RMP Steering Committee  
January 24, 2018  
10:00 AM – 3:00 PM

REMOTE ACCESS  
Audio by Phone: (415) 594-5500, Access Code 943-326-397#  
Slides: [https://join.me/sfei-conf-cw1](https://join.me/sfei-conf-cw1)

### AGENDA

<table>
<thead>
<tr>
<th></th>
<th>Introductions and Review Agenda</th>
<th>10:00</th>
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</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Tom Mumley</td>
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<table>
<thead>
<tr>
<th></th>
<th>Decision: Approve Meeting Summary from November 1, 2017 and confirm/set dates for future meetings.</th>
<th>10:05</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Proposed meetings: None</td>
<td>Tom Mumley</td>
</tr>
<tr>
<td></td>
<td>Materials: SC Meeting Summary, see pages 1-6</td>
<td></td>
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<tr>
<td></td>
<td>Desired outcome:</td>
<td></td>
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<tr>
<td></td>
<td>• Approve meeting summary, confirm existing meeting dates, and set dates for future meetings.</td>
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</table>
### 3. Information: TRC Meeting Summary

Topics discussed at the most recent TRC meeting included:
- Purchase of Acoustic-Release Systems for S&T Bivalve Monitoring
- 2017 Copper and Cyanide Water Concentrations Relative to Site-Specific Objectives and Latest Aquatic Toxicity Results
- Fire Response Monitoring
- Laboratory Intercomparison Study Plans
- Informatics and Data Services Update
- Plans for the 2018 RMP Update Report

Materials: TRC Meeting Summary and Slides About New Bivalve Deployment System, see pages 7-15

Desired Outcome: Informed committee

<table>
<thead>
<tr>
<th>Time</th>
<th>Name</th>
</tr>
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<tbody>
<tr>
<td>10:15</td>
<td>Philip Trowbridge</td>
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### 4. Information: RMP Financial Update for 2017 Quarter 4

The RMP Financial Update report summarizes the balance of budgeted and reserved RMP funds as well as its cash position. The presentation will also review incomplete projects from the previous year and revised schedules to complete these projects.

Materials: The Financial Update Memo will be distributed by 1/19/18. The report is delayed because 2017 year-end expenses need to be posted before it can be written.

Desired outcome: Informed committee

<table>
<thead>
<tr>
<th>Time</th>
<th>Name</th>
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<tbody>
<tr>
<td>10:30</td>
<td>Phil Trowbridge</td>
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### 5. Decision: Approve 2018 Multi-Year Plan

The draft Multi-Year Plan was presented and discussed by the SC on 11/1/17. Comments from the meeting and received in writing have been incorporated. The Steering Committee should review the Management Drivers Table on page 6 because it was significantly revised.

Materials: Draft Multi-Year Plan, see separate attachment

Desired outcome: Approve Multi-Year Plan

<table>
<thead>
<tr>
<th>Time</th>
<th>Name</th>
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<tbody>
<tr>
<td>11:10</td>
<td>Philip Trowbridge</td>
</tr>
<tr>
<td></td>
<td>Discussion: Follow-up on Action Items Regarding Potential Changes to RMP Membership and Funding Model</td>
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<tr>
<td>6.</td>
<td>Staff will provide an update on two action items from the last meeting related to changes to the RMP membership and fees: ● Recommendations for adding dry docks or other new participants to the RMP ● Discussion of changing funding structure and allocations</td>
</tr>
<tr>
<td></td>
<td>Materials: None</td>
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<tr>
<td></td>
<td>Desired outcome: Agreement that no further action is needed on these items</td>
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<td>7.</td>
<td>Information: Science Update on Updated CEC Strategy</td>
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<tr>
<td></td>
<td>The strategy for the RMP's Contaminants of Emerging Concern Program underwent a major revision in 2017. RMP staff will present an overview of the new strategy and other relevant topics from the CEC Program.</td>
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<tr>
<td></td>
<td>Desired Outcome: Informed committee</td>
</tr>
<tr>
<td>8.</td>
<td>Information: Science Update on Sediment Supply Synthesis and Strategy Development</td>
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<tr>
<td></td>
<td>The first meeting of the new Sediment Workgroup will be on January 31, 2018. One of the first technical reports for the new group is a synthesis of recent data on sediment supply to the Bay from the Delta and smaller tributaries. RMP staff will present an overview of this new report as well as the strategy for the workgroup.</td>
</tr>
<tr>
<td></td>
<td>Desired Outcome: Informed committee</td>
</tr>
</tbody>
</table>
9. Information/Decision: Update on RMP Communications and Approve Plans for 2018 RMP Update, Annual Meeting, and Special Sessions at SETAC
RMP staff will provide an update on upcoming communications products. Decisions are needed on the outline for the RMP Update Report (due in the fall), the date of the Annual Meeting (proposed for October 10 or 11, 2018) and the topic for the Q1 Estuary News article. In addition, the Society for Environmental Toxicology and Chemistry (SETAC) will hold its annual conference in Sacramento this year. RMP staff and the TRC have developed some ideas for special sessions to showcase RMP work in the Bay-Delta. No additional funds are needed to organize or participate in these sessions but SC feedback on the session topics is requested.

Materials: None. The plan for the 2018 RMP Update is to closely follow the structure of the 2016 report (www.sfei.org/rmp/update).

Desired Outcome:
- Approved plans for 2018 RMP Update
- Approved date for 2018 Annual Meeting
- Feedback on proposed special sessions at SETAC

10. Discussion: Status of RMP Deliverables and Action Items
Materials: Action Items & Deliverables Stoplight Reports, see pages 29-41
Desired outcome: Informed committee about the status of RMP deliverables

11. Discussion: Plan agenda items for future meetings
Desired Outcome: Identify future agenda items

12. Discussion: Plus/Delta

13. Adjourn

Recently Completed RMP Reports/Products

Year-End Reports for Supplemental Environmental Projects


Downing-Kunz, M.; Schoellhamer, D., Work, P. 2017. Water and suspended-sediment flux measurements at the Golden Gate, 2016-2017. RMP Contribution No. 856. Prepared by the U.S. Geological Survey, Sacramento CA. (Not yet available online. The interpretive report, in the form of a draft manuscript, has been submitted to the Water Board in fulfillment of a SEP requirement. The report will be posted on the RMP website after the manuscript has been accepted for publication by a journal.)

Other Major RMP Publications


Datasets and Tools

RMP SEP 2016 San Leandro Bay Fish PCBs Data is available in CD3. Go to cd3.sfei.org. Click on “Direct Download Tool” and select the project called “RMP Special Study San Leandro Bay PCB Study (SEP)”.
2003-2014 Historic Sportfish Dioxin Furan TEQs data is available in CD3. Go to cd3.sfei.org. Click on "Direct Download Tool" and select the project ‘2003 RMP Fish’ or ‘2006 RMP Fish’ or ‘2009 RMP Fish’ or ‘2014 RMP Fish’, the analyte group ‘DioxinsDibenzofurans’, and the Analyte Sub Group ‘TEQs’.

2017 Guadalupe River flood monitoring data is available in CD3. Go to cd3.sfei.org. Click on “Direct Download Tool” and select the project called: STLS Monitoring WY2017 - Guadalupe River.

Released CD3 v3.2 – new functionality includes a new result threshold filter tool, new API for sharing data (https://cd3.sfei.org/api.php), updated metadata information for the datasets displayed in CD3 (https://cd3.sfei.org/info.php), installation of a SSL security certificate, and addition of data use notes in the download files. Also released CD3 v3.2.2 - a patch release to fix a bug with the shareable link that was introduced by the new result threshold filter tool.

*RMP Reports Out for Review*

2017 RMP Status & Trends Field Sampling Report - under review by the TRC.

*RMP Reports (Soon To Be) Out for Review*

Sediment Supply Synthesis Report (version 2) - review by Sediment WG and TRC


Statistical Methods Development and Sampling Design Optimization to Support Trends Analysis for Loads of Polychlorinated Biphenyls from the Guadalupe River in San Jose, California, USA - review by STLS Team
Bay RMP Steering Committee Meeting
November 1, 2017
San Francisco Estuary Institute

Meeting Summary

Attendees

<table>
<thead>
<tr>
<th>SC Member</th>
<th>Affiliation</th>
<th>Representing</th>
<th>Present</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jim Ervin</td>
<td>City of San Jose</td>
<td>POTW-Large</td>
<td>Yes</td>
</tr>
<tr>
<td>Robert Wilson</td>
<td>City of Petaluma</td>
<td>POTW-Small</td>
<td>Yes (alternate for Leah Walker)</td>
</tr>
<tr>
<td>Karin North**</td>
<td>City of Palo Alto</td>
<td>POTW-Medium</td>
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<tr>
<td>Adam Olivieri</td>
<td>BASMAA / EOA, Inc.</td>
<td>Stormwater</td>
<td>Yes</td>
</tr>
<tr>
<td>Peter Carroll</td>
<td>Tesoro Golden Eagle Refinery</td>
<td>Refineries</td>
<td>Yes</td>
</tr>
<tr>
<td>John Coleman</td>
<td>Bay Planning Coalition</td>
<td>Dredgers</td>
<td>Yes</td>
</tr>
<tr>
<td>Jessica Burton Evans</td>
<td>US Army Corps of Engineers</td>
<td>USACE</td>
<td>Yes</td>
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<tr>
<td>Tom Mumley*</td>
<td>SFB Regional Water Quality Control Board</td>
<td>Water Board</td>
<td>Yes</td>
</tr>
</tbody>
</table>

* Chair, ** Vice Chair

Guests and Staff

- Naomi Feger - SFBRWQCB
- Luisa Valiela - USEPA Region 9
- Phil Trowbridge - SFEI
- Ila Shimabuku - SFEI
- Lawrence Leung - SFEI
- Jay Davis - SFEI
- Rebecca Sutton - SFEI
1. Introductions and Review Agenda

Phil Trowbridge proposed that agenda items be covered in the following order to allow extra time for item 6(b): Item 5, 7, 8, 6, 9.

2. Decision: Approve Steering Committee Chairs and Charter Revisions

After a quick discussion about committee member and chair alternates, Tom Mumley and Karin North were approved as chairs and thanked for their contributions to the RMP.

Phil presented proposed changes to the RMP charter to reflect the phase out of cooling water fee payers, namely:

- Remove SC and TRC seats for cooling water participants
- Strike references to cooling water participants throughout charter
- Revise cost allocation table in Appendix B

Decision

- Adam Olivieri motioned to approve Tom Mumley and Karin North to continue in their roles of chair and vice chair, respectively, of the Steering Committee during 2018. Jessica Burton Evans seconded the motion. The motion for approval was carried by all present members.
- Jessica Burton Evans motioned to approve the proposed changes to the charter with the addition of a footnote to Appendix B explaining that the loss of cooling water fees will not be made up by remaining participants. Peter Carroll seconded the motion. The motion for approval was carried by all present members.

Action Item

- Conduct succession planning for the chair and vice chair of the Steering Committee and Technical Review committee. (Tom Mumley & Karin North, 10/31/18)
- Update charter as presented to the SC on 11/1/17. (Phil Trowbridge, 11/17/17)

3. Decision: Approve Meeting Summary from July 19, 2017 and Confirm/Set Dates for Future Meetings

Phil Trowbridge confirmed the next four Steering Committee meeting dates: 1/24/18, 4/25/18, 7/25/18, & 10/24/18. Members cautioned that these meeting dates, especially 7/25/17, should be re-confirmed at future meetings.

Decision

- Karin North motioned to approve the July 19 Steering Committee meeting summary. Jessica Burton Evans seconded the motion. The motion for approval was carried by all present members.

