



## Technical Review Committee

September 19, 2023  
9:00 AM – 12:20 PM

### HYBRID MEETING

#### In Person

SFEI 1st Floor Conference Room

#### Remote Access

<https://us06web.zoom.us/j/88380356016>

Meeting ID: 883 8035 6016

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### AGENDA

1.	<b>Introductions and Review Agenda</b>	9:00 (10 min)  Bridgette DeShields
2.	<b>Decision: Approve Meeting Summary from June 20, 2023, and Confirm/Set Dates for Future Meetings</b>  Scheduled meetings: Steering Committee - November 1, 2023 (+ MYP Workshop) January 22, 2024 (proposed)  Technical Review Committee - December 7, 2023 March 2024 - TBD  Annual Meeting - October 12, 2023	9:10 (10 min)  Bridgette DeShields

	<p>Materials:</p> <ul style="list-style-type: none"> <li>• TRC Meeting Summary, see pages 5-17</li> </ul> <p>Desired outcomes:</p> <ul style="list-style-type: none"> <li>• Approve meeting summary</li> </ul>	
3.	<p><b>Information: SC Meeting Summary from August 24, 2023</b></p> <p>Topics discussed at the August SC meeting included:</p> <ul style="list-style-type: none"> <li>• Approved special studies for 2024 and updated SEP list</li> <li>• Multi-Year Planning Workshop agenda</li> <li>• Update on WQIF Proposal PFAS Sources to Solutions and approved use of RMP funds as match.</li> <li>• Annual Meeting and RMP Update planning</li> </ul> <p>Materials: SC Meeting Summary, see pages 18-39</p> <p>Desired outcome:</p> <ul style="list-style-type: none"> <li>• Informed Committee</li> </ul>	<p>9:20 (15 min)</p> <p>Amy Kleckner</p>
4.	<p><b>Discussion: Workgroup Strategy Updates and Multi-Year Plan Workshop Planning</b></p> <p>An update on Workgroup efforts to update their strategies will be provided. Discuss priorities for the MYP Workshop.</p> <p>Materials: Slides presented at meeting</p> <p>Desired outcomes:</p> <ul style="list-style-type: none"> <li>• Informed Committee</li> <li>• Priority agenda items for MYP Workshop</li> </ul>	<p>9:35 (20 min)</p> <p>Jay Davis</p>
5.	<p><b>Information: S&amp;T Monitoring Update</b></p> <p>Update on implementation of the new S&amp;T design: monitoring and interlab comparison activities. Preview of 2024.</p> <p>Materials: Slides presented at meeting</p> <p>Desired outcomes:</p> <ul style="list-style-type: none"> <li>• Informed Committee</li> <li>• Input on S&amp;T implementation</li> </ul>	<p>9:55 (20 min)</p> <p>Amy Kleckner</p>

<b>6.</b>	<b>Discussion: Communications Update</b>  Discuss review of the RMP Update and Annual Meeting plans.  Materials: None  Desired outcomes: <ul style="list-style-type: none"> <li>• Informed Committee</li> </ul>	10:15 (30 min)  Jay Davis
<b>7.</b>	<b>Information: Status of Deliverables and Action Items</b>  Materials: Deliverables and Action Item tables, pages 32-42  Desired outcome: <ul style="list-style-type: none"> <li>• Informed committee</li> </ul>	10:45 (5 min)  Amy Kleckner
<b>8.</b>	<b>Discussion: Plan Agenda Items for Future Meetings</b>  Desired outcome: <ul style="list-style-type: none"> <li>• Identify future agenda items</li> </ul>	10:50 (5 min)  Jay Davis
	<b>Break</b>	10:55 (20 min)
<b>9.</b>	<b>Information: Preview of Annual Meeting Presentations</b>  RMP staff will present their slides for Annual Meeting presentations on PFAS and S&T CECs.  Materials: None  Desired outcome: <ul style="list-style-type: none"> <li>• Feedback on presentations</li> </ul>	11:15 (60 min)  Diana Lin, Ezra Miller
<b>10.</b>	<b>Discussion: Plus/Delta</b>	12:15 (5 min)  Bridgette DeShields
	<b>Adjourn</b>	12:20

### Recently Completed RMP Reports/Products

Yee, D.; Wong, A.; 2023. Re-evaluation of the Floating Percentile Method for Deriving Dredged Sediment Screening Guidelines. SFEI Contribution #1143. San Francisco Estuary Institute, Richmond, CA.



## 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 will 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.



## Bay RMP Steering Committee Meeting

August 24, 2023

### Meeting Summary

#### Attendees

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

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

#### Staff and Others

- Warner Chabot - SFEI
- Amy Kleckner - SFEI
- Beth Ebner - SFEI
- Luisa Valiela - EPA Region 9
- Jen Trudeau - SFEI
- Kayli Paterson - SFEI
- Rebecca Sutton - SFEI
- Kelly Moran - SFEI
- Xavier Fernandez - Water Board
- Patrick Walsh - SFEI
- Bella Clemenza DeLuca - SFEI
- “woof”

## 1. Introductions and Review Goals for the Meeting

Tom Mumley called the meeting to start and took a roll call. All steering committee members except for John Coleman were present and accounted for. He reviewed the agenda and recognized some standard issues related to fees and the MOU so that they did not catch members by surprise. They also need to put some attention into planning the multi-year workshop that will be happening this fall, as well as the annual meeting. Tom Mumley noted Jay's absence and the unfortunate circumstances that led to his absence, Tom and Amy Kleckner have stepped up to hold this meeting in his absence. With the introductions made and the agenda reviewed, the meeting was called to session.

## 2. Decision: Approve meeting Summary from SC meeting 4/26/23 (05:38)

The first item was to review the April steering committee meeting summary. Tom Mumley asked if anyone had any corrections they wanted to add to the summary, but no one did. Tom Mumley moved to approve the meeting summary from 4/26/23, and Adam Olivieri seconded the motion for approval. All members were in consensus and approved the motion.

After the April meeting notes were approved, Tom Mumley pivoted to talk about the upcoming steering committee meeting in November. Tom noted that the next annual meeting was October 12, 2023, and the committee had yet to schedule their meetings for 2024. They will set up the schedule for the 2024 meetings for consideration at the November meeting. Tom proposed having the meetings on the third Wednesday for the months of January, April, July/August, and October/November. Karin North asked to move the meetings from a Wednesday to a Thursday due to her number of planning meetings on Wednesdays. Adam Olivieri also stated that Wednesdays were a tough day for him to schedule a meeting as well. However, Eric Dunlavey had moved most of his standing meetings to Thursday. Adam Olivieri proposed moving the meetings to Mondays. Most members of the committee said that Mondays could work for them. Tom Mumley noted he had some internal meetings on Monday, but these could be shifted. Amy Kleckner noted moving the meetings to Mondays. However, she also noted that the third Monday in January was MLK day and that many holidays happened or were observed on Mondays. The 4th Monday of January looked like it could be a contender for the meeting, this decision will be postponed until November.

### **Decisions:**

- Tom Mumley motioned to approve the meeting summary from 4/26/23. Adam Olivieri seconded the motion. The motion was carried by all present members. The meeting summary from the SC meeting on 4/26/23 was approved.

