



## Technical Review Committee

September 22, 2021  
9:30 AM – 1:15 PM

### REMOTE ACCESS

Description:

Join Zoom Meeting

<https://zoom.us/j/91581187150>

Meeting ID: 915 8118 7150

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### AGENDA

1.	<b>Introductions and Review Agenda</b>	9:30 (10 min)  Bridgette DeShields
2.	<p><b>Decision: Approve Meeting Summary from June 23, 2021, and Confirm/set Dates for Future Meetings</b></p> <p>Scheduled meetings: Steering Committee - October 20, 2021 (MYP Workshop) January 26, 2022</p> <p>Technical Review Committee - December 9, 2021</p> <p>Proposed meetings: March 23, 2022 June 22, 2022</p> <p><b>2021 Annual Meeting (virtual): October 14, 2021</b></p>	9:40 (10 min)  Bridgette DeShields

	<p><b>2022 Annual Meeting date: October 13, 2022</b></p> <p>Materials:</p> <ul style="list-style-type: none"> <li>• TRC Meeting Summary, see pages 4-10</li> </ul> <p>Desired outcomes:</p> <ul style="list-style-type: none"> <li>• Approve meeting summary</li> <li>• Schedule future TRC meeting dates</li> </ul>	
3.	<p><b>Information: SC Meeting Summary from July 21, 2021</b></p> <p>Topics discussed at the April SC meeting included:</p> <ul style="list-style-type: none"> <li>• RMP fees for 2023-2025</li> <li>• Approved special studies for 2022</li> <li>• Multi-Year Planning Workshop agenda</li> <li>• Wetland mercury monitoring project overview</li> <li>• Annual Meeting agenda finalized</li> </ul> <p>Materials: SC Meeting Summary, see pages 11-18</p> <p>Desired outcome:</p> <ul style="list-style-type: none"> <li>• Informed Committee</li> </ul>	<p>9:50 (20 min)</p> <p>Melissa Foley</p>
4.	<p><b>Discussion: S&amp;T Review Update</b></p> <p>Update on the S&amp;T Review process (biota meeting)</p> <p>Materials: Slides at meeting</p> <p>Desired outcome:</p> <ul style="list-style-type: none"> <li>• Informed Committee</li> </ul>	<p>10:10 (30 min)</p> <p>Melissa Foley</p>
5.	<p><b>Discussion: Communications Update</b></p> <p>Review the RMP Update.</p> <p>Materials: None</p> <p>Desired outcome:</p> <ul style="list-style-type: none"> <li>• Informed Committee</li> </ul>	<p>10:40 (30 min)</p> <p>Jay Davis</p>
6.	<p><b>Information: Status of Deliverables and Action Items</b></p>	<p>11:10 (5 min)</p>

	<p>Materials: Deliverables and Action Item tables, see pages 19-25</p> <p>Desired outcome:</p> <ul style="list-style-type: none"> <li>• Informed committee</li> </ul>	Melissa Foley
7.	<p><b>Discussion: Plan Agenda Items for Future Meetings</b></p> <p>Desired outcome:</p> <ul style="list-style-type: none"> <li>• Identify future agenda items</li> </ul>	<p>11:15 (5 min)</p> <p>Melissa Foley</p>
8.	<p><b>Discussion: Plus/Delta</b></p>	<p>11:20 (5 min)</p> <p>Bridgette DeShields</p>
	<p><b>Adjourn and break</b></p>	11:25
9.	<p><b>Information: Preview of Annual Meeting Presentations</b></p> <p>RMP staff will present their slides for Annual Meeting presentations on sport fish and sediment.</p> <p>Materials: Slides at meeting</p> <p>Desired outcome:</p> <ul style="list-style-type: none"> <li>• Feedback on presentations</li> </ul>	<p>11:45 (90 min)</p> <p>Jay Davis, Scott Dusterhoff</p>

#### Recently Completed RMP Reports/Products

Chang, D.; Richardot, W.; Miller, E.; Dodder, N.; Sedlak, M.; Hoh, E.; Sutton, R. 2021. Framework for nontargeted investigation of contaminants released by wildfires into stormwater runoff: Case study in the northern San Francisco Bay area. Integrated Environmental Assessment and Management. SFEI Contribution No. 1044.

Miller, E.; Sedlak, M.; Sutton, R.; Chang, D.; Dodder, N.; Hoh, E. 2021. Summary for Managers: Non-targeted Analysis of Stormwater Runoff following the 2017 Northern San Francisco Bay Area Wildfires. SFEI Contribution No. 1045. San Francisco Estuary Institute: Richmond, CA

Yee, D. 2021. 2019 RMP Data Quality Assurance Report. San Francisco Estuary Institute: Richmond, CA.

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**Bay RMP Technical Review Committee Meeting**  
June 23, 2021 - San Francisco Estuary Institute

Meeting Summary

**Attendees (all participants remotely attending)**

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

\*Chair; alternates in gray and italicized

**Staff and Others**

- Don Yee - SFEI
- Jay Davis - SFEI
- Melissa Foley - SFEI
- Miguel Mendez - SFEI
- Rebecca Sutton - SFEI
- Tan Zi - SFEI
- John Coleman - Bay Planning Coalition, RMP SC Member
- Jim Haussener - CMANC
- Simret Yigzaw - City of San Jose

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## 1. Introductions and Review Agenda

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

## 2. Approve Meeting Summary from March 12, 2021, Confirm/set Dates for Future Meetings

Bridgette DeShields asked the group for any final comments on the previous meeting's summary. Receiving no comments, she continued to confirm the dates for upcoming meetings. Luisa Valiela inquired about the status of transitioning to in-person meetings, especially for the MYP meeting in October. Melissa noted continued efforts to develop protocols for internal and external staff at SFEI with a current plan to return to the office in September and potential of holding in-person meetings as soon as October. Melissa also mentioned that the Annual Meeting (October 14th) will be held virtually, though next year's meeting (October 13th, 2022) will be held in-person (with a potential virtual component).

**Decision:** Meeting summary approved.

## 3. Information: SC Meeting Summary from April 28, 2021

Melissa Foley reviewed the April SC meeting, noting future subgroup meetings or correspondence regarding yearly program fees and the Annual Meeting agenda. She also discussed the meeting of another subgroup on tire debris priorities in the RMP, which led to recommendations to focus on contaminants in tires and their presence in the Bay. Melissa spotlighted closing of the 2021 budget deficit through a recently finalized SEP order as well as savings from holding a virtual Annual Meeting and changing from publishing a Pulse to a RMP Update. Further, she gave an update on the RMP website renovation, particularly focused on accessibility and creation of a webpage for dischargers/fee payers to see status of payments to the RMP.

## 4. Discussion: S&T Review Update

Melissa began by discussing the status of sediment matrix work, detailing the overall sampling framework using targeted, margin, and Bay sites, as well as a focus on the Lower South Bay, where all three sites would be sampled on a 3-5 year interval compared to the 10-year interval for the rest of the Bay. She also noted the CECs likely to be added to the design, including bisphenols, PFAS, and PBDEs in the open Bay only. Melissa highlighted the 50% cost savings of the redesign (through reduced sampling frequency) compared to the current design. She spotlighted a recent sediment expert meeting about the preliminary sampling design, in which the advisors generally approved of the draft design. Further, she noted feedback from advisors, including suggesting continued inclusion of benthic surveys, sufficiently monitoring trends, the long duration between samples, screening of new CECs, and linkages across both matrices and sites.

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Melissa reviewed the timeline to begin with biota subgroup meetings in early July and an expert meeting in late August. With this timeline, the RMP hopes to hold a synthesis meeting in September in order to have something substantial to share at the October Multi-Year Planning Meeting and allow enough time before the December TRC meeting to generate and present a full design.

## 5. Information: Vessels in San Francisco Bay Update

Melissa Foley provided an update on the current status of different vessels operating in the Bay, overall highlighting a positive future outlook for availability and use of vessels for RMP studies. She discussed a new multi-year contract with the USGS R/V Peterson including its increased use to provide more opportunities for RMP studies. Melissa also mentioned the use of MARE's vessel TomCat for selenium monitoring and for the water cruise in September. Melissa also noted the continued efforts to return the SFSU R/V Questuary to service, particularly partnering with CalMaritime for vessel maintenance.

