RMP (2022)	3. QA and Data Services	QA Summary Report for 2022 S&T Activities	Don Yee	09/30/23			🚩	🚩		🟡	
24		Bay RMP (2022)	Special Study: CEC in Urban Stormwater Year 4	Final manuscripts and management summary	Rebecca Sutton	09/30/23			🚩	🚩		🟡	
25		Bay RMP (2022)	Special Study: Tire-related contaminants in Bay water (wet season)	Final stormwater manuscript	Rebecca Sutton	09/30/23			🚩	🚩		🟡	
26		Bay RMP (2023)	4. Annual Reporting	RMP Update	Jay Davis	09/30/23			🚩	🚩		🟡	
27		Bay RMP (2023)	5. Communications	Q3 RMP eUpdate	Amy Kleckner	09/30/23			🚩	🚩		🟡	
28		Bay RMP (2023)	5. Communications	Updates to RMP website - Q3	Martin Trinh	09/30/23			🚩	🚩		🟡	
29		Bay RMP (2023)	E. 2023 Wet season water sampling	Complete contracts	Beth Ebner	09/30/23			🚩	🚩		🟡	
30		Bay RMP (2023)	G. Nearfield and margins sediment & prey fish	Collect samples	Miguel Mendez	09/30/23			🚩	🚩		🟡	8/16/23 - Fieldwork will be completed by Marco Sigala. Scheduled to begin on 8/21 and finish around 9/15.
31		Bay RMP	S&T Design Report	Final Report	Melissa Foley	09/30/23	06/20/23	57	🚩	🚩	?	🟡	7/18/23 - Waiting on comments from Tom Grieb. Moving forward incorporating comments from others. Revised timeline to completion is 9/30/23.

Focus Area	Project	Task	Deliverable	Assigned To	Due Date	Old Due Date	Days overdue	Due Date Extended (external delay)	Due Date Extended (internal delay)	# of extensions	Status	Comments
32	Bay RMP (2023)	4. Annual Reporting	Annual Meeting	Amy Kleckner	10/14/23			🚩	🚩		●	
33	Bay RMP (2023)	2. Governance	October SC Meeting	Amy Kleckner	10/20/23			🚩	🚩		●	
34	Bay RMP (2023)	1. Program Management	2024 Multi-Year Plan	Amy Kleckner	10/23/23			🚩	🚩		●	
35	Bay RMP (2023)	1. Program Management	2024 Detailed Workplan and Budget	Amy Kleckner	10/23/23			🚩	🚩		●	
36	Bay RMP (2023)	1. Program Management	Update Deltek Program Plans for Open RMP Years	Jennifer Hunt	10/24/23			🚩	🚩		●	
37	Bay RMP (2023)	1. Program Management	SC Meeting Spotlight Report	Martin Trinh	10/24/23			🚩	🚩		●	
38	Bay RMP (2023)	Special Study: STLS Regional Model Development	Control measures impact estimation	tanz@sfei.org	10/30/23			🚩	🚩		●	
39	RMP SEP	29. PFAS in Archived Sport Fish Communications Supplement	Manuscript	Miguel Mendez	10/31/23			🚩	🚩		●	Poster presentation at SETAC 4/30-5/4
40	Bay RMP (2021)	Small Tributaries Loading POC Watershed Reconnaissance Monitoring	Laboratory analysis, QA & Data Management	Adam Wong	10/31/23	09/01/21	714	🚩	🚩	4	●	8/14/23 - Waiting on AXYS, estimated delivery 8/31 Final Samples only sent out end of August. Still don't have data. Haven't received data back from the lab, most notably from SGS AXYS as we haven't finalized the contract with them. Discussions still ongoing about wrapping analysis or WY21 samples in with WY22. Final samples still not processed by SGS AXYS Still do not have final analyses from SGS AXYS. Plan is to wrap in with WY 21, 22, 23.