### 3. Information: TRC Meeting Summary (8:54)

Amy Kleckner gave an update on the most recent TRC meeting and recent and upcoming accomplishments. Tom Mumley noted that he had perfect attendance for all the work group meetings and TRC meetings and was able to add input for all the special study project proposals.

### 4. Information: RMP Financial Update for Q2 (10:43)

Jen Trudeau presented the financial update for all projects since 2018 and the most recent audit. This financial report includes a summary of the surplus/deficit and balances for all projects since 2018. Jen Trudeau mentioned that the budget for 2023 is a \$98K surplus, which was updated from previous information released to the committee. The expenses for 2023 were on target; 31% has been expended for the year, and 43% of invoices have been received. The surplus of \$98K for 2023 is due to the receipt of SEP funds that were originally going to come from the RMP for \$118,250, so the budget was reduced by this amount for the calendar year 2023. The SEP funds received were to support task 45 Sediment Delivery to Marches in the C&N Bays. For 2022, 78% of funds have been expended, 98% of 2022 invoices have been received, and they have a surplus of \$18K, which has been reduced over the last few quarters from steering committee requests. For 2021, 85% of the budget has been expended, and 99% of invoices have been collected. There have been efforts to complete the invoices; however, they are still working on contacting the San Francisco Marina. Amy Kleckner noted an outstanding invoice with the water board and said she had contacted Jazzy and asked if there was someone else she should be contacting. Xavier Fernandez said he would follow up with Jazzy and see what is happening with this outstanding invoice. Tom Mumley noted that the invoice from the San Francisco Marina may be an issue with their internal bureaucracy, and he may have to exert some waterboard power to get them into compliance. For 2020, 93% of the budget has been expended, and 100% of the RMP fees have been collected. For 2019, 95% of the budget has been expended, and all fees have been collected. For 2018, 98% of the budget has been expended, and all fees have been collected. There is one final invoice from 2018, and that should be taken care of quickly then, the rest of the budget can be unencumbered and put into the reserve.

Jen Trudeau continued with the updated financial resources, summarized the undesignated funds, and noted that the rise in interest rates has been adding to this pool. Tom Mumley wanted to confirm that the budget surplus of around \$98K has not been acted on, and no formal action for these funds has been proposed yet. He noted that these funds could be allocated to a project that needs attention right now or placed into the reserve. Jen Trudeau moved on to talk about SFEI's most recent audit. Jen Trudeau stated that the audit for FY22 has been completed, and they will start the FY23

audit. The auditor is O'Conner and Company. Jen Trudeau noted that SFEI is two entities: SFEI and the Aquatic Science Center. The Aquatic Science Center is a JPA and is a pass-through, it does not have any employees. Karin North stated that she still did not understand the relationship between SFEI and the Aquatic Science Center and why these two entities existed. Jen Trudeau said that because the Aquatic Science Center is a JPA, it is a way for public entities to source them, and it is a way to contract with state and local entities. Tom Mumley elaborated on this a little further and said that the creation of the Aquatic Science Center made it easier for different state entities to contract with SFEI and pay fees. The auditor noted, for the general audit, that it was a clean opinion, and there were no findings. Since SFEI is over the threshold for federal funds received, a single audit was also performed. The auditor found that accounting methods and finances were solid, the program they tested represented 72% of the federal awards, and they found no issues. Jen noted that the First Republic Bank is SFEI's bank and was going through financial issues. SFEI had above the FDIC insured amount, and the board noted that this was something that should be reviewed. The RMP funds were not affected by this as they predominantly live in the LAIF funds.

Jen Trudeau noted that the audit took a while to complete, and they will try to complete this quicker as the audit informs their federal rate. She mentioned that they want to speed up the audit process so they are not slowing down the process with the Department of Interior to negotiate their federal rate. Karin North asked for clarification on what the federal rate was and why the process of negotiations was so important. Jen Trudeau explained that when the projects are ongoing, they use a provisional rate, and then once the audit happens, they need to go back over the project finances and add the audited rate set by the Department of Interior. It becomes more challenging to redo the finances with the new rate later. Jen wanted to know if she presented the right level of information or if more was needed. Karin North and Tom Mumley agreed there was enough information, and the audit was performed well and cleanly. Tom Mumley wanted to thank the team for a clean and thorough audit.

## **5. Information: Update on Fee Schedules and the MOU (42:00)**

Before going on to the next topic, Karin North noted that due to the pandemic and team expansions, there are a lot of new people as well as old people who have not interacted with that much at SFEI and it might be a good idea at the annual meeting to have some sort of introductions or mixer to get to know everyone. Kelly Moran noted that because of COVID, this may not be a feasible option because they can not mandate people to come in person to functions they may feel uncomfortable attending.

Tom Mumley continued the meeting and presented the RMP fees. He wanted to remind everyone of the 3-year scheduled fees; next year, they will have to consider and set the 3-year RMP fees. He wanted to note the lack of sustainability of the dredger fee

schedule. He asked Karin North and Eric Dunlavey if the municipal wastewater side wanted to restructure how the RMP fees were done. They said they did not want to restructure at this time and wanted to continue with the current fee structure. Tom wanted to bring this up to get this process rolling and that this could be something that needs to be worked on in 2024 and will bring this to John Coleman's attention as they plan for future meetings.

Karin North asked Adam Olivieri what the increases should be amongst the different municipalities. Adam noted that the RMP staff tend not to want to change the fee structure, and this keeps being moved around and the discussions delayed. Karin stated that in the archives, there are documents of the increases and progress for Amy Kleckner to look into and be able to justify any changes to the RMP fee structure. Tom Mumley talked about exploring if other RMP interests should be put into the RMP funds that are not. He noted that some North Bay municipalities are not contributing to the RMP that should be. He noted some future state board requirements may force these municipalities to contribute to the RMP as new TMDLs and other monitoring requirements are implemented. Other non-traditional municipalities may contribute to the stormwater load that have their own treatment systems, such as universities, transportation entities, parks, etc. Tom Mumley asked if we wanted to consider adding other entities to the RMP fees, such as these non-traditional municipalities. Other entities that they may want to consider including in the RMP fees are the potential new discharges associated with advanced wastewater treatment, such as the current project between Palo Alto and Valley Water. They are building a new advanced wastewater treatment plant with reverse osmosis and planning on discharging their treatments into the bay. Would this type of discharge make Valley Water contribute to the RMP based on other loading areas? Tom Mumley wanted to state that there should be a review of entities to add to the RMP fees. Adam Olivieri asked if Tom Mumley had formally asked the state board about the TMDL language or requirements, and Tom confirmed that yes, behind the State Board doors, they are working on TMDLs and other monitoring requirements, and the municipalities are aware of this, and these are being discussed.

Tom Mumley noted the MOU between SFEI and the Water Board should be amended every two years. However, this has not been amended in years. Tom Mumley said this should be put on the To-do list to trigger the Water Board to sign the amendment and update the document.

