



Friday, June 17, 2016, 9:00 a.m. – 12:30 p.m.
SFPUC, Hetch Hetchy Room, 13th Floor
525 Golden Gate Ave, San Francisco, CA

1 of 150

OTHER BUSINESS - OPERATIONAL		11:10 AM	
14	<u>Discussion:</u> A Navarret Award Use (Jencks/Ving)		
15	<u>Discussion:</u> Drought/Recycling		
	a. State Water Board hearing on WRR		94-97
	b. Hertzberg Bill Update	CASA: Link	98-100
	c. Prop 1 Proposal		101-103
16	<u>Discussion:</u> 2017 BACWA Executive Board Calendar		104
17	<u>Discussion:</u> FWQC Issues Matrix		105-116
18	<u>Discussion:</u> Request for PPIC Sponsorship	PPIC: Link	117-123
19	<u>Discussion:</u> BAPPG Comment Letter on Malathion		124-132
REPORTS		12:00 PM	
20	Committee Reports	GC/MS Analysis: Link	133-139
21	Member Highlights		
22	Executive Director Report		140-149
23	Regulatory Program Manager Report		150
24	Other BACWA Representative Reports		
	a. RMP TRC	Rod Miller	
	b. RMP Steering Committee	Karin North; Jim Ervin	
	c. Summit Partners	Dave Williams	
	d. ASC/SFEI	Laura Pagano; Dave Williams	
	e. Nutrient Governance Steering Committee	Ben Horenstein; Jim Ervin	
	f. SWRCB Nutrient SAG	Dave Williams	
	g. SWRCB Focus Group – Bacterial Objectives	Lorien Fono; Amy Chastain	
	h. SWRCB Focus Group – Mercury Amendments to the State Plan	Tim Potter	
	i. Nutrient Technical Workgroup	Eric Dunlavey	
	j. NACWA Taskforce on Dental Amalgam	Tim Potter	
	k. BAIRWMP	Cheryl Munoz; Linda Hu; Dave Williams	
	l. NACWA Emerging Contaminants	Karin North; Melody LaBella	
	m. CASA Statewide Pesticide Steering Committee	Melody LaBella	
	n. CASA State Legislative Committee	Lori Schectel	
	o. CASA Regulatory Workgroup	Lorien Fono	
	p. ReNUWit	Mike Connor; Ben Horenstein	
	q. RMP Microplastics Liaison	Nirmela Arsem	
	r. AWT Certification Committee	Maura Bonnarens	
	s. Bay Area Regional Reliability Project	Roger Bailey; Mike Connor	
SUGGESTIONS FOR FUTURE AGENDA ITEMS		12:27 p.m.	
NEXT MEETING		12:28 p.m.	
The next regular meeting of the Board is scheduled for July 15, 2016 from 9:00 am – 12:30 pm at the EBMUD Treatment Plant, Lab Library, 2020 Wake Ave., Oakland, CA.			
ADJOURNMENT		12:30 p.m.	



Executive Board Meeting Minutes

May 20, 2016

ROLL CALL AND INTRODUCTIONS

Executive Board Representatives: Laura Pagano (San Francisco Public Utilities Commission); Jim Ervin (San Jose); Michael Connor (East Bay Dischargers Authority); Ben Horenstein (East Bay Municipal Utility District); Roger Bailey (Central Contra Costa Sanitary District).

Other Attendees:

<u>Name</u>	<u>Agency/Company</u>
Alicia Chakrabarti	EBMUD
Amanda Roa	Delta Diablo
Denise Connors	LWA
Greg Baatrup	FSSD
Holly Kennedy	HDR
Kelly Moran	TDC Environmental
Lori Schectel	CCCSD
Melody LaBella	CCCSD
Nirmela Arsem	EBMUD
Sarah Deslauriers	Corollo
Tom Hall	EOA
Meg Herston	FSSD
Mary Lou Esparza	CCCSD
Karri Ving	SFPUC
Mallika Ramanathan	Brown & Caldwell
David Williams	BACWA
Lorien Fono	BACWA
Sherry Hull	BACWA

PUBLIC COMMENT

None.

CONSIDERATION TO TAKE AGENDA ITEMS OUT OF ORDER

Items **13, 16** and **26.s** were taken out of order.

CONSENT CALENDAR

1. April 15, 2016, BACWA Executive Board Meeting Minutes –The approved minutes will be placed on the BACWA website.

2. March, 2016 Treasurer's Reports and Financial Summary – The Executive Director noted that there are changes to the Financial Summary Report that were included in the Handout on **Pages 11-21**. A copy of the FY16 Budget as of March 31, 2016 (75% of the fiscal year) was included. It,

along with the Summary, provides the Board with a concise overview of the Fund Balances and the current status of the Annual Budget and points out any variances in the budget to date. The Board expressed its thanks for the Summary.

Consent Calendar items 1 and 2 were approved in a motion made by Roger Bailey and seconded by Michael Connor. The motion carried unanimously.

AUTHORIZATIONS & APPROVALS

3. Approval: BACWA Chair & Vice-Chair Nomination & Election – A Board Action Request was included in the Handout on **Page 22**. Section 7 of the Joint Powers Agreement establishing BACWA states that the agency shall designate a Chair and Vice Chair, chosen by the Executive Board, from the members of the Executive Board. These positions each have a one year term that coincides with BACWA’s fiscal year. Historically, most BACWA Chairs and Vice Chairs are asked to serve for two consecutive terms. In FY16, Laura Pagano served as Chair and Jim Ervin served as Vice-Chair. This one year term ends on June 30, 2016.

In a motion made by Ben Horenstein and seconded by Jim Ervin, Laura Pagano was nominated to continue as Chair for the term beginning July 1, 2016. The motion carried unanimously.

In a motion made by Roger Bailey and seconded by Michael Connor, Jim Ervin was nominated to continue as Vice-Chair for the term beginning July 1, 2016. The motion carried unanimously.

4. Approval: FY17 BACWA Succession Plan – A Board Action Request and the FY17 BACWA Succession Plan were included in the Handout on **Pages 23-26**. The Executive Director gave an overview of the proposed changes to the BACWA Leadership for FY17 and pointed out which Leaders represent the Principal Members. A correction was made to the Succession Plan.

Item 4, following the correction, was approved in a motion made by Michael Connor and seconded by Roger Bailey. The motion carried unanimously.

5. Approval: FY17 Agreements – Amendments – A Board Action Request and Amendments were included in the Handout on **Pages 27-29**. The Executive Director noted that the amendments extend the expiration date of both the Executive Director and the Assistant Executive Director Agreements to June 30, 2017 and amend the amounts as approved in the FY17 BACWA Budget approved April 15, 2016.

- a. DRW Engineering - Executive Director Amendment
- b. Sherry Hull - Assistant Executive Director Amendment

Item 5 was approved in a motion made by Roger Bailey and seconded by Jim Ervin. The motion carried unanimously.

6. Approval: FY17 Lorien Fono - Regulatory Program Manager Agreement – A Board Action Request and Agreement were included in the Handout on **Pages 30-33**. The Executive Director noted that BACWA submitted a Request for Proposals and Ms. Fono was chosen by the selection committee.

A motion to approve the item was made by Michael Connor and seconded by Jim Ervin. A motion to modify the motion to provide the Executive Director with discretion to increase the Not to Exceed amount by a maximum of 10% was made by Ben Horenstein. The modification was accepted.

***Item 6**, as modified, was approved in a motion made by Michael Connor and seconded by Jim Ervin. The motion carried unanimously.*

7. Approval: Amendment No. 2 to Optimization/Upgrade Studies – A Board Action Request and Amendment were included in the Handout on **Pages 34-35**. The Executive Director gave an overview of the request. Prior to a motion, a Board member requested that the Item be postponed until after Agenda Item 9.

*Following Item 9, **Item 7** was approved in a motion made by Michael Connor and seconded by Jim Ervin. The motion carried unanimously.*

8. Authorizations: Notice to the Board of Executive Director Authorizations – Executive Director Authorizations made since the last Board meeting were included in the Handout on **Pages 36-44**. The Executive Director noted that the amendments extend the expiration date of three Agreements to June 30, 2017 and amend the amounts as in the FY17 BACWA Budget approved April 15, 2016.

- a. FY 17 Downey Brand Amendment – Regulatory Legal Support
- b. FY17 Day Carter Murphy Amendment – Executive Board Legal Support
- c. FY17 Cayuga Information Systems – IT Support

OTHER BUSINESS-POLICY/STRATEGIC

Agenda **Item 9** – Discussion: Nutrients

- a. Regulatory
 - i. Opt/Upgrade Wave 1 Reports – The first wave of reports will be coming out at the end of June. A tentative schedule for delivery of the Draft Facility Reports was included in the Handout on **Page 45**. HDR gave a presentation on what the reports will contain, emphasizing that the information in the presentation is still in draft form. A Board member suggested adding the City of Benicia to the case studies. Also the Board requested that average flow, not permitted flow be used in calculating unit costs for the studies.

- ii. Opt/Upgrade Workshop – BACWA plans to hold a workshop in the summer of 2016 to assist members’ understanding of the reports. A Draft Agenda of the Workshop was included in the Handout on **Pages 46-47**. Following an overview, the Executive Director requested input from the Board on the Agenda. Board members suggested inviting only BACWA members to the first meeting and rescheduling inclusion of the Regional Water Board staff to a second workshop. The Executive Director will continue to work on scheduling the first workshop.
 - iii. Recycled Water/Capital Improvement Plan Survey – A copy of the BACWA Recycled Water Survey 2015, along with survey instructions and definitions, was included in the Handout on **Pages 48-50**.
- b. Technical Work
- i. Update on Document Review – An Agenda for the Assessment Framework Conference Call #1 was included in the Handout on **Page 51** along with a [Link](#) to a Low Cost Retrofit for Nitrogen Removal at Wastewater Treatment Plants in the Upper Long Island Sound Watershed. The Executive Director gave an overview of the consultant’s comments on strengths and weaknesses of the documents. The Board discussed several approaches to utilizing the information and asked the Executive Director to request a technically-focused analysis from the consultant that will be delivered to Regional Water Board staff.
 - ii. Lower South Bay Synthesis – A [Link](#) to the SFEI/ASC Lower South Bay Synthesis Report was included in the Handout.
- c. Governance Structure -
- i. Planning Subcommittee #19 Debrief – A Meeting Summary from the PS Meeting #19 on May 4, 2016, along with a Draft Agenda for the next NMS Steering Committee Meeting on June 10, 2016 and a Planning Budget for FY17, was included in the Handout on **Pages 52-61**. The Executive Director noted the highlights: The WB reported that they had discussed the concept of increased funding for the science with EPA who was open to further discussion on this approach; The Science Manager/Program Coordinator discussed the search for additional funding.
 - ii. Steering Committee Meeting No. 9 – The Agenda for the NMS Steering Committee Meeting on June 10, 2016 was included in the Handout on **Pages 62-63**.

Agenda **Item 10** – Discussion: Water Board Joint Meeting Debrief – Meeting Minutes from the May 3, 2016 Joint Meeting with the Water Board was included in the Handout on **Page 64-66**.

Agenda **Item 11** – Discussion: Biosolids Survey & Literature Review – A request from the BACWA Biosolids Committee was included in the Handout on **Page 67**. The Committee is requesting support and partial funding for a 2016 Biosolids Trend Survey. The survey results would be compiled under the direction of the Committee, with consultant support estimated at \$10,000. The Chair of the BACWA Biosolids Committee discussed the differences between the Southern California and Bay Area biosolids market and the benefits that would be derived from a survey of BACWA members. Additionally a member of the Committee requested a one-time

funding of \$20,000 for the development of Literature Review to look at alternatives for biosolids reuse when alternative daily cover at landfills are phased out. The benefit to the literature review would be to have all research in one place and provide a pool of academic resources.

*A motion was made by Michael Connor, and seconded by Lori Schectel, to approve the funding of \$10,000 for the Biosolids Survey. The **motion carried** with four yes votes and one no vote.*

Prior to considering the survey, it was suggested that it would be good to develop a measure that would provide feedback to the Board on the value of the survey to the membership. Perhaps monitoring the hits on the BACWA web site for accessing the data once posted. The Board expressed general support for the Literature Review request, but asked the Committee to return with more information on alternatives and the possibility of obtaining matching funds given that the information will be useful beyond just the Bay Area. Also the Board asked the Committee to strategize on how to address near term threats such as the CARB proposal to remove all organics, which includes biosolids, from landfills.

Agenda **Item 12** – Discussion: CV SALTS Bay Area Brine Disposal – A [Link](#) to the CV-SALTS Annual Report dated January 20, 2015 was included in the Handout. The Executive Director noted that it was brought to the Board’s attention by a member whose intent was to find out if anyone knows more about it as she was surprised to see brine lines to the Bay Area included in a slide presented by Scott Couch from DDW (SWRCB) at the WaterReuse CA Conference in March. It was noted that this issue is a very long term concern.