## 6. Discussion: Presentation of Special Studies Proposals Recommended by Workgroups

Melissa Foley introduced the item by giving a quick overview of the budget, and then discussing the extensive coordination happening across workgroups. She 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. Melissa then briefly outlined each of the 21 proposals by workgroup, highlighting how each related to other RMP efforts - both proposed or already completed - as well as time sensitivity. Additionally, Melissa pointed out external funding contributions and any scalable study components. She also discussed funding of workgroup strategies, including suggested increases for ECWG and STLS.

After reviewing all the proposals for a workgroup, the TRC members discussed the technical details of the presented studies. Richard Looker noted the Water Board's concerns regarding planning for a long-term study for tire contaminants without establishing the existence of a problem in the Bay and its scope within the RMP. Rebecca Sutton remarked that the RMP is one avenue to fill studies and data gaps in a multi-year workplan, highlighting continued efforts to obtain outside funding opportunities and the rapid development of work in this area. Chris Sommers mentioned the need for continued discussion on the scope of strategies and whether they should focus exclusively on the RMP or include data gaps and needs outside of this scope. Ian Wren inquired about potential actions driving urgency of the PCB study in Steinberger Slough with Jay Davis noting past, present, and future clean-up efforts benefitting from this work. Chris Sommers mentioned some of the ongoing clean-up efforts that would benefit from characterization of baseline conditions in advance.

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## 7. Decision: Recommendation for Special Studies for 2022

The process of study prioritization by TRC members was similar to last year, and played out in a smooth and successful manner. This included assignment of AMR funds to CECs monitoring studies, funding of the top two proposals from each workgroup (or the top proposal if there were only two proposed by a workgroup), consideration of opportunities to spread studies across multiple years, and prioritization of unfunded studies for other RMP funding. In particular, the sediment study on temporal variability in North and Central Bay salt marsh was modified to a smaller study with reporting shifted to a second year of study. Similarly, the ethoxylated surfactants study was spread over two years with a split on method development and analysis of sediment from wastewater sampling. In addition, the study on upload of data into the DMMO database was only funded at half the recommended level.

In the process of attributing funds, Committee members noted affiliation-specific reasoning for supporting various studies. Chris Sommers noted interest in CECs stormwater load modeling exploration to understand how to use obtained stormwater data. Richard Looker expressed support for the CEC remote sampler development to support data gathering for stormwater studies. Several members noted the importance of the proposal on the moored sensor network to inform management actions, spotlighting it as the highest priority study.

When all the funds were allocated, Melissa noted the availability of other funding streams, specifically SEP and MMP funds, that could be used for high priority and time-sensitive studies. The group deemed the CEC remote sampler and PCB prey fish studies as high priority for other funding.

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

Building on discussions from the last item, the goal for this agenda item was to update studies on the current SEP list, approve the addition of new studies, and flag any potential studies for MMP funding. Melissa noted the consideration of seven new SEP studies developed by the workgroups in addition to the unfunded studies added automatically to the SEP list. The additional studies span the EC and nutrients workgroups with several building on previous work and others funding novel efforts.

The discussion focused on potential projects that had an importance or urgency that warranted other, more immediate funding. As mentioned in the previous item's discussion, the CEC remote sampler study was the highest priority for MMP funds. In addition, the Baseline Survey of PCBs in Steinberger Slough study was named as a second priority, though it is important to note it is a two-year study. Chris Sommers did inquire about work in Richmond Harbor with several other PMUs as a part of SEP list and integration of regulatory meetings (i.e., discussion at a recent Water Board meeting) regarding PCBs and related TMDL reevaluation. Jay Davis remarked that

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the proposed work in Steinberger Slough is a higher priority for the PCB Workgroup than inclusion of another conceptual model, especially with management actions planned in currently studied PMUs. The Richmond Harbor study would move to a special study if it is needed for TMDL development.

Considering SEP and MMP funding mechanisms as a whole, Ian Wren asked about the criteria needed to receive funds, specifically if studies on method development and standards qualify for funding. Melissa noted this falls under the purview of the MMP funds, though she will check to make sure this is true for SEP funds.

**Action Items:**

- Update SEP list with unfunded special studies projects and TRC approved new SEP proposals (Melissa Foley, July 31, 2021)
- Check if development of methods and standards qualify for SEP funds (Melissa Foley, 31 July 2021)

## 9. Discussion: Communications Update

Jay Davis began by asking the group to brainstorm ideas for several communication items, including the Annual Meeting agenda, 2021 RMP Update, and Estuary News articles. Jay reminded the TRC of the delay of the Pulse until 2022, but the Program should begin to think and plan the articles now.

Jay then reviewed the objectives of the Annual Meeting, with particular consideration this year for gaps left by a scaled-back State of the Estuary Conference. He presented the current ideas for presentations, with the group in agreement on the identified top candidates. Luisa Valiela mentioned a need for a variety of presentations to cater to a diverse set of groups due to the growing RMP audience. Jay also mentioned the advanced data analysis project as another presentation idea, which several members supported. Other possibilities elevated include cutting edge topics such as machine learning projects using drones and trash as well as use of drones by other programs.

Further, Jay shared the current ideas for the RMP Update 2021 with the featured project on sport fish monitoring. Generally, the group supported the current ideas outlined. Yuyun Shang noted the need to highlight the 2021 National Environmental Achievement Award from the National Association of Clean Water Agencies to the RMP for its collaborative approach to protect water quality in the Bay Area.

Jay shared potential topics for Estuary News articles with support for spotlighting nutrients work. Melissa also noted the potential for Estuary News to highlight a partnership between NOAA and SFSU/EOS (Karina Nielsen) on coastal acidification monitoring when NOAA is sampling in the Bay in early July.

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## 10. Information: Status of Deliverables and Action Items

Melissa went over deliverables and action items with the TRC members. She noted that the deliverables report included a few overdue items, though they were nearly complete. Melissa noted deliverables in progress and those that have been delayed. She also highlighted a pending action item on cyanide and chlorophyll follow-up and recently completed items.

## 11. Discussion: Plan Agenda Items for Future Meetings

Melissa and Jay noted important items for the September meeting including preparation for the RMP Annual Meeting, S&T redesign update, and future RMP priorities. Richard Looker also mentioned discussion on lessons learned on coordination and collaboration across workgroups. Jay Davis also noted brainstorming on potential funding for Bay monitoring through the EPA, which Luisa Valiela remarked appears to be moving forward.

## 12. Discussion: Plus/Delta

Overall, the group was commended for their sustained effort and focus throughout the day, noting that they accomplished a lot and could look forward to shorter meetings going forward.

**Adjourn**

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## Bay RMP Steering Committee Meeting

July 21, 2021

San Francisco Estuary Institute

### Meeting Summary

#### Attendees

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

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

#### Staff and Others:

- Melissa Foley, SFEI
- Jay Davis, SFEI
- Miguel Mendez, SFEI
- Martin Trinh, SFEI
- Luisa Valiela, EPA
- Jen Hunt, SFEI
- Becky Sutton, SFEI

## 1. Introductions and Review Goals for the Meeting

After a quick round of introductions, Tom Mumley briefly reviewed the meeting's agenda. Melissa Foley also introduced incoming Environmental Analyst Martin Trinh of SFEI to the group.

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## 2. Decision: Approve Meeting Summary from April 28, 2021, and Confirm Dates for Future Meetings

Tom Mumley asked the group for any final comments on the previous meeting's summary. Receiving no comments, he continued to confirm the dates for upcoming meetings. The dates of the 2021 and 2022 Annual Meeting were confirmed as well as the next SC and Technical Review Committee (TRC) meeting dates. No members voiced any conflicts with upcoming meeting dates and all confirmed they received calendar invites for the upcoming Multi-Year Planning Workshop and RMP Annual Meeting.

### **Action Item:**

- Send out 2022 AM calendar events to RMP committee members (Martin Trinh, August 20, 2021).
- Confirm digital hosting platform for 2021 Annual Meeting (Melissa Foley, September 1, 2021)

### **Decision:**

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

## 3. Information: TRC Meeting Summary

Melissa Foley provided the SC with a summary of the previous month's TRC meeting, including the S&T Review, Annual Meeting and other communications items as well as recommendations for 2022 funding for special studies and SEP funding proposals. Many of these items were also on the agenda for the SC Meeting so a brief overview of each was given.