## 6. Approve Special Studies for 2024 and Review SEP list (59:00)

Before going into the list, Amy Kleckner wanted to address an issue that had come up. In the last TRC meeting, when they were approving the special studies, the strategy funds were not accounted for, and the strategy needs \$140,000. Tom Mumley

noted that the special projects were not rigorously ranked, and it may be difficult to designate what can be knocked off or cut back on as this had already been done on the workgroup level. Tom recommends that the steering committee consider the recommendation from the TRC and if funds from the undesignated reserve can be allocated for strategy. Tom Mumley wanted to emphasize that there is this \$140K issue and to carefully review the list of projects and see if something could be cut back on to fill this shortfall. There should be a more formal process for accounting for strategy funds in the future.

Amy Kleckner gave a broad overview of the special studies on the list and reviewed the match funds and the studies' backgrounds. For the special studies, there are 15 studies proposed by five workgroups and NMS for a total special studies budget of \$1,628,074. The funding for the special studies comes from core funding (\$1,188,568), alternative monitoring funds (CECs) (\$339,488), and stormwater CEC funds (\$100,000). Tom Mumley asked if we were able to follow up on the CEC stormwater funding. Amy Kleckner said that this funding issue was resolved, and the fees that were collected and invoiced for FY23 were already assumed in the RMP budget, and the same process will be repeated for FY24. Tom Mumley wanted to state that the funds for the CEC stormwater would be at the beginning of the fiscal year 2023. Tom confirmed with Adam Olivieri that this was the correct information, and Adam confirmed that this was consistent with the stormwater letters that they had received.

Amy Kleckner continued to review the list of special studies and noted the column where they asked for the early release of funds or had a match for the funds for WQIF projects. The stormwater CEC stormwater monitoring has requested an early release of funds since the water year 2024 starts in October. This will also be part of the proposal for match for the WQIF PFAS proposal. The PFAS synthesis and strategy has also been proposed as match for the WQIF PFAS proposal. The PFAS in Bay Water using TOP Assay is being leveraged for the S&T cruise. The PFAS and nontarget analysis of marine mammal tissues is also proposed for inclusion in the WQIF PFAS proposal as a match. For the CECs, the size distribution of microplastic particles in SF Bay was added to the SEP list. Amy Kleckner summarized the studies and the TRC recommendations for funding.

Tom Mumley wanted to know if action should be taken in this meeting to fund the remote samplers and release funds early for this project. He confirmed with Kelly Moran that the remote sampler funding was critical for the next stormwater cycle. She confirmed that for the project to work, at least some of the funds are needed for the fall/winter of 2023. Funds are needed this year to get the kinks worked out for this sampling season. Tom Mumley stated that the issue of funds being approved would be resolved in the November meeting, and they wanted to know how much Kelly Moran needed right now to get this project going. Kelly Moran stated that half of the proposed



budget would be sufficient, with the contingent that the rest would be released in November. Adam Olivieri asked if the project might need more than the proposed funding of \$180,000. Kelly stated that, at this moment, the proposed budget is their best estimate. Tom Mumley asked the committee if anyone had problems partially funding the stormwater sampler equipment using reserve funds. Karin North proposed authorizing the estimated amount shown now, which can be revised in November with more information. Adam Olivieri proposed a motion to approve the \$180,000 now as an upper bound with additional information to come this fall and for early release approve \$90,000. Maureen Dunn wanted to clarify that this was just for the cost of the samplers. Kelly Moran confirmed that this is just for the samplers. Adam Olivieri proposed the action item of approving the \$180,000 to purchase remote sampler equipment from the reserve funds as an upper bound, to be vetted at the November steering committee meeting. \$90,000 of the proposed \$180,000 will be released early. Tom Mumley called for the motion to be approved, Eric Dunlavey moved to approve, and Maureen Dunn seconded the motion. The committee passed the motion to release early funds for the remote sampler.

Tom Mumley motioned to approve the project list as recommended by the TRC, recognizing that the proposed list is \$140,000 short. Karin North approved the motion to approve the project list recommended by the TRC, Amanda Roa seconded the motion, and the list was approved by the committee.

Amy Kleckner proposed the early release of funds for three projects: the stormwater CECs Monitoring and Modeling, PFAS in Bay Water using TOP, and the Tidal Area Remote Sampler Pilot. Tom Mumley reminded the committee that they had enough funding buffer to do this, and this kind of early funds release had been done in the past for wet weather monitoring. Adam Olivieri moved to approve the motion, and Karin North seconded the motion. The early release of funds for the proposed projects was approved by the committee.

Amy Kleckner reviewed the SEP list of projects that have been reviewed and modified based on the workgroup and TRC committee's recommendations. Eric Dunlavey supported the motion to approve the updated list of SEP projects, and Adam Olivieri seconded the motion. The motion was approved by the committee.

### **Decisions:**

- Tom Mumley called for a motion to approve \$180,000 for the remote sampler equipment purchases from the undesignated reserve funds, with \$90,000 to be released early. Eric Dunlavey moved to approve the proposal, and Maureen Dunn seconded the motion. The motion was carried by all present members. (1:45:14)
- Tom Mumley called for a motion to approve the special studies project list as recommended by the TRC. Karin North moved to approve the list, and Amanda



Roa seconded the motion. The motion was carried by all present members.  
(1:48:00)

- Adam Olivieri moved to approve the early release of funds for three special studies projects: Stormwater CECs Monitoring and Modeling, PFAS in Bay Water using TOP, and the Tidal Area Remote Sampler Pilot. Karin North seconded the motion. The motion was carried by all present members.
- Eric Dunlavey moved to approve the updated list of SEP project proposals, and Adam Olivieri seconded the motion. The motion was carried by all present members. (1:53:00)

**Action Item:**

- Status report on the funding and timeline of the automated stormwater samplers for the steering committee at the November meeting. (Kelly Moran, 10/18/2023).
- Allocate early release funds (Beth Ebner, 9/15/2023)

## 7. Discussion: Multi-Year Planning Workshop Agenda (2:06:00)

Amy Kleckner gave updates on the workgroups and their progress that happened before August 2023. While reviewing the sediment workgroup management questions, Tom Mumley wanted to note that the first two management questions were grayed out as these focus more on contamination and not sediment movement, and the focus should be on the later management questions. Tom Mumley noted that all the workgroups are making progress, but all have much work still to do. He wanted to note that by November 2023, the workgroups will have an updated multi-year plan/project concept by then.