Action Items

- Finalize July Steering Committee meeting summary and upload it to the RMP webpage. (Ila Shimabuku, 11/7/17)
• Create calendar invites for the proposed 7/25/18 and 10/24/18 Steering Committee meetings. (Ila Shimabuku, 11/7/17)

4. Information: TRC Meeting Summary

Phil Trowbridge quickly recapped highlights from the September Technical Review Committee meeting.

5. Information: RMP Financial Update for 2017 Quarter 3

Phil Trowbridge introduced this item by presenting RMP budgets and expenses from 2017. No decisions needed SC approval. Lawrence Leung gave a quick update about the status of the 2017 RMP audit and noted that no adverse impacts were found.

Tom Mumley brought up the issue of adding drydocks to the RMP as new participants in the industrial category.

Action Item

- Plan for the addition of drydocks as contributors to the RMP and present to the SC. Planning will include deciding what category drydocks should fall into (if not their own), fees, and whether they will be required to have a designated representative for the Steering Committee and Technical Review Committee. (Phil Trowbridge, 1/15/18)
- Develop a procedure for how to add stakeholders to the RMP. (Phil Trowbridge, 1/15/18)

7. Decision: Approve 2019-2021 Fees

Phil Trowbridge proposed the target fees for 2019-2021. The proposal was to increase fees by 3% per year to sustain the S&T monitoring program and maintain the same level of effort for special studies. No comments or questions were brought forward.

Proposal: Set the total RMP fees for 2019-2021 as shown in the table below, which is a 3% yearly increase for each participant group (not including cooling water participants)

<table>
<thead>
<tr>
<th>Year</th>
<th>Total Fees</th>
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<tbody>
<tr>
<td>2019</td>
<td>$3,693,121</td>
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<tr>
<td>2020</td>
<td>$3,803,915</td>
</tr>
<tr>
<td>2021</td>
<td>$3,918,033</td>
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</tbody>
</table>
• Karin North motioned to approved target fees for the RMP for 2019-2021. Adam Olivieri seconded the motion. The motion for approval was carried by all present members.

8. Decision: Approve the 2018 Budget and Detailed Workplan

Phil Trowbridge presented the projected RMP revenue, expenses, and deliverables for 2018. Phil explained the cuts he had to make to balance the budget. He highlighted that it may be difficult to complete all the programmatic tasks within this budget because most items are flat-funded or reduced in funding. The majority of the proposed work for 2018 will be Status and Trends monitoring and special studies (71%). There were no requested changes to the budget and workplan as proposed.

Decision
• Jessica Burton Evans motioned to approve the 2018 Budget and Detailed Workplan. Karin seconded the motion. The motion for approval was carried by all present members.

6. Decision: Approve Undesignated Funds for (a) Analyzing Archived Tern Eggs for PBDEs, and (b) North Bay Fire Monitoring

A. Approve $14,300 of Undesignated Funds for Analyzing Archived Tern Eggs for PBDEs

Phil Trowbridge quickly summarized the proposal to approve undesignated funds for the analysis of archived tern eggs and answered a few clarifying questions.

Decision
• John Coleman moved to approve the designation of $14,300 from Undesignated Funds for testing PBDEs in archived tern egg samples. Karin North seconded the motion. The motion for approval was carried by all present members.

B. Approve $27,000 of Undesignated Funds for Urgent North Bay Fire monitoring

Phil Trowbridge introduced part B of this item by explaining that Rebecca Sutton and Meg Sedlak had put together a small ($27,000) proposal to partner with the Department of Toxic Substances Control (DTSC) to conduct non-targeted analyses on samples to be collected at the Napa River during a storm event. The straw-man proposal was prepared to see whether the Steering Committee harbored any interest in fire-response monitoring by using $27,000 of undesignated funds to test stormwater runoff for signals from the following classes of contaminants: organophosphate flame retardants, pesticides, per-and-polyfluorinated alkyl substances (PFASs), chlorinated and brominated compounds, and others. Committee members were generally interested in the idea but were skeptical of many aspects of the proposal and, overall, asked for clearer objectives and hypotheses. The Committee decided that, after incorporating their suggestions, a review by Technical Review Committee should be conducted and the proposal should be brought back to the Steering Committee via email for approval of the updated design and budget. The Steering Committee was open to higher funding requests if justified in order to achieve objectives.
The following suggestions were made:

- Clarify the objectives and hypotheses for the study
- Consult with the Technical Review Committee on the study design
- Reevaluate sampling locations and consider monitoring at multiple sites
- Assess whether and how monitoring several events could be beneficial
- Identify additional analytes that could add value at low cost, i.e. nutrients, metals, etc.
- Look into analyzing samples that contain concentrated residential ash (or using EPA data on the ash) to characterize a strong residential-burn signal
- Check in with Scott Dusterhoff to identify and evaluate related fire-response work that is already being done or is being planned. Use findings for leveraging additional study partners and/or stakeholders.
- Identify and evaluate existing relevant data from the R1 Water Board work in the Russian River, 2016 RMP non-targeted ambient Bay water analysis, and any other relevant datasets
- Add in a RMP technical product that can be written for managers, rather than just a manuscript

**Decision**
- Peter Carroll motioned to direct staff to refine the North Bay Fire Monitoring proposal with $30,000 as the target funding level - but not a hard cap if justified in order to achieve objectives - and to bring it back for approval by the Steering Committee. Karin North seconded the motion. The motion for approval was carried by all present members.

**Action Item**
- Refine proposal by addressing feedback from the Steering Committee discussion, conduct a review by the TRC, and return to the Steering Committee for further approval. (Rebecca Sutton, 11/20/2017)

9. Discussion: Update on Annual Reports (Pulse, RMP Update), Annual Meeting, and Upcoming Reports and Communications Products

Jay Davis commenced the communications discussion by highlighting major findings from the Annual Meeting participant survey. To prevent large numbers of no-shows at future RMP Annual Meetings, committee members suggested holding the Annual Meeting farther, temporally, from the State of the Estuary Conference (SOTEC), as well as avoiding holding the Annual Meeting on a Friday or on days bordering a holiday weekend. Steering Committee members were in favor of continuing to hold a separate meeting from the SOTEC and holding a social event that follows the meeting.

**Action Item**
- Send a survey to the list of no-shows to collect information on why so many registered participants did not attend the meeting. (Ila Shimabuku, 11/7/17)

10. Discussion: Status of RMP Deliverables and Action Items

Phil Trowbridge presented the stoplight reports for RMP deliverables and action items and answered a few clarifying questions.
11. Discussion: Plan Agenda Items for Future Meetings

The following is a list of future possible agenda items for the Steering Committee along with their proposed meeting date:

- 1/24/18 - Approving the multi-year plan
- 1/24/18 - Approving the 2018 RMP Update outline
- 1/24/18 - Recommendations and options for incorporation of drydocks into the RMP
- 1/24/18 - Communications update
- 1/24/18 - Brief update on status of North Bay fire monitoring
- 1/24/18 - Two science updates: PFASs, sediment supply synthesis
- 4/25/18 - Restoration authority discussion
- 4/25/18 - Regional wetland monitoring (Luisa Valiela)
- 7/25/18 - Dioxin update & discussion

12. Discussion: Plus/Delta

The meeting was adjourned after participants commended RMP staff for an organized meeting and for hosting quality discussions.

Adjourn
Meeting Summary

Attendees

<table>
<thead>
<tr>
<th>TRC Member</th>
<th>Affiliation</th>
<th>Representing</th>
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<tbody>
<tr>
<td>Mary Lou Esparza</td>
<td>Central Contra Costa Sanitation District</td>
<td>POTWs</td>
<td>Alternate for Nirmela Arsem</td>
</tr>
<tr>
<td>Rod Miller</td>
<td>SFPUC</td>
<td>POTWs</td>
<td>Yes</td>
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<tr>
<td>Tom Hall</td>
<td>EOA, Inc.</td>
<td>POTWs</td>
<td>Remote</td>
</tr>
<tr>
<td>Ross Duggan</td>
<td>SFPUC</td>
<td>POTWs</td>
<td>Yes</td>
</tr>
<tr>
<td>Eric Dunlavey</td>
<td>City of San Jose</td>
<td>POTWs</td>
<td>Yes</td>
</tr>
<tr>
<td>Bridgette DeShields*</td>
<td>Integral Consulting</td>
<td>Refineries</td>
<td>Yes</td>
</tr>
<tr>
<td>Chris Sommers</td>
<td>BASMAA (EOA, Inc.)</td>
<td>Stormwater</td>
<td>Remote</td>
</tr>
<tr>
<td>Shannon Alford</td>
<td>Port of SF</td>
<td>Dredgers</td>
<td>Remote</td>
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<tr>
<td>Ian Wren</td>
<td>San Francisco Baykeeper</td>
<td>NGOs</td>
<td>No</td>
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<tr>
<td>Richard Looker</td>
<td>SFB RWQCB</td>
<td>Water Board</td>
<td>Yes</td>
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<tr>
<td>Luisa Valiela</td>
<td>US EPA</td>
<td>US-EPA IX</td>
<td>Yes</td>
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*Chair

Guests and Staff

- Paul Salop - Aquatic Marine Sciences
- Winn McEnery - Aquatic Marine Sciences
- Jamison Crosby - Napa County (Remote)
- Ila Shimabuku - SFEI
- Jay Davis - SFEI
- Phil Trowbridge - SFEI
- Don Yee - SFEI
- Rebecca Sutton - SFEI
- Cristina Grosso - SFEI
- Amy Franz - SFEI
1. Introductions and Review Agenda

Phil Trowbridge welcomed members of the committee and Bridgette DeShields commenced introductions. No changes were made to the agenda. However, Item 5 was taken out of order and covered before Item 4.

2. Decision: Approve Meeting Summary from September 14, 2017 and confirm/set dates for future meetings.

No changes were made to the September 14 meeting summary before approval.

Jay Davis reported on an action item from the September Technical Review Committee meeting which was to decide on whether to monitor for legacy pesticides in 2019 S&T sport fish monitoring. He presented RMP data on legacy pesticides in fish and shellfish collected since the data cut-off for the last 303d listing cycle (2006) in relation to two thresholds set by the Office of Environmental Health Hazard Assessment (OEHHA): fish contaminant goals (FCGs) and advisory tissue levels (ATLs). FCGs are often much lower than the ATL because it assumes a cancer risk threshold of $10^{-6}$ versus $10^{-4}$ for the ATL. The ATL also accounts for the beneficial effects of fish consumption. The fish tissue legacy pesticide concentrations measured since 2006 were below the lowest ATL for consuming 7 meals per week but sometimes above the FCG. Given that the tissue concentrations for legacy pesticides were already below the lowest ATL, the TRC decided not to add legacy pesticides to the analyte list for S&T sport fish monitoring in 2019.

Decision:
- Richard Looker motioned to approve the September 14, 2017, TRC meeting summary. Eric Dunlavey seconded the motion. The motion for approval was carried by all present members.
- The RMP should not monitor for legacy pesticides in 2019 S&T sport fish monitoring.
  (Consensus)

Action Items:
- Finalize the September 14, 2017, TRC meeting summary and post to the website and public-meetings folder. (Ila Shimabuku, 12/20/17)

3. Information: MYP/SC Meeting Summary from November 1, 2017

Phil Trowbridge presented a few of the approved items from the November Multi-Year Planning Workshop and Steering Committee Meeting. He asked Committee members to email him if they are interested in participating in the sediment workgroup meeting on January 31, 2018 or if they wanted to be part of the Exposure and Effects Workgroup strategic planning.