Luisa Valiela requested an update on the vessels available to support RMP sampling needs. Melissa Foley provided an update on the current status of different vessels operating in the Bay, overall highlighting a positive future outlook for availability and use of vessels for RMP studies. She discussed a new multi-year contract with the USGS R/V Peterson including its increased use to provide more opportunities for RMP studies. There are currently discussions of a multiyear contract with the USGS California Water Science Center to articulate science plans that will help the RMP take advantage of possible piggyback sampling on nutrient cruises of the full Bay and South Bay biweekly. Melissa also mentioned the use of MARE's vessel TomCat for selenium monitoring and for the water cruise in September. Melissa also noted the continued efforts to return the SFSU R/V Questuary to service, particularly partnering with CalMaritime for vessel maintenance.

Luisa gave an update regarding potential EPA funding via the San Francisco Bay Restoration Act. If funding is appropriated, a subgroup will need to be formed. This item was discussed further in the Multi-year Planning Workshop agenda item.

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**Action Item:**

- Gauge interest in EPA funding subgroup (Melissa Foley, October 1, 2021)

## 4. Information: RMP Financial Update for 2021 Quarter 2

Jen Hunt provided the regular financial update for Q2 of 2021 to the Committee. Most funds have been allocated, although there is a \$74k discrepancy in the SEP project funding, which Melissa noted was correct in the SEP part of the financial memo. All fees have been collected for the 2018 and 2019 financial years, with hopes to unencumber 2018 soon. Currently 75% and 19% of the budget has been expended for 2020 and 2021, respectively, with 96% of 2020 fees already collected and 67% of 2021 fees collected. Jen noted an \$18k deficit for 2020 which will be covered by the \$185k balance from Tasks 1-5. Jen then reviewed the various set-aside funds. The undesignated reserves have a balance of \$937k with \$400k as the reserve threshold. The S&T reserve has a balance of \$896k, which has not changed since last quarter. There is a balance of \$74k in MMP funds that have yet to be allocated. There were no decision items this quarter. There were no questions or comments from Committee members.

## 5. Discussion: RMP Fees for 2023-2025

As an introduction to the item, Melissa reminded the SC that there had been a temporary hold in fee increases for the 2022 calendar year due to the economic circumstances caused by the pandemic. After a brief history of RMP fees and increases, during which it was explained that fees were typically calculated for three-year blocks and were raised 1-5%, Melissa recapped the discussion from a subgroup meeting where representatives from all discharger groups agreed to a 3% increase each year for the 2023-2025 time period. Melissa further noted that past budget increases have not kept up with inflation.

Tom added that contributions from dredgers will not cover the current shortfall, with Adam opening the floor to explore options of how to correct the current budgeting and accounting process. Luisa interjected with a note of caution about reducing the percent contribution of a sector, and to notify the group of a potential increase in program funds to be discussed in a later item. Melissa reminded the group of the \$200k gap in 2021 from small and medium dredgers (excluding the USACE). In discussions with a subgroup to identify how to proceed with dredging fees, they suggested Melissa calculate the difference between year by year fees versus a rolling average over a 5-year time frame. Small dredgers would continue to pay per year based on in-Bay disposal volume. Luisa mentioned that there have been hints of unease by dredgers to continue paying into the RMP. Melissa underscored that most complaints are from small/medium dredgers who have concerns over the fees, as they feel their decrease in in-Bay disposal should correlate with a decrease in fees. Eric Dunlavey suggested that RMP staff work with the Water Board to develop projections for dischargers to understand the cost of them doing permit monitoring on their own or through the RMP. Amanda Roa noted having a small line item or paragraph in the cover letter for the RMP fees invoice would be beneficial.

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Stormwater and wastewater entities have largely accepted the 3% increase - the vote to confirm will be held in October.

**Decision:**

- Tom Mumley motioned to hold the vote to confirm the 3% increase in the October SC meeting, Karin seconded the motion. The motion was carried by all present members.

**Action Items:**

- Present budget and dredging figures to BPC for 2023-2025 years (Melissa Foley, August 2, 2021)
- Develop estimates of monitoring costs alone and through RMP (Melissa Foley and Water Board staff, October 15, 2021)

## 6. Information: Progress Report on S&T Review

Melissa Foley updated the group on S&T Review progress, giving a brief review of the water design. The TRC wanted to keep the core number of stations (6 historical and ambient stations), sampling 22 sites as usual, while reducing the number of legacy contaminant analytes, and adding bisphenols, organophosphate esters, PFAS (special study), tire contaminants in Lower South Bay in the dry season (special study), and quaternary ammonium compounds (QACs; pro bono study with Dr. Bill Arnold at the University of Minnesota). Tom Mumley wanted to specifically define what is considered the “wet season” for CEC monitoring, which Melissa defined as up to two weeks following a rain event, with timing based on the USGS cruise schedule. Tom pointed out that sampling in the North Bay near the Napa River was not a priority. Melissa noted that the wet season design is a pilot with three years being used to confirm the value of the design. However, the dry season monitoring may highlight the contaminants of most concern, indicating that contaminants persist in the Bay throughout the year.

After going through the water design, Melissa noted a change in approach for the sediment review to make the process more efficient. Meetings with the Council of Wisdom were held prior to the expert meeting in order to hone in on a draft design that captured the stakeholders needs. Melissa summarized a recent sediment expert meeting to discuss the preliminary sampling design, in which the advisors generally approved of the draft design. Further, she noted feedback from advisors, including suggesting continued inclusion of benthic surveys, sufficiently monitoring trends, the long duration between samples, screening of new CECs, and linkages across both matrices and sites. Revised frequency of sampling could halve the sediment S&T budget from \$1.9 million to \$945k.

For biota, seven different areas are being discussed by the Council of Wisdom. Sport fish studies are likely to remain unchanged, while bivalve monitoring in its previous form will likely be discontinued, instead piggybacking on other collections happening at the edge of the Bay for the Nutrient Management Strategy. As for bird eggs, Jay recommended a focus on cormorants and

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dropping terns as tern colonies are more nomadic while cormorants have more site fidelity in their nesting and terns are only nesting in Lower South Bay, among other reasons.

Tom noted that he initially anticipated the possibility of the revised S&T design reducing funds for Special Studies, but the current revisions suggest that the overall S&T cost will be within range of the current budget. Cutbacks in contaminants across matrices are recommended because focus is being directed to high value topics and CECs. Substantial cost savings have been realized, but there could be a need for more special studies for sediment, particularly if there is a need to do benthic monitoring.

## 7. Decision: Approve Special Studies for 2022 and List of Eligible RMP Studies for SEP Funding

Melissa reviewed recommendations from the TRC, who proposed to fund 13 out of 20 special studies totalling \$1,100,000 in funds, all of which has been allocated except for \$500. Highlights included the increased interconnectedness of these proposed studies and the distribution of special study funds among the workgroups that is similar to past years. Most studies are monitoring-related, however, modeling work has been increasing in recent years. Melissa followed with an overview of the workgroup strategies that were also included for funding. Tom addressed the cost of managing all of these workgroups, in particular the amount of meetings needed to sustain each group, especially with STLS. In response, Melissa reviewed the necessary time for cross-workgroup coordination and meetings, with Jay adding that Dr. Kelly Moran had been doing pro bono work to help with this coordination, so additional future funding was needed.

Melissa then launched into the proposals for the special studies. Timeliness is a critical factor for many of these studies. The TRC recommended spreading funding for the ethoxylated surfactants study over two years but Tom asked if this will impact the timeliness of the study. Tom further objected to the “non time-sensitive” classification of the Stormwater Monitoring Strategy given the stormwater CECs in its fourth and final year and guidance will be needed to continue that work. For the sediment delivery to North Bay marshes, the TRC decided to fund the proposal but spread it over two years. Julie Beagle inquired about site considerations for this study with Melissa saying the sediment workplan and priorities for the Wetland Regional Monitoring Program will help determine priority sites. As for the temporal variability in the sediment delivery study, a proposal was made to sample nine out of 12 months in order to reduce costs. Tom expressed some concerns about this decision as obviously a full year is preferable technically. However, nine months is better than none. The second year of the Whale’s Tail sediment study was also suggested for funding.