41	Bay RMP (2023)	5. Communications	RMP Update to BACWA	Amy Kleckner	10/31/23			🚩	🚩		●	
42	Bay RMP (2023)	5. Communications	RMP Update to BAMS (Bay Area Municipal Stormwater)	Amy Kleckner	10/31/23			🚩	🚩		●	
43	Bay RMP (2023)	5. Communications	RMP Update to LTMS	Amy Kleckner	10/31/23			🚩	🚩		●	
44	Bay RMP (2023)	5. Communications	RMP Update to BPC	Amy Kleckner	10/31/23			🚩	🚩		●	
45	Bay RMP (2023)	5. Communications	RMP Update to WSPA	Amy Kleckner	10/31/23			🚩	🚩		●	
46	Bay RMP (2023)	5. Communications	RMP Update at RB2 Meeting	Amy Kleckner	10/31/23			🚩	🚩		●	
47	Bay RMP (2023)	1. Program Management	Q3 RMP Financial Report	Jennifer Hunt	11/01/23			🚩	🚩		●	
48	RMP SEP	30. Analysis and Reporting of NTA Sediment Data	Manuscript	Ezra Miller	11/30/23			🚩	🚩		●	Continuation of 3018-036.
49	Bay RMP (2021)	Special Study: CEC in Urban Stormwater Year 3	Task 5. Final manuscripts and management summary	Rebecca Sutton	11/30/23	07/01/23	46	🚩	🚩	1	●	4/18/2023 - Preliminary data interpretation led one analytical partner to reanalyze samples. All data have been received, most has completed QA review, and manuscript preparations are underway.
50	Bay RMP (2023)	2. Governance	December TRC Meeting	Amy Kleckner	12/09/23			🚩	🚩		●	
51	Bay RMP (2023)	PFAS and NTA in Marine Mammals (year 1 of 2)	Task 2. Sample collection	Rebecca Sutton	12/30/23			🚩	🚩		●	
52	Bay RMP (2023)	PFAS in Archived Sport Fish	Task 6. Final report	Miguel Mendez	12/30/23			🚩	🚩		●	
53	Bay RMP (2023)	Special Study: STLS Regional Model Development	Final modeling report and data sharing portal	tanz@sfei.org	12/30/23			🚩	🚩		●	
54	Bay RMP (2023)	Special Study: Tidal Area Remote Sampler	Data upload to CEDEN	Don Yee	12/30/23			🚩	🚩		●	Unclear if we are actually expecting site data (on contaminants?) uploadable to CEDEN
55	Bay RMP (2023)	Special Study: Sediment Delivery to Marshes in C&N Bays: project expansion	Data release: Bay shallows and marsh-top SSC data (PCMSC)	Melissa Foley	12/30/23			🚩	🚩		●	Jessie Lacy and Karen Thorne (USGS) conducting this work
56	Bay RMP (2023)	Special Study: Sediment Delivery to Marshes in C&N Bays: project expansion	Data release: deposition, accretion, and vegetation characteristics (WEREC)	Melissa Foley	12/30/23			🚩	🚩		●	
57	Emerging Contaminants	RMP SEP	19. Quaternary Ammonium Compounds (QACs) in Bay Area Wastewater	Diana Lin	12/31/23	12/31/21		🚩	🚩	2	●	Bill Arnold received an NSF grant that allows for two additional years of monitoring (pro bono). Preliminary data for samples collected to date will be presented at the 2022 ECWG meeting. Bill Arnold will present preliminary data at ECWG
58		RMP SEP	24. Regional Watershed Spreadsheet Model	Alicia Gilbreath	12/31/23			🚩	🚩		●	Jan. 2023 - Waiting for land use update SEP issue date 6/5/2021.
