



## RMP Steering Committee Meeting

August 11<sup>th</sup>, 2011

San Francisco Estuary Institute  
Second Floor Conference Room  
7770 Pardee Lane, Oakland, CA  
10:00 AM - 12:45 PM

### DRAFT AGENDA

1.	<b>Approval of Agenda and Minutes</b> (Attachment)	10:00 Chair
2.	<b>Information: Committee Member Updates</b>	10:05 Group
3.	<b>Information: Technical Review Committee Meeting Summary</b> (Attachment) Topics of discussion at the June TRC meeting included: 2012 pilot and special studies; CTAG/TRC meeting; and an update on the review of Status and Trends.	10:10 Meg Sedlak
4.	<b>Information: Budget Status</b> (Handouts) An update on the status of the 2011 budget will be given. We are generally on track.	10:20 Lawrence Leung
5.	<b>Action: Request for Reserve Funding for Continued 2011 STLS Activities</b> (Attachment) The STLS team has been very active meeting with BASMAA and Water Board staff to present the latest findings and coordinate field activities. Funds for this task have been expended; however, a significant amount of work remains to be conducted to assure that the RMP is well coordinated with the MRP and the Water Board.	10:35 Meg Sedlak
6.	<b>Action: Approval of Special Studies for 2012</b> (Attachment) The TRC has made recommendations for a package of special studies for 2012. In addition, the Nutrient Strategy Team and the Modeling Strategy Team are in the process of developing specific recommendations for 2012.	10:50 Meg Sedlak Jay Davis

7.	<b>Action: Election of a New Chair</b> As we discussed at the last meeting, our current chair, Kevin Buchan, will be leaving us at the end of this year. We will need to solicit nominations and elect a new chair.	11:20 Group
8.	<b>Discussion: Program Review, Coordination with SFEI Board</b> (Attachment) The SFEI Board has requested that the RMP consider the need for a Program Review. Coordination between the RMP and the SFEI Board's strategic planning will be discussed.	11:35 Jay Davis Adam Olivieri
9.	<b>Discussion: Fact Sheet Plan</b> (Handout) Now that the first RMP fact sheet is completed, plans for additional fact sheets should be discussed.	12:00 Jay Davis
10.	<b>Discussion: RMP Annual Meeting and Pulse</b> (Handout) Update on the status of the Pulse. Finalize agenda for the Annual Meeting.	12:20 Jay Davis
11.	<b>Information: Program Update</b> (Attachment/Handout) An update on deliverables and workgroup meetings will be presented. We will need to choose a date for next Master Planning Meeting and determine a procedure for addressing workgroup comments on Master Plan.	12:35 Meg Sedlak/ Jay Davis
12.	<b>Plus/ Delta on today's meeting</b> Set date for October SC meeting	12:40
13.	<b>Adjourn</b>	12:45

## ***San Francisco Estuary Institute***

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## **RMP Steering Committee Meeting**

**April 19<sup>th</sup>, 2011**

**San Francisco Estuary Institute  
Second Floor Conference Room  
7770 Pardee Lane, Oakland, CA  
DRAFT MINUTES**

### **Members Present**

Dave Allen, USS POSCO  
Kevin Buchan, Western States Petroleum Association  
Brad Eggleston, City of Palo Alto  
Brian Hubinger, Chevron Richmond Refinery  
Rob Lawrence, US Army Corps of Engineers  
Adam Olivieri, BASMAA/EOA  
Tom Mumley, SFRWQCB  
Kirsten Struve (via telephone), City of San Jose  
Dan Tafolla, Vallejo Sanitation and Flood Control District

### **Others Present**

Jay Davis, SFEI  
Kelleen Griffin, SFEI  
Lawrence Leung, SFEI  
Trish Mulvey (via telephone), SFEI Board  
Meg Sedlak, SFEI

### **1) Approval of Agenda and Minutes**

Meg Sedlak reviewed the action items from the previous meetings. Ms. Sedlak noted that a number of the items were on the day's agenda including a discussion of the factsheets, the S&T strategy, and the Annual Meeting. With regard to the program review, Kevin suggested that this be discussed at the next SC meeting and that SC members/ SFEI Board be contacted ahead of the meeting. With regard to SEP funding, Adam Oliveri indicated that a preliminary telephone meeting had occurred but that the group needed input on next steps. Adam indicated that he would include Lester McKee and Meg Sedlak on BASMAA monthly meeting summaries in an

effort to improve coordination between SFEI and BASMAA stormwater projects. Regarding additional funding by USACE for RMP projects, Rob Lawrence indicated that given the current economic climate that this was unlikely.

Adam Oliveri motioned to approve the minutes from the January SC meeting, Brad Eggleston seconded, and the minutes were approved.

## **2) Information: Committee Member Updates**

Kevin Buchan indicated that unfortunately his current responsibilities have increased to a point where he is no longer able to be an active participant in the program. To assure a smooth departure, Kevin has identified a new representative for the refineries, Brian Hubinger from Chevron and he and Brian will both participate in the SC meetings until the end of the year at which time Kevin will relinquish the chair. Kevin recommended that the memorandum on the method for selecting a chair be sent to the SC.

### **Action items**

- Put Program Review on the next SC agenda and contact members prior to the meeting.

## **3) Information: Technical Review Committee Meeting summary**

Meg Sedlak noted that the Technical Review Committee (TRC) meeting in March focused on many of the issues that were discussed at the day's SC meeting. Ms. Sedlak indicated that the Numeric Nutrient Endpoint for San Francisco Bay (NNE project) was part of a larger state-wide effort being overseen by SCCWRP. A draft version of the San Francisco NNE report will be available shortly. An update was also given at the TRC meeting on the status of modeling activities. Ms. Sedlak indicated that the SUNTANS 3D model report had been completed and was currently undergoing review; the Margins Conceptual Model is in draft form and will be sent out shortly; and the Bioaccumulation model will be finished in time for the May 12<sup>th</sup> CFWG meeting.

## **4) Information: Budget Status**

Lawrence Leung stated that the RMP budget was on track. BACWA has provided an additional \$20,000 to off-set some of the cost associated with the June Nutrient Workshop and to develop a nutrient load model. With regard to participant fees, there is an \$8,009 shortfall as a result of a discrepancy between the Port of Oakland dredge data and the final numbers that were provided to the USACE/RWQCB. Lawrence indicated that because this number is used to develop a rolling average that there would be a shortfall each year for the next three years. Lawrence indicated that this shortfall will be deducted from the reserves set aside from prior surplus from the dredgers (currently \$54,113). Lawrence indicated that the RMP had not received participant fees from Emeryville marina from 2009; a suggestion was made that Lawrence follow up with John Coleman at BPC (*After the meeting, it was decided that Beth Christian should follow up on*

*this issue.*) Lawrence indicated that the books for 2004 and 2008 are now closed (i.e., all subcontracts, direct costs, and labor have been paid).