The Water Board placed a high priority on moving forward with additional PCB studies and suggested that the PCB/Steinberger Slough Study be funded. Because it is a two year study, Tom suggested that this study be funded with RMP funds, while another study be covered with the MMP funds. Melissa identified the Whale’s Tail study as a good candidate since the first year

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was funded by a SEP. Tom stated that the Water Board wants to prioritize PCBs. Luisa agreed that the EPA is also interested in PCBs, although not necessarily having to establish a revised TMDL but adding any information possible. If funded with MMP funds, money would be immediately available. However, Jay suggested that they would not be ready to sample until next summer given the need to develop a plan and acquire the necessary permits, so immediate funding was not required.

Tom stated that the Water Board does not want to fund the DMMO updates with RMP funding because of the lack of a nexus with management priorities and the cost of having SFEI staff do data entry. Becky commented on the technical difficulty and importance of this task. Luisa noted there are other parties interested in the utility of the DMMO database with the EPA seeing it as a priority and Julie added that the USACE is looking at the availability of other funding to support the DMMO.

The group also briefly reviewed the studies to be added to the SEP list. Eight studies were proposed to be added to the list. These, along with the five special studies that were not funded will be added to the SEP list. Tom reminded Melissa that some reorganization of the list may be necessary so others at the Water Board are able to look at the list and determine priorities for funding.

**Action Items:**

- Organize unfunded and new studies (Melissa Foley, October 20, 2021)

**Decision:**

- Eric Dunlavey motioned to approve the TRC special study recommendations with Tom's recommendation of adding the Steinberger Slough PCB study to the special study list and moving a similar study to the SEP/MMP list. Adam seconded the motion. The motion was carried by all present members.

## 8. Discussion: Multi-Year Planning Workshop Agenda

The goal of this discussion was to identify agenda items for the 2021 MYP meeting. Melissa suggested prioritizing a discussion of the draft MYPs for each workgroup, with some emphasis placed on workgroup structure and the potential for a substantial revision in the future. Eric liked the proposed agenda and agreed with focusing on integration (internal and external). The external focus for some workgroups could also help identify possible external funding sources in addition to the potential funding from the EPA. Julie Beagle reemphasized the desire for a diagram of programs within the Bay and how they are connected, a road map of sorts showing how internal and external matters relate, with Tom agreeing this would be helpful.

Luisa further expanded on the aforementioned San Francisco Bay Restoration Act, which is about to be authorized. There are several ranges of potential funding, from \$25M- \$50M, which requires the designation of program areas for funding to be sent (emphasis to wetlands and

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water quality, nutrients a priority). A discussion ensued on where funds would best be allocated. Adam brought forth the issue of how the money should be received, and wondered if the SC is the right group to decide that. Thoughts included bringing Warner Chabot (SFEI ED) into the discussion. Tom added that funding should be sustainable.

Jay noted that the group should think about the planning process for this coming year, especially if there is more investment in working groups, strategy, and coordination. Using the list of SEP studies to prioritize potential EPA funding may not be the best option as they already have a chance of getting funded and generally are not as carefully considered as regular special studies; figuring out how to best use additional funds will require more processes and thought. Tom recommended forming a small group to help figure this out with Adam, Karin, and Eric expressing interest in participating in this process. This group could also help to flesh out the MYP Workshop agenda in further detail.

**Action Items:**

- Provide an update on website changes at October meeting (Melissa Foley, October 20, 2021)
- Produce draft of MYP plan (Melissa Foley, October 6, 2021)
- Create short lists of research interests for EPA funding (SC Subgroup, October 15, 2021)
- Ask TRC about MYP planning process (Melissa Foley, September 22, 2021)

## 9. Information: Wetland Mercury Monitoring Project Update

Jay provided an update on the planning process for the Wetland Mercury Monitoring Project, which is currently funded through restoration project permit requirements. Jay clarified this project does not belong to either the Bay or Wetland RMPs but borders both programs. The Water Board wants to keep this as a Water Board project to minimize governance costs, although it may fall under the Wetland RMP once the Wetland RMP is more established. Tom emphasized that the Water Board would like the project to focus on fish monitoring. At the moment, there is a contribution of \$30k per project for four projects, with a focus in the North Bay; funding may also come from the Eden Landing restoration, but the timing of that is not clear; so planning has focused on using a total of \$120k that is currently in the bank. Mercury TMDLs are also an issue of interest. The preliminary design was discussed with a current preliminary draft plan of sampling eight stations (six fixed stations, two non-fixed stations) three times over a 10-year period. Jay emphasized the importance of reference marshes for indicating the impact of restoration against a background of general regional trends. Melissa inquired about a potential nexus with the USACE, with Julie and Tom noting an overlap in projects but a need to build knowledge through current efforts. Luisa asked if there was coordination, particularly on the metrics being monitored, between this project and work by the South Bay Salt Ponds Restoration Project. There is no direct coordination at the moment. Tom concluded the item by asking how the Water Board can create revenue for wetland studies.

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## 10. Discussion: Communications

Jay Davis started this item by discussing the agenda for the Annual Meeting. A smaller group volunteered to provide input but Jay has not received much yet. He can be reached by email regarding this matter. Jay would like a total of 12 talks for the meeting, in a format of four subject blocks of three talks each. Jay further expanded on the merits of each presentation, noting that all suggested talks will be ready in time. One talk of interest was the Sediment for Survival talk, as Tom noted that this is a candidate for the State of the Estuary conference (Oct. 1), with Jay adding that the RMP did help fund this project. Jay suggested adding another dredging talk, totaling three presentations on sediment during the first block of the conference. Earlier discussions about addressing dredger concerns could be handled by including a discussion on the value of the RMP. Echoing Julie's earlier comments, Maureen stated it would be nice to have a short 5-10 minute presentation on how the RMP ties into other programs.

Luisa noted she would like to see some talks on PFAS, however, Tom expressed caution for work that has not been peer-reviewed, particularly for PFAS. Julie suggested the BACWA-funded nutrient project if there was a need for a climate change-focused discussion but Tom noted that presentation is not ready. Tom inquired about looping in the Delta RMP but other members stated they did not want to push any associations with the DRMP. Jay suggested including a talk about sediment flux in the dredging section with others sharing support for this idea. Melissa suggested focusing only on the Golden Gate study and splitting one 20 minute talk into two parts, monitoring and then modeling. Luisa inquired about findings from the Suisun Marsh that could be connected to other agencies; sport fish monitoring could be a way of doing so. Tom suggested having someone give an overview on other programs and findings, a short presentation could suffice but the idea of an interactive panel resonated with the group. This could include a space for participants to contribute questions or add to the discussion. The group pivoted discussion to who could host such a space. Potential candidates include Christina Toms or Sammy Harper with Tom reaching out to individuals at the Water Board. Tom would like for someone from every group to have the opportunity to speak up. Jay wrapped up this item by confirming he will send out top 10 topics for the RMP Update. Estuary News will be focused on nutrients for the September issue.

### **Action Items:**

- Finalize Annual Meeting agenda (Jay Davis, August 18, 2021)
- Send out top 10 topic list for RMP Update (Jay Davis, August 20, 2021)

## 11. Discussion: Status of RMP Deliverables and Action Items

Melissa briefly reviewed past deliverables and action items. Red projects on the deliverables list currently consist of the sediment bioaccumulation study on PCBs as well as the Floating Percentile Methodology project. Both tasks are currently in the works. The triclosan in small fish report has been sent to the group for comments. Ezra Miller of SFEI recently sent out the North Bay Fire NTA article and memo for comments as well. Tom expressed he would like to minimize

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any further delay of the PMU fish tissue report because it was funded with SEP funds that have a defined due date. Tom will follow up with Jay and Melissa for this item.

**Action Item:**

- Confirm SEP study due date with Tom Mumley and Jay Davis (Melissa Foley, August 16, 2021)

## 12. Discussion: Plan Agenda Items for Future Meetings

Due to time restrictions, the group did not discuss this agenda item. The group mentioned the timing of the October SC meeting, closely following the Annual Meeting.