For the annual multi-year planning workshop, Tom Mumley asked Amy Kleckner if they had a set meeting agenda. Amy Kleckner clarified that they have some proposed items from previous agendas and listed possible agenda items for the next meeting. Tom Mumley wanted input on the proposed items and asked if anything of interest could be added to the list. Karin North noted that some time should be put towards inter-regulatory and policy drivers, which should be added to the list of possible agenda items. Karin North asked if Luisa Valiela and Tom Mumley could talk before the meeting to ensure alignment between the State and the EPA. Tom Mumley brought up that in the past, a small group of the TRC and steering committee members had met to develop the agenda for the multi-year workshop. He asked the group if anyone wanted to volunteer to help develop the multi-year workshop agenda. Adam Olivieri volunteered Chris Sommers (TRC committee) and himself to help with this effort over email. Luisa Valiela volunteered as well. Karin North wanted it noted that the TRC committee would be losing two of its reps from BACWA. Karin North proposed an agenda item for recognizing new participants to the RMP. Adam Olivieri asked if RMP staff would meet with members before the meeting, and Amy Kleckner confirmed that it is part of the plan to meet with members before November. Tom Mumley proposed creating a working

draft of the updated regulatory drivers for the meeting, he will work with his team and also work with Luisa Valiela. He requested Amy Kleckner to remind him of this item and ask for progress before the November meeting. Luisa Valiela voiced her excitement and commitment to work with Tom Mumley on the new regulatory drivers and for the EPA to help vet this information. She wanted clarification on whether this will be in draft form for the Multi-year meeting and finalized there or if it needs to be finalized before the meeting. Tom Mumley (Water Board) wants to create an updated draft of the regulatory table with Luisa Valiela (EPA) before the stakeholder meeting so they can give their input on the draft and propose revisions before the Multi-year planning meeting. At the Multi-year Planning meeting, they will agree and finalize the updated draft with the stakeholder inputs.

**Action Item:**

- Set a meeting for a small group of TRC and Steering Committee members to complete the Multi-year Workshop Agenda: Chris Sommers, Adam Olivieri, and Luisa Valiela (2:11:45) (Amy Kleckner, 10/1/2023)
- Tom Mumley, his team, and Luisa Valiela with the EPA will work together to create a working draft of updated regulatory drivers. (2:15:00) (Tom Mumley, 11/1/2023)

## **8. Decision: WQIF - Proposal and Use of RMP Funds for Match (2:20:50)**

Tom Mumley wanted to clarify that the use of RMP funds for match is the commitment of future year's funds for matching. Amy Kleckner brought up that there are two proposals, in addition to the PFAS proposal, that have requested RMP match funding. Kelly Moran gave an overview of the PFAS WQIF monitoring proposal and how they are working to leverage RMP funds to match the funds they are hoping to obtain from the EPA to understand product sources of PFAS in wastewater and urban runoff. The Department of Toxic Substances Control, which has a consumer products regulatory program, does not have any research funds, and they have a gap in moving forward in PFAS monitoring even though it is a state and federal priority and a pollutant of high concern in SF Bay. Kelly Moran reported to the TRC committee that she had a conversation with the DTSC head of the safer consumer products program and that they are interested in partnering with SFEI for PFAS monitoring in the Bay. BACWA has long been partnered with SFEI regarding PFAS and has offered a substantial match regarding the PFAS monitoring. The bulk of the match is in the first task: Bay PFAS monitoring and load calculations. For task two: Product Sources, product-pollution linkages, and solutions, SFEI is seeking funding, and it has been suggested they work with the University of Indiana as they have extensive experience testing products for different kinds of PFAS content. DTSC was really pushing to include task two: product

sources, product-pollution linkages, and solutions at a substantial funding level, and now SFEI is looking to fund a postdoc for two years to do that kind of testing. Kelly Moran stated that she is not sure this will work but is optimistic as other chemicals that were thought to be ubiquitous had results for these kinds of studies. There are tasks for data gaps and put forth a road map for lessons learned to guide future work in this area. DTSC is excited about this project and has provided a substantial match as well as doing product testing themselves to contribute manpower and data to the project.

Tom Mumley wanted to know what PFAS analytes will be examined and what will be monitored for this project. Kelly Moran doesn't want to rule anything out, and there are a lot of complexities with PFAS and challenges in analyzing the different types of PFAS and how to link them back to their sources. Tom Mumley wanted it known that this project has large DTCS buy-in partly because it will generate data he knows they will use. Adam Olivieri wanted to know if the EPA was not already doing some of the research related to Task 2. Luisa Valiela stated that the EPA is doing some of the research related to Task 2 but not product-related research; it is predominantly treatment and methodology-related. Kelly Moran wanted it noted that the EPA has a PFAS action plan and supports the implementation of that action plan. Maureen Dunn wanted to know if SFEI will monitor municipal discharges related to Task 1 and wastewater and sewershed monitoring. Kelly Moran answered that BACWA is proposing a substantial match to cover the lab cost proposed with the increased monitoring and sampling. Karin North noted that the municipalities are funding and partnering with SFEI for the robust QA/QC. Amanda Roa noted that they are monitoring effluent and collection system monitoring. Maureen Dunn noted that the refineries do not have PFAS monitoring yet, and this is a blind spot until refinery PFAS monitoring happens. Kelly Moran continued with the project's proposal, summarizing the third task, which involves a significant amount of science communication and collaboration with partners doing similar research in Canada and Europe. They will bring on extra science advisors who are knowledgeable in this field and funds for community partners to do community outreach. Kelly Moran thanked all the agencies and contributors who made this project possible.

The total proposed RMP match for the WQIF-PFAS proposal is \$1,079,244. The match comes from two RMP areas: the S&T PFAS sampling events in 2024-2026 (water, bird eggs, sportfish, marine mammals) and two special studies (PFAS synthesis and strategy and stormwater CECs). Tom Mumley wanted to know what level of funding detail they needed for the proposal. Amy Kleckner stated that the numbers are not as whole because when you adjust for the federal rate, it impacts the wholeness of the proposed costs. Lusia Valiela confirmed that the amount of the proposed match has to be exact, and the federal funds will only match the dollar amount proposed, and projects can be overmatched but not under matched as this would make them ineligible for EPA review. Adam Olivieri wanted to make sure that we know where the numbers that make

up the \$1,079,244 proposed budget came from and to make sure we have these funds available and know exactly how much each project contributes. Tom Mumley proposed to commit the RMP matching funds for the WQIF-PFAS project. Adam Olivieri moved to approve the proposal, and Amanda Roe seconded this proposal. The proposal was approved by the committee.

Amy Kleckner reviewed the Sediment Solutions and Beneficial Baylands RMP match funds requests. Tom Mumley wanted clarification because, as he sees it, Sediment Solutions is a 2022 project where funds have already been committed, and the project is underway. Amy Kleckner shared that originally, the plan was for the sediment projects to be used as match funds for Sediment Solutions. It has since been proposed that the match go to the Beneficial Baylands proposal. It should be noted that one of the Bay RMP sediment projects (Temporal Variability in Sediment Delivery to a North & Central SF Bay Salt Marsh \$130k) will likely be completely billed out before the Beneficial Baylands project gets started. The Sediment Workgroup project that would be in play during the Beneficial Baylands project is a special study: Spatial variability of sediment accretion in San Francisco Bay restorations for \$200k. Karin North proposed supporting Amy Kleckner on the decisions for these match funds and making sure they are thoroughly documented to make sure no double counting is happening. Tom Mumley wanted to note the WRMP does not have funding for sediment monitoring. Adam Olivieri proposed approving the motion for the funding from the two projects listed to be used as match and also directing Amy Kleckner to distribute the match funds. Eric Dunlavey seconded the motion, and the motion was approved by the committee.