Meg Sedlak clarified that the dredger reserves resulted from years in which the dredgers had a surplus contribution as a result of a number of dredging projects (above the 17% that they are responsible for contributing to the program). The unencumbered reserves are different and result from program costs closing out under budget (e.g., reduced number of samples analyzed by the lab, etc.). Tom Mumley stated that in the past the unencumbered funding had been used for select projects; however, given the projected shortfall for the RMP special studies that the group may want to consider using these funds to augment the program funds. Use of the reserve should be tied into the priorities and strategies articulated in the Master Plan.

Kevin indicated that he appreciated the simplicity of the current memo and spreadsheet.

Following up on a comment made at the Master Planning meeting in which a request was made for more information on the 40% of the budget spent on program management, Meg Sedlak presented an updated graphic of the program management costs that more clearly differentiated costs among the program: communications, data management, workgroups and program management. Tom Mumley requested that titles be given with each segment and that in addition to percentages that the costs be included in the new graphic for the RMP Master Plan. Ms. Sedlak also presented a table that delineated the direct costs among the various program management elements. Tom Mumley indicated that he had no additional comments on the direct cost table.

#### **Action items**

- Lawrence Leung to contact John Coleman at Bay Planning Coalition and/or Beth Christian at the Water Board to provide assistance in obtaining delinquent fees from Emeryville Marina.

#### **5) Information: RMP Master Plan Update**

Jay Davis walked the group through the Master Plan noting that in future years there is a shortfall for special studies. This shortfall does not reflect the additional requests for funding that are likely to come from program elements that are currently under development. For example, he indicated that for mercury and PCBs, no funds are set aside for 2013 and beyond; however, it is likely that additional studies will be proposed. Jay outlined funding for each of the strategies: dioxin, emerging contaminants, tributary work, exposure and effects, forecasting and nutrients. Tom Mumley asked about the aquatic life synthesis; he had understood the focus of this project to be on sediment. Jay indicated that it had been expanded to include aquatic life to address water column toxicity. Mike Connor indicated that the dischargers conduct WET water column toxicity at a considerable expense and it would be helpful to evaluate the utility of this effort.

Jay Davis indicated that approximately \$400,000 was “locked in” for planning purposes for stormwater sampling over the next three years. Adam Oliveri indicated that this was important

because the municipal stormwater agencies need some certainty for planning purposes and to meet the requirements of their permits. A discussion ensued regarding the fact that approximately 75 percent of the budget was allocated to tributary studies, which appeared to meet the permit needs of only one constituency. It was pointed out that nonpoint source characterization and loads are a high priority for the Water Board and important for all of the participants. Mike Connor stated that understanding Se loads from tributaries will be important for the refineries and wastewater community. In addition, it was noted that a number of the RMP participants represent multiple constituents (e.g. stormwater and wastewater agencies).

The group then discussed the process by which the funds were “locked in” for long term planning purposes. Jay Davis suggested that the outcomes from the February Master Planning meeting come to the SC for approval. Tom Mumley indicated with fees remaining constant, it will be a significant challenge to meet all of the needs of the program.

Adam Oliveri made a motion to approve planning budget; Tom Mumley seconded. Additional discussion ensued. Kevin Buchan suggested that these multi-year projects be reviewed each year to assure that they are still meeting the goals envisioned by the participants. Tom Mumley made a motion to approve the Master Plan budget for 2012 as reflected in the Master Plan minutes, specifically recognizing that the tributary loading studies require a multi-year commitment. Kevin Buchan seconded and the motion passed unanimously.

Tom Mumley requested that the SC review its planning cycle to make sure that the flow makes sense. Rob Lawrence noted that the dredging community has a number of issues that may warrant RMP special studies – mercury, PCBs, and PAHs remain very important issues for this community. Rob Lawrence also indicated that it would be good if the RMP would coordinate efforts with USGS and USACE regarding modeling. Jay Davis indicated that both the USGS and the Corps will be presenting their modeling work at the next Contaminant Fate work group meeting.

#### **Action items**

- Review planning cycle to assure that it makes sense.

#### **6) Information: Status and Trends Strategy**

Meg Sedlak gave a quick overview of the Status and Trends strategy. The strategy will largely focus on sediment and water. A handout was distributed that presented draft priority questions for water and sediment. Ms. Sedlak asked for input from the group on the questions. She explained that she would be presenting the strategy to the Water Board for comment and input on May 5<sup>th</sup> and would welcome the opportunity to meet with other groups to obtain additional comments. Adam Oliveri suggested that Meg contact him after the meeting to determine which group within BASMAA to give the presentation to. He also requested that the questions be sent out electronically to the group.

Tom Mumley indicated that the Water Board would review the S&T strategy to determine what is necessary for regulatory purposes as well as other monitoring needs such as information for the development of models.

#### **7) Information: Annual Meeting and Pulse**

Jay indicated that the Pulse was coming along well; three of the articles have been written. He anticipates sending out the drafts to the TRC/SC in the next week or two. Kevin requested that specific permit language be included in the Pulse; he will provide Jay with this language. Mike Connor indicated that Jim Cloern would be a great keynote speaker.

#### **8) Information: Water Quality Report**

Jay Davis gave a quick overview of the Water Quality Report card that is being developed. He indicated that the assessment was being distilled into three categories: Are the fish safe to eat?; Is the Bay safe for swimming?; and Is the Bay safe for aquatic life? Each indicator will go into a category. The indicators will be rated on the degree of risk and the length of time to achieve attainment.

Adam Oliveri indicated that risk encompasses both probability and severity (e.g., acute, chronic, or nuisance). He commented that the Bay is relatively clean compared to other urbanized estuaries and laypeople may misinterpret the risk that has been assigned. He suggested that the word concern be substituted for risk. Mike Connor suggested including national data such as the NOAA Mussel Watch data to provide context for the San Francisco Bay results.

Jay Davis indicated that Andy Gunther is developing a practitioner's report as a companion document to the report card.

**Action Items: SC Meetings (updated 7/29/2011)**

#	Action Items – April 2011	Who?	When?	Status
1	Include Program Review on next SC agenda. Discuss with SC members prior to meeting	Meg	August 2011	On agenda for August SC meeting
2	Beth Christian to provide assistance in obtaining delinquent fees from Emeryville Marina	Lawrence		Completed. Follow up enforcement letter led to payment of fees.
4	Review planning cycle to assure comments from Master Plan are included	Meg	August 2011	Discuss at next SC meeting

#	Action Items – February 2011 (Master Planning Meeting)	Who?	When?	Status
1	Revise Master Plan per SC comments	Jay	April SC meeting	Pending
2	Develop S&T strategy and inform the SC of the timeline	Meg	September TRC	Presentation to TRC in March, follow-up discussion at June TRC meeting
5	Develop a Nutrient Strategy	Jay	April 22nd first Strategy Team meeting	Nutrients workshop held on June 30th. Strategy meeting scheduled for September 2011
6	Evaluate modeling needs	CFWG	May 12, 2011	Discussed at CFWG meeting
7	Form a SC subcommittee to submit proposals to SEP funding	Adam	Discuss status at April SC Meeting	Discussed at SC – follow up?
9	Have the SPLWG make recommendations for Central Valley loads monitoring (Mallard Island) and the need for follow-up atmospheric deposition work	SPLWG	May 12-13, 2011 SPLWG meeting	Not discussed at May SPLWG due to time constraints. On agenda for October 2011 SPLWG meeting.