## 13. Discussion: Plus/Delta

The group unanimously agreed that the meeting was highly productive, especially keeping the approval of Special Studies and SEP's in mind. The group noted that they are eager to get back to in-person meetings, with the possibility of a hybrid January SC meeting being discussed. However, the intermediate Annual Meeting, SC, and TRC meetings will all likely be virtual.

## 14. Adjourn

# Bay RMP Deliverables Scorecard Report

## Key to Status colors:

Green indicates greater than 90 days until the deliverable is due.

Yellow indicates a deliverable is due within 90 days.

Red indicates a deliverable that is overdue.

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
	Bay RMP (2021)	Integrated watershed modeling and monitoring implementation strategy	Draft strategy and processes for incorporating pollutants of concern into models and identifying monitoring needed to support the model	tanz@sfei.org	04/01/21			☐	☐		●	
	Bay RMP (2021)	Special Study: Nutrients Light Attenuation and moored sensors	Task 1: Model output of near-surface suspended sediment concentrations	Dave Senn	06/01/21			☐	☐		●	
	Bay RMP (2021)	3. QA and Data Services	QAPP Update	Don Yee	06/30/21	04/30/21	138	☐	☑	1	●	Need to make changes for new sediment ancillary lab. Review and processing of incoming datasets from 19/20 current highest priority, no new samples needing new QAPP likely until late spring
Emerging Contaminants	Bay RMP (2019)	Ethoxylated Surfactants Study	Manuscript and summary for managers	Diana Lin	07/01/21	08/01/20	410	☑	☐	1	●	Draft due 8/31/20. Final due 1/31/21. Sampling delayed due to COVID-19. Draft due February 1, 2021. Final due July 1, 2021. We're expecting a draft manuscript from the lead authors Sept/Oct.
	Bay RMP (2020)	26. Advanced data analysis	Final report	Lester McKee	07/31/21	08/31/20	380	☑	☑	4	●	This needs to be delayed. We have provided the draft results to STLS in June but as yet they have not provided any comments. We will continue working on the report in the mean time and have asked for comments back from them by early September 2020. Slow review and guidance over the summer. This is Lester's December focus. Planning to send a draft out for review in January. STLS stakeholders asked for more review of the decision tree. We are in the process of receiving review from STLS. Richard and Setenay have give their review comments via email and BASMAA comments will be coming via email (Lisa's Sabin and Auslin are taking the lead to compile) on 4/23/2021. Verbal feed back has been positive so we are relatively confident we are now on the home stretch. We have a STLS meeting to go over the results planned for 4/26/2021. After this we anticipate finalising the report and sending it out for SPLWG review before the WG meeting (05/26/2021). We will give the WG 3 weeks to review and then finalise the report. Other project priorities got in the way in the context of Lester's partime work status. Working on it actively presently and anticipate a internal draft for review by 3rd week September and and STLS draft by 09/30/21. This should gel well with a poster presentation at CASQA and a final report out at the RMP annual meeting.
	Bay RMP (2020)	3. QA and Data Services	QA Summary Report for 2020 S&T Activities	Don Yee	08/31/21	03/31/21	168	☑	☐	2	●	Sample data receiving mid May 2021, so adjusted date based on time for QA of data
	Bay RMP (2020)	35. EC Bisphenols	Sample collection & analysis	Rebecca Sutton	08/31/21	09/30/20	350	☑	☐	2	●	Wastewater samples have been collected and Sediment samples shipped to lab in January (delayed due to SIP order). Effluent sample analysis had been paused until sediment samples arrived. Preliminary data received and reviewed at ECWG meeting; CEDEN formatting is underway. EDD sent to Da Chen.
	Bay RMP (2021)	Small Tributaries Loading POC Watershed Reconnaissance Monitoring	Laboratory analysis, QA & Data Management	Adam Wong	09/01/21	09/01/21	14	☑	☐		●	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.
	Bay RMP (2020)	35. EC Bisphenols	Technical Report	Rebecca Sutton	09/20/21			☐	☐		●	
	Bay RMP (2021)	2. Governance	September TRC Meeting	Melissa Foley	09/22/21			☐	☐		●	
	Bay RMP (2021)	C. 2021 Water Cruise	Collect samples	Melissa Foley	09/27/21			☐	☐		●	
Selenium Strategy	RMP SEP	15. North Bay Selenium Clam and Water Data Management and Reporting	QA / QC and Data management	Adam Wong	09/30/21	06/30/21	77	☑	☐		●	Lab reporting delays
Selenium Strategy	RMP SEP	15. North Bay Selenium Clam and Water Data Management and Reporting	Upload to CEDEN	Adam Wong	09/30/21	06/30/21	77	☑	☐		●	Lab reporting delays
Sediment Strategy	RMP SEP	18. USGS Sediment Flux and Flocculation, Benicia Bridge	Technical Report	Melissa Foley	09/30/21			☐	☐		●	Daniel Livey and Paul Work, leads (USGS)
	Bay RMP (2020)	6. Status and Trends Monitoring	Process and upload NB Margins data	Adam Wong	09/30/21	12/31/20	258	☑	☑	2	●	Sampling delayed due to pandemic shutdowns. Labs have until January to report the results. Delays in attending to these data due to sport fish prioritization. Waiting on data from Eurofins. Review underway
	Bay RMP (2020)	24. Stormwater Conceptual Model	Conceptual model report	Diana Lin	09/30/21			☐	☐		●	
	Bay RMP (2021)	4. Annual Reporting	RMP Update	Jay Davis	09/30/21			☐	☐		●	
	Bay RMP (2021)	5. Communications	Q3 Estuary News Article	Jay Davis	09/30/21			☐	☐		●	