59		RMP SEP	30. Analysis and Reporting of NTA Sediment Data	Ezra Miller	12/31/23			🚩	🚩		●	
60	PCB Strategy	Bay RMP (2019)	Priority Margin Unit Stormwater PCB Monitoring	Alicia Gilbreath	12/31/23	04/30/20	1203	🚩	🚩	2	●	Extended through WY2023 Analysis of samples will be covered by SEP funds (3300-011-A). Results will be reported in the WY20 STLS POC Reconnaissance Monitoring Report (due 12/31/20). https://www.sfei.org/sites/default/files/events/PCBWG%20-%2002%20-%20Priority%20Margin%20Unit%20Stormwater%20PCB.pdf Due to low rainfall, sampling was not completed in WY20 and so the study shall be extended into WY21. This project got an extension because of the low rainfall seasons during climatic years 2020 and 2023.

	Focus Area	Project	Task	Deliverable	Assigned To	Due Date	Old Due Date	Days overdue	Due Date Extended (external delay)	Due Date Extended (internal delay)	# of extensions	Status	Comments
61	Selenium Strategy	Bay RMP (2019)	Selenium in Muscle Plugs	Collect and analyze muscle plug samples	Amy Kleckner	12/31/23	03/31/20	1233			3		8/16/23 - Sampling occurred in March & April 2023. A total of 12 fish were sampled. Working on a plan to analyze plugs at CCSF labs. Estimated to complete by end of 2023. Old notes - Data management and reporting was not funded. https://www.sfei.org/sites/default/files/events/SeWG%20-%2003%20-%20Sturgeon%20Muscle%20Plug.pdf
62		Bay RMP (2020)	21. Priority Margin Unit Stormwater PCB Monitoring	Stormwater sample collection at Emeryville Crescent sites in WY19 and WY20	Alicia Gilbreath	12/31/23	04/30/21	838			2		This project got an extension because of the low rainfall seasons during climatic years 2020 and 2023. Funding rolled forward from previous years so sampling can happen this wet season. If wet season does not include a storm at a low tide, then we will need to roll forward another year if possible.
63		Bay RMP (2021)	F. 2021 Bird Egg Data Mgmt	Processing and upload bird egg data	Adam Wong	12/31/23	10/31/22	289			2		8/14/23 - Eggs still at AXYS, USGS working to obtain an import permit. 7/17/23 - Samples still being processed. Guessed at an extension date Potentially? Eggs still being processed. Some subsamples will need to be shipped back to United States. 2 months is potentially unrealistic for analysis time for SGS AXYS as well. 4/28/23 - per Sean at SGS AXYS estimated time to get HR-MS results is late July 2023. Subsamples will be shipped out to other labs mid May.
64		Bay RMP (2021)	Special Study: Nutrients Light Attenuation and moored sensors	Task 2: Technical memo evaluating the potential utility of remote-sensed products for estimating surface turbidity and light attenuation.	Dave Senn	12/31/23	12/31/22	228			2		5/29/23 - Funding from a new WQIF grant (est. start date 7/2023) will support generating RS turbidity/Kd data. those data will then be analyzed as part of this project. We propose shifting the technical memo due date to 12/2023 as it lines up well with the anticipated workflows of both projects. Major shift in modeling-related work focus (including evaluation of RS-Kd) due to HAB event. Work thus far suggests that RS products have promising potential, but the in-depth analysis will happen over the next several months we pursued the sediment transport model trials first, and remote-sensing second). The recently-awarded EPA-WQIF project includes support for remote-sensing that (in addition other uses within the WQIF project) has the potential to greatly increase
65		Bay RMP (2021)	21. Impact of Remediation Actions on San Leandro Bay Recovery from PCB Contamination	Task 5: Final technical report	Diana Lin	12/31/23	12/31/22	228			2		8/16/23 - Partners at Stanford still working on the draft. Estimate completion by end of 2023.
66		Bay RMP (2021)	Selenium in Clams	Task 5. Final Report	Amy Kleckner	12/31/23	02/28/23	169			1		delayed to allow for 2022 collections before working on the report
67		Bay RMP (2022)	Special Study: Ethoxylated surfactants in ambient water, margin sediment, wastewater. Part 2	Final Report	Diana Lin	12/31/23	08/31/23	-15			1		7/18/23 - Jennifer D. collecting samples this week. Waiting for updated dataset from DS to begin report. Plan is to start drafting report as soon as data is received from DS but Duke U. has still not analyzed sediment and second round of wastewater. A draft may be completed by end of the year, but final report not expected until later.