5. Information: 2017 Copper and Cyanide Water Concentrations Relative to Site-Specific Objectives and Latest Aquatic Toxicity Results
Ila Shimabuku presented the most recent 3-event copper and cyanide rolling averages as well as the water toxicity results from the 2017 S&T Water Cruise. The rolling averages for both copper and cyanide still fall below the site-specific objective (SSO) trigger levels in all regions of the Bay. However, three of the five copper rolling averages rose from the previous average and were as close as 92% of the trigger level in Lower South Bay. There was no aquatic toxicity shown for either end-point (growth and survival) at any sites.

Don Yee noted that Brooks Applied Laboratories (BAL) used a new copper analysis method on the 2017 Water Cruise samples which involved switching from using reductive precipitation to column chelation. Don estimated that his method change could affect the results by ~15%. Don had asked BAL to analyze a few samples using the old method to compare results.

The TRC requested the following additions to the Water Cruise update slides:

- Plot dissolved zinc concentrations alongside the copper rolling averages and Guadalupe River flow versus water year to tease out whether the increases were just for copper or for metals in general and the possible effects due to the high-flow water year in 2017.
- Plot the individual copper concentrations by year alongside the rolling averages to view the variability in the distribution.
- Include a table showing the SSOs alongside the trigger levels for every region of the Bay.
- Add information about changes in copper analytical methods to the slides. Include the results from split samples analyzed by BAL using old and new methods.

Action Items:

- Upload powerpoint to RMP web page after data and slides have been finalized. (Ila Shimabuku, 1/15/18)
- Add agenda item to March TRC meeting: Discuss the differences in the names and boundaries of the Bay segments used by the RMP, Water Board, and USGS. (Phil Trowbridge, 3/1/18)

4. Decision: Recommend Purchase of Acoustic-Release Systems for S&T Bivalve Monitoring

Winn McEnery and Paul Salop of Aquatic Marine Sciences (AMS) presented several options for acoustic-release systems for biennial bivalve sampling. The need for a new sampling technology came as a result of disappearing pilings at the historic Yerba Buena Island site. Winn and Paul explained that, though the samplers could cost up to $73,350, the samplers should save the RMP ongoing costs due to the decreased number of divers and sampling days needed to complete the effort. The acoustic-release systems would also provide flexibility on when and where the bivalves could be deployed and retrieved, and these systems could be used for other RMP efforts.

After discussing the samplers and permits for bivalve sampling, the Committee agreed that Paul and Winn should proceed with investigating the RMP’s purchase of acoustic-release samplers. The TRC expressed a preference for systems that would not leave anchors on the Bay floor after the deployment. Ross Duggan shared that these systems have a 10% failure rate and half of these failures are due to line fouling. AMS will talk to SCCWRP about their experience with these systems.
Action Items:
- Look into moving two bivalve sites outside of State Lands Commission territory. (Paul Salop, 1/1/18)
- Present a proposal for the purchase of an acoustic-release system to the SC in January. The proposal is to include budgeting and permitting information. (Paul Salop, 1/24/18)

6. Information/Decision: Fire Response Monitoring

a) Status of Proposal to Monitor Stormwater from North Bay Fires

Phil Trowbridge quickly summarized the status of post-fire monitoring, explained that the Steering Committee had approved the revised proposal and $36,000 budget, and mentioned that Becky intends to present preliminary findings to the Emerging Contaminants Workgroup in April. Rebecca Sutton clarified that samples from a second storm event will be collected and archived if data from the first storm event reveal a need for further analysis.

b) Add Dioxins to 2018 Bird Egg Monitoring for Fire Response

Jay Davis proposed that dioxins be added to the analyste list for the 2018 bird egg monitoring effort for status and trends to detect a dioxin signal that could result from the 2017 North Bay fires. Additionally, archived bird-egg samples from 2016 could be analyzed for dioxins as well.

The discussion revolved around whether the proposed non-targeted analyses would capture a dioxin signal and, if so, whether a positive signal would have any management implications. Luisa Valiela stated that studies that help determine pathways for dioxins released by fire events would be useful but bird egg monitoring would not provide that information. After some discussion, the TRC decided that dioxins should be left off the analyte list for 2018 bird egg monitoring but that these compounds should be part of the 2019 S&T Sport Fish Monitoring (as already planned). After the dioxins synthesis report is completed, the TRC will evaluate whether bird eggs should be a second matrix (in addition to sport fish) in which to measure dioxins as part of ongoing Status & Trends monitoring.

Decision:
- Do not add dioxins to the analyte list for 2018 bird egg monitoring for fire-response purposes. (Consensus)

Action Items:
- Add the North Bay fires event to the “Summary of RMP Program Changes” spreadsheet. (Ila Shimabuku, 12/20/17)
- Consider an article on the Top Ten water quality events in the upcoming RMP Update (and future reports) that includes significant water-quality-related events like substantial RMP findings, excessive rainfall or drought, fires, Dungeness crab closures, shark die-offs, and others. (Jay Davis, 3/1/18)

Lunch
7. Discussion: Laboratory Intercomparison Study Plans

Don Yee commenced the laboratory intercomparison (IC) discussion by reviewing how SCCWRP, and many of their partner labs, have planned to incorporate the RMP in their IC studies. TRC members agreed that the RMP should take the next steps to participate in SCCWRP’s IC studies and gave the following suggestions in response to Don’s questions:

**Should we require RMP labs* participate in the SCCWRP IC Study?**
- Require that labs used by the RMP participate in IC studies for selected target analytes and suggest that they participate for all others. Selected target analytes for sediment are PCBs, PAH, and Hg. Selected target analytes for fish tissue are PCBs, Hg, & Se. Discuss adding PBDEs as a target analyte for both matrices.

**Should other labs used by RMP members also participate?**
- Ask RMP partner labs to complete a survey about other IC studies they are involved with.
- Go to the Bay Area Clean Water Agency lab committee meeting and scope out other possible participating labs used by RMP participants.
- Labs used by BASMAA may be interested but will need more info on how much pro bono work will be required of participating labs.

**Where do we get material to send**
- Sediment: As long as SCCWRP uses similarly fine sediment with contaminants concentrations that are roughly comparable, the RMP should not contribute a Bay sediment sample.
- Fish: Jay will continue to communicate with SCCWRP about required fish tissue.

**How should an IC study for bird egg samples be handled? Bird egg samples will be analyzed by a new lab in 2018.**
- Wait for outcomes of the SCCWRP sport fish IC study and any potential method updates/modifications before planning this study.

Don Yee also reviewed some preliminary data from the Se IC study conducted between three labs using 2017 Water Cruise samples. Results were acceptably consistent between labs for dissolved selenium concentrations but not for particulate. Don Yee will delve more into lab communications and methodology to determine the possible causes of disparate results.

**Decision:**
- Proceed with next steps to participate in SCCWRP’s IC studies. (Consensus)

**Action Items:**
- Implement the TRC’s suggestions regarding lab intercomparison studies. (Don Yee, Phil Trowbridge, Jay Davis, 1/1/18)

8. Information: Informatics and Data Services Update
Amy Franz updated the TRC on any and all system improvements the data services team had implemented in 2017 and those planned for 2018. She also provided an overview of the status of current 2017 datasets and reviewed the planned 2018 analyses. Cristina Grosso continued Item 8 by demonstrating the Contaminant Data Download and Display (CD3; https://cd3.sfei.org) tool and its newly implemented features.

The TRC gave the following suggestions to the informatics and data services team:

- Add penalty clauses to contracts for late delivery of results
- Gather data on who uses CD3 (not just number of visitors)
- Determine how the SFB RDC compares to other RDCs in terms of visitors and use
- Ensure the link to the CD3 survey is functioning correctly
- Sort the analyte drop-down list by the frequency of use
- Add links to the original RMP data report to data downloads
- Add a “Suggestion Box” link next to the “Contact Us”
- Add an option to view data based on Bay regions defined in the Basin Plan

Richard Looker proposed an idea to promote the use of CD3 and its data as well as extracting useful analyses: the RMP could sponsor a CD3-based data analysis challenge to be conducted through local universities. The RMP would offer a nominal prize to entice participation and steer the challenge toward data analyses that would be useful to the RMP. The challenge objectives could be changed year to year in order to fit current RMP data-analysis interests.

**Action Items:**

- Include explicit financial penalties for overdue datasets in future RMP laboratory contracts. (Phil Trowbridge, 1/1/18)
- Present any steps taken on Richard’s data-analysis project to the TRC. (Cristina Grosso, 3/1/18)
- Implement the TRC’s suggestions for informatics. (Cristina Grosso, 12/31/18)


Jay Davis began the communications item by soliciting input on selecting a topic to highlight as a key publication in the 2018 RMP Update. One member suggested highlighting the Emeryville Crescent Report due to its multidisciplinary aspect which could inspire interest from a diverse group of readers. Jay requested that the TRC send him any additional input.

Jay Davis then asked the TRC to prioritize three of his proposed session topics for the Society of Environmental Toxicology and Chemistry conference to be held in November 2018. The TRC selected (1) fires and floods, (2) toxic pollutants in the San Francisco Bay and Delta, and (3) algal toxins.

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

Phil Trowbridge quickly summarized the status of RMP deliverables and action items.
11. Discussion: Plan agenda items for future meetings

In addition to routine first-quarter TRC items, Members wanted to discuss the Bay regions and any progress on the CD3 data-analysis contest idea.

12. Discussion: Plus/Delta

No plus/delta items were raised.

Adjourn
RMP Bioaccumulation Program: Deployment System Update

December 2017

Project Recap

- **Trigger:** 2016 finding that decaying piles at Yerba Buena Island will necessitate new deployment location in near future - no viable fixed structure options at this time.

- **Proposal:** Switch in 2018 to use of acoustic releases to secure bivalve moorings at all 7 deployment locations

- **Goal:** Keep deployment costs competitive with current scheme while maintaining completeness

Cost Information

- Preferred supplier identified in 2016 no longer manufacturing / servicing

- **Proposal:**
  - AMS will purchase eight releases and rent back to project at an anticipated cost of approx $3k/unit (with a commitment by RMP to use for a minimum of 2-3 cycles)
  - After cost recovery, AMS and SFEI will agree on arrangement that will support ongoing maintenance / replacement costs
  - Releases would be available to support other RMP-related monitoring outside of typical deployment windows
Current Options

- EdgeTech PORT MFE Pop up System
- Teledyne Shallow Release System
- SubSeaSonics: AR-50-AA

Advantages / Disadvantages

- **Advantages**
  - Avoid Aids to Navigation
  - Decreased labor costs (no. of staff on-board)
  - Decreased vessel costs (no. of days on water)
  - Greater flexibility in scheduling (i.e., not as dependent on currents)

- **Disadvantages**
  - Increased equipment cost
  - Uncertainty
  - Performance
  - Maintenance

Permitting

- Main permit: BCDC Abbreviated Regionwide Permit (in process)
- Likely to be lease requirement with CSLC (in process)
- Additional coordination with USCG and possibly CCSF (depending on replacement YBI location chosen)

Tentative Schedule

- January – submit permit applications
- March / April – coordination with CDFW, USCG
- April – purchase releases
- May / June – collect bivalves
- June – deploy bivalves
- Sept / Oct – retrieve bivalves
Synthesis of Sediment Supply to San Francisco Bay, WY 1995 - WY 2016: Data, trends, and monitoring recommendations to support decisions about tidal wetlands and resilience to sea level rise

Prepared By:
SFEI
Lester McKee, Sarah Pearce, Pete Kauhanen, Micha Salomon, Scott Dusterhoff, Letitia Grenier, and Philip Trowbridge
USGS
Dave Schoellhamer and Mathieu Marineau

Monitoring and limited studies

USGS and RMP monitoring and analysis
Marine Geology 2013 special issue
Bay Habitat Goals Projects
Flood Control 2.0 Project
BCDC sediment workshops
USGS CASCaDE Project
Dredgefest
many more

Sediment Supply to San Francisco Bay

Dredging
Flood control
Marsh restoration and sustainability
Sediment-associated contaminants
Clarity of Bay: nutrients
Sea level rise

Questions we address

1. What are the magnitudes and sources of fine and coarse sediment transported to San Francisco Bay?
2. What are the present temporal trends of fine and coarse sediment supply to San Francisco Bay?
3. What are scenarios for future sediment supply to San Francisco Bay?
4. How can sediment monitoring be improved to fill data gaps and better provide information for resource managers?