**Action Item:**

- Document which WQIF proposal the two RMP sediment projects will be applied to as match (Amy Kleckner, 9/1/2023)

**Decisions:**

- Commitment of RMP matching funds for the WQIF-PFAS proposal was approved. (2:50:00)
- The designation of the Sediment Solutions/Beneficial Baylands Match funding was approved with the direction that Amy Kleckner is responsible for the decision on how to use the match and to document how the matching funds were utilized. (3:00:00)

## 9. Break for Lunch

## 10. Decision: Nutrient Management Strategy Fund RMP Match (3:06:00)

Tom Mumley brought up the nutrient management strategy. This would not be the commitment of future dollars but dollars that have already been committed. Eric Dunlavey proposed an action to approve the use of RMP-committed funds to be used as a match for a WQIF proposal for nutrient-related monitoring work. These are already RMP's available funds. Tom Mumley wanted to know at what level of formality this will undergo. Would he need to sign a letter authorizing the use of funds for match like he did with the other RMP match fund projects? Tom Mumley clarified that for the nutrient project, a proposal has been submitted to do nutrient monitoring above and beyond the scope of what had previously been proposed, and they were asking to get match funds from the RMP. Karin North noted that RMP does not oversee the nutrient-related projects but looks to Eric Dunlavey and Tom Mumley for guidance as they sit on the nutrient committees. Karin North proposed this motion, and Eric Dunlavey seconded the motion, this motion passed the committee.

### **Action Item:**

- Record what RMP funds are being allocated and tracked. (Amy Kleckner, 9/8/2023)

### **Decisions:**

- Approved the use of existing RMP committed funds to be used as a match for the WQIF proposal for nutrient monitoring.  
(3:15:00)

## 11. Decision: Communications (3:16:00)

This part of the meeting focuses on the upcoming RMP Annual Meeting. Amy Kleckner presented last year's Annual Meeting agenda and the different sessions that were presented. Amy Kleckner reviewed the list of noteworthy projects completed in the last year that may be possible to present on in the upcoming annual meeting. Tom Mumley noted that the conceptual understanding of fine sediment transport in the SF Bay project was presented last year but only recently completed. This project will be removed from the list of possible projects to present.

Amy Kleckner showed the draft annual meeting agenda that was shared with the TRC. Tom Mumley wanted to know if the bolded items all have speakers associated with their topics, and they have confirmed that they'll be speaking. Amy Kleckner is pretty sure that all the possible speakers have confirmed that they will be speaking at the annual meeting but will confirm with Jay. Tom Mumley objects to the changing

climate effect on hydrology and water quality presentation being presented at the RMP annual meeting. He does not feel that the science behind this presentation is supported enough to be presented at the meeting. He and Karin North proposed other topics to fill the time, such as an extended Q&A session with Tom or structured networking time. Kelly Moran brought up that there is pressure to have topics that may be tangentially related to RMP but are of interest to the public or stakeholders. Climate change is a big topic of interest, and this presentation was proposed by Jay Davis to address these concerns. Karin North noted that Tom Mumley could touch on these topics in his presentation, then they aren't highlighting a speaker that is not directly related to an RMP study, and the agenda should be RMP specific. Tom Mumley did not need a decision on these concerns at this meeting, but they will revisit it in the future. Tom Mumley approves of the two new topics that have been proposed, the nutrients and sediment presentations. Tom noted that Lester McKee recently completed a tangentially related sediment study about sand, however, he would not be able to fly in from New Zealand to present the study and, therefore not a good candidate to present at the meeting.

Rebecca Sutton shared that she attended The PFAS in cosmetics presentation by Simona Balan (DTSC), at the most recent ACS conference and was able to give a summary of what this presentation would entail. Tom Mumley was intrigued that Simona Balan had a presentation ready, making her a reasonable candidate to present at the meeting. Eric Dunlavey noted that her presentation should fit with the Phase 2 BACWA presentation reasonably well. Karin North proposed contacting Simona Balan first and Wendy Linck second to see who would be more interested in presenting at the RMP annual meeting. Tom Mumley was also unfamiliar with the Green Science Policy Institute and what kind of work they did. Rebecca Sutton is also unfamiliar with their work but fairly certain they have a presentation regarding PFAS as they had put out a report about it recently. Tom Mumley was hesitant to go forward with the Green Science Policy Institute PFAS presentation as he thinks this may be putting too much focus on PFAS building materials before the evidence has been collected.

Tom Mumley asked for other presentation ideas and Rebecca Sutton mentioned that another talk she suggested was Rob Budd at DPR and their overarching pesticides conceptual model that was presented at ACS. Karin North noted the sunscreen in wastewater study had just been finished, however, Kelly Moran did not think this topic was very exciting. Tom Mumley proposed presenting the bisphenol information, and Rebecca Sutton mentioned that Ezra Miller may be available to present this topic. Kelly Moran proposed the tire particle wash-off load estimate paper, which she could present or Ezra Miller. This presentation is ready to go and has received a good reception at the conference. Karin North believes that the tire presentation would be of interest to many people who are not fully attuned to what the RMP does and it has wide applicability, Eric Dunlavey also thinks this is a good topic presentation. Tom Mumley moves to consider



the bisphenol, pesticide, and tire presentations to replace the Green Science Policy Institute presentation. Another idea would be to sacrifice a talk during the meeting for more attendee interaction.

For the RMP update the feature project will be the stormwater CECs and the updated draft will be distributed for review by the first week of September. Tom Mumley mentioned that in the upcoming TACA conference, he'll be giving a presentation on the RMP.

**Action Item:**

- Confirm speakers for the annual meeting and finalize agenda (Amy Kleckner/Jay Davis 9/15/2023)

## **12. Deliverables and Action Items (3:59:11)**

Amy Kleckner reviewed the items that have been completed or will be completed soon as well as the deliverables that are overdue or delayed. Tom Mumley asked if Tony Hale could CC him in the communications with MTC Bay area land use updates. Tom Mumley said we may have to reevaluate our selenium efforts based on the issues with these projects.

## **13. Discussion: Plan Agenda Items for Future Meetings (4:11:10)**

Amy Kleckner opened with ideas for the November meeting. Maureen Dunn wanted to know when we talk about the Pulse or any publications, Tom Mumley mentioned that next year a Pulse will be released so they will start the discussions for the next meeting in November. For now, the proposed meeting topics are good enough for the next meeting.

## **14. Discussion: Plus/Delta (4:13:00)**

No committee members or attendees had feedback on the meeting and the meeting was adjourned.