OTHER BUSINESS-OPERATIONAL

Agenda **Item 13** – Discussion: Semi-annual Update on CWCCG – Sarah Deslauriers gave a presentation to update the Board on CWCCG activities over the last six months. CWCCG expects to see a Scoping Plan update by sector in late 2016 or early 2017. It has been delayed waiting for the release of the Short Lived Climate Pollutants Plan. Organics are required to be eliminated from landfill by 2025, and existing POTW digester capacity is being looked at as a management alternative. CWCCG will be contacting agencies about a survey on liquid treatment trains to help educate CARB about which processes may be a major source of nitrous oxide. A copy of the presentation can be found on the BACWA website at <http://bacwa.org/document/cwccg-update-bacwa-5-20-16/>.

Agenda **Item 14** – Discussion: Drought/Recycling –

- a. Prop 1 Proposal – The Proposition 1 Recycled Water Research Proposal Concept was included in the Handout on **Page 68**. It discusses possible topics for a proposal to submit to the State Water Board for Proposition 1 funding for recycled water research. BACWA staff have also discussed project ideas with the San Francisco Estuary Institute and

Regional Water Board Staff. ReNUWIt has been working on CECs in the Oro Loma Ecotone Project and may take part in this proposal. The Concept involves the use of marshlands to treat reverse osmosis concentrate. Regional Water Quality Control Board staff are working to set up a meeting with State Water Board staff to discuss the proposal. BACWA and partners will deliver a 1-page description on proposal concept, to be refined after discussions with ReNUWIt. The City of San Jose asked to be included.

- b. State General Order - Mandatory enrollment of 96-011– A comment letter to the SWRCB from BACWA on the Proposed General Order on Recycled Water was included in the Handout on **Pages 69-71**.
- c. CCMP Draft Actions – A copy of CCMP Action 22 was included in the Handout on **Page 72**.

Agenda **Item 15** – Discussion: Bay Planning Coalition Summit – A [Link](#) to materials on the Bay Planning Coalition Summit from May 6, 2016 was included in the Handout.

Agenda **Item 16** – Discussion: Pesticides Update – A Pesticide Regulatory Update flyer was included in the Handout on **Pages 73-74**. Kelly Moran from TDC Environmental gave an update to the Board on her work on pesticides. She noted that State Law prohibits local regulation of pesticides, so that POTWs cannot address them in their pollution prevention efforts. BACWA's work advocating to Department of Pesticide Regulation (DPR) is paying off. DPR hired two wastewater experts to join their staff. As a result the DPR is, for the first time, rejecting new pesticides using water quality concerns as a basis. There is promise in discussions with the EPA, which has not previously considered POTWs as a route for pesticides to surface waters. They are still using the discharge model but are working on moving to the conceptual model. The EPA has better authority than DPR over consumer products and reviews pesticides only every 15 years. The vision is to move pesticide pollution control upstream from the Clean Water Act (CWA) to the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA). But data is essential to continue this approach, which is why POTW engagement is critical. The Pesticide presentation can be seen on the BACWA website at <http://bacwa.org/document/pesticide-update-bacwa-5-20-16/>.

Agenda **Item 17** – Discussion: Microplastics – The Board received an update on the progress in studying microplastics. Identification of samples continues with some identified as oil and grease, others as toilet paper fibers. Suspected plastics are still being examined and have been sent out for analysis. They are working with the SFEI Microplastic Workgroup Expert Panel and have suggested several improvements: emphasize the importance of definitions; wastewater treatment plants are not necessarily the sole source of microplastics; source control is more important than end-of-pipe treatment; any study data should be open and defensible since there may be disagreements over how to identify and characterize microplastics. The workgroup has suggested a format for data reporting. Members of the Board indicated their appreciation for the efforts.

Agenda **Item 18** – Discussion: Report on Biocycle Panel about Co-digestion. The Chair of the BACWA Biosolids Committee gave a presentation on her trip to the Biocycle West Coast Conference where she gave a presentation on co-digestion. (I have asked Alicia to give me a paragraph that she would like included in the minutes for this).

Agenda **Item 19** – Discussion: Update on Projects of Special Benefit.

- a. Water Operator Training Program – An Update on the Bay Area Consortium for Clean Water Education (BACCWE), a BACWA Project of Special Benefit, was included in the Handout on **Page 75**. The Executive Director gave an overview of the changes forthcoming.
- b. Bay Area Biosolids to Energy – A [Link](#) to a Bay Area Biosolids to Energy presentation was included in the Handout. The Executive Director gave an overview and a Board member noted the potential for the group to become a BACWA Special Benefits group.

Agenda **Item 20** – Discussion: AIR Committee Support RFP – An RFP for AIR Committee Support beginning in FY17 was included in the Handout on **Pages 76-82**. The Regulatory Program Manager, who supports the AIR Committee, discussed the RFP. The RPM will facilitate the collection of submission and suggested that the selection committee be the AIR Committee Co-Chairs along with a BACWA Board member. Michael S. Connor agreed to be on the selection committee.

Agenda **Item 21** – Discussion: BAAQMD Joint Meeting Agenda – A Draft Agenda for the June 15, 2016 meeting the BAAQMD was included in the Handout on **Page 83**. The Regulatory Program Manager reviewed the Agenda. A Board member asked for an explanation of item #3. The RPM will investigate.

REPORTS

Agenda **Item 22** – Committee Report – BACWA Committee Reports were included in the Handout on **Pages 84-100**.

AIR Committee: No meeting.

BAPPG: No meeting.

Biosolids Committee: A report from the April 21, 2016 meeting was included in the Handout on **Page 84**.

Collections Committee: A report from the May 12, 2016 meeting, along with the results of the Private Sewer Lateral Survey, were included in the Handout on **Pages 85-94**. Additionally, the CCMP Action 26 was included on **Page 95**. The Regulatory Program Manager reported that the Committee does not plan to develop metrics for a well-performing collection systems since the project requires significant effort. The committee does not object if the Executive Board wishes to pursue this strategy with other resources. The issue will be added to a BACWA Executive Board meeting Agenda.

InfoShare - Asset Management: No meeting.

InfoShare – Operations & Maintenance: No meeting.

Lab Committee: Lab committee met two days before the Executive Board meeting and was not able to get a report into the handout packet in time.

Permits Committee: A report from the May 10, 2016 meeting was included in the Handout on **Pages 96-97**. The Regulatory Program Manager noted that the EPA has been in the process developing Selenium Criteria for the SF Bay Estuary for several years. This effort was the subject of litigation, which slowed down the process and led to the Regional Water Board development of the North Bay Selenium TMDL. The EPA plans to release its proposed criteria by the end of June 2016, which will be followed by a 60-day comment period. The fish tissue objective will likely be the same as their freshwater criteria, but it is unknown how they will translate it to a water column objective. This objective will be used in the development of a South Bay Selenium TMDL.

Pretreatment Committee: A report from the April 14, 2016 meeting was included in the Handout on **Pages 98-99**.

Recycled Water Committee: A report from the May 4, 2016 meeting was included in the Handout on **Page 100**.

Agenda **Item 23** - Discussion: Member Highlights - Executive Board Representatives (Board) were given an opportunity to provide updates from each of the Principal agencies. Non-principal members were also given an opportunity to report out on behalf of their agencies. No actions were taken on the report-outs.

EBDA: WERF merged with WaterReuse Research Foundation. EBDA is on the Board along with three others from the Bay Area. There may be an opportunity for funding from WERF.

EBMUD: No comment.

Central Contra Costa: No comment.

San Francisco: No comment.

San Jose: No comment.

Agenda **Item 24** - The **Executive Director's Report**, along with the Board Calendar, and BACWA Action Items, were included in the Handout on **Pages 101-110**. It was noted that 63 of the 75 action items from FY16 have been completed.

Agenda **Item 25** - The **Regulatory Program Manager (RPM) Report** was included in the Handout on **Pages 111-112**.

Agenda **Item 26 - Other BACWA Representative Reports** – BACWA Representative were given an opportunity to provide updates. No actions were taken based on the reports.

- a. RMP-TRC: Rod Miller; Laura Pagano – No report.
- b. RMP Steering Committee: Karin North; Jim Ervin – No report.
- c. Summit Partners: Dave Williams –

- d. ASC/SFEI: Laura Pagano; Dave Williams –
- e. Nutrient Governance Steering Committee: Ben Horenstein; Jim Ervin – No report.
- f. SWRCB Nutrient SAG: Dave Williams – No report.
- g. SWRCB Focus Group – Bacterial Objectives: Lorien Fono; Amy Chastain – No report.
- h. SWRCB Focus Group – Mercury Amendments to the State Plan: Tim Potter – No report.
- i. Nutrient Technical Workgroup: Eric Dunlavey – No report.
- j. NACWA Taskforce on Dental Amalgam: Tim Potter – No report.
- k. BAIRWMP: Cheryl Munoz, Linda Hu, Dave Williams – No report.
- l. NACWA Emerging Contaminants: Karin North, Melody La Bella – No report.
- m. CASA Statewide Pesticide Steering Committee: Melody La Bella – No report.
- n. CASA State Legislative Committee: Lori Schectel – No report.
- o. CASA Regulatory Workgroup – No report.
- p. RMP Microplastics Liaison: Nirmela Arsem – No report.
- q. ReNUWIt: Michael Connor; Ben Horenstein – No report.
- r. AWT Certification Committee: Maura Bonnarens – No report.
- s. **Bay Area Regional Reliability Project:** Roger Bailey; Michael Connor – Meeting highlights from the Drought Task Force Kickoff on April 15, 2016 were included in the Handout on **Pages 113-122.**

Agenda **Item 27: SUGGESTIONS FOR FUTURE AGENDA ITEMS:** None.

ANNOUNCEMENTS:

The next regular meeting of the Board is scheduled for **June 17, 2016 from 9:00 am – 12:30 pm** at the **SFPUC, Hetch Hetchy Room, 13th Floor, 525 Golden Gate Ave., San Francisco, CA.**

Tom Hall commented that EPA has issued a proposal to update NPDES regulations. This would include some changes to whole effluent toxicity. This issue will be discussed in Permits committee and at the next joint meeting with the Regional Water Board.

To receive a copy of any materials provided to the Board at a BACWA Executive Board meeting contact Sherry Hull at shull@bacwa.org.

The meeting adjourned at 12:57 pm.



MONTHLY TREASURER'S REPORT – APRIL 2016

Fund Balances

BACWA has seven funds of which three are operating funds (BACWA, Legal, and CBC) and four are pass-through funds for which BACWA provides only contract administration services. The four pass-through funds are not of particular concern as these funds simply track expenses and revenues to ensure that receipts are adequate to pay all expected expenses.

BACWA Fund: This fund provides the resources for BACWA staff, its committees, and other administrative needs. The ending fund balance was \$1,198,197 which is significantly higher than the target reserve of \$160,000 which is intended to cover 3 months of normal operating expenses. However, \$144,007 of the ending fund balance is already obligated to meet on-going operating line item expenses for BAPPG Committee Support, Legal services, IT services, Board meeting expenses, accounting services and BACWA staff support. This leaves an unobligated fund balance of \$1,054,190.

CBC Fund: This fund provides the resources for completing special investigations as well as meeting regulatory requirements. The ending fund balance was \$1,345,002 which is significantly higher than the target reserve of \$400,000. However, \$600,630 of the ending balance is obligated to meet line item expenses for completion of the Optimization/Upgrade Studies contract, the Risk Reduction contracts, and for technical support.

Legal Fund: This fund provides for needed legal services. The ending balance was \$300,000 which is at the target reserve of \$300,000.

Annual Budget

The BACWA Annual Budget includes all expected revenues as well as budgeted expenses. Transfers are made from the BACWA Fund and/or the CBC Fund to balance the Annual Budget if expenses exceed revenues and vice versa. It is therefore important to achieve the anticipated revenues and not exceed the budgeted expenses on an annual basis in order to maintain the BACWA and CBC Fund balances at the levels projected in the 5 Year Plan.

Revenues as of April, 2016 (83% of the FY) are at 100%. This is not unexpected as agencies generally pay shortly after receiving their annual invoices early in the fiscal year.

Overall Expenses as of April, 2016 are at 69% and are tracking in accordance with the Annual Budget. Individual expense categories with a plus or minus 10% variance at this point in the fiscal year are as follows:

Administration: This category is only 65.24% expended at 83% of the FY due to invoices not being current.



MONTHLY TREASURER'S REPORT – APRIL 2016

Meetings: This category is under-expended (i.e. 62.86%) due largely to expenditures associated with the Annual Meeting not yet being recorded.

Legal Support: Budget of \$4,500 and expenditures to date of \$1,462 resulting in a favorable variance of \$3,038 due to a low need for legal administrative advice.

Committees: Budget of \$189,100 and expenditures to date of \$113,747 resulting in a favorable variance of \$75,353 due to no need to tap the Committee Contingency line item plus lower individual Committee expenditures.