#	Action Items – January 2011	Who?	When?	Status
10	Create a list of priority pollutants for future fact sheet topics for the San Francisco Estuary	Jay	2011	On agenda for August SC meeting

#	Action Items – November 2010	Who?	When?	Status
3	Develop website tool for uploading of WWTP metal loads	Meg	Summer 2011	On hold, pending funding. IT team is working on a site for the 2011 invoicing.



**RMP SC Meeting attendance**

Notes:

1. Dave Tucker elected to SFEI Board, June 2008
2. Marcus Cole filled in for Kevin Buchan
3. Replaced Dave Tucker as Large POTW Rep in May 2010
4. Replaced Arleen Navarret as Large POTW Rep in Sep 2010
5. Replaced Ken Kaufman as Small POTW Rep in Nov 2010
6. Karin North filled in for Brad Eggleston
7. Replaced Ellen Johnck as Executive Director of Bay Planning Coalition

P = present	C = call-in
X = not present	W* = provided input at RMP master planning workshop 4/21/10
- = not a rep at time of meeting	

RMP Water Qual represented	MEMBER	Affiliation	2009				2010				2011			
			1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q
POTW-Large	Dave Tucker (1)	City of San Jose	X	X	P	P	P	P	-	-	-			
POTW-Large	Arleen Navarret (3)	SFPUC	-	-	-	-	-	-	P	-	-			
POTW-Large	Kirsten Struve (4)	City of San Jose	-	-	-	-	-	-	-	P	P	P		
POTW-Med	Dan Tafolla	Vallejo Sanitation and Flood Control District	P	P	X	P	X	P	X	P	P	P		
POTW-Small	Ken Kaufman	South Bayside System Authority	X	X	X	X	X	X	X	X	X			
POTW-Small	Brad Eggleston (5)	City of Palo Alto	-	-	-	-	-	-	-	(6)	P	P		
Refineries	Kevin Buchan	WSPA	X	(2)	P	P	P	P	P	P	X	P		
Industry	Dave Allen	USS POSCO	X	P	P	P	X	P	P	P	X	P		
Cooling Water	Steve Bauman	Mirant Delta, LLC	X	X	X	X	X	X	X	P	X			
Stormwater	Adam Olivieri	BASMAA (EOA, Inc)	P	P	P	P	P	P	P	P	P	P		
Dredgers	Ellen Johnck	Bay Planning Coalition	X	X	X	P	P	W*	P	P	-			
Dredgers	John Coleman (7)	Bay Planning Coalition	-	-	-	-	-	-	-	-	P	P		
SF-RWQCB	Tom Mumley	SFB RWQCB	P	P	P	P	P	P	P	P	P	P		
SF-RWQCB	Karen Taberski (backup)	SFB RWQCB	-	-	-	-	-	-	-	-	-			
US Army Corps of Engineers	Rob Lawrence		X	X	X	X	X	X	X	X	X	P		

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**RMP Technical Review Committee Meeting**

**June 7<sup>th</sup>, 2011**

**San Francisco Estuary Institute**

**First Floor Conference Room**

**7770 Pardee Lane, Oakland, CA**

**10:00 am – 3:00 pm**

**DRAFT MINUTES**

**Meeting Participants**

Bridgette DeShields (Arcadis (WSPA))

Eric Dunlavey (City of San Jose)

Tom Hall (EOA, Inc. (South Bay Dischargers))

Mike Kellogg (City and County of San Francisco)

Francois Rodigari (EBMUD)

Chris Sommers (BASMAA (EOA, Inc.))

Karen Taberski (SFB RWQCB)

Naomi Feger (SFB RWQCB)

Ian Wren (Baykeeper)

Rachel Allen (SFEI)

Ben Greenfield (SFEI)

Jay Davis (SFEI)

Susan Klosterhaus (SFEI)

Lester McKee (SFEI)

Aroon Melwani (SFEI)

Meg Sedlak (SFEI)

**1) Introduction, Approval of Minutes, and Review of Action Items**

Meg Sedlak reviewed the action items from previous TRC meetings. Karen Taberski asked that the SFEI Quarterly report be distributed to the whole TRC. The program review will be discussed at the next Steering Committee (SC) meeting. Jay Davis asked that the TRC representatives discuss their ideas for program review of the RMP with their SC representatives beforehand. A contingency plan for sampling at Mallard Island at a high flow event was developed after the last TRC meeting, but was not circulated due to current low flow volumes. Lester McKee noted that sampling will occur only at flow above 375,000 cfs, which reflects a Yolo Bypass event. Only one such event has been sampled to date (during the floods of 2006). Meg Sedlak raised the issue of sampling a catastrophic event to the Bay, such as flooding due to the heavy snowfall that could cause levy failure, and asked what the RMP response to such an event should be. Jay Davis suggested that whether the RMP wants to monitor after a catastrophic event, and what this plan should look like, should be discussed in further detail at the next TRC meeting. Chris Sommers suggested that the plan also include collaborators from beyond the Bay area, in case the event (such as an earthquake) also has repercussions for those who

would also be doing the monitoring. He added that contingency plans from other organizations such as the USACE would be a good starting point.

Chris Sommers indicated that the joint North/South stormwater meeting is still being planned, but that it is more appropriate to hold this as a meeting between BASMAA and the Southern California Stormwater Monitoring Coalition rather than the RMP and SCCWRP, although the RMP and SCCWRP will continue to be involved. He will update the TRC as the plans progress.

Meg Sedlak will send out the power analysis on the water and sediment sampling plans from 2006 to the TRC. Chris Sommers noted that a review of the sampling plan for Mallard Island is needed. This will be addressed at the next SPLWG meeting in October.

Meg Sedlak informed the TRC that SFEI will be moving locations to Richmond in October or November of 2011. During this time period, RMP meetings may be held at alternative locations such as the Water Board.

Mike Kellogg motioned to approve the minutes from the March 2011 TRC meeting. Karen Taberski seconded the motion, and the minutes were approved.

#### **Action Items:**

- Send out the SFEI quarterly report to the TRC.
- Discuss developing a plan for monitoring after a catastrophic event to the Bay.
- Send out the S&T power analysis to the TRC.
- Discuss the management questions and frequency of sampling at Mallard Island at the next SPLWG meeting.

#### **2) Steering Committee Report**

Meg Sedlak informed the TRC that Kevin Buchan, the current head of the SC, will be leaving, and the new refineries representative will be Brian Hubinger of Chevron . In August, the SC will elect a new chair.

#### **3) Special Study (SS) Proposals for 2012**

Jay Davis indicated that there is not enough SS funding for all of the proposed studies in 2012. He reviewed the proposals, noting that of the seven proposals, only #3, on PFCs in the food web, was not solicited by the SC Master Plan. There are three items that do not have developed proposals. Instead, the TRC is asked to allocate funding to these fields, with the caveat that it will be granted only if reasonable proposals are developed by early 2012.