68		Bay RMP (2022)	Special Study: DMMO Database Enhancements	Make testing results accessible on the DMMO website	Cristina Grosso	12/31/23	12/31/22	228			2		5/29/23 - Need to complete enhancements task first. Delayed.
69		Bay RMP (2022)	Special Study: STLS WY21 POC Recon Monitoring	Final report	Alicia Gilbreath	12/31/23	06/30/23	47					7/18/23 - In Dec 2021 it was decided to forgo the report and instead update data for the ADA. Lester is working on this and estimates completion by end of 2023.
70		Bay RMP (2022)	Special Study: STLS Regional Model Development	Final modeling report and data sharing portal	tanz@sfei.org	12/31/23							
71		Bay RMP (2023)	1. Program Management	RMP Participation Letters for BACWA and WSPA Agencies	Amy Kleckner	12/31/23							
72		Bay RMP (2023)	1. Program Management	Honoraria Payments to Science Advisors	Amy Kleckner	12/31/23							
73		Bay RMP (2023)	3. QA and Data Services	Online Data Access CD3	Cristina Grosso	12/31/23							
74		Bay RMP (2023)	3. QA and Data Services	Database Maintenance	Adam Wong	12/31/23							
75		Bay RMP (2023)	3. QA and Data Services	Updates to SOPs and Templates	Adam Wong	12/31/23							
76		Bay RMP (2023)	3. QA and Data Services	DMMO Database Support	Cristina Grosso	12/31/23							
77		Bay RMP (2023)	5. Communications	Q4 RMP eUpdate	Amy Kleckner	12/31/23							
78		Bay RMP (2023)	5. Communications	Updates to RMP website - Q4	Martin Trinh	12/31/23							
79		Bay RMP (2023)	A. USGS Sacramento Support	Continuous suspended sediment monitoring at 5 stations	Amy Kleckner	12/31/23							
80		Bay RMP (2023)	B. USGS Menlo Park Support-Contract	Monthly measurements of basic water quality at 38 stations	Amy Kleckner	12/31/23							
81		Bay RMP (2023)	J. Sample Archive	(1) Update documentation and template (2) General upkeep and maintenance for tools and data (3) Set up User Accounts and Help Desk (4) Manage internal and external data requests	michaelw@sfei.org	12/31/23							
82		Bay RMP (2023)	J. Sample Archive	Short-term RMP sample archive purging	Martin Trinh	12/31/23							
83		Bay RMP (2023)	Special Study: Ground work CEC Stormwater	Final Brief Report as a presentation to SST and an appendix to Stormwater CEC approach	Kelly Moran	12/31/23							
84		Bay RMP (2023)	K. S&T Field Sampling Report & Support	Garage & lab manager	Martin Trinh	01/01/24							

Focus Area	Project	Task	Deliverable	Assigned To	Due Date	Old Due Date	Days overdue	Due Date Extended (external delay)	Due Date Extended (internal delay)	# of extensions	Status	Comments
85	Bay RMP (2023)	Ethoxylated surfactants in ambient water, margin sediment, wastewater, Part 2 (year 2 of 2)	Task 3. Complete laboratory analysis of samples	Diana Lin	01/30/24			🚩	🚩		●	5/29/23 - Duke University will be conducting analysis.