Collaboratives: This category is 99.77% expended at 83% of the FY due to early payment of dues to FWQC, ReNUWIt, CWCCG, and payment of Arleen Navarret Award.

Tech Support: This category is 68.87% expended at 83% of the FY primarily due to timing of invoices.

BACWA Revenues and Expenses (as of April 30, 2016, 83% of FY)

	A	B	C	D	E	F	G	H
	<u>BACWA FY16 BUDGET</u>	<u>Line Item Description</u>	<u>FY2016 Budget Amended</u>	<u>FY2016 Actuals Apr 2016</u>	<u>Actual % of Budget April 2016</u>	<u>Variance</u>		<u>NOTES</u>
1								
2	<u>REVENUES & FUNDING</u>							
3	Principals' Contributions		\$468,180	\$468,180	100.00%	\$0		
4	Associate & Affiliate Contributions		\$171,639	\$173,199	100.91%	\$1,560		FY16: 2 New Members & 1 Member Cancelled
5	Fees	Clean Bay Collaborative	\$675,000	\$674,250	99.89%	-\$750		FY16: N. San Mateo has not paid CBC Fee of \$750.
6		Nutrient Surcharge	\$600,000	\$600,608	100.10%	\$608		Actual invoiced: \$600,608
7		Other (SFEI Carryforward)	\$86,779			\$0		SFEI Carryforward from FY15
8	Other Receipts							
9		AIR Committee Phase-in	\$50,000	\$48,080	96.16%	-\$1,920		FY16: \$48,080 invoiced.
10		AIR Non-Member	\$6,200	\$6,200	100.00%	\$0		
11		BAPPG Non-Members	\$3,600	\$3,600	100.00%	\$0		
12		Other	\$0	\$15,810				Reimb. Received from EBMUD for Sidestream Study
13	Fund Transfer	Special Program Admin Fees	\$2,500	\$2,438	97.52%	-\$62		WOT only
14	Interest Income	Funds	\$1,500	\$11,777	785.13%	\$10,277		FY16: Actuals includes BACWA, Legal, AIR & Nutrients Funds
15		Total Revenue	\$1,978,619	\$1,988,332	100.49%	\$9,713		
16								
17	<u>EXPENSES</u>							
18		<u>Line Item Description</u>	<u>FY2016 Budget Amended</u>	<u>FY2016 Actuals Apr 2016</u>	<u>Actual % of Budget April 2016</u>	<u>Variance</u>		<u>NOTES</u>
19	Labor							
20		Executive Director	\$183,498	\$152,915	83.33%	\$30,583		
21		Assistant Executive Director	\$78,642	\$64,187	81.62%	\$14,455		
22		Regulatory Program Manager	\$123,360	\$77,963	63.20%	\$45,397		Invoices running late
23		Total	\$385,500	\$295,065	76.54%	\$90,435		
24								
25	Administration							
26		EBMUD Financial Services	\$40,000	\$26,965	67.41%	\$13,035		Accounting & Audit Services
27		Administrative Expenses	\$7,500	\$2,809	37.45%	\$4,691		Travel, Supplies, Parking, Mileage, Tolls, Misc.
28		Insurance	\$4,500	\$4,152	92.27%	\$348		
29		Total	\$52,000	\$33,926	65.24%	\$18,074		
30								
31	Meetings							
32		EB Meetings	\$2,500	\$1,219	48.75%			8 of 10 meetings paid
33		Annual Meeting	\$8,000	\$2,512	31.40%			Catering & Venue (Some Ann Mtg Invoices not rec'd yet)
34		Pardee	\$5,000	\$5,753	115.06%			Catering & Venue
35		Misc. (Summit Partners)	\$1,100	\$1,816	165.11%			Holiday Lunch and Committee Chair Lunch
36		Total	\$16,600	\$10,434	62.86%	\$6,166		

BACWA Revenues and Expenses (as of April 30, 2016, 83% of FY)

	A	B	C	D	E	F	G	H
		<u>Line Item Description</u>	<u>FY2016 Budget Amended</u>	<u>FY2016 Actuals Apr 2016</u>	<u>Actual % of Budget April 2016</u>	<u>Variance</u>		<u>NOTES</u>
18								
37								
38	Communication	Website Development/Maintenance						
39		Website Hosting (Computer Courage)	\$600					
40		File Storage (Box.net)	\$720					
41		Website Development/Maintenance	\$1,200					Domains, website changes, Logo EPS file
42		Subtotal	\$2,520					
43		IT Support & Software						
44		IT Support (As Needed)	\$2,000					
45		Email (Office 365/MS Exchange)	\$480					
46		Other Communication (Survey Monkey)	\$288					
47		Subtotal	\$2,768					
48		Total	\$5,288	\$3,914	74.02%	\$1,374		
49								
50	Legal							
51		Regulatory Support	\$2,500	\$70	2.80%	\$2,430		
52		Executive Board Support	\$2,000	\$1,392	69.60%	\$608		
53		Total	\$4,500	\$1,462	32.49%	\$3,038		
54								
55	Committees							
56		AIR	\$50,000	\$37,955	75.91%	\$12,045		
57		BAPPG	\$86,000	\$69,842	81.21%	\$16,158		Includes CPSC @ \$10,000
58		Biosolids Committee	\$3,100	\$1,183	38.16%	\$1,917		
59		Collections System	\$10,000	\$750	7.50%	\$9,250		FY16 Actuals Includes \$500 in Venue Costs from FY15
60		InfoShare Groups	\$1,000	\$737	73.70%	\$263		funds for 2 workgroups (Asset Mgmt & O&M)
61		Laboratory Committee	\$6,000	\$2,291	38.19%	\$3,709		
62		Permit Committee	\$1,000	\$0	0.00%	\$1,000		
63		Pretreatment	\$1,000	\$989	98.90%	\$11		
64		Recycled Water Committee	\$1,000	\$0	0.00%	\$1,000		
65		Misc Committee Support	\$30,000	\$0	0.00%	\$30,000		
66		Total	\$189,100	\$113,747	60.15%	\$75,353		

BACWA Revenues and Expenses (as of April 30, 2016, 83% of FY)

	A	B	C	D	E	F	G	H
		<u>Line Item Description</u>	<u>FY2016 Budget Amended</u>	<u>FY2016 Actuals Apr 2016</u>	<u>Actual % of Budget April 2016</u>	<u>Variance</u>		<u>NOTES</u>
18								
68	Collaboratives							
69		Collaboratives						
70		State of the Estuary (biennial)	\$0	\$0	0.00%	\$0		Biennial in Odd Years
71		Arleen Navarret Award	\$1,000	\$882	88.20%	\$118		Biennial in Even Years
72		FWQC (Fred Andes)	\$5,000	\$5,000	100.00%	\$0		
73		Stanford ERC (ReNUWIt)	\$10,000	\$10,000	100.00%	\$0		
74		CWCCG	\$35,000	\$35,000	100.00%	\$0		
75		Total	\$51,000	\$50,882	99.77%	\$118		
77	Tech Support	Technical Support						
78		Nutrients						
79		Watershed	\$880,000	\$870,000	98.86%	\$10,000		\$9,711 of FY16 requirement pd in FY15
80		Additional work under permit	\$100,000	\$16,100	16.10%	\$83,900		analytical expense associated with EBMUD Sidestream EPA Grant
81		Opt/Upgrade/Annual Reporting Studies	\$559,000	\$164,416	29.41%	\$394,584		
82		Nutrient Program Coordination	\$50,000	\$100,000	200.00%	-\$50,000		\$100,000 paid to SFEI for Program Coord Pilot
83		General Tech Support	\$136,779	\$64,432	47.11%	\$72,347		
84		Chemicals of Concern	\$15,000	\$0	0.00%	\$15,000		Pesticide Mgmt support
85		Risk Reduction	\$17,500	\$11,992	68.53%	\$5,508		Contracts executed for \$50k in FY16 to be paid over two years
86		Total	\$1,758,279	\$1,210,840	68.87%	\$531,339		
88								
89		TOTAL EXPENSES	\$2,462,267	\$1,720,271	69.87%	\$725,896		
90		NET INCOME BEFORE TRANSFERS	-\$483,648					5 Year Plan Est for FY 17 = \$298,736
91		TRANSFERS FROM RESERVES	\$398,669					
92		NET INCOME AFTER TRANSFERS	-\$84,979					



Bay Area Clean Water Agencies

A Joint Powers Public Agency

Leading the Way to Protect our Bay

June 15, 2016

MEMO TO: Bay Area Clean Water Agencies Executive Board

MEMO FROM: D. Scott Klein, Controller, East Bay Municipal Utility District

SUBJECT: Tenth Month Treasurer's Report

As required by section eight of the Joint Powers Agreement establishing the Bay Area Clean Water Agencies (BACWA) and California Government Code Sections 6500 et seq., attached is the BACWA Treasurer's Report for the period covering **July 1, 2015 through April 30, 2016** (ten months of Fiscal Year 2015-2016). This report covers expenditures, cash receipts, and cash transfers for the following BACWA funds:

- Bay Area Clean Water Agencies (BACWA),
- BACWA Legal Reserve Fund (Legal Rsrv),
- Water Quality Attainment Strategy (WQA CBC),
- Air Issues and Regulation Group (AIR),
- Water/Wastewater Operator Training (WOT),
- Prop84 Bay Area Integrated Regional Water Mgmt (PRP84),
- Prop50 Bay Area Integrated Regional Water Mgmt (PRP50)

Fund Balances as of April 30, 2016

DESCRIPTION	BEGINNING FUND BALANCE 07/1/15	TOTAL RECEIPTS	TOTAL DISBURSEMENTS	ENDING FUND BALANCE 04/30/16	OUTSTANDING ENCUMBRANCES	UNOBLIGATED FUND BALANCE 04/30/16
BACWA	1,006,959	652,608	461,370	1,198,197	144,007	1,054,190
LEGAL RSRV	300,000	-	-	300,000	-	300,000
CBC	1,243,029	1,281,340	1,179,368	1,345,002	600,630	744,372
AIR	10,171	54,384	37,955	26,601	14,046	12,555
GRAND TOTAL	2,560,159	1,988,333	1,678,692	2,869,799	758,683	2,111,117
WOT	45,463	124,745	130,500	39,708	-	39,708
TOTAL	45,463	124,745	130,500	39,708	-	39,708
PRP84	275,232	2,782,873	2,936,978	121,127	5,296	115,831
PRP50	561,537	99,148	510,022	150,663	7,360	143,303
TOTAL	836,769	2,882,022	3,447,001	271,790	12,657	259,134

BACWA Revenue Report for April 2016

DEPARTMENT	JOB	REVENUE TYPE	AMENDED BUDGET	CURRENT PERIOD			YEAR TO DATE				UNOBLIGATED
				DIRECT	INVOICED	JVS	DIRECT	INVOICED	JVS	ACTUAL	
BACWA	1011099	Principal's Contributions	468,180	-	-	-	-	468,180	-	468,180	-
BACWA	1011133	Assoc. & Affiliate Contr	171,639	-	-	-	-	173,199	-	173,199	(1,560)
BACWA	0408511	Administrative & General	-	902	-	(902)	2,695	-	(2,695)	-	-
BACWA	1014251	Non-Member Contributions (BAPPG)	3,600	-	-	-	-	3,600	-	3,600	-
BACWA	1011109	Fund Transfers	2,500	-	-	-	-	-	2,438	2,438	62
BACWA	1011117	Interest Income	1,500	-	-	2,537	-	-	5,190	5,190	(3,690)
BACWA TOTAL			647,419	902	-	1,634	2,695	644,979	4,934	652,608	(5,189)
LEGAL	1011117	Interest Income	-	-	-	(717)	-	-	-	-	-
LEGAL TOTAL			-	-	-	(717)	-	-	-	-	-
AIR	1014250	Member Contributions	50,000	-	-	-	-	48,080	-	48,080	1,920
AIR	1014252	Non-Member Contributions (AIR)	6,200	-	-	-	-	6,200	-	6,200	-
AIR	1011117	Interest Income	-	-	-	33	-	-	104	104	(104)
AIR TOTAL			56,200	-	-	33	-	54,280	104	54,384	1,816
WQA-CBC	1011099	Member Contributions	675,000	-	-	-	-	674,250	-	674,250	750
WQA-CBC	1011108	Nutrient Surcharge	686,779	-	-	-	-	600,608	-	600,608	86,171
WQA-CBC	1011117	Interest Income	-	-	-	1,844	-	-	6,482	6,482	(6,482)
WQA CBC TOTAL			1,361,779	-	-	1,844	-	1,274,858	6,482	1,281,340	80,439
GRAND TOTAL			2,065,398	902	-	2,794	2,695	1,974,117	11,520	1,988,333	77,066
WOT	1011099	BDO Member Contributions	146,000	-	-	-	-	124,500	-	124,500	21,500
WOT	1011117	BDO Interest Income	-	-	-	72	-	-	245	245	(245)
WOT TOTAL			146,000	-	-	72	-	124,500	245	124,745	21,255