The SC requested a synthesis on sediment quality objective (SQO) drivers. Jay Davis noted that the scope of this request is unclear, and suggested that it be postponed until more funding is available. He asked the TRC if this work is a high priority for regulatory

actions. Naomi Feger indicated that the state is in the middle of the 303(d) listing cycle, and the Water Board would like to be able to influence the next listing cycle in 2 years with information about SQOs. The timeline for information needed to inform this process still needs to be laid out. Currently, SQO is not included in the guidance for 303(d) listing.

Jay Davis noted that a related study, the “National Coastal Condition Assessment” funded by the EPA, may accomplish the goal of summarizing knowledge on SQO drivers to date. The project will evaluate sediment data in estuaries across the West Coast. Because SFEI is a partner in this project, we can suggest that the work also include SQO data. A report from this project is expected in summer 2012.

Chris Sommers and Bridgette DeShields indicated that the SQO study is not required in 2012, but will be a priority for 2013.

Meg Sedlak noted that Chris Vulpe and Steve Bay will update the EEWG on their progress with the Molecular TIE project in October. At that point the EEWG will be able to give the RMP a recommendation for a plan of action with regards to stressor identification.

Jay Davis informed the TRC that the CFWG did not recommend a specific plan for modeling, and instead asked for a tactical plan with more details. Report authors are still sorting through feedback on the Margins Conceptual Model and the Bioaccumulation Conceptual Model. Jay recommends that the \$100,000 be allocated for modeling in 2012, with the confidence that the modeling team and the CFWG will come up with a workplan for 2012. The strategy and workplan for nutrients in 2012 is still in development. The workshop and meeting on June 29<sup>th</sup> and 30<sup>th</sup> will form the foundation of the nutrient strategy.

RMP staff gave presentations on the proposed special studies.

1. Dioxins (Susan Klosterhaus) - \$119,470

Susan Klosterhaus outlined the plan for sampling and analysis of dioxins in 2012. The wet season sediment data from 2010 are currently under QA review; once these data are available, Susan will update the dioxin strategy team and solicit a decision on whether to analyze sediment data from the 2011 dry season, the 2012 wet season, or a combination of both. Susan noted that the budget for sampling at 2 urban tributaries has decreased because AXYS has reduced the sample volume from 8 liters to 4 liters, which reduces the sampling and shipping costs. Based on the results of the tributary water samples processed to date, AXYS and Don Yee estimate that this reduction of the sample size will result in a 15% decrease in the overall number of congener detections (from 90% to about 75%).

Naomi Feger asked that the TRC be informed of the date for the dioxin strategy meeting.

Chris Sommers noted that the Small Tributaries Loading Strategy (STLS) proposes two separate sampling designs – bottom of the watershed monitoring and sampling of event mean concentrations. He suggested that the dioxin sampling be aligned with the approach in the STLS. He proposed reallocating the funding for sampling two urban tributaries to a split between the two approaches. Jay Davis suggested that the STLS team advise the plan for dioxin monitoring at the June 17<sup>th</sup> STLS meeting.

2. CEC synthesis – Year 2 (Susan Klosterhaus) - \$15,000

Work on the first year of this study will begin this summer. The report on recommended CECs to monitor from the state advisory panel on discharges to coastal ecosystems has been delayed till early 2012, which may delay slightly the progress of the CEC synthesis report.

3. PFCs in SF Bay Biota (Meg Sedlak) - \$87,000

Meg Sedlak noted that this study came out of the Emerging Contaminants (ECWG) meeting in March. Naomi Feger indicated that PFCs remain a concern among contaminants of emerging concern, but the data supporting this concern are rather old. The study is designed to confirm the levels that are being detected in biota and investigate the food chain leading to high concentrations in seals and birds.

4. Spreadsheet model – Year 3 (Lester McKee) - \$20,000

Lester McKee reviewed the data from the tributary loads monitoring in recent years, including the 2010-2011 reconnaissance study.

The spreadsheet model is designed to predict annual flow volumes, and has recently become more precise and more accurate. The year 3 tasks will include incorporation of priority POC source areas and application of EMC data.

Chris Sommers and Lester McKee indicated that this type of spreadsheet model is standard procedure for tributary loads modeling, and has been well implemented in Southern California.

5. Stormwater loads monitoring (Lester McKee) - \$348,000

In 2012, the RMP is scheduled to monitor 2 watersheds over 4 storms. The MRP calls for 2 other watersheds to be monitored by BASMAA in 2012. It is probable that the Guadalupe River and Marsh Creek will be monitored, along with two others to be identified shortly. The budget is still in flux, as details such as like whether BASMAA or the RMP will pay for data management have yet to be sorted out. In addition, if the watersheds do not have a USGS hydrology monitoring station in place already, the group will need to collaborate with USGS, which may cost between \$30,000 and \$70,000 to set up and another \$15,000 to operate annually.

Chris Sommers noted that the \$30,000 allocated to reporting will not be needed because a big report is planned after year 2 or 3 of monitoring, rather than year 1. Lester McKee indicated that these funds would go towards data interpretation for presentation and possible course correction in the sample design. Chris Sommers therefore asked that the proposal reflect that the task 6 funds are for “interim analysis of the data” rather than reporting.

6. EMC Development (Lester McKee) - \$80,000

Sampling at source areas to develop land use specific event mean concentrations (EMC) would provide input to the spreadsheet model. If the STLS team approves of this project at the June 17<sup>th</sup> meeting, the details of the study will be ironed out over the next 3 months, with sampling to begin in early 2012. Alternatively, the project could be delayed until 2013.

7. Hotspot Followup (Meg Sedlak) - \$30,00

Meg Sedlak is taking on the two-year sediment hotspots SQO follow-up study. The RMP is planning on scheduling meetings to select the sampling sites in June and July, and collect samples during the sediment cruise in August. In year 2, the study will finish up with data analysis and reporting.

Chris Sommers asked if SFEI is still looking for new staff in the field of benthic ecology. Jay Davis indicated that the organizations priorities have shifted since the job announcement was posted, but that if the TRC has recommendations they should pass them along. Karen Taberski asked if this project should be passed to SCCWRP while SFEI lacks a dedicated benthic ecologist, which Jay Davis indicated was an option for this project.

### **Discussion of Special Studies**

Meg Sedlak indicated that she is reviewing the design of the Status and Trends (S&T) component of the RMP, and that the RMP may be able to save about \$200,000 by eliminating water chemistry every other year. The current status of this idea will be discussed further, in item 4. For the purpose of approval of special studies, the TRC should identify two tiers of studies: studies to receive funding from the SS pool, and studies that are contingent upon freeing up \$200,000 from the reduction of S&T.

The group agreed not to fund the SQO synthesis study. Naomi Feger and Chris Sommers suggested that the nutrients and forecasting earmarks should be funded in tier 2, that is, they will be funded contingent upon freeing up funding from savings in the S&T component and development of a workplan, which the group agreed to. At the September TRC meeting, the group will make a decision regarding the reduction of S&T and will have further details on the nutrients and forecasting workplans.