86	Bay RMP (2023)	22. Nutrients moored sensors	Sensors deployed, downloaded, maintained, and calibrated	Dave Senn	01/30/24			🚩	🚩		●	
87	Bay RMP (2023)	Special Study: Tidal Area Remote Sampler	Report (draft and final)	Don Yee	01/30/24			🚩	🚩		●	
88	Bay RMP (2023)	1. Program Management	Q4 RMP Financial Report	Jennifer Hunt	01/31/24			🚩	🚩		●	
89	Bay RMP (2023)	D. 2023 Dry season Bay Water Cruise Data Mgmt	Process and upload dry season Bay water cruise data	Adam Wong	01/31/24			🚩	🚩		●	
90	Bay RMP (2023)	H. Nearfield and margins sediment & prey fish data mgmt.	Process and upload sampling data	Adam Wong	02/28/24			🚩	🚩		●	
91	Bay RMP (2023)	M. Ambient Bay sediment data mgmt.	Process and upload sampling data	Adam Wong	02/28/24			🚩	🚩		●	
92		I. S&T Laboratory Intercomparison Studies	Presentation to the TRC on findings from IC studies.	Don Yee	03/01/24			🚩	🚩		●	
93	Bay RMP (2023)	Special Study: Suspended Sediment in LSB-Year 2	Publicly available 15-minute SSC time series from eight stations in South Bay and Lower South Bay	Melissa Foley	03/30/24			🚩	🚩		●	
94	Bay RMP (2023)	Ethoxylated surfactants in ambient water, margin sediment, wastewater, Part 2 (year 2 of 2)	Task 4. QA/QC and data management	Diana Lin	04/30/24			🚩	🚩		●	
95	Bay RMP (2023)	Nontargeted Data Mining	Task 3. Presentation to ECWG on additional targets	Rebecca Sutton	04/30/24			🚩	🚩		●	
96	Bay RMP (2023)	Special Study: Suspended Sediment in LSB-Year 2	Report detailing data collection, turbidity-to-SSC calibrations, and limited, descriptive interpretation	Melissa Foley	04/30/24			🚩	🚩		●	
97	Bay RMP (2023)	Special Study: Sediment Delivery to Marshes in C&N Bays: project expansion	Report (draft paper) investigating the relationships between SSC in the shallows, SSC at long-term channel stations, and sediment accretion on marshes	Melissa Foley	04/30/24			🚩	🚩		●	Jessie Lacy and Karen Thorne (USGS) conducting this work
98	Bay RMP (2023)	Special Study: Sediment Delivery to Marshes in C&N Bays: project expansion	Final Presentation to RMP Sediment Workgroup	Melissa Foley	04/30/24			🚩	🚩		●	Jessie Lacy and Karen Thorne (USGS) conducting this work
99	Bay RMP (2022)	Special Study: PCB In-Bay contaminant modeling (SLB)	Draft Report	Jay Davis	05/01/24	05/01/22	472	🚩	🚩		●	8/16/23 - Draft report to be completed by May 2024. Revised timeline approved by the PCBWG in June 2023. 5/29/23 - A revised deliverable timeline will be developed under the guidance of the PCBWG at the spring meeting on 6/6/23. Work in 2022 focused on developing a proposal and workplan for in-Bay modeling as part of the WQIF project. Actual modeling work has begun in Q1 of 2023.
100	Bay RMP (2022)	Special Study: PCB In-Bay contaminant modeling (SLB)	Final report	Jay Davis	05/01/24			🚩	🚩		●	8/16/23 - Draft report to be completed by May 2024. Revised timeline approved by the PCBWG in June 2023.
101	Bay RMP (2023)	E. 2023 Wet season water sampling	Collect samples	Amy Kleckner	05/01/24			🚩	🚩		●	
102	Emerging Contaminants	RMP SEP	19. Quaternary Ammonium Compounds (QACs) in Bay Area Wastewater	Diana Lin	05/31/24	05/31/22		🚩	🚩	1	●	Additional funding from NSF increased the scope of the project. The ECWG agreed to the suggested revised due dates for the deliverables so they can include the additional data.
103		RMP SEP	23. Integrated Watershed Bay Modeling Strategy and Pilot Implementation	Lester McKee	06/01/24	12/31/23	-137	🚩	🚩		●	8/16/23 - Draft report to be completed by June 2024. Lester McKee will replace Tan Zi as lead author. Revised timeline discussed with Tom Mumley.