Provisional data, subject to revision, do not quote or cite
Scope of report

San Francisco Bay, not Delta
Terrestrial supply, not ocean
Water Years 1995-2016

Questions we address

1. What are the magnitudes and sources of fine and coarse sediment transported to San Francisco Bay?
2. What are the present temporal trends of fine and coarse sediment supply to San Francisco Bay?
3. What are scenarios for future sediment supply to San Francisco Bay?
4. How can sediment monitoring be improved to fill data gaps and better provide information for resource managers?

Terminology

Local small tributaries: streams that drain into San Francisco Bay
Water Year: October 1 to September 30
Mass: million metric tonne (Mt)
1 metric tonne = 1000 kg = 2,200 pounds
Suspended load: sediment carried by flowing water, mass/time
Bed load: sediment that rolls, slides, or jumps along the channel bottom
Total load = suspended load + bed load

From Delta at Mallard Island: Methodology

Bed load: Marineau computed bed load at two gages 25 km upstream, WY 1997-2010, transfer downstream by assuming 1) no change and 2) sand mining and dredging are replenished by bed load
From Delta at Mallard Island:
Suspended Load

Assuming no change RIO/JPT to MLD: 0.0775 Mt/yr (~4% of suspended load, important for dredging and sand mining)

Assuming bed load replenishes removals: -0.0833 Mt/yr (removal greater than bed load from rivers)
From Local Tributaries: Suspended Load Methodology

1) Flow and sediment data available: Watershed specific relations between flow and load. 13 watersheds, 59.2% of land area.

2) Only flow data available: Non-urban areas: use regional relations of flow to load. Urban areas: use measured sediment yield from nearby similar watersheds. 1.1% of land area.

3) No data available: Non-urban areas: use regional area to peak flow and flow to load relations. Urban areas: use measured sediment yield from nearby similar watersheds. 39.7% of land area.

From Local Tributaries: Bed Load Methodology

1) Flow and bed load data available: Watershed specific relations between flow and bed load. 7 watersheds, 41.7% of land area.

2) No data available: Non-urban areas: use regional area to peak flow and flow to load relations. Urban areas: assume negligible bed load. 58.3% of land area.

From Local Tributaries: Flood Control Channels Methodology

Flood Control 2.0 Project: storage and removal

Storage and removal less than bed load:

Storage and removal greater than bed load:

From Local Tributaries: Results

[Graphs and charts showing data related to storage, removal, and bed load]
From Local Tributaries: Results

Summary of WY 1995-2016 results

<table>
<thead>
<tr>
<th></th>
<th>Suspended load (Mt/yr)</th>
<th>Bedload (Mt/yr)</th>
<th>Total load (Mt/yr)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mallard Island</td>
<td>0.73</td>
<td>0 (0.003 to 0.077)¹</td>
<td>0.73 (0.65 to 0.81)</td>
</tr>
<tr>
<td>Local tributaries</td>
<td>1.15</td>
<td>0.063</td>
<td>1.22</td>
</tr>
<tr>
<td>Total net terrestrial supply</td>
<td>1.88</td>
<td>0.063 (0.0174 to 0.143)</td>
<td>1.95 (1.87 to 2.03)</td>
</tr>
</tbody>
</table>

Local tributaries were 63% of supply
Mean annual loads: A ‘normal’ year

Assume 1981-2010 hydrology is representative of flows, water management, and land use. Apply relations of load and flow.

<table>
<thead>
<tr>
<th></th>
<th>Suspended load (Mt/yr)</th>
<th>Bedload (Mt/yr)</th>
<th>Total load (Mt/yr)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mallard Island</td>
<td>0.58</td>
<td>0.025</td>
<td>0.605</td>
</tr>
<tr>
<td></td>
<td>(-0.07 to 0.12)</td>
<td>(0.51 to 0.70)</td>
<td></td>
</tr>
<tr>
<td>Local tributaries</td>
<td>1.24</td>
<td>0.0078</td>
<td>1.22</td>
</tr>
<tr>
<td>Total net terrestrial supply</td>
<td>1.82</td>
<td>0.033 (-0.062 to 0.13)</td>
<td>1.85 (1.76 to 1.95)</td>
</tr>
</tbody>
</table>

Values slightly less than WY1995-2016

Between subembayments: Methodology

Benicia Bridge: Ganju et al. (2001) method using DAYFLOW daily Delta outflow, continuous USGS SSC, and salinity gradient, WY 2002-2016


Dumbarton Bridge: Results

WY 2009-2011: 0.71 (0.41-1.00) Mt imported

WY 2013-2016: 1.20 (0.27-2.30) Mt imported

More Delta outflow reduces sediment import

Livsey et al. in review, provisional data subject to revision.

Benicia Bridge: Results

WY 2002-2016: 0.29 Mt/yr imported
Suisun Bay: Results

Average cumulative deposition ~7 cm

Questions we address

1. What are the magnitudes and sources of fine and coarse sediment transported to San Francisco Bay?
2. What are the present temporal trends of fine and coarse sediment supply to San Francisco Bay?
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Suisun Bay: Results

Deposition decreases as Delta outflow increases

WY 1981-2010 hydrology: 1.26 M/yr erosion, ~ 0.87 cm/yr.
Trend: constant or declining?

From Delta at Mallard Island: No trend

Morgan-King et al. (in prep) found Central Valley rivers have constant yield.

Factors that increase supply:
- greater storm intensity (Russo et al. 2013),
- sea level rise (Ganju and Schoellhamer 2010, Achete et al. 2017),
- decreased wind speed (Bever et al. in review)

Factors that decrease supply:
- smaller peak flows due to reduced snowpack (Stern et al. 2016),
- invasive aquatic vegetation in Delta (Hestir et al. 2013)

Local tributaries: No conclusive trend

Double mass plots generally indicate declining trend, but:
- Short duration
- Gaps
- May not be representative

Factors that increase supply:
- greater storm intensity (Russo et al. 2013)

Factors that decrease supply:
- Diminishing urbanization pulse
- Streambank protection
Questions we address

1. What are the magnitudes and sources of fine and coarse sediment transported to San Francisco Bay?
2. What are the present temporal trends of fine and coarse sediment supply to San Francisco Bay?
3. What are scenarios for future sediment supply to San Francisco Bay?
4. How can sediment monitoring be improved to fill data gaps and better provide information for resource managers?

Future: how much?

Marsh sustainability most sensitive to sea level rise and sediment input (Swanson et al. 2014)

Qualitative discussion in report, not quantitative
Previous changes from hydraulic mining and dams varied sediment supply to Bay by an order of magnitude (Gilbert 1917, Schoellhamer 2011)

Changes taking place now may continue but are producing little net change in sediment supply

Factors increasing sediment export:

- Sea level rise would increase sediment export 10% in 2100 (Achete et al. 2017).
- Stern et al. (in prep.) simulated watershed response to future climate scenarios and found that increasing storm intensity will have a greater effect on sediment transport than warmer temperatures, so sediment transport will increase.

Factors decreasing sediment export:

- Flood larger than experienced since hydraulic mining could decrease subsequent sediment supply as in 1999. Humans try to prevent this. 48% of Central Valley watershed is upstream from a dam.
- Permanent flooding of the four most vulnerable Delta Islands decreases sediment export 15% (Achete et al., 2017).

Future changes in sediment supply will be much smaller than those observed since 1850
Local tributaries

Dependent on future climate and precipitation

EPA-funded Healthy Watersheds Resilient Baylands Project will study future sediment supply from local tributaries

Questions we address

1. What are the magnitudes and sources of fine and coarse sediment transported to San Francisco Bay?
2. What are the present temporal trends of fine and coarse sediment supply to San Francisco Bay?
3. What are scenarios for future sediment supply to San Francisco Bay?
4. How can sediment monitoring be improved to fill data gaps and better provide information for resource managers?

Continue decadal-scale monitoring

Trend identification

Observe full range of hydrologic conditions especially large storms

Changing climate and land use will change flow and sediment yield

Value of data increases with age
Supply from Delta at Mallard Island

Validate and improve load calculation
Bed load measurements
Measure parameters to estimate bed load

Supply from local tributaries

North Bay: Sonoma Creek and Napa River suspended load data last collected 1960s and 1970s. Less bed load data.

East Bay: Walnut Creek lacks modern data. Maintain Alameda Creek

South Bay: Maintain Guadalupe (add bed load). Need wet years for Coyote Creek, modern data for San Francisquito and Colma Creeks. Important for local tidal marsh.

Sediment transport between subembayments

Bay supplies sediment to tidal marsh
Improve surrogate relations for Benicia Bridge
Carquinez Bridge: landward boundary of San Pablo Bay
Richmond Bridge: seaward boundary of San Pablo Bay
Golden Gate: export from entire Bay, tidal cycle measurements during WY2016&2017 high flows, really difficult cross section
Bay Bridge: Seaward boundary of South Bay

Monitoring comments

In general, larger sediment loads cost more to monitor

Numerical models could help with ungauged watersheds and subembayments
Bulk density to convert between mass and volume
Management priorities clarify monitoring priorities
Questions we address

1. What are the magnitudes and sources of fine and coarse sediment transported to San Francisco Bay?
2. What are the present temporal trends of fine and coarse sediment supply to San Francisco Bay?
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4. How can sediment monitoring be improved to fill data gaps and better provide information for resource managers?
## Bay RMP Action Items