# RMP

REGIONAL MONITORING  
PROGRAM FOR WATER QUALITY  
IN SAN FRANCISCO BAY

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## Status of RMP Deliverables and Action Items (5 minutes)



# Deliverables & Action Items - completed!

- 😊 Deep Bay Sediment Cruise - SAP SFEI Contribution No. 1138
- 😊 2023 S&T Deep Bay Sediment Cruise
- 😊 Quantifying Stormwater Flow and Sediment Flux to the Bay (SEP) - Technical Report (SFEI Contribution No. XXX)
- 😊 Floating Percentile Method Report - SFEI Contribution No. 1143
- 😊 Sediment Dynamics Assessment and Uncertainty Analysis for San Francisco Bay (SEP) - SFEI Contribution No. 1114
- 😊 S&T Lab Intercomp Study Design

# Deliverables – Overdue...

- MTC Bay Area Land Use Update (SEP)
- Selenium in North Bay Clams and Water
- Stormwater Monitoring Strategy for CEC's
- CEC modeling exploration

# 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
- CECs in Urban Stormwater Manuscript

# Deliverables – due before next TRC meeting

- 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	Tony Hale	04/30/23	03/31/21	891	🚩	🚩	3	🔴	9/6/2023 - On 8/17 Vikrant Sood responded to an email request from Tony to get a release date stating he would look into it. No response. Tony followed up again with Vikrant on 9/6. 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	800	🚩	🚩	5	🔴	9/6/23 - Draft still in review. 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 (2023)	Special Study: STLS Regional Model Development	Model data collation and preparation	tanz@sfei.org	08/30/23			🚩	🚩		🔴	9/6/23 - Tan's departure delayed deliverables associated with this project. Revised timeline in development.
4		Bay RMP (2023)	G. Nearfield and margins sediment & prey fish	Complete contracts	Miguel Mendez	08/31/23	06/01/23	99	🚩	🚩	2	🔴	8/16/23 - Waiting on SJSURF to return with signatures.
5		Bay RMP (2022)	Special Study: Stormwater monitoring strategy for CEC's	Final strategy document	Kelly Moran	09/01/23			🚩	🚩		🔴	9/6/23 - Tan's departure delayed deliverables that went into the development of this strategy document. Requires insights from ongoing modeling and data science special studies. Pending additional remote sampler design to improve functionality for other CECs. Remote sampler had some technical challenges and we are looking to our advisors for consultation on priorities and next steps. Revised timeline depends on hiring process.
6		Bay RMP (2022)	Special Study: CEC modeling exploration	Report	Pedro Avellaneda	09/01/23	12/31/22	251	🚩	🚩		🔴	9/6/23 - Draft is still under internal review. 7/18/23 - Becky partway through review. Kelly and Lester need to review and Pedro needs to edit. Important for Stormwater CEC strategy. 7/8/2023 Draft in review Assigned now to Pedro
7		Bay RMP (2023)	4. Annual Reporting	2023 Annual Meeting Agenda	Jay Davis	09/15/23	07/30/23		🚩	🚩	2	🟡	8/16/23 - will be finalized at 8/24 SC meeting.
8		Bay RMP (2023)	C. 2023 Dry season Bay Water Cruise	Collect samples	Amy Kleckner	09/18/23			🚩	🚩		🟡	9/7/23 - Cruise delayed due to boat engine issues.
9		Bay RMP (2023)	2. Governance	September TRC Meeting	Amy Kleckner	09/22/23			🚩	🚩		🟡	
10		RMP SEP	15. North Bay Selenium Clam and Water Data Management and Reporting	Report	Jay Davis	09/30/23	12/01/21	646	🚩	🚩	3	🟡	8/16/23 - Jay is reviewing draft report from Melissa. Estimated completion by end of September.
11		Bay RMP (2021)	3. QA and Data Services	QA Summary Report for 2021 S&T Activities	Don Yee	09/30/23	09/30/22	343	🚩	🚩	4	🟡	9/6/23 - Data has been delivered from AXYS, waiting on DS to confirm which data sets have been received. 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?
12		Bay RMP (2021)	Selenium in Clams	Task 4. Draft Report	Amy Kleckner	09/30/23	12/31/22	251	🚩	🚩	1	🟡	delayed to allow for 2022 collections before working on the report
13		Bay RMP (2021)	DMMO Database	DMMO Database Enhancements	Cristina Grosso	09/30/23	12/31/21	616	🚩	🚩	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.
14		Bay RMP (2022)	3. QA and Data Services	QA Summary Report for 2022 S&T Activities	Don Yee	09/30/23			🚩	🚩		🟡	
15		Bay RMP (2023)	3. QA and Data Services	QAPP Update	Don Yee	09/30/23	04/30/23	131	🚩	🚩	3	🟡	9/6/23 - Draft in progress, waiting on updates on target MDLs. 8/16/23 - Late request to add PFAS TOP, estimated to be completed by 9/15/23.
16		Bay RMP (2023)	4. Annual Reporting	RMP Update	Jay Davis	09/30/23			🚩	🚩		🟡	9/6/23 - Draft in progress.
17		Bay RMP (2023)	5. Communications	Q3 RMP eUpdate	Amy Kleckner	09/30/23			🚩	🚩		🟡	
18		Bay RMP (2023)	5. Communications	Updates to RMP website - Q3	Martin Trinh	09/30/23			🚩	🚩		🟡	
19		Bay RMP (2023)	E. 2023 Wet season water sampling	Complete contracts	Beth Ebner	09/30/23			🚩	🚩		🟡	9/6/23 - Draft in progress.
20		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.
21		Bay RMP	<b>S&amp;T Design Report</b>	Final Report	Melissa Foley	09/30/23	06/20/23	80	🚩	🚩	?	🟡	7/18/23 - Waiting on comments from Tom Grieb. Moving forward incorporating comments from others. Revised timeline to completion is 9/30/23.
22		Bay RMP (2023)	4. Annual Reporting	Annual Meeting	Amy Kleckner	10/14/23			🚩	🚩		🟡	
23		Bay RMP (2020)	6. Status and Trends Monitoring	Final Margins report	Don Yee	10/15/23	12/31/21	616	🚩	🚩	6	🟡	9/6/23 - Re-analyses on some ancillary vs target analytes to be done. Limited staff capacity to do the statistical reanalysis requested. 8/16/23 - Sent to Richard L. and Luisa V. for feedback.
24		Bay RMP (2023)	2. Governance	October SC Meeting	Amy Kleckner	10/20/23			🚩	🚩		🟡	
25		Bay RMP (2023)	1. Program Management	2024 Multi-Year Plan	Amy Kleckner	10/23/23			🚩	🚩		🟡	
26		Bay RMP (2023)	1. Program Management	2024 Detailed Workplan and Budget	Amy Kleckner	10/23/23			🚩	🚩		🟡	
27		Bay RMP (2023)	1. Program Management	Update Deltek Program Plans for Open RMP Years	Jennifer Hunt	10/24/23			🚩	🚩		🟡	
28		Bay RMP (2023)	1. Program Management	SC Meeting Stoplight Report	Amy Kleckner	10/24/23			🚩	🚩		🟡	