104	Bay RMP (2021)	26. Integrated watershed modeling and monitoring implementation strategy	Complete integrated watershed modeling and monitoring implementation strategy - Final report	Lester McKee	06/30/24	09/01/21	714	🚩	🚩	5	●	8/16/23 - Draft report to be completed by June 2024. Lester McKee will replace Tan Zi as lead author. Revised timeline discussed with Tom Mumley.
105	Bay RMP (2023)	Nontargeted Data Mining	Task 4. Spreadsheet of compiled data mining results	Rebecca Sutton	07/30/24			🚩	🚩		●	
106	Bay RMP (2022)	Special Study: PCBs in sediment and fish SS/RC	Technical Report	Jay Davis	08/01/24			🚩	🚩		●	
107	Bay RMP (2023)	Special Study: PCBs in sediment and fish SS/RC (Year 2)	Final Technical Report	Jay Davis	08/30/24			🚩	🚩		●	
108	Emerging Contaminants	RMP SEP	19. Quaternary Ammonium Compounds (QACs) in Bay Area Wastewater	Diana Lin	08/31/24	08/31/22		🚩	🚩	2	●	Additional funding from NSF increased the scope of the project. The ECWG agreed to the suggested revised due dates for the deliverables so they can include the additional data.
109	Bay RMP (2022)	Special Study: Sediment delivery to marshes in C&N Bay	Report	Melissa Foley	09/01/24	12/01/23	-107	🚩	🚩		●	Jessie Lacy and Karen Thorne (USGS) doing the work
110	Bay RMP (2023)	3. QA and Data Services	QA Summary Report for 2023 S&T Activities	Don Yee	09/30/24			🚩	🚩		●	
111	Bay RMP (2023)	Special Study: STLS WY21 POC Recon Monitoring	Laboratory analysis, QA, & Data Management	Alicia Gilbreath	09/30/24			🚩	🚩		●	

Focus Area	Project	Task	Deliverable	Assigned To	Due Date	Old Due Date	Days overdue	Due Date Extended (external delay)	Due Date Extended (internal delay)	# of extensions	Status	Comments
112	RMP SEP	32. Temporal variability in sediment delivery to a North and Central SF Bay Salt Marsh	Data made publicly available	Melissa Foley	10/01/24							
113	Bay RMP (2023)	Tire and roadway contaminants in wet season Bay water (year 1 of 2)	Task 4. QA/QC, data management, and data upload	Rebecca Sutton	10/30/24							
114	Bay RMP (2023)	F. 2023 Wet season water data mgmt.	Process and upload wet season water sampling data	Adam Wong	10/31/24							
115	Bay RMP (2023)	Ethoxylated surfactants in ambient water, margin sediment, wastewater, Part 2 (year 2 of 2)	Task 6. Final report	Diana Lin	11/30/24							
116	Bay RMP (2023)	Special Study: STLS WY21 POC Recon Monitoring	Wet season water samples collected and sent to the labs for analysis	Alicia Gilbreath	12/30/24							
117	Bay RMP (2023)	Special Study: Sediment Delivery to Marshes in C&N Bays: project expansion	Presentation to Bay Delta Science or State of the Estuary Conference	Melissa Foley	12/30/24							Jessie Lacy and Karen Thorne (USGS) conducting this work
118	Bay RMP (2023)	Special Study: Sediment Flux Richmond Bridge	Data release	Scott Dusterhoff	12/31/24	05/11/23	97			1		Work not moving forward in 2023 as planned
119	Bay RMP (2023)	Special Study: STLS WY21 POC Recon Monitoring	Interpretation & reporting for BAMSC	Alicia Gilbreath	02/28/25							
120	RMP SEP	32. Temporal variability in sediment delivery to a North and Central SF Bay Salt Marsh	Final Report	Melissa Foley	04/01/25							
121	RMP SEP	26. PFAS & Chlorinated Paraffins in Bay Sediment	?	Rebecca Sutton	04/04/25							
122	RMP SEP	27. High speed mapping of water quality parameters on the eastern shoal of South San Francisco Bay	Data release	Ariella Chelsky	06/30/25							