BACWA Expense Detail Report for April 2016

		AMENDED	CURRENT PERIOD				YEAR TO DATE					
EXPENSE TYPE	JOB	BUDGET	ENC	PV	DA	JV	ENC	PV	DA	JV	OBLIGATED	UNOBLIGATED
LABOR												
AS-Executive Director	1011123	183,498	(30,583)	30,583	-	-	30,583	152,915	-	-	183,498	-
AS-Assistant Executive Directo	1011124	78,642	(6,554)	6,554	-	-	14,455	64,187	-	-	78,642	-
AS-Regulatory Program Manager	1011149	123,360	(10,746)	10,746	-	-	45,397	77,963	-	-	123,360	-
ADMINISTRATION												
AS-EBMUD Administrative Servic	1011125	40,000	-	-	-	-	16,611	23,389	3,576	(10,107)	33,469	6,531
AS-BACWA Admin Expense	1011118	7,500	-	-	38	-	-	-	2,809	-	2,809	4,691
AS-Insurance	1011126	4,500	-	-	-	-	-	-	4,152	-	4,152	348
MEETINGS												
GBS- Meeting Support	1011122	16,600	-	-	156	-	389	611	9,824	-	10,824	5,776
COMMUNICATION												
CAR-BACWA Website Development/	1011116	7,088	-	-	74	-	3,452	1,548	2,367	-	7,366	(278)
LEGAL												
LS-Regulatory Support	1011107	2,500	-	-	-	-	2,430	70	-	-	2,500	-
LS-Executive Board Support	1011110	2,000	-	-	-	-	608	1,392	-	-	2,000	-
COMMITTEES												
AIR-Air Issues&Regulation Grp	1014253	50,000	-	-	-	-	14,046	37,955	-	-	52,000	(2,000)
BC-BAPPG	1011147	86,000	(6,392)	6,392	-	-	30,083	39,342	30,500	-	99,925	(13,925)
BC-Biosolids Committee	1011101	3,100	-	-	736	-	-	-	1,183	-	1,183	1,917
BC-Collections System	1011097	10,000	-	-	-	-	-	-	750	-	750	9,250
BC-InfoShare Groups	1011102	1,000	-	-	-	-	-	-	737	-	737	263
BC-Laboratory Committee	1011103	6,000	-	-	-	-	-	-	2,291	-	2,291	3,709
BC-Permit Committee	1011098	1,000	-	-	-	-	-	-	-	-	-	1,000
BC-Pretreatment Committee	1011146	1,000	-	-	85	-	-	-	989	-	989	11
BC-Water Recycling Committee	1011100	1,000	-	-	-	-	-	-	-	-	-	1,000
BC-Miscellaneous Committee Sup	1011104	30,000	-	-	-	-	-	-	-	-	-	30,000
COLLABORATIVES												
CAS-Arleen Navaret Award	1012201	1,000	-	-	882	-	-	-	882	-	882	118
CAS-FWQC	1012202	5,000	-	-	-	-	-	-	5,000	-	5,000	-
CAS-Stanford ERC	1011969	10,000	-	-	-	-	-	-	10,000	-	10,000	-
CAS-CWCCG	1011148	35,000	-	-	-	-	-	-	35,000	-	35,000	-
BACWA TOTAL		705,788	(54,274)	54,274	1,973	-	158,053	399,371	110,060	(10,107)	657,377	48,411
TECH SUPPORT												
WQA-CE Addl Work Under Permit	1014254	100,000	100,000	-	290	-	100,000	-	16,100	(15,810)	100,290	(290)
WQA-CE-Technical Support	1011127	136,779	-	-	-	-	28,409	62,932	1,500	(31,762)	61,079	75,700
WQA-CE CASA Chem of Concern	1011128	15,000	-	-	-	-	-	-	-	-	-	15,000
WQA-CE Opt-Upgrade Studies	1014255	559,000	-	-	-	-	434,213	164,416	-	-	598,629	(39,629)
WQA-CE Risk Reduction	1014023	17,500	-	-	-	-	38,008	11,992	-	-	50,000	(32,500)
WQA-CE-Nutrient WS Permit Comm	1014021	880,000	-	-	-	-	-	-	870,000	-	870,000	10,000
WQA-CE-Program Mgmt	1011131	50,000	-	-	-	-	-	-	100,000	-	100,000	(50,000)
TECH SUPPORT (CBC) TOTAL		1,758,279	100,000	-	290	-	600,630	239,340	987,600	(47,572)	1,779,998	(21,719)
GRAND TOTAL		2,464,067	45,726	54,274	2,263	-	758,683	638,711	1,097,660	(57,679)	2,437,375	26,692
WOT												
Administrative Support	1011142	2,500	-	-	-	-	-	-	-	-	-	2,500
BDO Contract Expenses	1011143	-	-	-	-	-	-	-	130,500	-	130,500	(130,500)
		2,500	-	-	-	-	-	-	130,500	-	130,500	(128,000)

Proposition Revenue Report for April 2016

DEPTID	DEPARTMENT	JOB	REVENUE TYPE	AMENDED BUDGET	CURRENT PERIOD			YEAR TO DATE				UNOBLIGATED
					DIRECT	INVOICED	JVS	DIRECT	INVOICED	JVS	ACTUAL	
811	Prop84BayAreaIntegRegnlWtrMgmt	1011117	BDO Interest Income	-	-	-	474	-	-	1,119	1,119	(1,119)
811	Prop84BayAreaIntegRegnlWtrMgmt	1011142	Administrative Support	-	-	-	-	-	48,819	-	48,819	(48,819)
811	Prop84BayAreaIntegRegnlWtrMgmt	1011705	Regional Green Infrastructure	-	-	-	-	-	218,765	-	218,765	(218,765)
811	Prop84BayAreaIntegRegnlWtrMgmt	1012209	Water Efficient LRP	-	-	-	-	-	277,651	-	277,651	(277,651)
811	Prop84BayAreaIntegRegnlWtrMgmt	1012210	Bay Friendly Landscape TP	-	-	-	-	-	33,344	-	33,344	(33,344)
811	Prop84BayAreaIntegRegnlWtrMgmt	1012211	Weather Based Irrigation Cntrl	-	-	-	-	-	38,651	-	38,651	(38,651)
811	Prop84BayAreaIntegRegnlWtrMgmt	1012212	High Efficiency Toilet & UR	-	-	-	-	-	605,681	-	605,681	(605,681)
811	Prop84BayAreaIntegRegnlWtrMgmt	1012213	High Efficiency Toilet & UI	-	-	-	-	-	413,764	-	413,764	(413,764)
	Prop84BayAreaIntegRegnlWtrMgmt	1012214	High Efficiency Clothes Washrs	-	-	-	-	-	620,062	-	620,062	(620,062)
811	Prop84BayAreaIntegRegnlWtrMgmt	1012215	Napa Co. Rainwater HP	-	-	-	-	-	42,101	-	42,101	(42,101)
811	Prop84BayAreaIntegRegnlWtrMgmt	1012216	Conservation Program Admin	-	-	-	-	-	70,086	-	70,086	(70,086)
811	Prop84BayAreaIntegRegnlWtrMgmt	1012219	Flood Infrastructure Mapping T	-	-	-	-	-	231,019	-	231,019	(231,019)
811	Prop84BayAreaIntegRegnlWtrMgmt	1012220	Stormwater Improvements & PBP	-	-	-	-	-	26,815	-	26,815	(26,815)
811	Prop84BayAreaIntegRegnlWtrMgmt	1012221	Richmond Shoreline & San PFP	-	-	-	-	-	15,485	-	15,485	(15,485)
811	Prop84BayAreaIntegRegnlWtrMgmt	1012222	Pescadero Integrated FRAH	-	-	-	-	-	3,094	-	3,094	(3,094)
811	Prop84BayAreaIntegRegnlWtrMgmt	1012223	Restoration Guidance, San FC	-	-	-	-	-	70,389	-	70,389	(70,389)
811	Prop84BayAreaIntegRegnlWtrMgmt	1012224	SF Estuary Steelhead MP	-	-	-	-	-	52,756	-	52,756	(52,756)
811	Prop84BayAreaIntegRegnlWtrMgmt	1012225	Watershed Program Admnstrtn	-	-	-	-	-	13,273	-	13,273	(13,273)
	PROP 84 TOTAL			-	-	-	474	-	2,781,754	1,119	2,782,873	(2,782,873)
815	Prop50BayAreaIntegRegnlWtrMgmt	1011117	BDO Interest Income	-	-	-	132	-	-	609	609	(609)
815	Prop50BayAreaIntegRegnlWtrMgmt	1011142	Administrative Support	-	-	-	-	-	32,287	-	32,287	(32,287)
815	Prop50BayAreaIntegRegnlWtrMgmt	1011543	EBMUD New Biz Guidebook	-	-	-	-	-	66,253	-	66,253	(66,253)
	PROP50 TOTAL			-	-	-	132	-	98,539	609	99,148	(99,148)
	GRAND TOTAL			-	-	-	606	-	2,880,293	1,728	2,882,022	(2,882,022)

BACWA Expense Detail Report for April 2016

DEPTID	DEPARTMENT	EXPENSE TYPE	AMENDED BUDGET	CURRENT PERIOD				YEAR TO DATE				OBLIGATED	UNOBLIGATED
				ENC	PV	DA	JV	ENC	PV	DA	JV		
811	Prop84BayAreaIntegRegnIWtrMgmt	BDO Fund Transfers	-	-	-	-	-	-	-	-	2,057	2,057	(2,057)
811	Prop84BayAreaIntegRegnIWtrMgmt	Administrative Support	-	-	-	-	-	-	-	191,317	-	191,317	(191,317)
811	Prop84BayAreaIntegRegnIWtrMgmt	BDO Contract Expenses	-	(3,296)	3,296	-	-	5,296	10,669	-	-	15,965	(15,965)
811	Prop84BayAreaIntegRegnIWtrMgmt	Regional Green Infrastructure	-	-	-	-	-	-	-	218,765	-	218,765	(218,765)
811	Prop84BayAreaIntegRegnIWtrMgmt	Water Efficient LRP	-	-	-	-	-	-	-	277,651	-	277,651	(277,651)
811	Prop84BayAreaIntegRegnIWtrMgmt	Bay Friendly Landscape TP	-	-	-	-	-	-	-	33,344	-	33,344	(33,344)
811	Prop84BayAreaIntegRegnIWtrMgmt	Weather Based Irrigation Cntrl	-	-	-	-	-	-	-	38,651	-	38,651	(38,651)
811	Prop84BayAreaIntegRegnIWtrMgmt	High Efficiency Toilet & UR	-	-	-	-	-	-	-	605,681	-	605,681	(605,681)
811	Prop84BayAreaIntegRegnIWtrMgmt	High Efficiency Toilet & UI	-	-	-	-	-	-	-	413,764	-	413,764	(413,764)
811	Prop84BayAreaIntegRegnIWtrMgmt	High Efficiency Clothes Washrs	-	-	-	-	-	-	-	620,062	-	620,062	(620,062)
811	Prop84BayAreaIntegRegnIWtrMgmt	Napa Co. Rainwater HP	-	-	-	-	-	-	-	42,101	-	42,101	(42,101)
811	Prop84BayAreaIntegRegnIWtrMgmt	Conservation Program Admin	-	-	-	-	-	-	-	70,086	-	70,086	(70,086)
811	Prop84BayAreaIntegRegnIWtrMgmt	Flood Infrastructure Mapping T	-	-	-	-	-	-	-	231,019	-	231,019	(231,019)
811	Prop84BayAreaIntegRegnIWtrMgmt	Stormwater Improvements & PBP	-	-	-	-	-	-	-	26,815	-	26,815	(26,815)
811	Prop84BayAreaIntegRegnIWtrMgmt	Richmond Shoreline & San PFP	-	-	-	-	-	-	-	15,485	-	15,485	(15,485)
811	Prop84BayAreaIntegRegnIWtrMgmt	Pescadero Integrated FRAH	-	-	-	-	-	-	-	3,094	-	3,094	(3,094)
811	Prop84BayAreaIntegRegnIWtrMgmt	Restoration Guidance, San FC	-	-	-	-	-	-	-	70,389	-	70,389	(70,389)
811	Prop84BayAreaIntegRegnIWtrMgmt	SF Estuary Steelhead MP	-	-	-	-	-	-	-	52,756	-	52,756	(52,756)
811	Prop84BayAreaIntegRegnIWtrMgmt	Watershed Program Admnstrtn	-	-	-	-	-	-	-	13,273	-	13,273	(13,273)
	PRP84 TOTAL		-	(3,296)	3,296	-	-	5,296	10,669	2,924,252	2,057	2,942,275	(2,942,275)
815	Prop50BayAreaIntegRegnIWtrMgmt	BDO Fund Transfers	-	-	-	-	-	-	-	-	381	381	(381)
815	Prop50BayAreaIntegRegnIWtrMgmt	BDO Contract Expenses	-	-	-	-	-	7,360	2,254	-	-	9,614	(9,614)
815	Prop50BayAreaIntegRegnIWtrMgmt	EBMUD New Biz Guidebook	-	-	-	-	-	-	-	67,500	-	67,500	(67,500)
815	Prop50BayAreaIntegRegnIWtrMgmt	South Bay Advanced Regional RW	-	-	-	-	-	-	-	292,087	-	292,087	(292,087)
815	Prop50BayAreaIntegRegnIWtrMgmt	Pacifica RWP	-	-	-	-	-	-	-	74,440	-	74,440	(74,440)
815	Prop50BayAreaIntegRegnIWtrMgmt	Direct Install HET	-	-	-	-	-	-	-	36,680	-	36,680	(36,680)
815	Prop50BayAreaIntegRegnIWtrMgmt	Sonoma - Napa Marsh RWP	-	-	-	-	-	-	-	36,680	-	36,680	(36,680)
	PRP50 TOTAL		-	-	-	-	-	7,360	2,254	507,387	381	517,382	(517,382)
GRAND TOTAL			-	(3,296)	3,296	-	-	12,657	12,923	3,431,640	2,438	3,459,657	(3,459,657)



BACWA Alternative Investment Report FY16

Historically BACWA has directed EBMUD to invest any BACWA excess funds into the Local Agency Investment Fund (LAIF). Funds invested in LAIF are available with only one day's notice and are therefore very liquid. The downside of this liquidity is that the LAIF Fund provides a very low return. The average return in the LAIF Fund in FY16 has been 0.420 % to-date.