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29	Bay RMP (2023)	Special Study: STLS Regional Model Development	Control measures impact estimation	tanz@sfei.org	10/30/23			🚩	🚩		🟡	9/6/23 - Tan's departure delayed deliverables associated with this project. Revised timeline in development.
30	RMP SEP	29. PFAS in Archived Sport Fish Communications Supplement	Manuscript	Miguel Mendez	10/31/23			🚩	🚩		🟡	9/7/23 - Draft manuscript estimated to be out for review in mid October. Poster presentation at SETAC 4/30-5/4
31	Bay RMP (2021)	Small Tributaries Loading POC Watershed Reconnaissance Monitoring	Laboratory analysis, QA & Data Management	Adam Wong	10/31/23	09/01/21	737	🚩	🚩	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.
32	Bay RMP (2023)	5. Communications	RMP Update to BACWA	Amy Kleckner	10/31/23			🚩	🚩		🟡	
33	Bay RMP (2023)	5. Communications	RMP Update to BAMS (Bay Area Municipal Stormwater)	Amy Kleckner	10/31/23			🚩	🚩		🟡	
34	Bay RMP (2023)	5. Communications	RMP Update to LTMS	Amy Kleckner	10/31/23			🚩	🚩		🟡	
35	Bay RMP (2023)	5. Communications	RMP Update to BPC	Amy Kleckner	10/31/23			🚩	🚩		🟡	
36	Bay RMP (2023)	5. Communications	RMP Update to WSPA	Amy Kleckner	10/31/23			🚩	🚩		🟡	
37	Bay RMP (2023)	5. Communications	RMP Update at RB2 Meeting	Amy Kleckner	10/31/23			🚩	🚩		🟡	
38	Bay RMP (2023)	1. Program Management	Q3 RMP Financial Report	Jennifer Hunt	11/01/23			🚩	🚩		🟡	
39	Bay RMP (2022)	F. North Bay Selenium Monitoring Data Management	Process and upload data	Adam Wong	11/15/23	05/31/23	100	🚩	🚩	3	🟡	9/6/23 - All data formatted. Clam data QA reviewed, water and ancillary data formatted but awaiting QA by Miguel.
40	RMP SEP	30. Analysis and Reporting of NTA Sediment Data	Manuscript	Ezra Miller	11/30/23			🚩	🚩		🟡	Continuation of 3018-036.
41	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	69	🚩	🚩	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.
42	Bay RMP (2023)	2. Governance	December TRC Meeting	Amy Kleckner	12/09/23			🚩	🚩		🟢	
43	Bay RMP (2023)	PFAS and NTA in Marine Mammals (year 1 of 2)	Task 2. Sample collection	Rebecca Sutton	12/30/23			🚩	🚩		🟢	
44	Bay RMP (2023)	PFAS in Archived Sport Fish	Task 6. Final report	Miguel Mendez	12/30/23			🚩	🚩		🟢	
45	Bay RMP (2023)	Special Study: STLS Regional Model Development	Final modeling report and data sharing portal	tanz@sfei.org	12/30/23			🚩	🚩		🟢	
46	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
47	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
48	Bay RMP (2023)	Special Study: Sediment Delivery to Marshes in C&N Bays: project expansion	Data release: deposition, accretion, and vegetation characteristics (WERC)	Melissa Foley	12/30/23			🚩	🚩		🟢	
49	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
50		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.
51		RMP SEP	30. Analysis and Reporting of NTA Sediment Data	Ezra Miller	12/31/23			🚩	🚩		🟢	
52	PCB Strategy	Bay RMP (2019)	Priority Margin Unit Stormwater PCB Monitoring	Alicia Gilbreath	12/31/23	04/30/20	1226	🚩	🚩	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). <a href="https://www.sfei.org/sites/default/files/events/PCBWG%20-%2002%20-%20Priority%20Margin%20Unit%20Stormwater%20PCB.pdf">https://www.sfei.org/sites/default/files/events/PCBWG%20-%2002%20-%20Priority%20Margin%20Unit%20Stormwater%20PCB.pdf</a> 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.
53	Selenium Strategy	Bay RMP (2019)	Selenium in Muscle Plugs	Amy Kleckner	12/31/23	03/31/20	1256	🚩	🚩	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. <a href="https://www.sfei.org/sites/default/files/events/SeWG%20-%2003%20-%20Sturgeon%20Muscle%20Plug.pdf">https://www.sfei.org/sites/default/files/events/SeWG%20-%2003%20-%20Sturgeon%20Muscle%20Plug.pdf</a>
54		Bay RMP (2020)	21. Priority Margin Unit Stormwater PCB Monitoring	Alicia Gilbreath	12/31/23	04/30/21	861	🚩	🚩	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.

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55	Bay RMP (2021)	F. 2021 Bird Egg Data Mgmt	Processing and upload bird egg data	Adam Wong	12/31/23	10/31/22	312	🚩	🚩	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.
56	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	251	🚩	🚩	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
57	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	251	🚩	🚩	2	🟢	8/16/23 - Partners at Stanford still working on the draft. Estimate completion by end of 2023.
58	Bay RMP (2021)	Selenium in Clams	Task 5. Final Report	Amy Kleckner	12/31/23	02/28/23	192	🚩	🚩	1	🟢	delayed to allow for 2022 collections before working on the report
59	Bay RMP (2022)	Special Study: CEC in Urban Stormwater Year 4	Final manuscripts and management summary	Rebecca Sutton	12/31/23	09/30/23	-22	🚩	🚩	1	🟢	9/6/23 - Draft manuscript is expected in October. Final manuscript expected to be submitted for publication by the end of the year.
60	Bay RMP (2022)	Special Study: Tire-related contaminants in Bay water (wet season)	Final stormwater manuscript	Rebecca Sutton	12/31/23	09/30/23	-22	🚩	🚩	1	🟢	9/6/23 - Draft manuscript is expected in October. Final manuscript expected to be submitted for publication by the end of the year.
61	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	8	🚩	🚩	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.
62	Bay RMP (2022)	Special Study: DMMO Database Enhancements	Make testing results accessible on the DMMO website	Cristina Grosso	12/31/23	12/31/22	251	🚩	🚩	2	🟢	5/29/23 - Need to complete enhancements task first. Delayed.
63	Bay RMP (2022)	Special Study: STLS WY21 POC Recon Monitoring	Final report	Alicia Gilbreath	12/31/23	06/30/23	70	🚩	🚩		🟢	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.
64	Bay RMP (2022)	Special Study: STLS Regional Model Development	Final modeling report and data sharing portal	tanz@sfei.org	12/31/23			🚩	🚩		🟢	
65	Bay RMP (2023)	1. Program Management	RMP Participation Letters for BACWA and WSPA Agencies	Amy Kleckner	12/31/23			🚩	🚩		🟢	
66	Bay RMP (2023)	1. Program Management	Honoraria Payments to Science Advisors	Amy Kleckner	12/31/23			🚩	🚩		🟢	
67	Bay RMP (2023)	3. QA and Data Services	Online Data Access CD3	Cristina Grosso	12/31/23			🚩	🚩		🟢	
68	Bay RMP (2023)	3. QA and Data Services	Database Maintenance	Adam Wong	12/31/23			🚩	🚩		🟢	
69	Bay RMP (2023)	3. QA and Data Services	Updates to SOPs and Templates	Adam Wong	12/31/23			🚩	🚩		🟢	
70	Bay RMP (2023)	3. QA and Data Services	DMMO Database Support	Cristina Grosso	12/31/23			🚩	🚩		🟢	
71	Bay RMP (2023)	5. Communications	Q4 RMP eUpdate	Amy Kleckner	12/31/23			🚩	🚩		🟢	
72	Bay RMP (2023)	5. Communications	Updates to RMP website - Q4	Martin Trinh	12/31/23			🚩	🚩		🟢	
73	Bay RMP (2023)	A. USGS Sacramento Support	Continuous suspended sediment monitoring at 5 stations	Amy Kleckner	12/31/23			🚩	🚩		🟢	
74	Bay RMP (2023)	B. USGS Menlo Park Support-Contract	Monthly measurements of basic water quality at 38 stations	Amy Kleckner	12/31/23			🚩	🚩		🟢	
75	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			🚩	🚩		🟢	
76	Bay RMP (2023)	J. Sample Archive	Short-term RMP sample archive purging	Martin Trinh	12/31/23			🚩	🚩		🟢	
77	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			🚩	🚩		🟢	
78	Bay RMP (2023)	K. S&T Field Sampling Report & Support	Garage & lab manager	Martin Trinh	01/01/24			🚩	🚩		🟢	
79	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.
80	Bay RMP (2023)	22. Nutrients moored sensors	Sensors deployed, downloaded, maintained, and calibrated	Dave Senn	01/30/24			🚩	🚩		🟢	
81	Bay RMP (2023)	Special Study: Tidal Area Remote Sampler	Report (draft and final)	Don Yee	01/30/24			🚩	🚩		🟢	