**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.

<table>
<thead>
<tr>
<th>Primary Deliverable</th>
<th>Assigned To</th>
<th>Due Date</th>
<th>Status</th>
<th>Comments</th>
<th>Meeting Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Technical Review Committee Action Items from 12/14/17</td>
<td>Finalize the September 14, 2017, TRC meeting summary and post to the website and public-meetings folder.</td>
<td>Ila Shimabuku</td>
<td>12/20/17</td>
<td>Complete</td>
<td>12/14/17</td>
</tr>
<tr>
<td>Technical Review Committee Action Items from 12/14/17</td>
<td>Upload powerpoint to RMP web page after data and slides have been finalized.</td>
<td>Ila Shimabuku</td>
<td>01/15/18</td>
<td>Delayed until data have been QA'd.</td>
<td>12/14/17</td>
</tr>
<tr>
<td>Technical Review Committee Action Items from 12/14/17</td>
<td>Add agenda item to March TRC meeting: Discuss the differences in the names and boundaries of the Bay segments used by the RMP, Water Board, and USGS.</td>
<td>Philip Trowbridge</td>
<td>03/01/18</td>
<td>Complete</td>
<td>12/14/17</td>
</tr>
<tr>
<td>Technical Review Committee Action Items from 12/14/17</td>
<td>Look into moving two bivalve sites outside of State Lands Commission territory.</td>
<td>Paul Salop</td>
<td>01/01/18</td>
<td>Complete</td>
<td>12/14/17</td>
</tr>
<tr>
<td>Technical Review Committee Action Items from 12/14/17</td>
<td>Present a proposal for the purchase of an acoustic-release system to the SC in January. The proposal is to include budgeting and permitting information.</td>
<td>Paul Salop</td>
<td>01/01/18</td>
<td>Complete</td>
<td>12/14/17</td>
</tr>
<tr>
<td>Technical Review Committee Action Items from 12/14/17</td>
<td>Add the North Bay fires event to the “Summary of RMP Program Changes” spreadsheet.</td>
<td>Ila Shimabuku</td>
<td>12/20/17</td>
<td>Complete</td>
<td>12/14/17</td>
</tr>
<tr>
<td>Technical Review Committee Action Items from 12/14/17</td>
<td>Consider a “What Made the Headlines” article in the upcoming RMP Update (and future reports) that includes significant water-quality-related events like substantial RMP findings, excessive rainfall, fires, Dungeness crab closures, shark die-offs, and others.</td>
<td>Jay Davis</td>
<td>03/01/18</td>
<td>Delayed</td>
<td>12/14/17</td>
</tr>
<tr>
<td>Technical Review Committee Action Items from 12/14/17</td>
<td>Implement the TRC’s suggestions regarding lab intercomparison studies.</td>
<td>Philip Trowbridge</td>
<td>01/01/18</td>
<td>Complete</td>
<td>12/14/17</td>
</tr>
<tr>
<td>Technical Review Committee Action Items from 12/14/17</td>
<td>Implement the TRC’s suggestions regarding lab intercomparison studies.</td>
<td>Don Yee</td>
<td>01/01/18</td>
<td>Complete</td>
<td>12/14/17</td>
</tr>
<tr>
<td>Technical Review Committee Action Items from 12/14/17</td>
<td>Look into what methods the selenium IC labs used to calculate the minimum detection limit.</td>
<td>Don Yee</td>
<td>01/01/18</td>
<td>Complete</td>
<td>12/14/17</td>
</tr>
<tr>
<td>Technical Review Committee Action Items from 12/14/17</td>
<td>Include explicit financial penalties for overdue datasets in future RMP laboratory contracts.</td>
<td>Philip Trowbridge</td>
<td>01/01/18</td>
<td>Delayed</td>
<td>12/14/17</td>
</tr>
<tr>
<td>Technical Review Committee Action Items from 12/14/17</td>
<td>Present any steps taken on Richard’s data-analysis contest to the TRC.</td>
<td>Cristina Grosso</td>
<td>03/01/18</td>
<td>Delayed</td>
<td>12/14/17</td>
</tr>
<tr>
<td>Technical Review Committee Action Items from 12/14/17</td>
<td>Implement the TRC’s suggestions for informatics.</td>
<td>Cristina Grosso</td>
<td>12/31/18</td>
<td>Complete</td>
<td>12/14/17</td>
</tr>
<tr>
<td>Steering Committee Action Items from 11/01/17</td>
<td>Conduct succession planning for the chair and vice chair of the Steering Committee and Technical Review committee.</td>
<td>Tom Mumley</td>
<td>10/31/18</td>
<td>Complete</td>
<td>11/01/17</td>
</tr>
<tr>
<td>Primary</td>
<td>Deliverable</td>
<td>Assigned To</td>
<td>Due Date</td>
<td>Status</td>
<td>Comments</td>
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<td>----------</td>
<td>---------</td>
<td>---------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Steering Committee Action Items from 11/01/17</td>
<td>Finalize July Steering Committee meeting summary and upload it to the RMP webpage.</td>
<td>Ila Shimabuku</td>
<td>11/07/17</td>
<td>Complete</td>
<td></td>
</tr>
<tr>
<td>Steering Committee Action Items from 11/01/17</td>
<td>Create calendar invites for the proposed 7/25/18 and 10/24/18 Steering Committee meetings.</td>
<td>Ila Shimabuku</td>
<td>11/07/17</td>
<td>Complete</td>
<td></td>
</tr>
<tr>
<td>Steering Committee Action Items from 11/01/17</td>
<td>Plan for the addition of dry docks as contributors to the RMP and present to the SC. Planning will include deciding what category dry docks should fall into (if not their own), fees, and whether they will be required to have a designated representative for the Steering Committee and Technical Review Committee.</td>
<td>Philip Trowbridge</td>
<td>01/15/18</td>
<td>Complete</td>
<td>It turns out that Dry Docks are not able to join the RMP. Therefore, no action is required.</td>
</tr>
<tr>
<td>Steering Committee Action Items from 11/01/17</td>
<td>Develop a procedure for how to add stakeholders to the RMP.</td>
<td>Philip Trowbridge</td>
<td>01/15/18</td>
<td>Complete</td>
<td>Canceled because Dry Docks are not able to join the RMP. A discussion about whether procedures are needed in general is on the agenda for the 1/24/18 meeting.</td>
</tr>
<tr>
<td>Steering Committee Action Items from 11/01/17</td>
<td>Refine proposal by addressing feedback from today's discussion, conduct a review by the TRC, and return to the Steering Committee for further approval.</td>
<td>Rebecca Sutton</td>
<td>11/20/17</td>
<td>Complete</td>
<td>Revised proposal approved by SC on 11/29/17.</td>
</tr>
<tr>
<td>Steering Committee Action Items from 11/01/17</td>
<td>Send a doodle poll to the list of no-shows to collect information on why so many registered participants did not attend the meeting.</td>
<td>Ila Shimabuku</td>
<td>11/07/17</td>
<td>Complete</td>
<td>We don't have a list of those who did and did not attend so I cannot complete this task.</td>
</tr>
<tr>
<td>Technical Review Committee Action Items from 9/14/17</td>
<td>Finalize the June 8, 2017, TRC meeting summary and post to the public meetings folder.</td>
<td>Ila Shimabuku</td>
<td>09/25/17</td>
<td>Complete</td>
<td></td>
</tr>
<tr>
<td>Technical Review Committee Action Items from 9/14/17</td>
<td>Create a calendar event for the March 8, 2018 TRC meeting</td>
<td>Ila Shimabuku</td>
<td>09/25/17</td>
<td>Complete</td>
<td></td>
</tr>
<tr>
<td>Technical Review Committee Action Items from 9/14/17</td>
<td>Adjust the calendar event for the November 1, 2017, Multi-Year Planning meeting to include TRC members.</td>
<td>Ila Shimabuku</td>
<td>09/25/17</td>
<td>Complete</td>
<td></td>
</tr>
<tr>
<td>Technical Review Committee Action Items from 9/14/17</td>
<td>Reach out to all TRC and SC members to confirm their planned attendance at the RMP's Annual Meeting.</td>
<td>Philip Trowbridge</td>
<td>09/25/17</td>
<td>Complete</td>
<td></td>
</tr>
<tr>
<td>Technical Review Committee Action Items from 9/14/17</td>
<td>Revise the funding request memo for PBDEs in Tern eggs and put it on the agenda for the SC</td>
<td>Philip Trowbridge</td>
<td>11/01/17</td>
<td>Complete</td>
<td>On SC agenda</td>
</tr>
<tr>
<td>Technical Review Committee Action Items from 9/14/17</td>
<td>Develop a more specific plan for intercomparability studies to discuss at the December TRC meeting</td>
<td>Don Yee</td>
<td>12/14/17</td>
<td>Complete</td>
<td>For December mtg.</td>
</tr>
<tr>
<td>Technical Review Committee Action Items from 9/14/17</td>
<td>Revise S&amp;T Design based on feedback from the TRC and include it in the Multi-Year Plan</td>
<td>Philip Trowbridge</td>
<td>11/01/17</td>
<td>Complete</td>
<td></td>
</tr>
<tr>
<td>Technical Review Committee Action Items from 9/14/17</td>
<td>Determine why the RMP decided to test for water-column toxicity every 2 years instead of less frequently and report back to the TRC.</td>
<td>Jay Davis</td>
<td>12/14/17</td>
<td>Complete</td>
<td>On agenda for December mtg.</td>
</tr>
<tr>
<td>Technical Review Committee Action Items from 9/14/17</td>
<td>Report back to the TRC in December with information on the matrix that drives the continuing 303d listing for legacy pesticides and information on OEHHA guidelines for legacy pesticide in fish tissue.</td>
<td>Richard Looker</td>
<td>12/14/17</td>
<td>Complete</td>
<td>On agenda for December mtg.</td>
</tr>
<tr>
<td>Technical Review Committee Action Items from 9/14/17</td>
<td>Send information on all RMP data on legacy pesticides collected after 2006. Include both data tables and time series plots.</td>
<td>Philip Trowbridge</td>
<td>11/15/17</td>
<td>Complete</td>
<td>On agenda for December mtg.</td>
</tr>
<tr>
<td>Technical Review Committee Action Items from 9/14/17</td>
<td>Agendize a discussion of deploying radio-controlled moorings for bivalve samples for the December TRC meeting.</td>
<td>Philip Trowbridge</td>
<td>12/14/17</td>
<td>Complete</td>
<td>On agenda for December meeting</td>
</tr>
</tbody>
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Exported on January 17, 2018 10:24:30 AM PST
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<thead>
<tr>
<th>Primary</th>
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<th>Status</th>
<th>Comments</th>
<th>Meeting Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Technical Review Committee Action Items from 9/14/17</td>
<td>Ask Derek Muir about comparing results from the passive samplers to measured water concentrations. Report back to the TRC with the results from AQUAGAPS and how water concentrations from past RMP cruises compare.</td>
<td>Diana Lin</td>
<td>06/30/18</td>
<td></td>
<td></td>
<td>09/14/17</td>
</tr>
<tr>
<td>Steering Committee Action Items from 7/19/17</td>
<td>Send calendar invite for April 26, 2018 SC meeting</td>
<td>Ila Shimabuku</td>
<td>08/01/17</td>
<td>Complete</td>
<td></td>
<td>07/19/17</td>
</tr>
<tr>
<td>Steering Committee Action Items from 7/19/17</td>
<td>Revise the list of projects eligible for SEPs and share it with the Water Board</td>
<td>Philip Trowbridge</td>
<td>08/01/17</td>
<td>Complete</td>
<td></td>
<td>07/19/17</td>
</tr>
<tr>
<td>Steering Committee Action Items from 7/19/17</td>
<td>Revise the matrix showing the Status and Trends design to show the changes taking effect in 2017 and post to the RMP website</td>
<td>Philip Trowbridge</td>
<td>08/01/17</td>
<td>Complete</td>
<td></td>
<td>07/19/17</td>
</tr>
<tr>
<td>Steering Committee Action Items from 7/19/17</td>
<td>Send out Annual Meeting registration information to RMP participants</td>
<td>Philip Trowbridge</td>
<td>08/01/17</td>
<td>Complete</td>
<td></td>
<td>07/19/17</td>
</tr>
<tr>
<td>Steering Committee Action Items from 7/19/17</td>
<td>Send the SC the article written for the 20th anniversary of the RMP and the article on the 50-year vision from the 2015 Pulse</td>
<td>Jay Davis</td>
<td>08/01/17</td>
<td>Complete</td>
<td></td>
<td>07/19/17</td>
</tr>
<tr>
<td>Steering Committee Action Items from 7/19/17</td>
<td>Have a discussion with John Coleman regarding federal funding</td>
<td>Philip Trowbridge</td>
<td>08/01/17</td>
<td>Complete</td>
<td></td>
<td>07/19/17</td>
</tr>
<tr>
<td>Steering Committee Action Items from 7/19/17</td>
<td>Reach out to colleagues at other regional programs (Chesapeake, Great Lakes, Puget Sound, etc) about common messages regarding federal funding</td>
<td>Philip Trowbridge</td>
<td>08/01/17</td>
<td>Complete</td>
<td>Discussed issue with Peter Tango and Scott Phillips at CBP.</td>
<td>07/19/17</td>
</tr>
<tr>
<td>Steering Committee Action Items from 7/19/17</td>
<td>Prepare a short letter the describes the importance of the USGS Bay Monitoring Program</td>
<td>Philip Trowbridge</td>
<td>09/30/17</td>
<td>Complete</td>
<td>Letter prepared. Seeking WB signatures.</td>
<td>07/19/17</td>
</tr>
<tr>
<td>Steering Committee Action Items from 7/19/17</td>
<td>Provide details of Delta RMP monitoring to Jessica Burton Evans</td>
<td>Philip Trowbridge</td>
<td>08/01/17</td>
<td>Complete</td>
<td></td>
<td>07/19/17</td>
</tr>
<tr>
<td>Technical Review Committee Action Items from 6/8/17</td>
<td>Update the S&amp;T design with the consensus adjustments: discontinuing PBDE analysis in bivalves; curtailing nutrient monitoring during the Water Cruise; and skipping sediment toxicity and benthos for the 2018 sediment cruise.</td>
<td>Philip Trowbridge</td>
<td>06/30/17</td>
<td>Complete</td>
<td></td>
<td>06/08/17</td>
</tr>
<tr>
<td>Technical Review Committee Action Items from 6/8/17</td>
<td>Add an agenda item to a future TRC meeting about CTR parameters for RPA.</td>
<td>Philip Trowbridge</td>
<td>06/30/17</td>
<td>Complete</td>
<td>Added to parking lot for future agenda items.</td>
<td>06/08/17</td>
</tr>
<tr>
<td>Technical Review Committee Action Items from 6/8/17</td>
<td>Add particulate selenium to the target list for the 2017 Water Cruise.</td>
<td>Philip Trowbridge</td>
<td>06/30/17</td>
<td>Complete</td>
<td></td>
<td>06/08/17</td>
</tr>
<tr>
<td>Technical Review Committee Action Items from 6/8/17</td>
<td>Change S&amp;T design table to note that bird eggs were tested in 2016, not 2015.</td>
<td>Philip Trowbridge</td>
<td>06/30/17</td>
<td>Complete</td>
<td></td>
<td>06/08/17</td>
</tr>
<tr>
<td>Technical Review Committee Action Items from 6/8/17</td>
<td>Present a proposal to the TRC for testing archived tern eggs from 2016 for PBDEs. Determine the cost for analysis and data management. Review trends graphs to determine the value of getting more data.</td>
<td>Philip Trowbridge</td>
<td>09/15/17</td>
<td>Complete</td>
<td>Proposal prepared for 9/14/17 TRC meeting.</td>
<td>06/08/17</td>
</tr>
<tr>
<td>Technical Review Committee Action Items from 6/8/17</td>
<td>Follow-up with TRC members to reach resolution on summer vs winter for the 2018 sediment cruise.</td>
<td>Philip Trowbridge</td>
<td>09/15/17</td>
<td>Complete</td>
<td>Recommendation prepared for the 9/14/17 TRC meeting.</td>
<td>06/08/17</td>
</tr>
<tr>
<td>Technical Review Committee Action Items from 6/8/17</td>
<td>Discuss focusing RMP efforts with SQOs to hotspots during the Multi-Year Planning meeting</td>
<td>Philip Trowbridge</td>
<td>11/01/17</td>
<td>Complete</td>
<td></td>
<td>06/08/17</td>
</tr>
<tr>
<td>Technical Review Committee Action Items from 6/8/17</td>
<td>Finalize the minutes from 3/9/17 TRC meeting.</td>
<td>Philip Trowbridge</td>
<td>06/30/17</td>
<td>Complete</td>
<td></td>
<td>06/08/17</td>
</tr>
<tr>
<td>Steering Committee Action Items from 4/26/17</td>
<td>Review the RMP charter and re-establish a protocol for alternates at RMP governance meetings.</td>
<td>Philip Trowbridge</td>
<td>05/08/17</td>
<td>Complete</td>