123	RMP SEP	27. High speed mapping of water quality parameters on the eastern shoal of South San Francisco Bay	Technical Report	Ariella Chelsky	06/30/25							
124	Bay RMP (2023)	PFAS and NTA in Marine Mammals (year 1 of 2)	Task 5. Draft manuscript(s), S&T study design recommendations (technical memo), presentation to TRC.	Rebecca Sutton	06/30/25							
125	Bay RMP (2023)	Special Study: STLS WY21 POC Recon Monitoring	Final report	Alicia Gilbreath	06/30/25							
126	RMP SEP	28. SF Bay Sediment Transport and Fate Modeling	Technical Report	Dave Senn	09/05/25							
127	Bay RMP (2023)	Tire and roadway contaminants in wet season Bay water (year 1 of 2)	Task 7. Final short report	Rebecca Sutton	09/30/25							
128	Bay RMP (2023)	PFAS and NTA in Marine Mammals (year 1 of 2)	Task 6. Final manuscript(s)	Rebecca Sutton	09/30/25							
129	RMP SEP	31. Investigating HABs in SF Bay	Data made publicly available	Dave Senn	06/30/26							
130	RMP SEP	31. Investigating HABs in SF Bay	Technical Report	Dave Senn	06/30/26							

Bay RMP Action Items Stoplight Report_New

	Primary	Deliverable	Assigned To	Due Date	Old Due Date	Days overdue	# of extensions	Due Date Extended (external delay)	Due Date Extended (internal delay)	Status	Comments	Meeting Date
1	SC Action Items from 11/02/2022	Document the process for starting a new workgroup	Jay Davis	09/04/23	01/25/23	203	3				8/16/23 - Will post to website under Governance/Key Documents and Procedures, upon Martin's return from vacation.	11/02/22
2	Action Items - 04/26/23	Update document for consideration of MMP proposals	Jay Davis	09/04/23	05/26/23		2				8/16/23 - Will post to website under Governance/Key Documents and Procedures, upon Martin's return from vacation.	04/26/23
3	Action Items - 04/26/23	Submit draft WQIF PFAS proposal to SC for review via email	Kelly Moran	08/24/23							8/16/23 - Kelly will be sharing the status of the proposal at the SC meeting.	04/26/23
4	S&T design report	Add language to the report to include the water sampling of more than one near field station during the dry season	Don Yee	10/31/23	06/15/23		1				8/16/23 - Waiting on Melissa for an updated draft, will send free standing text to Melissa.	05/16/23
5	TRC Action Items from 06/20/23	Post updated SEP list to RMP website	Martin Trinh	09/04/23								06/20/23
6	TRC Action Items from 06/20/23	Distribute WQIF PFAS proposal to Ian Wren, Chris Sommers, and the WB for review	Kelly Moran	08/31/23	08/15/23						8/16/23 - Kelly to present an update to SC on 8/24.	06/20/23
7	TRC Action Items from 06/20/23	Document rationale for margin and nearfield station selections (# in each segment and WRMP proximity) in S&T redesign doc and 2023 SAP	Don Yee	08/31/23	08/15/23						8/16/23 - Still working on this. Will be part of finalization of Nearfield/Margins SAP.	06/20/23
8	TRC Action Items from 06/20/23	List of all the agencies using our data in the data overview tab on the RMP website	Martin Trinh	09/04/23								06/20/23
9	SC Action Items from 11/02/2022	Discuss event-based monitoring planning at the December 2023 TRC meeting and January 2024 meeting	Jay Davis	01/26/24								11/02/22
10	TRC Action Items from 09/22/21	Gather small group for Bivalve design review	Jay Davis	12/31/23	01/31/22	562	3				Item is of low urgency. Will convene the small group this fall. Low urgency and Jay has limited capacity due to RMP management transition and WQIF	09/22/21
11	November 2022 Meeting											11/02/22
12	April SC											04/26/23
13	June 2023 TRC											06/20/23