In April, 2015 BACWA Staff requested, and the BACWA Executive Board approved, the investment of up to \$500,000 of BACWA excess funds into higher earning alternative investments with a maximum maturity of 3 years. The funds were invested as follows:

Current Funds In:	Amount	Maturity	Date of Investment	Maturity	Vehicle	Rate %
Legal Reserves	\$165,000	1 Year	6/17/15	6/17/16	Everbank CD	.55%
Legal Reserves	\$33,333	2 Year	6/19/15	6/19/17	CapitalOne CD	1.05%
CBC Reserves	\$131,667	2 Year				
CBC Reserves	\$165,000	3 Year	5/1/15	5/1/18	FHLB	YTC 1.12%
TOTAL	\$495,000					

In October, 2015 there was a partial call (\$66,000) of the FHLB 3-year holding of \$165,000. EBMUD Investment group notified BACWA of the call following the reinvestment into a new 3-year holding. At the time the investment group was going through a personnel change and they did not indicate that the call was only a partial call and they proceeded to invest the full \$165,000, or \$94,000 more than they were authorized to invest in alternative instruments. BACWA was unaware of this discrepancy until recently when the AED requested a report from EBMUD on all outstanding alternative investment in order to report to the Board at the end of FY16. Here is the report BACWA received:

Description	Settlement Date	Cost Value	YTM @ Cost	Maturity Date	Horizon
Certificates of Deposit - Negotiable					@ June 2016
Everbank Jacksonville FLA	6/19/2015	\$165,000	0.550	6/17/2016	
Capital One Bank USA NA	6/17/2015	\$165,000	1.050	6/19/2017	1 year
Sub Total / Average		\$330,000	0.800		
Federal Agency Issues Coupon					
FHLB	5/4/2015	\$99,000	1.120	5/4/2018	1.9 years
FNMA	10/30/2015	\$165,000	1.100	10/29/2018	2.3 years
Sub Total / Average		\$264,000	1.108		
GRAND TOTAL		\$594,000			
FUNDS					
Legal Fund	804	40%	\$237,600		
CBC Fund	805	60%	\$356,400		

As noted above, the report showed the total investment was \$594,000 instead of the \$495,000 that was expected. Following notification by BACWA of the overinvestment, and with a good deal of research to determine what happened, EBMUD reported that the overinvestment was in error but was entirely from BACWA Funds. The upside is that BACWA has earned a higher interest rate on an additional \$94,000 for the eight months since the overinvestment. Here is a report on the entire investment portfolio returns in FY16:

Actual BACWA Portfolio (Current Fiscal Year)

	Investments Type						Estimated Interest		
	LAIF		Non-LAIF		Total		LAIF	Non-LAIF	Total
Month	\$	%	\$	%	\$	%	\$	\$	\$
July 2015	3,012,600	0.320	495,000	0.907	3,507,600	0.403	803	374	1,177
August 2015	3,012,600	0.330	495,000	0.907	3,507,600	0.411	828	374	1,202
September 2015	3,012,600	0.337	495,000	0.907	3,507,600	0.417	846	374	1,220
October 2015	3,012,600	0.357	660,000	0.955	3,672,600	0.464	896	525	1,421
November 2015	3,012,600	0.374	594,000	0.937	3,606,600	0.467	939	464	1,403
December 2015	3,012,600	0.400	594,000	0.937	3,606,600	0.488	1,004	464	1,468
January 2016	3,012,600	0.446	594,000	0.937	3,606,600	0.527	1,120	464	1,583
February 2016	3,012,600	0.467	594,000	0.937	3,606,600	0.544	1,172	464	1,636
March 2016	3,012,600	0.506	594,000	0.937	3,606,600	0.577	1,270	464	1,734
April 2015	3,012,600	0.525	594,000	0.937	3,606,600	0.593	1,318	464	1,782
May 2015	3,012,600	0.556	594,000	0.937	3,606,600	0.619	1,396	464	1,859
June 2015*	3,012,600	0.556	429,000	1.085	3,441,600	0.622	1,396	388	1,784
*estimated						Total	12,989	5,281	18,270

A portion of the current portfolio, the \$165,000 Everbank CD, matures today, June 17, 2016. BACWA has instructed EBMUD not to reinvest these funds at this time in order to reduce the alternative investment fund to below the currently approved maximum amount.

Going forward EBMUD has assigned the oversight of the BACWA portfolio to their Investment Administrator, Damien Charléty. BACWA Staff has worked with Damien to develop a more robust methodology for tracking and reporting on the BACWA portfolio. Damien has also worked with the EBMUD Accounting Group to develop changes to the monthly Treasurer's Reports that BACWA receives that will incorporate additional information on the alternative investments and on cash flows. The intent is to better understand the liquidity of BACWA Funds.

Once this is in place, Staff will have the information needed to determine what portion of the BACWA Funds are available for investment in alternative instruments. Staff intends to return to the Executive Board in July or August with a follow up report on this issue and to request approval from the Board to not only reinvest a portion of the funds maturing today, but also to allow Staff more flexibility in determining the maximum funds available to reinvest in alternative instruments while closely monitoring BACWA's cash flow needs. These efforts should result in an increase of interest income of approximately \$10,000 in FY17.



BACWA EXECUTIVE BOARD ACTION REQUEST

AGENDA NO.: 3

FILE NO.: 17-15

MEETING DATE: June 17, 2016

TITLE: Request for BACWA Executive Board Approval to Merge the AIR Fund into the BACWA Fund

☐ RECEIPT

☐ DISCUSSION

☐ RESOLUTION

☒ APPROVAL

RECOMMENDED ACTION

Authorize the Assistant Executive Director to send a request to EBMUD to merge the AIR Fund into the BACWA Fund beginning July 1, 2016.

SUMMARY

Beginning in FY17, the AIR Committee will become a full BACWA Committee and will no longer solicit funds from AIR Committee members to fund consultant services. As of April 30, 2016, the AIR Committee Fund has a remaining balance of \$26,601. The remaining encumbered amount for the outstanding Committee Support Agreement is \$14,046. Assuming the encumbered amount will be invoiced, the remaining balance will be approximately \$12,555. Given the reduction in the phase-in period from 3 years to 2 years which results in savings of \$25k for those agencies that have supported the AIR committee over previous years, it seems appropriate to merge the remaining balance in the AIR fund with the BACWA general operating fund.

FISCAL IMPACT

Going forward the annual cost for the AIR Committee's consultant support will amount to roughly \$50k/yr. The merging of the remaining balance in the AIR Fund with the BACWA Operating Fund will help offset the first year's costs for the AIR committee.

ALTERNATIVES

Do not transfer the AIR Fund to the BACWA Fund. This is not recommended since the BACWA Fund will be providing full support to the AIR Committee in FY17 and subsequent years.

Attachment: April 30, 2016 BACWA Fund Report

Approved: _____

Laura Pagano, Chair,
BACWA Executive Board

Date: _____

Fund Balances as of April 30, 2016

DESCRIPTION	BEGINNING FUND BALANCE 07/1/15	TOTAL RECEIPTS	TOTAL DISBURSEMENTS	ENDING FUND BALANCE 04/30/16	OUTSTANDING ENCUMBRANCES	UNOBLIGATED FUND BALANCE 04/30/16
BACWA	1,006,959	652,608	461,370	1,198,197	144,007	1,054,190
LEGAL RSRV	300,000	-	-	300,000	-	300,000
CBC	1,243,029	1,281,340	1,179,368	1,345,002	600,630	744,372
AIR	10,171	54,384	37,955	26,601	14,046	12,555
GRAND TOTAL	2,560,159	1,988,333	1,678,692	2,869,799	758,683	2,111,117
WOT	45,463	124,745	130,500	39,708	-	39,708
TOTAL	45,463	124,745	130,500	39,708	-	39,708
PRP84	275,232	2,782,873	2,936,978	121,127	5,296	115,831
PRP50	561,537	99,148	510,022	150,663	7,360	143,303
TOTAL	836,769	2,882,022	3,447,001	271,790	12,657	259,134

BAPPG Draft Budget FY17

	Budget	Description
1 Policy, Regulatory and Professional Training Support	\$15,000	Hire consultant to provide professional training (mercury and copper), prepare comment letters and provide policy support (pesticides, pharmaceuticals, etc.)
2 Media Consultant	\$30,000	Hire media consultant to provide outreach and media support for priority pollutant campaigns
3 Our Water Our World Program	\$10,000	Funding for the Our Water Our World Integrated Pest Management Partnership with BASMAA
4 Pesticide Regulatory Support (TDC)	\$15,000	Hire consultant to track pesticide regulatory activities through the US EPA and CA Department of Pesticide Regulation, provide key points for comment letters, communicate with pesticide regulatory agencies and seek opportunities to prevent pollution at the source
5 California Product Stewardship Council	\$10,000	Provide BACWA/BAPPG representation to the California Product Stewardship Council. Near-term focus is establishing extended producer responsibility for pharmaceuticals.
6 Website Consultant	\$4,000	Hire consultant to provide website modifications to support media campaigns, as needed
Other Projects		
7 BAPPG Member-Led Projects		
Mobile Surface Cleaners	\$0	Partner with BASMAA and coordinate with the BACWA Pretreatment Committee to develop certificates for mobile surface cleaning permits. Expand CCCSD's certification program to a regional program.
Unplanned Issues	\$2,000	Possible expenditures include media outreach, literature searches, website enhancement, training costs, etc.
Total Consultant Budget	\$84,000	
Total Other Project Budget	\$2,000	
Total BAPPG Budget	\$86,000	



EXECUTIVE BOARD AUTHORIZATION REQUEST

AGENDA NO.: 4a

FILE NO.: 17-10

MEETING DATE: June 17, 2016

TITLE: Request for BACWA Executive Board Approval to Execute Agreement with O'Rorke, Inc. to Provide Support for BAPPG's FY17 Priority Pollutant Campaigns

☐ RECEIPT ☐ DISCUSSION ☐ RESOLUTION ☒ APPROVAL

RECOMMENDED ACTION

Authorize the execution of an agreement with O'Rorke, Inc. to provide outreach and media support for priority pollutant campaigns in an amount not to exceed \$30,000 for FY17.

SUMMARY

This agreement will provide support for public outreach, graphic design, media relations, and administrative support for placement and payment of advertising services for the Bay Area Pollution Prevention Group (BAPPG). The consultant will support BAPPG Project Leads in executing effective outreach messages and search for new opportunities to inspire behavior change in target groups that will result in reduced pollutant discharges to the wastewater stream in the Bay Area.

Outreach and media efforts will be carried out under the supervision of the BAPPG Chair and Vice-Chair.

FISCAL IMPACT

Funds are available for this agreement and have been allocated for this project within the BAPPG FY17 committee budget approved on April 15, 2016.

ALTERNATIVES

1. Do not complete this work. This alternative is not recommended since this work was included in BAPPG's approved FY17 budget and will assist BACWA with executing effective outreach messages and search for new opportunities to inspire behavior change in target groups.
2. Select another consultant to conduct the work. This alternative is not recommended since the selected consultant has unique expertise in the subject area desired for supporting BACWA. As a result of O'Rorke's long history in supporting both BACWA and BAPPG with media relations, outreach and behavior-change campaigns, the consultant already knows the key messages and there is no learning curve, so they are uniquely positioned to deliver a higher-quality product and offer much more service than other similar firms can for the modest investment that BAPPG has available for this work.