<td></td>
<td>04/26/17</td>
</tr>
<tr>
<td>Steering Committee Action Items from 4/26/17</td>
<td>Upload the approved January 17 SC meeting summary to the public meetings Google Drive folder and the calendar event on the SFEI website.</td>
<td>Philip Trowbridge</td>
<td>05/02/17</td>
<td>Complete</td>
<td></td>
<td>04/26/17</td>
</tr>
<tr>
<td>Steering Committee Action Items from 4/26/17</td>
<td>Create website and Google calendar events for the January 25, 2018, Steering Committee meeting.</td>
<td>Philip Trowbridge</td>
<td>05/08/17</td>
<td>Complete</td>
<td></td>
<td>04/26/17</td>
</tr>
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<tr>
<td>Steering Committee Action Items from 4/26/17</td>
<td>Hold a phone call with Jim Mazza and Jessica Burton Evans to discuss Jim’s attendance at the June, and future, TRC meetings.</td>
<td>Philip Trowbridge</td>
<td>06/02/17</td>
<td>Complete</td>
<td>04/26/17</td>
<td></td>
</tr>
<tr>
<td>Steering Committee Action Items from 4/26/17</td>
<td>Share July SC agenda items two weeks early (July 5th) with John Coleman and Betty Kwan. Hold a phone call with John and Betty to review the July SC agenda ahead of time.</td>
<td>Philip Trowbridge</td>
<td>07/03/17</td>
<td>Complete</td>
<td>04/26/17</td>
<td></td>
</tr>
<tr>
<td>Steering Committee Action Items from 4/26/17</td>
<td>Approve the 2016 write-off of a $804 Caltrans invoice.</td>
<td>Lawrence Leung</td>
<td>06/01/17</td>
<td>Complete</td>
<td>04/26/17</td>
<td></td>
</tr>
<tr>
<td>Steering Committee Action Items from 4/26/17</td>
<td>Approve the unencumbering of $134,585 of left-over 2016 RMP funds and adding them to the reserve.</td>
<td>Lawrence Leung</td>
<td>06/01/17</td>
<td>Complete</td>
<td>04/26/17</td>
<td></td>
</tr>
<tr>
<td>Steering Committee Action Items from 4/26/17</td>
<td>Share EEWG meeting materials with dredging representatives.</td>
<td>Philip Trowbridge</td>
<td>05/08/17</td>
<td>Complete</td>
<td>04/26/17</td>
<td></td>
</tr>
<tr>
<td>Steering Committee Action Items from 4/26/17</td>
<td>Add the issue of “contaminant transport” to the fourth of the proposed sediment research questions in the next Multi-Year Plan.</td>
<td>Philip Trowbridge</td>
<td>10/31/17</td>
<td>Complete</td>
<td>Sediment questions updated for MYP.</td>
<td>04/26/17</td>
</tr>
<tr>
<td>Steering Committee Action Items from 4/26/17</td>
<td>Arrange a phone call with Jessica Burton Evans, David Schoellhammer, and the navigation program manager to discuss the USACE’s involvement in the USGS Sediment Supply Synthesis.</td>
<td>Philip Trowbridge</td>
<td>06/02/17</td>
<td>Complete</td>
<td>04/26/17</td>
<td></td>
</tr>
<tr>
<td>Steering Committee Action Items from 4/26/17</td>
<td>Reach out to Brenda Goeden at BCDC and Elizabeth Christian at the Water Board regarding the study design of the future sand-transport monitoring effort.</td>
<td>Philip Trowbridge</td>
<td>06/02/17</td>
<td>Complete</td>
<td>04/26/17</td>
<td></td>
</tr>
<tr>
<td>Steering Committee Action Items from 4/26/17</td>
<td>Reach out to key stakeholder groups and recruit more attendees for the EEWG meeting.</td>
<td>Philip Trowbridge</td>
<td>05/05/17</td>
<td>Complete</td>
<td>04/26/17</td>
<td></td>
</tr>
<tr>
<td>Steering Committee Action Items from 4/26/17</td>
<td>Add agenda item to May 9 EEWG meeting; provide a quick summary of the recent EEWG meeting.</td>
<td>Philip Trowbridge</td>
<td>05/01/17</td>
<td>Complete</td>
<td>There was insufficient time at the EEWG for this update but CEC staff were at the meeting to draw connections.</td>
<td>04/26/17</td>
</tr>
<tr>
<td>Steering Committee Action Items from 4/26/17</td>
<td>Modify language in the Proposed Questions for the Exposure and Effects Workgroup (for the next Multi-Year Plan) from “Are there any indications of ecological effects caused by exposure to mixtures of contaminants in the Bay?” to “Are there any indications of ecological effects caused by exposure to specific chemicals or mixtures of contaminants in the Bay?”</td>
<td>Jay Davis</td>
<td>10/31/17</td>
<td>Complete</td>
<td>Questions updated and stored in folder for 2018 MYP.</td>
<td>04/26/17</td>
</tr>
<tr>
<td>Steering Committee Action Items from 4/26/17</td>
<td>Research whether there’s bike parking at the David Brower Center and email Jessica Burton Evans any findings.</td>
<td>Ila Shimabuku</td>
<td>06/01/17</td>
<td>Complete</td>
<td>04/26/17</td>
<td></td>
</tr>
<tr>
<td>Steering Committee Action Items from 4/26/17</td>
<td>Send the outline of the Pulse to Naomi Feger, Peter Carroll, and Jim Ervin for review.</td>
<td>Jay Davis</td>
<td>05/15/17</td>
<td>Complete</td>
<td>04/26/17</td>
<td></td>
</tr>
<tr>
<td>Technical Review Committee Action Items from 3/9/17</td>
<td>Finalize the December 8, 2016 TRC meeting summary and post to the public meetings folder.</td>
<td>Ila Shimabuku</td>
<td>03/20/17</td>
<td>Complete</td>
<td>03/09/17</td>
<td></td>
</tr>
<tr>
<td>Technical Review Committee Action Items from 3/9/17</td>
<td>Create a calendar event for the September 14, 2017 and December 14, 2017 TRC meetings.</td>
<td>Ila Shimabuku</td>
<td>03/20/17</td>
<td>Complete</td>
<td>03/09/17</td>
<td></td>
</tr>
<tr>
<td>Technical Review Committee Action Items from 3/9/17</td>
<td>Send June 8 TRC meeting agenda items early (2 weeks early is on May 25th) to allow ample time for review by, and collaboration between, Richard Looker and Naomi Feger as Naomi will be filling in for Richard in June.</td>
<td>Philip Trowbridge</td>
<td>05/25/17</td>
<td>Complete</td>
<td>Agenda items will be sent on May 30.</td>
<td>03/09/17</td>
</tr>
<tr>
<td>Technical Review Committee Action Items from 3/9/17</td>
<td>Send sportfish workgroup doodle poll to SC, TRC, &amp; Janet O’Hara (Water Board).</td>
<td>Jay Davis</td>
<td>03/21/17</td>
<td>Complete</td>
<td>03/09/17</td>
<td></td>
</tr>
<tr>
<td>Technical Review Committee Action Items from 3/9/17</td>
<td>Send KMZ file of random site-location draws to TRC and ask for a two-week turnaround for comments and review.</td>
<td>Don Yee</td>
<td>03/13/17</td>
<td>Complete</td>
<td>03/09/17</td>
<td></td>
</tr>
<tr>
<td>Technical Review Committee Action Items from 3/9/17</td>
<td>Change the terminology for “Southern Slough” sites to something more intuitive (e.g., Extreme Lower South Bay).</td>
<td>Don Yee</td>
<td>04/03/17</td>
<td>Complete</td>
<td>“Extreme LSB” will be used.</td>
<td>03/09/17</td>
</tr>
<tr>
<td>Technical Review Committee Action Items from 3/9/17</td>
<td>Organize a brown-bag presentation about the Central Bay Margins Study at the San Francisco Bay RWQCB.</td>
<td>Don Yee</td>
<td>09/30/17</td>
<td>Complete</td>
<td>Brown bag scheduled for 9/20/17.</td>
<td>03/09/17</td>
</tr>
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<tr>
<td>Technical Review Committee Action Items from 3/9/17</td>
<td>Filter out non-significant results from the 2015 monitoring effort for further presentations.</td>
<td>Don Yee</td>
<td>04/03/17</td>
<td>Complete</td>
<td>Presentation altered for April 2017 ACS meeting presentation</td>
<td>03/09/17</td>
</tr>
<tr>
<td>Technical Review Committee Action Items from 3/9/17</td>
<td>Follow up with Steve Weisberg about external review of margins report.</td>
<td>Jay Davis</td>
<td>03/24/17</td>
<td>Complete</td>
<td></td>
<td>03/09/17</td>
</tr>
<tr>
<td>Technical Review Committee Action Items from 3/9/17</td>
<td>Share South Bay Margins study information with the South Bay Salt Pond Restoration Project and Bruce Jaffe about site locations and potential add-ons.</td>
<td>Philip Trowbridge</td>
<td>05/31/17</td>
<td>Complete</td>
<td>Draft sampling plan shared with SBSPPR.</td>
<td>03/09/17</td>
</tr>
<tr>
<td>Technical Review Committee Action Items from 3/9/17</td>
<td>Revisit list of ideas for monitoring contingency tasks and bring a selection forward to the Steering Committee if any are warranted.</td>
<td>Philip Trowbridge</td>
<td>05/18/17</td>
<td>Complete</td>
<td></td>
<td>03/09/17</td>
</tr>
<tr>
<td>Technical Review Committee Action Items from 3/9/17</td>
<td>Look into what areas require a State Lands Commission's Permit and consider avoiding these areas.</td>
<td>Philip Trowbridge</td>
<td>04/03/17</td>
<td>Complete</td>
<td></td>
<td>03/09/17</td>
</tr>
<tr>
<td>Technical Review Committee Action Items from 3/9/17</td>
<td>Ask Ian Wren who Phil should contact at the Coast Guard in regards to NOAA vessel navigation.</td>
<td>Ila Shimabuku</td>
<td>03/20/17</td>
<td>Complete</td>
<td></td>
<td>03/09/17</td>
</tr>
<tr>
<td>Technical Review Committee Action Items from 3/9/17</td>
<td>Ask EPA (Brian Ross and Allan Ota) and the Coast Guard for information on stations where a large research vessel can operate in the Bay.</td>
<td>Philip Trowbridge</td>
<td>04/03/17</td>
<td>Complete</td>
<td></td>
<td>03/09/17</td>
</tr>
<tr>
<td>Technical Review Committee Action Items from 3/9/17</td>
<td>Generate a list of contextual reports on sediment toxicity that the RMP has and send to Chris Sommers.</td>
<td>Philip Trowbridge</td>
<td>03/13/17</td>
<td>Complete</td>
<td></td>
<td>03/09/17</td>
</tr>
<tr>
<td>Technical Review Committee Action Items from 3/9/17</td>
<td>Prepare a plan for 2018 RMP sediment toxicity and benthos sampling and discuss it with the Exposure and Effects Workgroup</td>
<td>Philip Trowbridge</td>
<td>05/09/17</td>
<td>Complete</td>
<td>Task underway through the approved workplan.</td>
<td>03/09/17</td>
</tr>
<tr>
<td>Technical Review Committee Action Items from 3/9/17</td>
<td>Remove Harry Ohlendorf from the EEWG group to allow him to focus on the sediment workgroup.</td>
<td>Jay Davis</td>
<td>04/17/17</td>
<td>Complete</td>
<td></td>
<td>03/09/17</td>
</tr>
<tr>
<td>Technical Review Committee Action Items from 3/9/17</td>
<td>Synthesize committee thoughts from today and bring them to the Steering Committee for further discussion.</td>
<td>Jay Davis</td>
<td>04/17/17</td>
<td>Complete</td>
<td></td>
<td>03/09/17</td>
</tr>
<tr>
<td>Steering Committee Action Items from 1/17/17</td>
<td>Confirm November 1, 2017, with all absent Steering Committee members and create a calendar event.</td>
<td>Ila Shimabuku</td>
<td>02/01/17</td>
<td>Complete</td>
<td></td>
<td>01/17/17</td>
</tr>
<tr>
<td>Steering Committee Action Items from 1/17/17</td>
<td>Develop a better process for sharing meeting materials with the SC and TRC on the website.</td>
<td>Philip Trowbridge</td>
<td>04/26/17</td>
<td>Complete</td>
<td>The RMP calendar webpages have been reconfigured to make accessing the materials through the website easier.</td>
<td>01/17/17</td>
</tr>
<tr>
<td>Steering Committee Action Items from 1/17/17</td>
<td>Add discussion of whether further reductions in S&amp;T monitoring design are warranted (specifically, the cost vs. benefit of continued copper and cyanide monitoring) to the September TRC agenda and the November Multi-Year Planning Workshop.</td>
<td>Philip Trowbridge</td>
<td>08/30/17</td>
<td>Complete</td>
<td>On agenda for June 2017 meeting.</td>
<td>01/17/17</td>
</tr>
<tr>
<td>Steering Committee Action Items from 1/17/17</td>
<td>Add a line to the “CURRENT AND ANTICIPATED MANAGEMENT DECISIONS, POLICIES, AND ACTIONS BY THE REGULATORY AGENCIES THAT MANAGE BAY WATER QUALITY” table under “New and Future” related to pending actions on new beneficial uses.</td>
<td>Philip Trowbridge</td>
<td>02/01/17</td>
<td>Complete</td>
<td></td>
<td>01/17/17</td>
</tr>
<tr>
<td>Steering Committee Action Items from 1/17/17</td>
<td>Add discussion item about the future of the EEWG to the March Technical Review Committee and April Steering Committee agendas.</td>
<td>Philip Trowbridge</td>
<td>02/01/17</td>
<td>Complete</td>
<td></td>
<td>01/17/17</td>
</tr>
<tr>
<td>Steering Committee Action Items from 1/17/17</td>
<td>Send mercury results from the Guadalupe River sampling effort to the Steering Committee and Technical Review Committee once the results are received from Moss Landing.</td>
<td>Lester McKee</td>
<td>09/30/17</td>
<td>Complete</td>
<td>Report on Guadalupe River storm sampling was sent to the TRC in September.</td>
<td>01/17/17</td>
</tr>
<tr>
<td>Steering Committee Action Items from 1/17/17</td>
<td>Discuss the effects of declining state funding for the RDCs on the RMP and the Institute with Tom Mumley.</td>
<td>Philip Trowbridge</td>
<td>03/31/17</td>
<td>Complete</td>
<td></td>
<td>01/17/17</td>
</tr>
<tr>
<td>Steering Committee Action Items from 1/17/17</td>
<td>Send the State of the Estuary Report video to the Steering Committee, along with statistics on the number of views.</td>
<td>Cristina Grosso</td>
<td>02/01/17</td>
<td>Complete</td>
<td></td>
<td>01/17/17</td>
</tr>
<tr>
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<td>Steering Committee Action Items from 1/17/17</td>
<td>Develop and implement a plan to improve the RMP website.</td>
<td>Philip Trowbridge</td>
<td>12/31/17</td>
<td>Complete</td>
<td>Some changes were made to the website (new publications list, meeting materials on calendar pages). Additional improvements will be made during the rest of the year.</td>
<td>01/17/17</td>
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<tr>
<td>Steering Committee Action Items from 1/17/17</td>
<td>Revise the outlines for the 2017 Pulse, Annual Meeting, and 25th Anniversary</td>
<td>Jay Davis</td>
<td>02/15/17</td>
<td>Complete</td>
<td>Updated outlines prepared for the 3/9/17 TRC meeting.</td>
<td>01/17/17</td>
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<tr>
<td>Steering Committee Action Items from 1/17/17</td>
<td>Update the EEWG narrative as part of the next draft of this document in the fall.</td>
<td>Philip Trowbridge</td>
<td>09/30/17</td>
<td>Complete</td>
<td>This action item will be completed during the next MYP update. New research questions have been drafted and will be discussed with the EEWG on 5/9/17.</td>
<td>01/17/17</td>
</tr>
<tr>
<td>Steering Committee Action Items from 1/17/17</td>
<td>Include explicit statement on data fate (e.g., will the data be uploaded to CEDEN) in future proposals and plans, and ensure that critical background information travels with datasets.</td>
<td>Philip Trowbridge</td>
<td>03/31/17</td>
<td>Complete</td>
<td>Staff have been informed. Data management plans will also be added to Sampling and Analysis Plans for individual studies to facilitate communication within the Institute. SFEI's RDC has the flexibility of storing data so it is consistent with State standards, but not sharing the data with CEDEN. This allows data to be standardized and easily aggregated for analysis purposes, but not publicly displayed if this is a concern for a project.</td>
<td>01/17/17</td>
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<tr>
<td>Steering Committee Action Items from 1/17/17</td>
<td>Continue the dialogue on potential Annual Meeting keynote speakers via email.</td>
<td>Jay Davis</td>
<td>02/03/17</td>
<td>Complete</td>
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## Bay RMP Deliverables Scorecard Report