This left the 7 proposed studies with complete, guaranteed funding, except for a \$20,000 shortfall. Jay Davis indicated that the TRC should balance the budget before sending a recommendation to the SC. The group decided to reduce the reporting budget (task 6) in the Stormwater Loads Monitoring study by \$20,000, and requested that Lester McKee indicate at the next meeting which tasks will consequently not be performed.

The recommendation from the TRC to the SC was to fund the seven proposed studies with the allocated SS funds, reducing the reporting task from the loads monitoring study by \$20,000 to balance the budget. The nutrients and forecasting work will be funded contingent upon available funds from finding efficiencies in S&T and further definition of the work.

**Action Items:**

- Select a date for Dioxin Strategy meeting and notify the TRC.
- Solicit input from the Dioxin Strategy Team on whether to analyze wet season or dry season sediments.
- Solicit input from STLS on how to conduct dioxin monitoring (either at base of watershed for loads or higher up in watershed to get EMC information).
- Adjust the description of task 6 in the Stormwater Loads Monitoring proposal to reflect that the funds are for “interim analysis of the data” rather than reporting.

**4) Optimizing Status and Trends**

Meg Sedlak informed the TRC about the ongoing process of reviewing the Status and Trends program and consulting with the RMP stakeholders to evaluate their information needs. She will provide a full recommendation to the TRC in the fall.

After consulting with the Water Board, Meg Sedlak determined that there is good potential to reduce water chemistry monitoring with “no regrets”. The power analysis conducted in 2006 indicated that the power is very strong for detecting trends in PCBs and Hg. However, water is not typically used to indicate trends, so this power is irrelevant. Therefore, a status update every other year would likely be sufficient to fulfill water chemistry data requirements. BACWA agreed with the Water Board, but they wanted to ensure that they would still be in compliance with the Basin Plan. The BACWA/ TRC representative will set up a meeting to clarify that this modification would not have regulatory consequences. Chris Sommers, as the BASMAA representative, indicated that the stormwater agencies do not have any need for annual water quality information. The Bay Planning Coalition indicated that annual sediment data is useful, so further discussions will be needed before deciding whether to reduce sediment monitoring. Naomi Feger suggested including John Coleman from the Bay Planning Coalition in the information needs discussions with the USACE. She also asked that the USACE articulate their information needs for special studies. This will help the RMP know how the monitoring information will be used. Naomi Feger noted that recently the RMP helped with a discussion between NOAA and the EPA regarding in bay disposal of dredged sediments. She asked for a presentation at the next TRC meeting.



**Action Items:**

- Meg Sedlak will share the power analyses with the TRC.
- The BACWA/TRC representative to meet with Water Board/ BACWA director to assure that there will not be compliance issues if the RMP moves to biennial sampling
- Include the Bay Planning Coalition in the discussion with the USACE on the possible reduction of the RMP status and trends monitoring. Send John Coleman the results of the power analysis beforehand. Also ask the USACE if they have needs for RMP special studies related to dredging.
- Present results of the Ambient Sediment Conditions task (used in discussion with NOAA/ EPA regarding essential fish habitat) at the next TRC meeting.

**5) Small Fish Monitoring**

Ben Greenfield informed the TRC that he will be leaving SFEI in September to pursue a PhD in public health at UC Berkeley.

He presented the ongoing analyses of the data from the six year study of small fish. All together, these data compose a very rich data set. He focused on spatial patterns and seasonal trends. The data indicate that mercury uptake in small fish is highest in the lower south bay. Small fish were sampled at a variety of site types, defined by mercury source and elevated sediment concentrations. Small fish concentrations do not generally correlate with site type, however. The next set of analyses will compare sediment concentrations with fish concentrations, where sediment mercury data exists in the margins.

Data from the diffusive gradient thin-film (DGT) devices deployed in 2009 at the small fish sampling locations did not correlate with the small fish data, suggesting that DGTs are indicating different methylmercury trends from small fish. Chris Sommers asked that this discussion of the comparability of DGTs and small fish be included in the write-up. It is possible that DGTs reflect methylmercury in the water column, while small fish respond more to bioavailable mercury in the sediment. However, the DGT data did indicate significant differences across site type.

Ben Greenfield also displayed the spatial trend in small fish by plotting the distance (in river miles) from the sample location to the mouth of the Guadalupe River. Chris Sommers noted that while this measure is designed to indicate the gradient from south to north, by using the Guadalupe River as the endpoint, it implies that the mine is the mercury source, while the higher concentrations in the south may be more related to the high methyl mercury productivity and longer residence time of water in the Lower South Bay.

Ben Greenfield discussed seasonal trends in small fish sampled from the Martin Luther King Regional Shoreline, which seem to show a peak in arrow gobies during the late summer, and a peak in topsmelt during the late winter.

The small fish study included PCB analyses in 2010, and the results show that topsmelt have higher PCB concentrations than shiner surfperch, the highest of the sportfish. Jay Davis suggested that this may be due to their residence in the margins, where PCB concentrations are expected to be higher. Spatial patterns seem to indicate that PCB are highest in small fish around the central bay. A preliminary analysis of congeners suggests that sites have different profiles, reflecting different Aroclor mixtures.

Recommendations for the future include continued annual mercury monitoring as part of Status and Trends, similar to the bivalve monitoring. The mercury and PCB small fish results will be written up as chapters in a summary of the multi-year small fish monitoring.

## **6) CTAG-TRC Meeting**

Meg Sedlak updated the TRC on the CTAG-TRC meeting, which occurred in Southern California on May 19<sup>th</sup>. Of the TRC members, only Mike Kellogg and Francois Rodigari's alternate Saskia van Bergen participated. Because of the effort required to put these meetings together, Meg Sedlak asked that the group discuss whether these meetings should continue in the future, and if so, how to ensure that there is enough participation. She noted that it was still a worthwhile interaction for SFEI staff, and in particular the organizations identified their respective areas of expertise in differing approaches to similar questions.

Meg Sedlak noted that SCCWRP is also in the process of producing fact sheets, which are intended for their commissioners. They address topics such as emerging contaminants on a very general level. Because of the disparate target audiences, it was decided not to produce joint SFEI/SCCWRP fact sheets, but rather to help each other in the development and use each as needed. SCCWRP is planning to release one fact sheet a month for the next 13 months.

For future meetings, the CTAG was interested in discussing modeling, historical ecology, data management, nutrients, and diagnostics such as barcoding. Because they don't have the outside technical expertise available through the RMP workgroups, they were also interested in including the scientific advisory panels as needed.

Chris Sommers asked what the expected outcome of the joint meeting is, and that this be elucidated before deciding to hold another one. Francois Rodigari asked that any future meetings be clearer about the goal for each day, and have more input from the TRC in the development of the agenda. Chris Sommers noted that while the interaction is beneficial for SFEI staff, there is a difference between SFEI and the RMP. He does not think that the TRC should fill the role of technical advisors for SFEI as a whole, and would therefore not be interested in a meeting on historical ecology or data management. If that

were the focus, he would ask RMP staff to attend and report back to the TRC. Bridgette DeShields suggested that 2012 would be an appropriate time to hold a joint meeting on modeling and nutrients, although the modeling meeting could be between the CFWG and the SCCWRP modeling team, rather than the TRC and CTAG. Naomi Feger suggested that SFEI could use a technical advisory committee.