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82		Bay RMP (2023)	1. Program Management	Q4 RMP Financial Report	Jennifer Hunt	01/31/24							
83		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							
84		Bay RMP (2023)	H. Nearfield and margins sediment & prey fish data mgmt.	Process and upload sampling data	Adam Wong	02/28/24							
85		Bay RMP (2023)	M. Ambient Bay sediment data mgmt.	Process and upload sampling data	Adam Wong	02/28/24							
86			I. S&T Laboratory Intercomparison Studies	Presentation to the TRC on findings from IC studies.	Don Yee	03/01/24							
87		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							
88		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							
89		Bay RMP (2023)	Nontargeted Data Mining	Task 3. Presentation to ECWG on additional targets	Rebecca Sutton	04/30/24							
90		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							
91		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
92		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
93		Bay RMP (2022)	Special Study: PCB In-Bay contaminant modeling (SLB)	Draft Report	Jay Davis	05/01/24	05/01/22	495					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.
94		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.
95		Bay RMP (2023)	E. 2023 Wet season water sampling	Collect samples	Amy Kleckner	05/01/24							
96	Emerging Contaminants	RMP SEP	19. Quaternary Ammonium Compounds (QACs) in Bay Area Wastewater	Present data at ECWG	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.
97		RMP SEP	23. Integrated Watershed Bay Modeling Strategy and Pilot Implementation	Report	Lester McKee	06/01/24	12/31/23	-114					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.
98		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	737			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.
99		Bay RMP (2023)	Nontargeted Data Mining	Task 4. Spreadsheet of compiled data mining results	Rebecca Sutton	07/30/24							
100		Bay RMP (2022)	Special Study: PCBs in sediment and fish SS/RC	Technical Report	Jay Davis	08/01/24							
101		Bay RMP (2023)	Special Study: PCBs in sediment and fish SS/RC (Year 2)	Final Technical Report	Jay Davis	08/30/24							
102	Emerging Contaminants	RMP SEP	19. Quaternary Ammonium Compounds (QACs) in Bay Area Wastewater	Technical Memo	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.
103		Bay RMP (2022)	Special Study: Sediment delivery to marshes in C&N Bay	Report	Melissa Foley	09/01/24	12/01/23	-84					Jessie Lacy and Karen Thorne (USGS) doing the work
104		Bay RMP (2023)	3. QA and Data Services	QA Summary Report for 2023 S&T Activities	Don Yee	09/30/24							
105		Bay RMP (2023)	Special Study: STLS WY21 POC Recon Monitoring	Laboratory analysis, QA, & Data Management	Alicia Gilbreath	09/30/24							
106		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							
107		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							
108		Bay RMP (2023)	F. 2023 Wet season water data mgmt.	Process and upload wet season water sampling data	Adam Wong	10/31/24							



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
109	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			🚩	🚩		●	
110	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			🚩	🚩		●	
111	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
112	Bay RMP (2023)	Special Study: Sediment Flux Richmond Bridge	Data release	Scott Dusterhoff	12/31/24	05/11/23	120	🚩	🚩	1	●	Work not moving forward in 2023 as planned
113	Bay RMP (2023)	Special Study: STLS WY21 POC Recon Monitoring	Interpretation & reporting for BAMSC	Alicia Gilbreath	02/28/25			🚩	🚩		●	
114	RMP SEP	32. Temporal variability in sediment delivery to a North and Central SF Bay Salt Marsh	Final Report	Melissa Foley	04/01/25			🚩	🚩		●	
115	RMP SEP	26. PFAS & Chlorinated Paraffins in Bay Sediment	?	Rebecca Sutton	04/04/25			🚩	🚩		●	
116	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			🚩	🚩		●	
117	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			🚩	🚩		●	
118	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			🚩	🚩		●	
119	Bay RMP (2023)	Special Study: STLS WY21 POC Recon Monitoring	Final report	Alicia Gilbreath	06/30/25			🚩	🚩		●	
120	RMP SEP	28. SF Bay Sediment Transport and Fate Modeling	Technical Report	Dave Senn	09/05/25			🚩	🚩		●	
121	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			🚩	🚩		●	
122	Bay RMP (2023)	PFAS and NTA in Marine Mammals (year 1 of 2)	Task 6. Final manuscript(s)	Rebecca Sutton	09/30/25			🚩	🚩		●	
123	RMP SEP	31. Investigating HABs in SF Bay	Data made publicly available	Dave Senn	06/30/26			🚩	🚩		●	
124	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	226	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 - 08/24/23	Status report on the funding and timeline of the automated stormwater samplers for the SC at the November meeting	Kelly Moran	10/18/23								08/24/23
4	Action Items - 08/24/23	Schedule meeting of a small group of TRC and SC members to complete the MYP workshop agenda	Amy Kleckner	10/01/23								08/24/23
5	Action Items - 08/24/23	Create a working draft of updated regulatory drivers	Tom Mumley	11/01/23								08/24/23
6	Action Items - 08/24/23	Confirm speakers and finalize agenda for the Annual Meeting	Amy Kleckner	09/15/23								08/24/23
7	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	85	1				8/16/23 - Waiting on Melissa for an updated draft, will send free standing text to Melissa.	05/16/23
8	Action Items from 06/20/23	Post updated SEP list to RMP website	Martin Trinh	09/30/23	09/04/23	4	1				9/6/23 - will include in Q3 website updates. Extend due date until 9/30.	06/20/23
9	Action Items from 06/20/27	List of all the agencies using our data in the data overview tab on the RMP website	Martin Trinh	09/30/23	09/04/23	4	1				9/6/23 - will include in Q3 website updates. Extend due date until 9/30.	06/20/23
10	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
11	TRC Action Items from 09/22/21	Gather small group for Bivalve design review	Jay Davis	12/31/23	01/31/22	585	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
12	November 2022 Meeting											11/02/22
13	April SC											04/26/23
14	August SC											08/24/23
15	June 2023 TRC											06/20/23