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
	Bay RMP (2021)	5. Communications	Updates to RMP website - Q3	Martin Trinh	09/30/21			<input type="checkbox"/>	<input type="checkbox"/>			
	Bay RMP (2021)	Special Study: CEC in Urban Stormwater Year 3	Task 1. Site selection and reconnaissance, in coordination with SFEI stormwater and STLS teams; refinement of pilot sampling protocol	Alicia Gilbreath	09/30/21			<input type="checkbox"/>	<input type="checkbox"/>			
	Bay RMP (2020)	Ship-based channel monitoring	NMS FY20 Annual Report	Dave Senn	10/01/21	12/31/20	258	<input checked="" type="checkbox"/>	<input type="checkbox"/>	2		NMS SC suggested a multi-year report rather than an annual report. We'll be sketching and drafting this over May-Jun, and then finalizing over summer. The annual report's content will be drawn from the results/plots/stories from deeper-dive technical projects, and some of those work products will be coming together May-Jun/Jul.
	Bay RMP (2021)	Special Study: PFAS in Bay water	Task 2. Field sampling – Bay water	Rebecca Sutton	10/01/21			<input type="checkbox"/>	<input type="checkbox"/>			
	Bay RMP (2021)	Small Tributaries Loading POC Watershed Reconnaissance Monitoring	Final report	Alicia Gilbreath	10/01/21	06/01/21	106	<input checked="" type="checkbox"/>	<input type="checkbox"/>			Waiting for comments from SPL science advisors
	Bay RMP (2021)	POC Data Interpretation - Advanced Data Analysis	Draft a brief report for STLS review	Alicia Gilbreath	10/01/21			<input type="checkbox"/>	<input type="checkbox"/>			
	Bay RMP (2021)	4. Annual Reporting	Annual Meeting	Melissa Foley	10/14/21			<input type="checkbox"/>	<input type="checkbox"/>			
	Bay RMP (2021)	2. Governance	October SC Meeting	Melissa Foley	10/20/21			<input type="checkbox"/>	<input type="checkbox"/>			
	Bay RMP (2021)	1. Program Management	2022 Multi-Year Plan	Melissa Foley	10/23/21			<input type="checkbox"/>	<input type="checkbox"/>			
	Bay RMP (2021)	1. Program Management	2022 Detailed Workplan and Budget	Melissa Foley	10/23/21			<input type="checkbox"/>	<input type="checkbox"/>			
	Bay RMP (2021)	1. Program Management	Q3 RMP Financial Report	Jennifer Hunt	10/24/21			<input type="checkbox"/>	<input type="checkbox"/>			
	Bay RMP (2021)	1. Program Management	Update Deltak Program Plans for Open RMP Years	Jennifer Hunt	10/24/21			<input type="checkbox"/>	<input type="checkbox"/>			
	Bay RMP (2021)	1. Program Management	SC Meeting Spotlight Report	Melissa Foley	10/24/21			<input type="checkbox"/>	<input type="checkbox"/>			
	Bay RMP (2021)	5. Communications	Q3 RMP eUpdate	Jay Davis	10/31/21			<input type="checkbox"/>	<input type="checkbox"/>			
	Bay RMP (2021)	5. Communications	RMP Update to BAMS (Bay Area Municipal Stormwater)	Melissa Foley	10/31/21			<input type="checkbox"/>	<input type="checkbox"/>			
	Bay RMP (2021)	5. Communications	RMP Update to LTMS	Melissa Foley	10/31/21			<input type="checkbox"/>	<input type="checkbox"/>			
	Bay RMP (2021)	5. Communications	RMP Update to BPC	Melissa Foley	10/31/21			<input type="checkbox"/>	<input type="checkbox"/>			
	Bay RMP (2021)	5. Communications	RMP Update to WSPA	Melissa Foley	10/31/21			<input type="checkbox"/>	<input type="checkbox"/>			
	Bay RMP (2021)	5. Communications	RMP Update at RB2 Meeting	Melissa Foley	10/31/21			<input type="checkbox"/>	<input type="checkbox"/>			
	Bay RMP (2021)	Special Study: QACs in Bay Area Wastewater	Task 3. Laboratory analysis	Diana Lin	10/31/21			<input type="checkbox"/>	<input type="checkbox"/>			
	Bay RMP (2021)	POC Data Interpretation - Advanced Data Analysis	Draft report for SPLWG review	Alicia Gilbreath	11/01/21			<input type="checkbox"/>	<input type="checkbox"/>			
	Bay RMP (2020)	47. Sediment bioaccumulation threshold review for PCBs	Final report	Diana Lin	11/30/21	10/31/20	319	<input checked="" type="checkbox"/>	<input type="checkbox"/>	2		Delays coordinating DMMO database and reports and getting all needed data into the database from PDF reports
	Bay RMP (2021)	Special Study: Development of a Stormwater Conceptual Model for Microplastics (Year 2)	Task 4. Final Conceptual Model Report completion	Kelly Moran	11/30/21	09/01/21	14	<input type="checkbox"/>	<input checked="" type="checkbox"/>	1		
	Bay RMP (2021)	Regional Model Development to Support Watershed Loads and Trends	2021 funding: Sediment model initial calibration ready for review	tanz@sfei.org	11/30/21	08/01/21	45	<input type="checkbox"/>	<input checked="" type="checkbox"/>			
	Bay RMP (2021)	Integrated watershed modeling and monitoring implementation strategy	Complete full draft FINAL integrated watershed modeling and monitoring implementation strategy	tanz@sfei.org	11/30/21	09/01/21	14	<input type="checkbox"/>	<input checked="" type="checkbox"/>			
	Bay RMP (2021)		Task 2: Technical memo evaluating the potential utility of remote-sensed products for estimating surface turbidity and light attenuation.	Dave Senn	12/01/21			<input type="checkbox"/>	<input type="checkbox"/>			
	Bay RMP (2021)	Impact of Remediation Actions on San Leandro Bay Recovery from PCB Contamination	Task 2: Field sampling	Diana Lin	12/01/21			<input type="checkbox"/>	<input type="checkbox"/>			
	Bay RMP (2021)	Special Study: PCB Strategy for in-Bay Modeling	Draft technical report	Jay Davis	12/01/21			<input type="checkbox"/>	<input type="checkbox"/>			
	Bay RMP (2021)	Regional Model Development to Support Watershed Loads and Trends	2021 funding: Sediment model calibration and documentation completed; PCB and Hg model data collation and general POCs model planning started.	tanz@sfei.org	12/01/21			<input type="checkbox"/>	<input type="checkbox"/>			
	Bay RMP (2021)	2. Governance	December TRC Meeting	Melissa Foley	12/09/21			<input type="checkbox"/>	<input type="checkbox"/>			

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
	Bay RMP (2021)	Integrated watershed modeling and monitoring implementation strategy	Final report	tanz@sfei.org	12/13/21	12/01/21	-77					
Emerging Contaminants		19. Quaternary Ammonium Compounds (QACs) in Bay Area Wastewater	QA/QC and data management	Diana Lin	12/31/21							
Sources Pathways and Loadings	RMP SEP	20. MTC Bay Area Land Use Update	Collect and transform data relevant to RMP Stakeholders	Tony Hale	12/31/21	03/31/21	168			1		A critical partner, MTC, was directed away from the land-use data layer renewal by more pressing concerns. They are now fully engaged, have approved our approach, and provided our team access to the requisite resources.
Sediment Strategy	RMP SEP	21. Sediment Dynamics Assessment and Uncertainty Analysis for San Francisco Bay	Develop updated sediment transport conceptual model	Scott Dusterhoff	12/31/21							
Sediment Strategy	RMP SEP	21. Sediment Dynamics Assessment and Uncertainty Analysis for San Francisco Bay	Interpretive Technical Report	Scott Dusterhoff	12/31/21							
Emerging Contaminants	Bay RMP (2018)	Non-targeted Analysis of Sediment and Water	Fact sheet	Rebecca Sutton	12/31/21	08/02/19	775			5		De-prioritized for ECWG meeting in favor of North Bay Fire NTA. Draft report and fact sheet by fall '19. Final report and fact sheet by Dec '19. Lee and Eunha would like to present their findings to the ECWG in spring 2020 before finalizing the report. Lab and internal COVID-19 impacts and continued prioritization of the North Bay Wildfire NTA study have delayed this project. Lee and Eunha would like to present preliminary findings to the ECWG in spring 2021 before finalizing the deliverables. Preliminary findings were presented at the ECWG meeting. The GC-based manuscript is in preparation now, while the LC-based analysis is ongoing. The fact sheet will be prepared once the LC-based analysis is complete.
Emerging Contaminants	Bay RMP (2018)	Non-targeted Analysis of Sediment and Water	Technical report	Rebecca Sutton	12/31/21	08/02/18	1140			5		De-prioritized for ECWG meeting in favor of North Bay Fire NTA. Draft report and fact sheet by fall '19. Final report and fact sheet by Dec '19. Lee and Eunha would like to present their findings to the ECWG in spring 2020 before finalizing the report. Lab and internal COVID-19 impacts and continued prioritization of the North Bay Wildfire NTA study have delayed this project. Lee and Eunha would like to present preliminary findings to the ECWG in spring 2021 before finalizing the deliverables. Preliminary findings were presented at the ECWG meeting. The GC-based manuscript is in preparation now, while the LC-based analysis is ongoing. The fact sheet will be prepared once the LC-based analysis is complete.
	Bay RMP (2020)	6. Status and Trends Monitoring	Margins report	Don Yee	12/31/21							
	Bay RMP (2020)	22. PCB Loading in Steinberger Slough/Redwood Creek	Technical Report	Diana Lin	12/31/21	08/31/21	15			1		we're expecting to get a draft from Stanford before Thanksgiving.
	Bay RMP (2020)	43. Update of Erosion and Deposition in San Francisco Bay	Technical Report	Scott Dusterhoff	12/31/21	03/31/21	168					The report will be presented at the May 2021 SedWG meeting, but Bureau Approval is taking longer than usual, so the report will not be posted on the USGS website until closer to the end of the year.
	Bay RMP (2021)	1. Program Management	RMP Participation Letters for BACWA and WSPA Agencies	Melissa Foley	12/31/21							
	Bay RMP (2021)	1. Program Management	Honoraria Payments to Science Advisors	Melissa Foley	12/31/21							
	Bay RMP (2021)	3. QA and Data Services	Online Data Access CD3	Cristina Grosso	12/31/21							
	Bay RMP (2021)	3. QA and Data Services	Database Maintenance	Adam Wong	12/31/21							
	Bay RMP (2021)	3. QA and Data Services	Updates to SOPs and Templates	Adam Wong	12/31/21							
	Bay RMP (2021)	3. QA and Data Services	DMMO Database Support	Cristina Grosso	12/31/21							
	Bay RMP (2021)	5. Communications	Q4 Estuary News Article	Jay Davis	12/31/21							
	Bay RMP (2021)	5. Communications	Q4 RMP eUpdate	Jay Davis	12/31/21							
	Bay RMP (2021)	5. Communications	Updates to RMP website - Q4	Martin Trinh	12/31/21							
	Bay RMP (2021)	A. USGS Sacramento Support	Continuous suspended sediment monitoring at 5 stations	Melissa Foley	12/31/21							
	Bay RMP (2021)	B. USGS Menlo Park Support-Contract	Monthly measurements of basic water quality at 38 stations	Melissa Foley	12/31/21							
	Bay RMP (2021)	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 (5) Purge old archives from Shaeffers.	Michael Weaver	12/31/21							
	Bay RMP (2021)	J. Sample Archive	Short-term RMP sample archive purging	Martin Trinh	12/31/21							
	Bay RMP (2021)	K. S&T Field Sampling Report & Support	Field Sampling Report	Martin Trinh	12/31/21							
	Bay RMP (2021)	Special Study: PFAS in Bay water	Task 3. Lab analysis	Rebecca Sutton	12/31/21							
	Bay RMP (2021)	STLS Program Management	Prepare for and hold 6 STLS meetings during calendar year 2021	Alicia Gilbreath	12/31/21							