Francois Rodigari noted that because there was no headcount at the previous TRC meeting, most of the participants assumed that the others would go. He suggested getting a commitment from the TRC reps. If a meeting were agreed to, Meg Sedlak should ask for RSVPs during the preparation. Mike Kellogg noted that he found the meeting very useful, and that he was proud to be representing the TRC.

**Action Items:**

- Discuss the goals of a potential CTAG-TRC meeting at the next TRC meeting. Develop an agenda and consider whether a meeting is warranted.

**7) Update on the Pulse and Annual Meeting**

Jay Davis thanked the group for their input on the Pulse articles that have been released so far, and indicated that he would send out the articles on the report card and birds the day after the meeting. Francois Rodigari indicated that he would review the report card article.

Jay Davis noted that Jim Cloern is not available to give a keynote speech at the Annual Meeting, but that Dan Schlenk has committed to speaking. He proposed a line-up of speakers for the remainder of the meeting. Karen Taberski indicated that having overlapping speakers at the State of the Estuary conference and the RMP Annual Meeting would be acceptable because they attract different audiences.

Chris Sommers asked if the nutrients strategy would be ready for a talk at the annual meeting, and suggested that the topic be the Numeric Nutrients Endpoint (NNE) rather than the strategy. Naomi Feger could present the regulatory side of the NNE, with a follow up talk by David Senn or Mike Connor on the status of the nutrient strategy.

Chris Sommers asked if the water quality report card should be presented through the RMP, as it was not funded by the RMP and could provide mixed messages. Jay Davis indicated that the Pulse and the Annual Meeting are more broadly focused on the Bay and water quality. Francois Rodigari indicated that the report card and “Safe to Swim” talks would be of interest to dischargers, and therefore appropriate for the Annual Meeting. Chris Sommers was concerned that the “Safe to Swim” talk will open a discussion that the meeting will not have time to address. Jay Davis indicated that he would discuss these reservations with the SC when deciding on the final agenda for the meeting.

**Action Items:**

- Discuss the TRC’s concerns about having a talk on “Safe to Swim” at the RMP Annual Meeting with the SC.

**8) Plus/Delta, Selection of next meeting Date**

The next meeting will be held on Tuesday, September 27<sup>th</sup>. Meg Sedlak will send out the workgroup summary electronically.

**Action Items: TRC Meetings (updated 7/29/2011)**

#	Action Items – June 2011	Who?	When?	Status
1	Send out the SFEI quarterly report to the TRC.	Meg	6/8/2011	Completed
2	Discuss developing a plan for monitoring after a catastrophic event to the Bay	Meg	September 2011 TRC meeting	
3	Send out the S&T power analysis to the TRC.	Rachel		
4	Discuss the management questions and frequency of sampling at Mallard Island at the next SPLWG meeting.		October 2011 SPLWG meeting	Scheduled for October 25th SPLWG meeting
5	Select a date for Dioxin Strategy meeting and notify the TRC, and solicit input from the Dioxin Strategy Team on whether to analyze wet season or dry season sediments.	Susan		Scheduled for October 26th (day after SPLWG meeting)
6	Solicit input from STLS on future dioxin monitoring in urban tributaries (either at base of watershed for loads or higher up in watershed to get EMC information)	Lester	June 17th 2011, if possible	
7	Adjust the description of task 6 in the Stormwater Loads Monitoring proposal to reflect that the funds are for “interim analysis of the data” rather than reporting.	Lester		
8	The BACWA/TRC representative to meet with Water Board/ BACWA director to clarify that there will not be compliance issues when calculating the three year moving average copper, nickel, and cyanide trigger values if the RMP moves to biennial sampling	Francis	6/9/2011	Amy Chastain feels that a reduction in water monitoring will not be a problem from the BACWA point of view. Consequently we have the go ahead from BACWA to reduce monitoring.

9	Include the Bay Planning Coalition in the discussion with the USACE on the possible reduction of the RMP status and trends monitoring. Send John Coleman the results of the power analysis beforehand.	Meg		BPC has been invited to July 21st meeting with USACE/ DMMO members and power analysis has been sent.
10	Present results of the Ambient Sediment Conditions task (used in discussion with NOAA/ EPA regarding essential fish habitat) at the next TRC meeting.	Rachel	September 2011 TRC meeting	On agenda for September TRC meeting
11	Discuss the goals of a potential CTAG-TRC meeting at the next TRC meeting. Develop an agenda and consider whether a meeting is warranted.	Meg	September 2011 TRC meeting	
12	Discuss the TRC's concerns about having a talk on "Safe to Swim" at the RMP Annual Meeting with the SC.	Jay	August 2011 SC meeting	

#	Action Items – March 2011	Who?	When?	Status
2	Determine a distribution strategy for the Triclosan fact sheet		August 2011	On agenda for the August SC meeting
5	Standardize the format of RMP proposals	Meg	Next round of proposals	
9	TRC subcommittee to meet to develop a Status and Trends strategy, including a decision tree	Meg	June 2011	Individual meetings have been held with BACWA, BASMAA and Water Board. Will meet with USACE/ Bay Planning and Refineries in July.

#	Action Items – September 2010	Who?	When?	Status
5	Develop a 2013RMP proposal for incorporating mercury into SQO indirect effect models	Ben	October 2011	To be addressed at October EEWG

#	Action Items – June 2010	Who?	When?	Status
4	Chris Sommers and Ken Schiff (SCCWRP) will work together to plan a joint north-south stormwater meeting in the next 6 months.	Chris	Tentatively set for June 2011	On hold per BASMAA request
7	Review existing information on shellfish, and consider designing a comprehensive shellfish survey.	Meg	Spring 2012	To be addressed as part of Master Planning in 2012

RMP Water Qual represented	MEMBER	Affiliation	2009				2010				2011			
			1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q
POTWs	Francois Rodigari	EBMUD	P	P	P	P	P	(2)	P	P	P	P		
POTWs	Rod Miller	SF PUC	X	P	P	X	X	X	P	X	X	X		
South Bay Dischargers	Tom Hall	EOA, Inc.	P	P	P	P	P	P	P	P	P	P		
CCSF	Mike Kellogg	City and County of San Francisco	P	P	X	P	P	P	P	P	P	P		
City of San Jose	Eric Dunlavey	City of San Jose	P	X	P	P	P	P	P	P	P	P		
Refineries	Bridgette DeShields	Arcadis/WSPA	P	P	P	P	P	P	P	P	P	P		
Industry	Dave Allen	USS POSCO	X	X	X	X	X	X	X	X	X	X		
Stormwater	Chris Sommers	BASMAA (EOA, Inc.)	P	P	P	P	P	P	X	P	P	P		
Dredgers	John Prall	Port of Oakland	P	P	X	P	P	X	X	X	X	X		
Corps of Eng.	Rob Lawrence	Army Corps of Engineers	X	X	X	X	X	X	X	X	X	X		
SF-RWQCB	Karen Taberski	SF-RWQCB	P	P	P	P	P	P	P	P	P	P		
US-EPA IX	Luisa Valiela	US EPA	X	C	X	C	P	X	C	C	P	X		