**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.

<table>
<thead>
<tr>
<th>Focus Area</th>
<th>Project</th>
<th>Primary</th>
<th>Deliverable</th>
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<td>Report on Non-Targeted Analysis of Water-Soluble CEC Compounds</td>
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<td>02/15/18</td>
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<td>04/30/18</td>
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</table>

**Comments:**
- **Due date extended to complete upload of priority CEC PFC datasets.**
- **(1) upload priority CEC datasets as requested by Dr. Becky Sutton**
- **(2) Upload PFC datasets**
- **(3) Upload 1995-2014 CTD data**
- **(4) Update database to implement changes made by CEDEN for standard vocabulary codes, business rules and database structure**
- **(5) Update records and address issues as identified by internal staff**
- **(6) Perform scheduled database maintenance.**
- **Carry over from 2016: Historic Sum of TEQs (DTSRDC-219) In Progress: Update QA Code for PCBs**
- **CEDEN comparable (DTSRDC-186) In Progress: Investigate results that have a reported QA Code but do not have a Compliance Code that indicates rejection (DTSRDC-33); In Progress**
- **(1) Add 2002 and 2003 CTR data to CD3**
- **(2) Add basic water quality data from YSI for RMP water cruises in 2010, 11, 12, 15 to CD3**
- **(3) Check that all records in the legacy RMP database are also in the RDC database**
- **(4) Make sure all RMP data has associated Lat/Longs so data can be exchanged with WQX**
- **(5) Move RDC database to Data 2**
- **(6) Update database to implement changes made by CEDEN for standard vocabulary codes, business rules and database structure**
- **(7) Update records and address issues as identified by internal staff**
- **(8) Perform scheduled database maintenance.**
- **(1) Modify and design data reporting templates.**
- **(2) Update queries for bird and bivalve tissue data**
- **(3) Maintain data management standard operating procedures and work flow documentation**
- **(4) Continue discussion on how to manage sums**
- **(5) Continue to work with CEDEN to provide input of updating the CEDEN data checker with SWRCB staff.**
- **(1) Manuscript is drafted and undergoing internal review. Will be shared with TRC by 02/13/18. Report was delayed due to other priorities. This delay will not affect the MYP process, and the data has already been presented to the ECWG.**
- **(2) Draft report was disseminated for review 9/2017. Finalizing the report is delayed because a new section on modeling is being added. TRC review of that section is needed.**
- **(3) Draft report presented to ECWG on 3/30/17. Dr. Ferguson has requested an extension for the draft report to 2/15/18 to allow him to do additional analyses with newly purchased, faster and higher-resolution equipment. The new machines will double the number of contaminant identifications possible. This extension will not affect decision-making, as Dr. Ferguson has already provided initial findings during the spring ECWG meeting. Provide final report to EB Parks.**
- **(4) Fact sheet is to accompany the final report. Provide final fact sheet to EB Parks.**
- **(5) Draft report by 4/30/18; final due 7/31/18 -- Review by ECWG**