Attachments: FY17 Agreement with O'Rourke
Scope of Work

Approved: _____

Laura Pagano, Chair,
BACWA Executive Board

Date: _____

BAY AREA CLEAN WATER AGENCIES
CONSULTING AGREEMENT

TO:	Tracy Keough O'Rorke, Inc. 55 Hawthorne Street, Suite 550 San Francisco, CA 94105	Tracy@ororkeinc.com (415) 543-1426
FROM:	David Williams, Executive Director BACWA PO Box 24055, MS702 Oakland, CA 94623	dwilliams@bacwa.org Phone: 925-765-9616 FAX: (510) 287-1351

RE: BACWA Agreement for FY17 BAPPG, Outreach and Media Support for Priority Pollutant Campaigns.

This Agreement covers professional services to be performed by O'Rorke, Inc. in order to implement the FY17 BAPPG Outreach and Media Support for Priority Pollutant Campaigns. This work is described in the attached Scope of Work and under the direction of Robert Wilson of the City of Petaluma and Doug Dattawalker of Union Sanitation District. The total cost of professional services to be performed by O'Rorke, Inc. is not to exceed \$30,000. This contract will be funded by the BACWA Budget under the BAPPG Committee line item.

This Agreement may be terminated by either party at any time for convenience with 30 day notice. In the event of termination by BACWA, BACWA shall pay O'Rorke, Inc. for professional and competent services rendered to the date of termination upon delivery of assigned work products to BACWA.

O'Rorke, Inc. shall submit invoices to the BACWA Assistant Executive Director via e-mail along with approval by BAPPG. Invoices shall indicate hours associated with each task. Invoices will be paid within thirty (30) days of receipt.

BACWA AED E-mail: Sherry Hull shulll@bacwa.org

Approved:

By _____
Laura Pagano
Chair, BACWA Executive Board

By _____
Tracy Keough
O'Rorke, Inc.

Date _____

Date _____

BACWA EIN: 94-3389334

Overview

This strategy is intended to provide structure to inform O'Rorke's outreach activities on behalf of BAPPG for the 2016/17 fiscal year. Contractor shall seek written request to proceed prior to beginning each task or sub-task as it is anticipated priorities may change. Accordingly, at BAPPG staff's sole discretion, funding between tasks may be adjusted to ensure maximum flexibility.

Task 1: Toilets Aren't Trash Cans! Outreach

Contractor will develop an outreach campaign designed to educate Bay Area audiences about the Toilets Aren't Trash Cans! message. Toilets Aren't Trash Cans! will be the overarching campaign theme, with sub-messages on proper pharmaceutical disposal (No Drugs Down the Drain) and wipes disposal (Wipes Clog Pipes!). The campaign will be developed so that BAPPG member agencies may take advantage of assets and repurpose them to conduct outreach in their own communities to supplement the broader efforts of the Contractor.

Deliverables: Outreach plan, creative, booked media & final report.

Task 2: Chinook Book

Contractor will work with Chinook Book to book a combination of online, mobile and / or print ads on behalf of BAPPG. Chinook Book's staff will develop artwork, or reuse artwork developed last fiscal year. The budget for last year was \$3,500 for ad placement.

Deliverables: Booked media

Task 3: Fast, Oils & Grease Spanish Radio Ads

Contractor will work with Univision to book Spanish Radio Ads on behalf of BAPPG during the holiday timeframe between Thanksgiving and New Year. Contractor will also review existing radio script and make suggestions for edits to BAPPG. The finalized scrip will be provided to Univision to be translated and recorded by their staff in Spanish.

Last year's state for this campaign were as follows: \$8,000 for ad placement 60 weekly spots (over 4 week period) and 180 total campaign spots, Univision also ran PSAs.

Deliverables: Booked media, radio script

Task 4: Media Relations on Flea & Tick Pesticide Alternatives

Contractor will work with BAPPG to develop talking points and a press release to educate residents about new findings related to Fipronil in Flea and Tick treatments for pets. Contractor will also assist with distributing the release to Bay Area media.

Deliverables: Press release, talking points, coverage report

Task 5: BAPPG Annual Report

Contractor will provide graphic design and content editing assistance with the BAPPG 2016 Annual Report.

Deliverables: Final report files

Budget

In addition to funding needed to book media (as noted in above tasks), O'Rorke staff's work will be compensated on a time and materials basis at the following rates, for a not-to-exceed budget of \$30,000.

O'Rorke Rates

Tracy Keough, Managing Principal	\$180/hour
Emiko Hashisaki, Account Supervisor	\$162/hour
Julia Fishman, Media Buyer	\$162/hour
Connie Zhang, Account Manager	\$150/hour
O'Rorke Intern	Free



EXECUTIVE BOARD AUTHORIZATION REQUEST

AGENDA NO.: 4b

FILE NO.: 17-11

MEETING DATE: June 17, 2016

TITLE: Request for BACWA Executive Board Approval to Execute Agreement with TDC Environmental, LLC for BACWA/BAPPG Pesticide Regulatory and Technical Support, not to exceed \$17,500.00 for FY17.

☐ RECEIPT

☐ DISCUSSION

☐ RESOLUTION

☒ APPROVAL

RECOMMENDED ACTION

Authorize the execution of an agreement with TDC Environmental, LLC to track pesticide regulatory activities through the US EPA and CA Department of Pesticide Regulation; provide key points for comment letters; communicate with pesticide regulatory agencies; and seek opportunities to prevent pollution at the source, in an amount not to exceed \$17,500 for FY17.

SUMMARY

This contract will allow Dr. Kelly Moran, of TDC Environmental, LLC to provide support to BACWA on regulatory, technical, and outreach issues related to priorities mainly focused on pesticides. Work under this contract will include the tracking of pesticide-related regulatory activities by the EPA and Department of Pesticide Regulation (DPR) and making recommendations regarding regulatory participation and other follow-up steps, including recommending key points for comment letters, reviewing draft comment letters, setting up meetings with key staff at the pesticide regulating agencies to continue educating them about downstream wastewater impacts from their actions to register and/or reregister pesticide uses, and working to change the tools and information used in the registration processes to be protective of wastewater. This work is estimated to cost \$15,000.

In addition to the anticipated tasks that were included in BAPPG's approved FY17 committee budget, a new opportunity has arisen to help educate US EPA staff regarding downstream impacts to wastewater from pesticides. Dr. Moran has been invited by US EPA's lead on wastewater pesticide risk assessments to present during a symposium entitled "Environmental Risk Assessment of Down-the-Drain Chemicals" at the 2016 Fall American Chemical Society Meeting to be held in Philadelphia, PA this August. Based on Dr. Moran's experience from prior science meetings related to stormwater impacts from pesticides, this event is likely to set the direction of EPA Pesticides wastewater risk assessments for the future. Given the importance of the pesticide risk assessment to Bay Area POTWs and Dr. Moran's willingness to attend and present if her time can be covered, additional funds, in a not to exceed amount of \$2500, are requested to support Dr. Moran's attendance and presentation on behalf of BACWA.

The work under this contract will be carried out under the supervision of Melody LaBella of CCCSD and Karin North of the City of Palo Alto.

FISCAL IMPACT

Funds in the amount of \$15,000 are available for this agreement and have been allocated for this project within the BAPPG FY17 approved April 15, 2016. The additional \$2,500 is being sought from the pesticide budget line item in BACWA's approved FY17 Budget.

ALTERNATIVES

1. Do not complete this work. This alternative is not recommended since this work was included in BAPPG's approved FY17 budget and will assist BACWA with comment letters on important regulatory actions that can reduce wastewater pollution from pesticides and other products at the source.
2. Select another consultant to conduct the work. This alternative is not recommended since the selected consultant has unique expertise and knowledge in the subject area desired for supporting BACWA. No other consultant knows the pesticide regulatory process better nor has the contacts/relationships at the pesticide regulating agencies (EPA Region IX, US EPA and California Department of Pesticide Regulation) than Dr. Moran of TDC Environmental. As a result, BACWA/BAPPG achieves much more effectiveness and impact for a modest investment by retaining her firm for this work.

Attachments: TDC Environmental, LLC Scope Work
FY17 Agreement with TDC Environmental, LLC

Approved: _____
Laura Pagano, Chair,
BACWA Executive Board

Date: _____

BAY AREA CLEAN WATER AGENCIES
CONSULTING AGREEMENT

TO: Dr. Kelly Moran kmoran@tdcenvironmental.com
TDC Environmental, LLC
462 E. 28th Ave.
San Mateo CA 94403
(650) 627-8690

FROM: David Williams, Executive Director dwilliams@bacwa.org
BACWA
PO Box 24055, MS702
Oakland, CA 94623
Phone: 925-765-9616
FAX: (510) 287-1351

RE: BACWA Agreement for FY17 with TDC Environmental, LLC, to provide pesticide regulatory and technical support to the BAPPG Committee.

This Agreement covers professional services to be performed TDC Environmental, LLC in order to track pesticide regulatory activities through the US EPA and CA Department of Pesticide Regulation; provide key points for comment letters; communicate with pesticide regulatory agencies; and seek opportunities to prevent pollution at the source. The work under this contract will be carried out under the supervision of Melody LaBella of CCCSD and Karin North of the City of Palo Alto. The total cost of professional services to be performed by TDC Environmental, LLC is not to exceed \$17,500. This contract will be funded by the BACWA Budget under the BAPPG Committee line item.

This Agreement may be terminated by either party at any time for convenience with 30 day notice. In the event of termination by BACWA, BACWA shall pay TDC Environmental, LLC for professional and competent services rendered to the date of termination upon delivery of assigned work products to BACWA.

TDC Environmental, LLC shall submit invoices to the BACWA Assistant Executive Director via e-mail along with approval by BAPPG. Invoices shall indicate hours associated with each task. Invoices will be paid within thirty (30) days of receipt.

BACWA AED E-mail: Sherry Hull shulll@bacwa.org

Approved:

By _____
Laura Pagano
Chair, BACWA Executive Board

By _____
Dr. Kelly Moran
TDC Environmental, LLC

Date _____

Date _____

BACWA EIN: 94-3389334

Scope of Work
TDC Environmental, LLC
Pesticide Regulatory and Technical Support FY 2016-17

- Coordinate with BAPPG representatives to maintain, a list of highest priorities pesticides for BACWA's attention (currently copper, silver, fipronil, imidacloprid, and pyrethroids). Periodically update (to the extent possible) a schedule of anticipated pesticide regulatory activities on these pesticides.
- Track pesticide-related regulatory activities by EPA and Department of Pesticide Regulation (DPR) that have significant potential to affect BACWA member agencies. Notify BAPPG of such items as they arise. On the basis of regulatory documents, relevant scientific information, and the regulatory context, make recommendations regarding regulatory participation or other follow-up steps. When so directed and as resources allow, provide key points for comments and review draft comment letters.
- Based on existing lines of communication with pesticide regulators and pesticide manufacturers (which are maintained for other clients), notify BAPPG of important information obtained through these contacts.
- Provide technical information to support BACWA's coordination with NACWA on Federal pollution prevention topics, including pesticides.
- Coordinate and provide scientific support for communications with EPA and DPR about wastewater pesticides discharges, wastewater pesticides monitoring, and improving wastewater pesticides predictive modeling to support registration decisions.
- Prepare and give presentation (requested by US EPA's lead on wastewater pesticide risk assessments) in the "Environmental Risk Assessment of Down-the-Drain Chemicals" symposium at the 2016 Fall American Chemical Society meeting in Philadelphia, PA in August. Participate in this and related wastewater sessions.
- Based on the above tasks, develop an agenda and materials for a monthly BACWA Pesticides Workgroup teleconference meeting to determine appropriate actions and to coordinate actions with NACWA and San Francisco Bay Regional Water Board staff. Provide staff support during the meetings and an action item list after each meeting.
- Provide technical and regulatory advice to support development of BAPPG program(s) or materials to address pesticides, such as anticipated fipronil-related outreach.
- Upon request, provide responses to pesticide-related regulatory or scientific questions.

All services identified in this Scope of Work shall be compensated on a time and materials basis at \$190 per hour, not to exceed \$17,500.

Contractor

TDC Environmental, LLC
Kelly D. Moran, Ph.D., President
462 E. 28th Ave.
San Mateo CA 94403
650-627-8690
kmoran@tdcenvironmental.com



EXECUTIVE BOARD AUTHORIZATION REQUEST

AGENDA NO.: 4b

FILE NO.: 17-12

MEETING DATE: June 17, 2016

TITLE: Request for BACWA Executive Board Approval to Execute Agreement with Stephanie Hughes, ChE P.E. for BAPPG Support

☐ RECEIPT

☐ DISCUSSION

☐ RESOLUTION

☒ APPROVAL

RECOMMENDED ACTION

Authorize the execution of an agreement with Stephanie Hughes, ChE P.E., to provide professional training, prepare comment letters and provide policy support in an amount not to exceed \$15,000 for FY17.