Notes:

1. Richard Looker substituted for Karen Taberski	X = not present	P = present
2. Saskia van Bergen substituted for Francois Rodigari		C = call-in

## Workgroup Activities – Third Quarter 2011

### A. Contaminant Fate Workgroup

#### Meetings:

The Contaminant Fate Workgroup (CFWG) met on May 12<sup>th</sup>. The major focus of the meeting was discussing the recently completed modeling reports, work by other Bay Area modelers (USGS and the Army Corps of Engineers) and discussing next steps forward for the modeling strategy. A recommendation from the meeting was to develop a tactical plan forward that would articulate not only the type of model to be employed but some of the logistical needs (e.g., expertise, individuals who have this expertise, schedule, coordination among groups, etc.). The CFWG discussed the types of models that might be used and how a biotic component could be included. One of the major concerns was how to address /model the Bay margins, which have higher concentrations of contaminants and tend to be very biologically active areas.

#### Milestones:

- Completion of Bay Margin Model.
- Completion of the Bioaccumulation Model.

#### Activities for the third quarter of 2011:

- Completion of a Draft Estimate of Atmospheric Deposition of Dioxin.

The next CFWG to be determined. For more information, see previous CFWG minutes and agenda at our website [http://www.sfei.org/rmp/rmp\\_minutes\\_agendas.html](http://www.sfei.org/rmp/rmp_minutes_agendas.html) or contact the CFWG leader, Don Yee, at [don@sfei.org](mailto:don@sfei.org).

### B. Sources Pathways and Loading Workgroup (SPLWG)

#### Meetings:

The SPLWG met on May 12<sup>th</sup> to discuss recent findings from the Mallard Island study; the Zone 4 Line A study; the Guadalupe River study; the Guadalupe River Model; and Spreadsheet Loading Model/EMC Literature review. On the following day, SPLWG met to discuss Small Tributary Loading Strategy and priorities including the Multi-year Plan, information needs for Category 3 Pollutants of Concern and loads monitoring.

#### Milestones:

- Completion of the Mallard Island report.

Activities for the third quarter of 2011:

- Meeting with subset of STLS and SPLWG advisors to plan for wet weather sampling 2011/2012.
- Completion of Zone 4 Line A Report that summarizes four years of data (August 2011).
- Completion of Guadalupe HSPF manuscript (August 2011).
- Completion of the Regional Storm Water Spreadsheet Model and Land Use Classification (August 2011).

The next SPLWG meeting will be held on October 25th. This meeting will be a joint meeting with the Dioxin Strategy team (October 26<sup>th</sup>). For more information, see previous SPLWG minutes and agenda at our website [http://www.sfei.org/rmp/rmp\\_minutes\\_agendas.html](http://www.sfei.org/rmp/rmp_minutes_agendas.html) or contact the SPLWG lead, Lester McKee, at [Lester@sfei.org](mailto:Lester@sfei.org).

**C. Exposure and Effects (EE) Workgroup**Meetings:

No meeting this quarter.

Milestones:

- Completion of 2010 small fish sampling.
- Submittal of an abstract to National SETAC meeting on PCBs in Small Fish (Rachel Allen).
- Completion of an Interim Report – Development of a Genomics Approach for Stressor Identification in Sediment Toxicity Assessments, March 30, 2011 (Steve Bay and Chris Vulpe).

Activities for the third quarter of 2011:

- Preparation of the small fish report (June/July).
- Continuation of NOAA study on juvenile flatfish. The first year of the study was focused on zebra fish as a model fish and exposure of the fish to four and five ringed PAHs that are common in SF Bay sediments. Study is underway with halibut larvae and PAH-contaminated sediments.
- Dr. Barnett Rattner will continue his PBDE and terns study. At present, no changes to tern skeletal systems was noted based on exposure to PBDEs. Kestrel hatchlings were found to have reduced skeletal lengths and deformed spines. These results will be further investigated. No effects to the bursa follicle were noted from exposure to PBDEs. (Bursa follicle is an epithelial and lymphoid organ found only in birds.)
- Completion of the EEPS Synthesis document (November 2011).

The next workgroup meeting will be held in October 18th 2011.



For more information, see previous EEWG minutes and agenda at our website [http://www.sfei.org/rmp/rmp\\_minutes\\_agendas.html](http://www.sfei.org/rmp/rmp_minutes_agendas.html) or contact the EEWG lead, Meg Sedlak, at [meg@sfei.org](mailto:meg@sfei.org).

## **D. Emerging Contaminants Workgroup**

### Meetings:

The ECWG met on March 25<sup>th</sup> to discuss updates on the NIST broadscan work, the PFC sources project, the measurement of PFCs in tributaries, the factsheets, and potential pilot and special study projects. The ECWG requested pilot studies on PFC sources and NOAA mussel watch coordination and collaboration.

### Milestones:

- Invited Presentations:
  - “Emerging Contaminants in San Francisco Bay”, Bay Area Pollution Prevention Group, June 1.

### Activities for the third quarter of 2011:

- Completion of a manuscript on Sources of PFCs to San Francisco Bay (July).
- Preparation of a draft report/manuscript on alkylphenols and PPCPs in San Francisco Bay (July).
- Preparation of a draft report/manuscript on alternative flame retardants in San Francisco Bay (July).
- Continuation of NIST broadscan work. Samples of harbor seals and mussels have been sent to NIST for method development and analysis.

Next ECWG meeting date will be determined.

For more information, see previous EC workgroup minutes and agenda at our website [http://www.sfei.org/rmp/rmp\\_minutes\\_agendas.html](http://www.sfei.org/rmp/rmp_minutes_agendas.html) or contact the ECWG lead, Meg Sedlak, at [meg@sfei.org](mailto:meg@sfei.org).

## **E. Ambient Sediment Conditions Discussion**

The Regional Water Quality Control Board is facilitating discussions among NOAA NMFS, the EPA, LTMS, and the USACE regarding the creation of threshold values for management and testing of dredged sediment.

### Milestones:

- RMP staff submitted Dr. Steven’s Statistical Report to USEPA/NOAA. The report is an attachment to the LTMS Programmatic Essential Fish Habitat Consultation.

Activities for the third quarter 2011:

- None anticipated.

For more information, please contact Meg Sedlak at [meg@sfei.org](mailto:meg@sfei.org).

**F. Causes of Toxicity**

The scope of work for the UC-Davis Granite Canyon work under the Causes of Toxicity element includes:

- Develop LC50 thresholds of effects for three compounds (cyfluthrin, chlordane and pyrene).
- Develop a collaborative state-wide workgroup and research effort to address causes of persistent moderate toxicity.
- Further research solid phase toxicity identification and evaluation (TIE) methods.

Milestones:

- The first of two Stressor Identification work group meetings was held at SFEI on April 7, and a second meeting is planned for the third quarter of 2011. The Agenda and Minutes from the first meeting are available on the SFEI website at: <http://www.sfei.org/node/3117>.
- Completion of the draft report. Currently under review, it will be sent to the workgroup shortly.