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Exported on January 17, 2018 10:23:05 AM PST
<table>
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<th>Focus Area</th>
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<th>Old Date Date</th>
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<td><a href="mailto:diana@sfei.org">diana@sfei.org</a></td>
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<td>Amy Franz</td>
<td>09/30/18</td>
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<td>Update the RMP CEC Strategy document with revised tiered framework tables and multi-year plan, discussion of new RMP data and information gathered (Task 1); include discussion of role of improved Bay contaminant transport model and in informing understanding of fate and transport of emerging contaminants in the Bay</td>
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<td>Present an update of RMP CEC Strategy, ongoing or completed special and pro bono studies, and new studies to the Steering Committee in summer 2018.</td>
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<td>Update the RMP CEC Strategy document with revised tiered framework tables and multi-year plan, discussion of new RMP data and information gathered (Task 1); include discussion of role of improved Bay contaminant transport model and in informing understanding of fate and transport of emerging contaminants in the Bay</td>
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<td>Technical memo covering the M-AMBI threshold adjustment process and the results of the validation exercise</td>
<td>Philip Trowbridge</td>
<td>12/15/18</td>
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<td>April SC Meeting</td>
<td>Philip Trowbridge</td>
<td>04/25/18</td>
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<td>Manuscript will be prepared by academic partners (SDSU, DTSC, Duke). Not a RMP deliverable.</td>
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<td>Microplastic WG Meeting</td>
<td>Meg Sedlak</td>
<td>03/07/18</td>
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<td>Microplastic Characterization Study (Moore Foundation)</td>
<td>Baseline Report - Year 1</td>
<td>Meg Sedlak</td>
<td>05/31/18</td>
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<td>Meg Sedlak</td>
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<td>Bay RMP (2018)</td>
<td>Microplastics in San Francisco Bivalves</td>
<td>Presentation to TRC/SC</td>
<td>Meg Sedlak</td>
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<td>Ship-based sampling and sample analyses</td>
<td>Results reported in FY18 NMS Annual Report</td>
<td>Dave Senn</td>
<td>09/15/18</td>
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<td>Open-Bay and Slough Moored Sensors: Data Analysis, Interpretation, and Maintenance</td>
<td>Results reported in FY18 NMS Annual Report</td>
<td>Dave Senn</td>
<td>09/15/18</td>
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<td>RMP SEP</td>
<td>3. Hydrodynamic and Water Quality Model in SFB and LSB</td>
<td>Dave Senn</td>
<td>12/31/18</td>
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<td>PCB Margins Conceptual Model</td>
<td>Steinberger Slough Priority Margin Unit Conceptual Model Report</td>
<td>Jay Davis</td>
<td>01/31/18</td>
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<td>San Leandro Bay Conceptual Model Report</td>
<td>Jay Davis</td>
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<td>PCB Strategy Coordination and Technical Support</td>
<td>Updated PCB Multi-Year Plan</td>
<td>Jay Davis</td>
<td>06/15/18</td>
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<td>1. Program Management</td>
<td>2019 Multi-Year Plan</td>
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<td>1. Program Management</td>
<td>2019 Detailed Workplan</td>
<td>Philip Trowbridge</td>
<td>10/31/19</td>
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<td>Sediment Workgroup Meeting</td>
<td>Philip Trowbridge</td>
<td>01/21/18</td>
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<td>Sediment Strategy Support</td>
<td>1-2 Workgroup meetings</td>
<td>Philip Trowbridge</td>
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<td>Focus Area</td>
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<td>Sediment Strategy</td>
<td>Bay RMP (2018)</td>
<td>Hosting and Support for DMMO Database</td>
<td>Provide technical assistance for hosting and maintaining the DMMO database</td>
<td>Cristina Grosso</td>
<td>12/15/18</td>
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<td>Sediment Strategy</td>
<td>Bay RMP (2018)</td>
<td>Hosting and Support for DMMO Database</td>
<td>Develop BETA version of a web-based tool to compile “Tier 1” track records</td>
<td>Cristina Grosso</td>
<td>12/15/18</td>
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<td>Sediment Strategy</td>
<td>Bay RMP (2018)</td>
<td>Improved Lower South Bay suspended-sediment flux measurements at Dumbarton Bridge</td>
<td>Basic Data Report with sediment flux computations, detail of methods used, and data generated from the study, with no interpretation</td>
<td>Philip Trowbridge</td>
<td>12/15/18</td>
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<td>Selenium Strategy</td>
<td>Bay RMP (2018)</td>
<td>Mallard Island Suspended Sediment Monitoring</td>
<td>Data collected, processed, and QA/QCed by the USGS. Data made available to the public once approved</td>
<td>Philip Trowbridge</td>
<td>12/31/18</td>
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<td>Selenium Strategy</td>
<td>RMP SEP</td>
<td>6. Suisun Bay Selenium Monitoring Study</td>
<td>Laboratory Analysis of 2016 and 2017 Tissue Plug Samples</td>
<td>Jennifer Sun</td>
<td>01/31/18</td>
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<td>Selenium Strategy</td>
<td>Bay RMP (2015)</td>
<td>Selenium Special Studies / Selenium Sturgeon Tissue Plug Monitoring</td>
<td>2015 Sturgeon Muscle Plug Final Report</td>
<td>Jennifer Sun</td>
<td>03/31/18</td>
<td>05/31/16</td>
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<td>Selenium Strategy</td>
<td>RMP SEP</td>
<td>6. Suisun Bay Selenium Monitoring Study</td>
<td>Upload 2016 and 2017 Tissue Plug Samples to CEDDEN</td>
<td>Jennifer Sun</td>
<td>06/30/18</td>
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<td>6. Suisun Bay Selenium Monitoring Study</td>
<td>Financial Oversight</td>
<td>Jennifer Sun</td>
<td>12/31/18</td>
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<td>Sources Pathways and Loadings</td>
<td>Bay RMP (2017)</td>
<td>STLS Regional Watershed Model</td>
<td>RWSM. Draft model software, model updates, results of the model calibration, and regional loads</td>
<td>Alicia Gibreath</td>
<td>01/31/18</td>
<td>08/30/17</td>
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</table>
### Focus Area: Sources Pathways and Loadings

| Bay RMP (2016) | STLS Trends Strategy Support | POC trends. Guadalupe Trends Model Report | Philip Trowbridge | 03/31/18 | 12/31/16 | A trends model for the Guadalupe River was developed and presented to the SPLWG in May 2017. The model was refined in 2017. There was a call with the trends advisors in November 2017. A technical report on the new model was prepared by AMS by 12/31/17. This report is undergoing internal review and then will be shared with STLS, SFEI will cost out monitoring design options by March 2018, which may be added as section to the AMS report or be a stand-alone memo. This task started in 2016 but has continued through 2018 with an evolving scope. 2018 Trends Strategy funds were initially used to explore a power analysis using data from four well-sampled watersheds to determine a monitoring program that would be sufficient to track trends. Peer reviewers later recommended additional data exploration in one watershed (Guadalupe River) including: 1) Develop models for continuous PCB concentrations; 2) Identify gaps in existing storm styles sampled; 3) Compute storm EMCs and loads from continuous models; 4) Develop an "event loads" trends model.

### Sources Pathways and Loadings

| Bay RMP (2017) | STLS POC Watershed Characterization | Report on Pollutants of Concern monitoring in WY 2017 | Alicia Gilbreath | 03/31/18 | Draft is undergoing internal review and then will be sent to STLS and SPLWG. Final March 2018.

### Sources Pathways and Loadings

| Bay RMP (2018) | Small Tributaries Loading | Wet weather field monitoring | Alicia Gilbreath | 04/15/18 | Wet weather field monitoring: Selected site list by 10/17; Wet season water samples collected and sent to the labs for analysis by 4/18; Laboratory analysis, QA & Data Management by 9/18; Interpretation & reporting by 3/19

### Sources Pathways and Loadings

| Bay RMP (2017) | STLS Management | Jennifer Hunt | 12/31/18 | STLS Management (meeting agendas, meeting summaries, tracking and addressing action items)

### Sources Pathways and Loadings

| Bay RMP (2018) | Small Tributaries Loading | Technical report on the WY 2018 reconnaissance monitoring | Alicia Gilbreath | 03/15/19 | Advanced analysis interpretive report due as a draft by May 2018 and final by November 2018. Report to include a stepwise interpretive methodology and a technical appendix outlining the results of the advanced data analysis.

### Sources Pathways and Loadings

| Bay RMP (2018) | Small Tributaries Loading | Program Management | STLS management | 03/31/18 | STLS Management (meeting agendas, meeting summaries, tracking and addressing action items)

### Sport Fish Bay RMP (2018) | 2. Governance | Sport Fish WG Meeting | Jay Davis | 05/31/18 | 03/15/18

### Status and Trends


### Status and Trends

| Bay RMP (2018) | 6. Status and Trends I. S&T Laboratory Intercomparison Studies | Design and execution of laboratory intercomparison studies for key parameters in sediment, bivalve tissue, and bird egg tissue. Present to TRC on findings from IC studies. | Don Yee | 01/31/18 | 03/01/18

### Status and Trends

| Bay RMP (2018) | 6. Status and Trends E. Bird Egg Monitoring (Spring 2018) | Cruise plan | Adam Wong | 03/01/18 | 01/31/18

### Status and Trends

| Bay RMP (2018) | 6. Status and Trends E. Water Cruise Data Mgmt | Format, QA, and Upload 2017 Water Data | Amy Franz | 03/01/18 | 03/01/18

### Status and Trends

| Bay RMP (2017) | 6. Status and Trends F. Margins Sediment Study | Format, QA, and Upload 2017 South Bay Margins Sediment Data | Amy Franz | 03/01/18 | 03/01/18

### Status and Trends

| Bay RMP (2017) | 6. Status and Trends K. Analysis of S&T Data | Analysis of Selenium IC Samples and presentation to TRC | Don Yee | 03/15/18 | 03/01/18

### Status and Trends

| Bay RMP (2018) | 6. Status and Trends K. Analysis of S&T Data | Management subcontracts for field and laboratory work & staff cruise | Adam Wong | 03/15/18 | 03/01/18

### Status and Trends

| Bay RMP (2018) | 6. Status and Trends A. USGS Sacramento Support | Contract with USGS | Philip Trowbridge | 06/01/18 | 06/01/18

### Status and Trends


### Status and Trends

| Bay RMP (2018) | 6. Status and Trends C. 2018 Bivalve Cruise (Summer 2018) | Cruise plan | Philip Trowbridge | 06/01/18 | 06/01/18

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<td>Status and Trends</td>
<td>Bay RMP (2017)</td>
<td>6. Status and Trends L. PBDE Analysis for Archived 2016 Bird Eggs</td>
<td>Analysis of 15 archived tern egg samples. Results reported in an EDD.</td>
<td>Jennifer Sun</td>
<td>06/30/18</td>
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<td>Archive samples will be run at the same time as the 2018 samples. The results will be QA'd and uploaded along with the 2018 samples.</td>
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<td>6. Status and Trends J. Sample Archive</td>
<td>Maintain and enhance the Archive Data Sample tool and respond to archive sample requests</td>
<td><a href="mailto:michaelw@sfei.org">michaelw@sfei.org</a></td>
<td>12/31/18</td>
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<td>(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</td>
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<td>Format, QA, and Upload 2018 Bird Egg Data</td>
<td>Amy Franz</td>
<td>01/01/19</td>
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<td>As part of the QA Memo, trend plots of bird egg data will be generated.</td>
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<td>Amy Franz</td>
<td>03/01/19</td>
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