SUMMARY

This agreement will provide support for training to professional groups (dental hygienists/assistants, plumbers and/or plumbing apprentices) on mercury, copper and other relevant pollutants of concern to BACWA agencies, prepare comment letters, evaluate regulatory documents and perform research related to controlling pollutants at their source, and provide policy support on pesticides, pharmaceuticals, and other pollutants of emerging concern.

These efforts will be carried out under the supervision of John Mukhar and Karin North of the City of Palo Alto.

FISCAL IMPACT

Funds are available for this agreement and have been allocated for this project within the BAPPG FY17 approved April 15, 2016.

ALTERNATIVES

1. Do not complete this work. This alternative is not recommended since this work was included in BAPPG's approved FY17 budget and will assist BACWA with executing effective outreach messages and search for new opportunities to inspire behavior change in target groups.
2. Select another consultant to conduct the work. This alternative is not recommended since the selected consultant has unique expertise in the subject area desired for supporting BACWA. In addition to having past wastewater agency experience in the Bay Area, Ms. Hughes offers a unique background that allows her to offer her these services to BAPPG at a very competitive rate as a sole proprietor. BAPPG is not aware of any other firm that has the breadth and expertise to offer both professional training services and comment letter support at a very competitive rate. In addition, Ms.

Hughes' work with the professional trades has been so well received that she now regularly receives requests from various Bay Area groups to provide this BACWA training to help ensure that all wastewater discharges are able to meet their permit limits.

Attachments: FY17 Agreement with Stephanie Hughes
Stephanie Hughes' Scope of Work

Approved: _____
Laura Pagano, Chair,
BACWA Executive Board

Date: _____

BAY AREA CLEAN WATER AGENCIES

CONSULTING AGREEMENT

TO: Stephanie Hughes, ChE P.E. steifehughes@yahoo.com
1445 Emory Street
San Jose, CA 95126

FROM: David Williams, Executive Director dwilliams@bacwa.org
BACWA Phone: 925-765-9616
PO Box 24055, MS702 FAX: (510) 287-1351
Oakland, CA 94623

RE: BACWA Agreement for FY17 with Stephanie Hughes, ChE P.E., to provide to provide professional training (mercury and copper), prepare comment letters and provide policy support (pesticides, pharmaceuticals, etc.).

This Agreement covers professional services to be performed Stephanie Hughes, ChE P.E. in order to provide support for training to professional groups (dental hygienists/assistants, plumbers and/or plumbing apprentices) on mercury, copper and other relevant pollutants of concern to BACWA agencies, prepare comment letters, evaluate regulatory documents and perform research related to controlling pollutants at their source, and provide policy support on pesticides, pharmaceuticals, and other pollutants of emerging concern. These efforts will be carried out under the supervision of John Mukhar and Karin North of the City of Palo Alto. The total cost of professional services to be performed by Stephanie Hughes, ChE P.E. is not to exceed \$15,000. This contract will be funded by the BACWA Budget under the BAPPG Committee line item.

This Agreement may be terminated by either party at any time for convenience with 30 day notice. In the event of termination by BACWA, BACWA shall pay Stephanie Hughes, ChE P.E. for professional and competent services rendered to the date of termination upon delivery of assigned work products to BACWA.

Stephanie Hughes, ChE P.E. shall submit invoices to the BACWA Assistant Executive Director via e-mail along with approval by BAPPG. Invoices shall indicate hours associated with each task. Invoices will be paid within thirty (30) days of receipt.

BACWA AED E-mail: Sherry Hull shulll@bacwa.org

Approved:

By _____
Laura Pagano
Chair, BACWA Executive Board

By _____
Stephanie Hughes, ChE P.E.

Date _____

Date _____

BACWA EIN: 94-3389334



STEPHANIE HUGHES, ChE P.E.
Consulting Engineer / University Lecturer

1445 Emory Street, San Jose, California 95126

BAPPG: Professional Training
and Policy/Regulatory Support

Scope of Work and Cost Estimate

DATE: 2-Jun-2016

SCOPE OF WORK DESCRIPTION	BUDGET		TOTAL
	Rate: \$180.00 ODC	Hour Est	
TASK 1. Professional training: Conduct outreach to professionals, by reaching out to community colleges, union shops, and professional develop and training workshops. The focus is expected to be on dental mercury and other dental office wastes, but consultant should have the expertise and experience to also provide trainings regarding proper pharmaceutical disposal, hazardous material identification during building demolition, and copper plumbing BMPs. As part of this effort, consultant shall update contact database, communicate with contacts, and seek speaking engagements. Edit/update presentations as warranted per new regulatory context. This scope assumes up to a total of 15 presentations.	\$510	50.5	\$9,090.00
Task 2. Policy Support and Comment Letters: Consultant will be on-call to develop regulatory letters, conduct literature reviews, or provide other technical support. Topics could include, but are not limited to, metals, pesticides, nutrients, salinity, and emerging constituents (such as PBDEs and PFOS) being reviewed by the Regional Board.		24.0	\$4,830.00
Task 3. Administrative: Prepare relevant outreach sections to the BAPPG Semi-Annual Reports in January and July to be submitted to the BACWA Board of Directors. Speak at one BAPPG meeting to provide significant updates of a technical nature (e.g. flea IPM or new dental requirements).		6.00	\$1,080.00
Totals	\$510	80.50	\$15,000.00

www.stephaniehughes.net



BACWA EXECUTIVE BOARD ACTION REQUEST

AGENDA NO.: 4d

FILE NO.: 17-13

MEETING DATE: June 17, 2016

TITLE: Request for BACWA Executive Board Approval to Execute Agreement with Carollo Engineers for AIR Committee Support

☐ RECEIPT

☐ DISCUSSION

☐ RESOLUTION

☒ APPROVAL

RECOMMENDED ACTION

Authorize the approval of a contract with Carollo Engineers to implement the Fiscal Year 2017 BACWA and Special Programs Budget and Workplan AIR Committee Support line item for a not to exceed amount of \$50,000.

SUMMARY

The BACWA fiscal year (FY17) begins July 1, 2016. The BACWA Air Issues and Regulations (AIR) committee sought the support of a consultant who will hosts meetings, provides regulatory and technical updates, and facilitates coordination between POTWs and regulators. Following the expiration of the previous support agreement, BACWA solicited proposals for FY17 with the option of extending the agreement for an additional two years. A Request for Proposals was submitted to ten prospective vendors and two proposals were submitted. Following a review by a selection committee made up of BACWA members, Carollo Engineers was selected as the consultant who could best provide the required services..

FISCAL IMPACT

The funding for this contract is consistent with the Fiscal Year 2017 workplans and budget for BACWA and Special Programs.

ALTERNATIVES

Discontinue consultant support for BACWA's AIR committee. This alternative is not recommended, since member agencies have expressed the need for expert assistance on air issues that affect POTWs in the Region.

Attachments: FY17 Agreement with Carollo Engineers
Carollo Engineers Scope of Work and FY17 Rates

Approved: _____

Laura Pagano, Chair,
BACWA Executive Board

Date: _____

BAY AREA CLEAN WATER AGENCIES PROFESSIONAL SERVICES CONTRACT

This PROFESSIONAL SERVICES CONTRACT, effective July 1, 2016, is between Bay Area Clean Water Agencies (“BACWA”), a joint powers agency which exists as a public entity separate and apart from its Member Agencies, created January 4, 1984 by a Joint Powers Agreement between Central Contra Costa Sanitary District, East Bay Dischargers Association, East Bay Municipal Utility District, the City and County of San Francisco and the City of San Jose, with a mailing address of P.O. Box 24055, MS 59, Oakland, CA 94623, and Carollo Engineers, Inc. (“Consultant”), a private corporation doing business at 2700 Ygnacio Valley Road, Suite 300, Walnut Creek, CA 94598 for professional services as described in any Exhibit A attached hereto.

In consideration of the mutual covenants, stipulations and agreements, the parties agree as follows:

Description and Standard of Services to be Performed

1. Consultant will perform the Services as described by and in accordance with Exhibit A in a manner acceptable to BACWA.
2. Consultant shall not contract with or otherwise use any subconsultants, subcontractors or other non-employee persons or entities (“Subconsultants”) to perform the Services without the prior written approval of BACWA. If Consultant and BACWA agree that Subconsultants shall be used, Consultant shall ensure Subconsultants’ compliance with all the terms and conditions of this agreement.
3. Consultant will exercise that degree of care in performing the Services in accordance with that prevailing among firms of comparable standing in the State of California (“Professional Standard”). Consultant will promptly correct or re-perform those Services not meeting the Professional Standard without additional compensation.
4. Consultant warrants that it is fully licensed, registered and otherwise fully authorized to perform the Services in the State of California to the extent applicable law requires such licensure, registration or authorization.
5. BACWA’s review, approval, acceptance, use, or payment for all or any part of the Services hereunder will not alter the Consultant’s obligations or BACWA’s rights hereunder, and will not excuse or diminish Consultant’s responsibility for performing all Services consistent with this Contract.

Payment for Services

6. The contract will begin July 1, 2016. BACWA will pay Consultant based on the rates in Exhibit B, up to a maximum amount payable of \$50,000.00. The term of this agreement shall not extend beyond June 30, 2017 but may be extended for additional one year terms at BACWA’s discretion for an additional two years, ending June 30, 2019. If, upon reaching the end of the term of the contract, the Board elects to extend the contract, the amount of the extended contract will be negotiated at the time the contract is extended.
7. Consultant shall submit invoices monthly via email to Sherry Hull, Assistant Executive Director, at shull@bacwa.org with a copy to Lorien Fono, Regulatory Program Manager, at lfono@bacwa.org. Invoices shall include the hours charged by each employee, a brief description of the work performed, and a description of costs for which Consultant seeks reimbursement and which are specified in Exhibit B.
8. Payments under this Contract will be due thirty (30) days after BACWA’s receipt of invoices. BACWA may withhold from any progress or final payment any damages, backcharges or claims incurred or anticipated by BACWA to the extent caused by Consultant.

Document Ownership and Retention

9. Consultant will maintain all financial records relating to this Contract in accordance with generally accepted accounting principles and for at least three years following termination of this Contract. Consultant will grant BACWA and its representatives access upon request to all such records and all other books, documents, papers, drawings, and writings of Consultant that refer or relate to this Contract.
10. All drawings, specifications, reports, programs, manuals, and other work product of Consultant that result from this Contract ("Work Product") will be considered the exclusive property of BACWA. Consultant agrees that it will not use, disclose, communicate, publish or otherwise make available to third parties any products, analyses, data, compilations, studies, proposals, technical or business information, and any other information related to the Services provided to BACWA without BACWA's prior written approval.

Indemnification

11. To the fullest extent allowed by law, Consultant will indemnify, hold harmless, reimburse and defend BACWA, its Member Agencies, and each of their officers, directors, employees and agents from, for and against any and all claims, demands, damages, losses, expenses, liabilities and penalties, including but not limited to reasonable attorneys' and expert witnesses' fees, arising out of or relating to the Services but only to the extent caused by the negligent or other wrongful acts or omissions of Consultant or any person or entity for whose acts or omissions any of them are responsible, or by the failure of any such party to perform as required by this Contract.

Insurance

12. Consultant will purchase and maintain, at Consultant's expense, the following types of insurance, covering Consultant, its employees and agents:
 - a. Workers' Compensation Insurance as required by law, subject to a waiver of subrogation in favor of BACWA;
 - b. Employers Liability Insurance with a per accident value at \$1,000,000, Policy Limit of \$1,000,000 and Each Employee of \$1,000,000, subject to a waiver of subrogation in favor of BACWA.
 - c. Comprehensive General Liability Insurance covering personal injury and property damage with a combined single limit, or the equivalent, of not less than \$1,000,000.00 each occurrence, \$2,000,000.00 general aggregate, and naming BACWA as an additional insured.
 - d. Business Automobile Liability Insurance with combined single limit coverage of not less than \$1,000,000.00 aggregate for each claim, incident, or occurrence; and naming BACWA as an additional insured.

Assignment

13. Consultant will not assign or transfer any of its interest in this Contract, in whole or in part, without the prior written consent of BACWA. BACWA may assign this Contract and any rights relating to this Contract (including but not limited to its right to assert claims and defenses against Consultant) at BACWA's discretion.

Independent Contractor

14. Consultant will perform the Services as an independent contractor. Although Consultant will perform its Services for the benefit of BACWA, and although BACWA reserves the right to determine the schedule for the Services and to evaluate the quality of the completed performance, BACWA does not control the means or methods of Consultant's performance. Consultant is solely responsible for determining the appropriate means and methods of performing the Services, and Consultant's liability will not be diminished by any review, approval, acceptance, use or payment for the same by BACWA or any other party.