Activities for the third quarter 2011:

- Presentation to the EEWG in October 2011. Revision of draft report based on comments by the workgroup.

For more information, please contact Meg Sedlak at [meg@sfei.org](mailto:meg@sfei.org).

**G. Benthic Workshops**Meetings:

Sediment Quality Objectives for Enclosed Bays and Estuaries (SQO Phase I) was promulgated in February 2008. Benthic indicators form one line-of-evidence in the SQO assessment procedure. However, in mesohaline areas of San Francisco Estuary, such as San Pablo and South bays, current benthic indices require revision. In oligohaline areas, such as Suisun Bay, benthic indices have yet to be developed.

Milestones:

- Bruce Thompson and his collaborators completed a draft manuscript titled “Benthic Macrofaunal Assemblages of San Francisco Estuary and Delta.”
- Bruce Thompson and his collaborators completed a draft manuscript titled “Levels of Agreement Among Experts Using Best Professional Judgment to Assess Mesohaline and Limnetic Benthic Macrofaunal Condition in the San Francisco Estuary”, which was submitted to *Journal of Ecological Indicators*.
- Work on the mesohaline assessment method report is on hold pending the workgroup recommendation that a gold standard assessment of the taxonomy in freshwater and estuarine environments be conducted. The mesohaline assessment includes a comparison of good/bad indicators in BPJ samples to good/bad indicators in reference vs. non reference samples and tables based on presence/absence have been prepared.

Activities for the third quarter 2011:

- No activities are planned for the third quarter.

For more information, please contact the benthic workgroup lead, Aroon Melwani, at [aron@sfei.org](mailto:aron@sfei.org).

## **H. Status and Trends Sport Fish**

Sportfish results have been reviewed by SFEI. Preliminary results have been submitted to OEHHA to assist in the development of sportfish advisories. The SWAMP/RMP sportfish monitoring report has been released and is available on our website.

For more information, please contact Jennifer Hunt at [jhunt@sfei.org](mailto:jhunt@sfei.org).

DELIVERABLE	Lead	2011												2012												Original Due	Current Due Date	Comments	Within Budget?	Complete in 2011?	Months overdue							
		J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D													
<b>STATUS AND TRENDS</b>																																						
1 Pulse 2011	JD							D													D2		F							Sep-11		TRC reviewing articles. Graphics being prepared						
2 AMR 2010	MS																						D	F							Dec-11	Nov-11						
3 S&T Sediment Cruise	AF																						X								Aug-11							
4 S&T Water Cruise	MS																						X								Sep-11							
5 S&T Water - Dioxin	MS																						X								Aug-11							
6 RMP Website Update	RA																																Underway					
7 Update QAPP	DY/AF																														Dec-11		Underway					
8 Estuary Insert	RA																														Oct-11							
9 Factsheet - Triclosan	JD																						D	F							Mar-11		Triclosan factsheet completed					
10 Additional factsheets - TBD																															TBD							
11 Archive sample storage	SK																						X								Mar-11		Completed					
12 Annual Meeting	JD																														Oct-10		October 4th at Marriott					
13 Sport Fish 2009	JD																						D		F						Mar-11		Completed	Yes	Yes			
<b>CONTAMINANT FATE</b>																																						
14 Methylmercury Synthesis	JD																														Aug-11		Abstract submitted					
15 2010 Mercury Food Web Uptake (Small Fish)	BG																						D		F						Dec-10	Jun-11	Presentation to TRC and report	Yes	Yes			
16 2011 Mercury Food Web Uptake (Small Fish)	BG																														Aug-12		Presentation to CFWG					
17 PCB Conceptual Model Update	JD																														Mar-12							
18 Dioxin in Water and Sediment	DY																														Dec-11		Collection of samples; TRC/Dioxin presentation Fall					
19 Dioxin in Sediment Cores	DY																														Dec-11		Preliminary presentation to TRC/Dioxin Fall					
20 Margins Conceptual Model (Bay margins)	JD																						D	F							Dec-09	Apr-11	Draft completed	Yes	Yes			
21 South Bay Water and Sediment Model	BG																						D	F							Dec-10	Mar-11	Completed	Yes	Yes			
22 Bioaccumulation Conceptual Model	AM																						D	F							Aug-10	Apr-11	Draft completed					
<b>EMERGING CONTAMINANTS</b>																																						
23 Broadscan Screening of Biota for EC	SK																														Apr-12			Yes	No			
24 AXYS Mussel Study	SK																						D	F							Jul-10	Aug-11	Draft in prep - sent to coauthors					
25 Alternative Flame Retardants	SK																						D	F							Dec-08	Aug-11	Waiting for data from Duke	Yes**	Yes			
26 PFC Sources	MS																						D	F							Jun-10	Apr-11	1 submitted; 1 draft to workgroup	Yes	Yes			
27 EC Synthesis	SK																														Mar-12			Yes	No			
<b>EXPOSURE AND EFFECTS</b>																																						
28 Hotspot Sediment Quality Followup Study	MS																														Oct-12		Site selection in August					
29 Effects of Copper on Salmon	MS																														Feb-12		Negotiating contract					
30 Molecular TIEs	SB/MS																						D		F						Dec-10	Aug-11	Draft in August	Yes	8			
31 S&T Bird Egg (2006/2009)	JD																						D	F							Oct-10	Aug-11	Delay in deliverables	Yes	10			
32 PBDE Relative Sensitivity in Terns	BR/MS																														Nov-10	Aug-11	On track	Yes	9			
33 Benthic Index report	AM																						D		F						Dec-10	Jun-11	Delayed pending Gold Std workshop					
34 Effects of PAH on Flatfish	JJ/MS																														May-10	Aug-11	Delay due to Gulf oil spill	Yes	16			
35 EEPS Summary Report	MS																						D	F							Jun-09	Aug-11		Yes	26			
<b>SOURCES PATHWAYS (SPL)</b>																																						
36 POC Load Monitoring in Representative Watersheds	LM																						D	F							May-11		Completed					
37 STLS Coordination Meetings	LM																						X								Mar-11		Underway					
38 Regional Loadings Estimates	ML																														Oct-11		Presentation to CFWG					
39 Zone 4 Small Tributary Loading Study	LM																						D	F							Aug-10	Jun-11	Draft in review	Yes	10			
40 Land Use Classification Scheme	ML																						D	F							Jul-10	Jun-11		Yes	11			
41 Stormwater Regional Model	ML																						D	F							Nov-10	Jun-11		Yes	7			
42 Guadalupe River Model	ML																														Dec-10	Jun-11	Issues with sediment transport identified at SPLWG meeting. Conducting follow up.	Yes	7			
43 Develop Multi-year Watershed Loading Sampling Plan	LM																						D	F							NS	May-11	Working with BASMAA to develop plan	Yes				
44 Mallard Island	ND																						D	F							Oct-10	Jun-11	Draft completed	Yes	8			

2010 Carryover Projects

0-6 m  
7-12 m  
>12 m