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
	Bay RMP (2021)	STLS Program Management	Meeting summary and action items for each meeting	Alicia Gilbreath	12/31/21			📅	📅		🟢	
	Bay RMP (2021)	DMMO Database	Special Study: DMMO Database Enhancements	Cristina Grosso	12/31/21			📅	📅		🟢	
	Bay RMP (2021)	K. S&T Field Sampling Report & Support	Garage & lab manager	Martin Trinh	01/01/22			📅	📅		🟢	
	Bay RMP (2021)	Special Study: Moored sensor high-frequency observation network	Sensors deployed, downloaded, maintained, and calibrated	Dave Senn	01/01/22			📅	📅		🟢	
Sediment Strategy	RMP SEP	17. USGS Sediment Settling Velocity South Bay	Upload data to USGS ScienceBase-Catalog	Melissa Foley	01/31/22			📅	📅		🟢	Jessie Lacy (USGS) lead
Sediment Strategy	RMP SEP	17. USGS Sediment Settling Velocity South Bay	Technical Report	Melissa Foley	01/31/22			📅	📅		🟢	Jessie Lacy (USGS) lead
	Bay RMP (2021)	1. Program Management	Q4 RMP Financial Report	Jennifer Hunt	01/31/22			📅	📅		🟢	
	Bay RMP (2021)	D. 2021 Water Cruise Data Mgmt	Process and upload Water Cruise data	Adam Wong	01/31/22			📅	📅		🟢	
	Bay RMP (2021)	Special Study: PFAS in Bay water	Task 4. QA/QC and data management	Rebecca Sutton	02/01/22			📅	📅		🟢	
	Bay RMP (2021)	Impact of Remediation Actions on San Leandro Bay Recovery from PCB Contamination	Task 3: Laboratory analysis	Diana Lin	02/01/22			📅	📅		🟢	
	Bay RMP (2021)	Special Study: PCB Strategy for in-Bay Modeling	Final technical report	Jay Davis	02/01/22			📅	📅		🟢	
	Bay RMP (2021)	POC Data Interpretation - Advanced Data Analysis	Address review comments and finalize report	Alicia Gilbreath	02/01/22			📅	📅		🟢	
Emerging Contaminants	RMP SEP	16. Sunscreen in Wastewater	Sample collection and analysis	Diana Lin	02/27/22	02/27/21	200	🚫	📅	1	🟢	Sample collection was delayed one year due to Covid pandemic. Samples will be collected summer 2021.
	Bay RMP (2021)	E. 2021 Bird Egg Sampling	Sampling and Analysis Plan	Martin Trinh	02/28/22			📅	📅		🟢	
	Bay RMP (2021)	G. North Bay Selenium Monitoring	Collect samples	Martin Trinh	02/28/22			📅	📅		🟢	
	Bay RMP (2021)	Special Study: QACs in Bay Area Wastewater	Task 4. QA/QC and data management	Diana Lin	02/28/22			📅	📅		🟢	
	Bay RMP (2021)	I. S&T Laboratory Intercomparison Studies	Presentation to the TRC on findings from IC studies.	Don Yee	03/30/22			📅	📅		🟢	
	Bay RMP (2020)	29. Regional model development to support management decisions	Sediment calibration and report	tanz@sfei.org	03/31/22	03/31/20	533	📅	🚫	1	🟢	Dates pushed back a year after Jing left. The SPLWG meeting in May 2021 would be a good opportunity to receive some feedback for the sediment modeling. Then spend some more time to address and incorporate the comments.
	Bay RMP (2021)	Special Study: PFAS in Bay water	Task 5. Presentation at ECWG	Rebecca Sutton	04/01/22			📅	📅		🟢	
	Bay RMP (2021)	Special Study: QACs in Bay Area Wastewater	Task 5. Presentation at ECWG	Diana Lin	04/01/22			📅	📅		🟢	
	Bay RMP (2021)	Special Study: Toxicology Thresholds for Emerging Contaminants	Task 1. Starting in fall 2020, synthesize and assess quality of available CEC toxicity thresholds; identify toxicity threshold knowledge gaps	Ezra Miller	04/01/22	11/01/20	318	🚫	📅		🟢	This work is complimentary to and leveraging work done for a statewide CEC synthesis and prioritization project for the State and Region 2 Water Boards, which has been delayed due to covid and delays in other related projects. As a result, this project is now slated to be finished for (and results presented at) the 2022 ECWG meeting.
	Bay RMP (2021)	Special Study: Toxicology Thresholds for Emerging Contaminants	Task 2. Calculate thresholds to fill knowledge gaps, preliminary results presentation to the ECWG	Ezra Miller	04/01/22	04/01/21	167	🚫	📅		🟢	This work is complimentary to and leveraging work done for a statewide CEC synthesis and prioritization project for the State and Region 2 Water Boards, which has been delayed due to covid and delays in other related projects. As a result, this project is now slated to be finished for (and results presented at) the 2022 ECWG meeting.
	Bay RMP (2021)	Special Study: Toxicology Thresholds for Emerging Contaminants	Task 3. Compare measured concentrations and updated thresholds to assess placement of Possible Concern contaminants within the tiered risk-based framework and identify priorities for future work	Ezra Miller	04/01/22	09/01/21	14	🚫	📅		🟢	This work is complimentary to and leveraging work done for a statewide CEC synthesis and prioritization project for the State and Region 2 Water Boards, which has been delayed due to covid and delays in other related projects. As a result, this project is now slated to be finished for (and results presented at) the 2022 ECWG meeting.
	Bay RMP (2021)	Special Study: Toxicology Thresholds for Emerging Contaminants	Task 4. Presentation to the ECWG and "living document" made available to stakeholders	Ezra Miller	04/01/22			📅	📅		🟢	
	Bay RMP (2021)	E. 2021 Bird Egg Sampling	Successful collection of samples.	Melissa Foley	05/01/22			📅	📅		🟢	Josh Ackerman responsible PI
	Bay RMP (2021)	Selenium in Clams	Collect and analyze muscle plug samples	Martin Trinh	05/01/22			📅	📅		🟢	
Emerging Contaminants	RMP SEP	16. Sunscreen in Wastewater	QA/QC and data management	Diana Lin	05/31/22	05/31/21	107	🚫	📅	1	🟢	Sample collection was delayed one year due to Covid pandemic. Samples will be collected summer 2021.
Sediment Strategy	RMP SEP	17. USGS Sediment Settling Velocity South Bay	Present initial results at Sediment Workgroup Meeting	Melissa Foley	05/31/22	05/31/21	107	📅	🚫	1	🟢	Jessie Lacy (USGS) lead Delayed until 2022 workgroup meeting or special fall brown bag seminar
Emerging Contaminants		19. Quaternary Ammonium Compounds (QACs) in Bay Area Wastewater	Present data at ECWG	Diana Lin	05/31/22			📅	📅		🟢	

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
	Bay RMP (2021)	G. North Bay Selenium Monitoring	Data from labs	Michael Weaver	05/31/22			📅	📅		🟢	
	Bay RMP (2021)	Special Study: CEC in Urban Stormwater Year 3	Task 2. Field collection of stormwater samples	Alicia Gilbreath	05/31/22			📅	📅		🟢	
	Bay RMP (2021)	Special Study: PFAS in Bay water	Task 6. Draft Report	Rebecca Sutton	06/01/22			📅	📅		🟢	
	Bay RMP (2021)	Special Study: QACs in Bay Area Wastewater	Task 6. Draft technical memo	Diana Lin	06/01/22			📅	📅		🟢	
	Bay RMP (2021)	Impact of Remediation Actions on San Leandro Bay Recovery from PCB Contamination	Task 4: Draft technical report	Diana Lin	06/01/22			📅	📅		🟢	
	Bay RMP (2020)	41. Selenium in North Bay clams and water	Technical Report	Melissa Foley	06/30/22	06/30/21	77	🔴	📅	1	🟢	No sturgeon results from 2020 and 2021; technical report likely delayed until 2022.
	Bay RMP (2021)	Selenium in Clams	Task 3. Data Management	michaelw@sfei.org	07/01/22			📅	📅		🟢	
	Bay RMP (2021)	Special Study: QACs in Bay Area Wastewater	Task 7. Final technical memo	Diana Lin	08/01/22			📅	📅		🟢	
	Bay RMP (2021)	Impact of Remediation Actions on San Leandro Bay Recovery from PCB Contamination	Task 5: Final technical report	Diana Lin	08/01/22			📅	📅		🟢	
Emerging Contaminants	RMP SEP	19. Quaternary Ammonium Compounds (QACs) in Bay Area Wastewater	Technical Memo	Diana Lin	08/31/22			📅	📅		🟢	
	Bay RMP (2021)	Special Study: CEC in Urban Stormwater Year 3	Task 3. Laboratory analysis of samples	Miguel Mendez	08/31/22			📅	📅		🟢	
	Bay RMP (2021)	Special Study: PFAS in Bay water	Task 7. Final Report	Rebecca Sutton	09/01/22			📅	📅		🟢	
	Bay RMP (2021)	3. QA and Data Services	QA Summary Report for 2021 S&T Activities	Don Yee	09/30/22			📅	📅		🟢	
	Bay RMP (2021)	Selenium in Clams	Task 4. Draft Report	Melissa Foley	10/01/22			📅	📅		🟢	
Emerging Contaminants	RMP SEP	16. Sunscreen in Wastewater	Technical Report	Diana Lin	10/31/22	10/31/21	-46	🔴	📅	1	🟢	Sample collection was delayed one year due to Covid pandemic. Samples will be collected summer 2021.
	Bay RMP (2021)	E. 2021 Bird Egg Sampling	Final report	Melissa Foley	10/31/22			📅	📅		🟢	Josh Ackerman responsible PI
	Bay RMP (2021)	F. 2021 Bird Egg Data Mgmt	Processing and upload bird egg data	Adam Wong	10/31/22			📅	📅		🟢	
Sources Pathways and Loadings	RMP SEP	14. Quantifying Stormwater Flow and Sediment Flux to the Bay	Technical Report	Lester McKee	12/01/22	12/01/21	-77	🔴	📅	1	🟢	COVID and dry years so far - not much data have been collected. Water Board staff and confirmed an extension is possible and we have informed contractors.
Sources Pathways and Loadings	RMP SEP	14. Quantifying Stormwater Flow and Sediment Flux to the Bay	Summary Factsheet	Lester McKee	12/01/22	12/01/21	-77	🔴	📅	1	🟢	COVID and dry years so far - not much data have been collected. Water Board staff and confirmed an extension is possible and we have informed contractors.
Sources Pathways and Loadings	RMP SEP	14. Quantifying Stormwater Flow and Sediment Flux to the Bay	Post data to CD3	Lester McKee	12/01/22	12/01/21	-77	🔴	📅	1	🟢	COVID and dry years so far - not much data have been collected. Water Board staff and confirmed an extension is possible and we have informed contractors.
	Bay RMP (2021)	Selenium in Clams	Task 5. Final Report	Melissa Foley	12/01/22			📅	📅		🟢	
Selenium Strategy	Bay RMP (2017)	2017 Sturgeon Derby Monitoring	Data management	Adam Wong	12/31/22	09/30/17	1446	🔴	🔴	2	🟢	Data mgmt for this got lumped in with planned data mgmt for NB selenium monitoring work. No sturgeon plug monitoring in 2020 or 2021 delays data mgmt efforts another year
PCB Strategy	RMP SEP	11. PCB Stormwater Monitoring for PMUs	Analysis of stormwater samples from Emeryville Crescent sites in WY19 and WY20	Alicia Gilbreath	12/31/22	09/30/20	350	🔴	📅	2	🟢	Samples will be collected with core funds (3018-021). Results will be reported in the WY20 STLS POC Recon Sampling Report. <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 2021.
PCB Strategy	RMP SEP	11. PCB Stormwater Monitoring for PMUs	Collection and analysis of stormwater samples from San Leandro Bay sites in WY19 and WY20	Alicia Gilbreath	12/31/22	09/30/20	350	🔴	📅	2	🟢	Results will be reported in the WY20 STLS POC Recon Sampling Report. 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 2021.
PCB Strategy	Bay RMP (2019)	Priority Margin Unit Stormwater PCB Monitoring	Stormwater sample collection at Emeryville Crescent sites in WY19 and WY20	Alicia Gilbreath	12/31/22	04/30/20	503	🔴	📅	2	🟢	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 2021.
	Bay RMP (2020)	21. Priority Margin Unit Stormwater PCB Monitoring	Stormwater sample collection at Emeryville Crescent sites in WY19 and WY20	Alicia Gilbreath	12/31/22	04/30/21	138	🔴	📅	1	🟢	This project got an extension because of the low rainfall seasons during climatic years 2020 and 2021.

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
Selenium Strategy	Bay RMP (2019)	Selenium in Muscle Plugs	Collect and analyze muscle plug samples	Nina Buzby	03/31/23	03/31/20	533			2		Muscle plug samples will be collected during CDFW cruises between August and October 2019. Laboratory analysis will follow. 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> Not enough tissue was collected by CDFW in 2019 so this will be delayed until 2020. No ability for DFW to collect samples for the RMP in 2020 and 2021 so this will be delayed again until 2022.
	Bay RMP (2021)	Special Study: CEC in Urban Stormwater Year 3	Task 4. Draft manuscripts and management summary	Rebecca Sutton	05/01/23							
	Bay RMP (2021)	Special Study: CEC in Urban Stormwater Year 3	Task 5. Final manuscripts and management summary	Rebecca Sutton	07/01/23							
	Bay RMP (2021)	C. 2021 Water Cruise										

## Bay RMP Action Items

### Key to Status Colors:

Green indicates greater than 90 days until the deliverable is due.

Yellow indicates a deliverable due within 90 days.

Red indicates a deliverable that is overdue.

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
TRC Action Items from 06/23/21	Update SEP list with unfunded special studies projects and TRC approved new SEP proposals	Melissa Foley	07/31/21				🚩	🚩	●		06/23/21
SC Action Items from 07/21/2021	Organize unfunded and new studies	Melissa Foley	10/20/21				🚩	🚩	●		07/21/21
SC Action Items from 07/21/2021	Provide an update on website changes at October meeting	Melissa Foley	10/20/21				🚩	🚩	●		07/21/21
SC Action Items from 07/21/2021	Ask TRC about MYP agenda	Melissa Foley	09/22/21				🚩	🚩	●		07/21/21
Steering Committee Action Items from 10/21/20	Consider sampling for large events in S&T Program Review	Melissa Foley	12/31/21				🚩	🚩	●		10/21/20
Technical Review Committee Action Items from 9/26/19	A RMP representative and an EPA representative (Terry Fleming) should attend the Delta RMP's equivalent Multi-Year Planning meeting	Melissa Foley	06/01/22	07/31/20	411	2	🚩	🚩	●	Delta RMP did not have a multi-year planning meeting for FY 2020 or 2021.	09/26/19
SC Action Items from 07/21/2021	Create shortlists of research interests for EPA funding	SC Subgroup	12/31/22	10/15/21			🚩	🚩	●		07/21/21