Termination of Contract; Suspension of Services

15. This contract shall automatically terminate on June 30, 2017. Either party may also terminate this Contract in whole or in part at any time for its convenience. For a termination for convenience, the termination will be effective thirty (30) days following receipt of a written notice of termination by one party from the other. BACWA may terminate this Contract in whole or in part for cause, in which event the termination will be effective ten (10) days after Consultant's receipt of BACWA's written notice and Consultant's failure during that period to cure the default.

Dispute Resolution

16. Consultant will give prompt written notice to BACWA of any claim, dispute or other matter in question, but in no event will Consultant give such notice later than ten (10) days after Consultant's becoming aware of the event or circumstance giving rise to the claim, dispute or matter in question.
17. All claims, disputes and other matters in question between BACWA and Consultant arising out of or relating to this Contract will be subject to alternative dispute resolution. If both parties agree to arbitration it will be conducted in accordance with the Commercial Arbitration Rules of the American Arbitration Association then in effect. Notice of the demand for arbitration will be filed in writing with the other party to this Contract and with the American Arbitration Association. Any arbitration arising out of or relating to this Contract will include, by consolidation, joinder or joint filing, any other person or entity not a party to this Contract that is substantially involved in a common issue of law or fact and whose involvement in the consolidated arbitration is necessary to achieve a final resolution of a matter in controversy therein. This agreement to arbitrate will be specifically enforceable by any court with jurisdiction thereof.
18. A demand for dispute resolution by either party will be made within a reasonable time after the claim, dispute, or other matter in question has arisen, and in no event will it be made after the date when institution of court litigation based on such claim, dispute or other matter in question would be barred by the applicable period of limitations. For all claims by BACWA against Consultant, the applicable period of limitations will not commence to run, and any alleged cause of action will not be deemed to have accrued (whether such action is based on negligence, strict liability, indemnity, intentional tort or other tort, breach of contract, breach of implied or express warranty, or any other legal or equitable theory), unless and until BACWA is fully aware of all three of the following: (1) the identity of the party(ies) responsible, (2) the magnitude of the damage or injury and (3) the cause(s) of the damage or injury. The contractual limitations period and discovery rule provided herein applies in lieu of any otherwise applicable statute or related case law.
19. The failure of either party to enforce any provision of this Contract will not constitute a waiver by that party of that or any other provision of this Contract.

Severability

20. BACWA and Consultant agree that if any term or provision of this Contract is determined to be illegal, in conflict with any law, void or otherwise unenforceable, and if the essential terms and provisions of this Contract remain unaffected, then the validity of the remaining terms and provisions will not be affected and the offending provision will be given the fullest meaning and effect allowed by law.

Survival

21. All rights and obligations set out in this Contract and arising hereunder will survive the termination of this Contract (i) as to the parties' rights and obligations that arose prior to such termination and (ii) as is necessary to give effect to rights and obligations that arise after such termination but derive from a breach or performance failure that occurred prior to the termination.

This Contract constitutes the entire, legally binding contract between the parties regarding its subject matter. No waiver, consent, modification or change of terms of this Contract is binding unless in writing and signed by both parties.

The following documents are incorporated into and made a part of this Contract. Any conflicts between these documents and this Contract will be resolved in favor of this Contract.

Exhibit A – Scope of Work

Exhibit B – Hourly Rates/Reimbursable Expenses

CONSULTANT: CAROLLO ENGINEERS, INC.

2700 Ygnacio Valley Road, Suite 300

Street Address

Walnut Creek, CA 94598

City, State, Zip Code

86-0899222

Tax Identification No.

Consultant Signature

Date

Lydia Holmes, Vice President

Name, Title

BACWA Signature

Date

Laura Pagano, BACWA Chair

Name, Title

EXHIBIT A
SCOPE OF WORK

Professional Services by Carollo

Task 1 - Meetings with the AIR Committee

The selected Consultant will support committee meetings to present information on current air issues, facilitate discussions between members, and to identify follow-on action items. They will be responsible for four formal meetings with the AIR Committee per year, including making arrangements for meetings and preparing agenda, meeting materials, and minutes. Under this task, the selected consultant will coordinate one meeting between BAAQMD staff and AIR Committee members as one of the quarterly meetings. The agenda will focus on issues of concern to AIR Committee members.

Task 2 - Track and Communicate Regulatory Issues, Technical Resources and Grant Opportunities

The selected Consultant will monitor regulatory agencies involved in developing air quality and climate change regulations that may affect POTWs, including the Bay Area Quality Management District (BAAQMD), the San Francisco Bay Conservation and Development Commission, the California State Air Resources Board, and the U.S. Environmental Protection Agency. They will also track technical resources and grant opportunities related to air issues that are of interest to BACWA member agencies. The consultant will prepare and distribute informational material to members to keep them informed of the AIR Committee activities and future regulatory activities.

Task 3 - Coordination and communication with other POTW Organizations and Regulators

The selected Consultant will participate in meetings with Regulators, participate in member or Regulator workshops and hearings, draft correspondence, and perform other related activities as directed by the AIR Committee Chairs.

The selected Consultant will also coordinate with other POTW organizations on issues of mutual interest. The purpose of this coordination will be to share useful information, identify areas of joint cooperation, and prepare common responses on key issues, where appropriate. POTW organizations whose objectives coincide with the AIR Committee include SCAP, CWCCG, WERF, CASA, and NACWA. Activities may include periodic telephone conversations, meetings, and exchange of published materials.

Optional Task 4 - Response on Special Assignments

The selected Consultant will perform special technical assignments under the direction of the AIR Committee Chairs. Special technical assignments may include leading a special workshop for AIR Committee or general BACWA members, participating in AIR Committee strategy meetings, or performing other activities not included in Tasks 1-3.

EXHIBIT B

HOURLY RATES/REIMBURSABLE EXPENSES

Sarah Deslauriers	\$182
Courtney Mizutani	\$175



BACWA EXECUTIVE BOARD ACTION REQUEST

AGENDA NO.: 5

FILE NO.: 17-14

MEETING DATE: June 17, 2016

TITLE: Request for BACWA Executive Board Approval to Write Off Past Due FY16 Invoiced Fee

☐ RECEIPT

☐ DISCUSSION

☐ RESOLUTION

☒ APPROVAL

RECOMMENDED ACTION

Authorize the Executive Director to send a request to EBMUD to write off one past due invoice from FY16.

SUMMARY

The BACWA fiscal year (FY17) begins July 1, 2016. EBMUD requested that we clear the accounting books of any outstanding invoices where it is determined that all collection efforts have been exhausted. Only one BACWA Invoice remains outstanding: North San Mateo Sanitation District paid their dues but has declined to pay the CBC Fee of \$750.00 as they feel they get no benefit since they are an ocean discharger. Several efforts have been made to collect this fee without success.

FISCAL IMPACT

Expected Revenues for FY16 will be reduced by \$750.00. The CBC Fee Revenue Budget for FY16 was \$675,000. As of May 31, 2016 the BACWA Treasurer's Report shows actual CBC Fee Revenues of \$674,250. The Nutrient Surcharge Budget for FY16 was \$600,000 with actual revenues as of May 31, 2016 at \$600,608.

ALTERNATIVES

Do not write off the outstanding invoice. This is not recommended as it is unlikely that additional efforts to collect the funds will succeed. EBMUD Accounting has requested that any outstanding invoices be cleared prior to the end of the fiscal year.

Attachments: No. San Mateo Invoice for FY16

Approved: _____

Laura Pagano, Chair,
BACWA Executive Board

Date: _____

PRO FORMA

Please Remit To:

East Bay Muni Utility District
EBMUD Mail Remittance
PO Box 24055
MS 101
Oakland CA 94623
United States

Page: 1
Invoice No: EBM-BDO-00944
Status/Type: RDY/Regular
Invoice Date: 08/28/2015
Account Number: NOSA3002
Payment Terms: Net Cash
Est. Due Date:

Bill To:

North San Mateo Sanitation District
Attn: Cynthia Royer
153 Lake Merced Blvd.
Daly City CA 94015
United States

AMOUNT DUE: 2,310.00 USD

Amount Remitted



For billing questions, please call

Sherry Hull, 415-404-8303

Line	Adj	Identifier	Description	Quantity	UOM	Unit Amt	Net Amount
Billing for FY16 BACWA Membership and Special Program Fees							
1		GEN2	Associate/Affiliate Dues	1.00	EA	1,560.00 PAID	1,560.00
2		CBC1	CBC Fee	1.00	EA	750.00	750.00
SUBTOTAL:							2,310.00
TOTAL AMOUNT DUE :							2,310.00

Please reference the Invoice No. on your payment. To ensure that your account is properly credited, please return a copy of this invoice with your payment. Thank you.

Please make check payable to BACWA

Remit to EBMUD.

STANDARD

Original

Optimization/Upgrade Report Workshop

EBMUD Large Training Resource Center (TRC)

**375 11th St.
Oakland, CA**

June 27, 2016

10:30 am – 1:30 pm

DRAFT AGENDA

1. Background of Nutrient Watershed Permit
2. Overview of Project Approach and Current Status
3. Purpose and Organization of Reports
4. Common Assumptions
5. Case Studies
 - a) Case 1 (Oro Loma)
 - b) Case 2 (Benicia)
 - c) Case 3 (Delta Diablo)
6. Initial Cost and Load Reduction Results for Wave 1 Plants
7. Additional Data Requests
 - a) Recycled Water
 - b) CIP
8. Report Feedback and Sign-Off Process
9. Schedule
 - a) Wave 2, 3, 4
 - b) Submittal of Final Report
10. Group Annual Report
11. Next Steps
12. Q & A Session

LUNCH BREAK (30 minute)

13. Update on Watershed Permit
14. Options for the Next Watershed Permit
 - a) Membership Survey
15. Adjourn

BACWA SURVEY ON WATERSHED PERMIT OPTIONS

Sttement #	Statements	Position	Responses (circle only one number)
1	Given the likely provisions to be included in the 2nd Watershed Permit, your agency would likely continue with the BACWA coalition (the alternative being to negotiate your own separate nutrient permit provisions with the Water Board)	strongly agree somewhat agree indifferent somewhat disagree strongly disagree	5 4 3 2 1
2	Given the difference in costs to your agency for increasing the funding for the nutrient science program it makes sense to pursue the Increase Funding for science alternative in lieu of having a NNLI requirement in the next watersehd permit	strongly agree somewhat agree indifferent somewhat disagree strongly disagree	5 4 3 2 1
3	Given the Water Board's interest at this time for increasing the funding for the science program, it makes sense to negotiate now for an extension of the existing permit (with the Increase Funding provision included) for another 5 years which roughly equals 3 more years of certainty of your agency	strongly agree somewhat agree	5 4

		indifferent	3
		somewhat disagree	2
		strongly disagree	1
4	In lieu of having a NNLI requiremnt in the next watershed permit, my agency may be willing to significantly increase (perhaps double) its current Nutrient Surcharge for the purpose of increasing funding for the science program.		
		strongly agree	5
		somewhat agree	4
		indifferent	3
		somewhat disagree	2
		strongly disagree	1
5	Even though it may be more complex and would take time to get BACWA membership buy-in, my agency supports the Early Action alternative in lieu of the NNLI in the next watershed permit rather than Increased Funding for the science program alternative		
		strongly agree	5
		somewhat agree	4
		indifferent	3
		somewhat disagree	2
		strongly disagree	1
6	My agency would seriously consider early actions to reduce nutrients in lieu of the NNLI in the next watershed without any incentives being offered by other POTWs who do not pursue early actions		
		strongly agree	5
		somewhat agree	4
		indifferent	3

		somewhat disagree	2
		strongly disagree	1
7	My agency would seriously consider early actions to reduce nutrients in lieu of NNLI in the next watershed permit only if incentives were offered by other POTWs who do not pursue early actions		
		strongly agree	5
		somewhat agree	4
		indifferent	3
		somewhat disagree	2
		strongly disagree	1
8	BACWA should use the results of this survey to develop a straw-man proposal of key tenets for the 2nd watershed permit, seek consensus of the BACWA membership, and then present that proposal to the Water Board.		
		strongly agree	5
		somewhat agree	4
		indifferent	3
		somewhat disagree	2
		strongly disagree	1
9	BACWA should continue dialogue with the Water Board and wait and see what the 2nd draft of the watershed permit looks like before entering into negotiations		
		strongly agree	5
		somewhat agree	4
		indifferent	3
		somewhat disagree	2
		strongly disagree	1

AGENCY NAME (optional):

BACWA Recycled Water Survey 2015

Agency Name (Recycled Water Producer):

Recycled Water Distributors/Retailers:

CURRENT AND PROJECTED FUTURE AMOUNT OF RECYCLED WATER BY USE CATEGORY (in acre-feet)

	Total Distributed	Confidence (see Note B)	Golf Course Irrigation (See Note C)	Landscape (see Note D)	Commercial (see Note E)	Industrial (see Note F)	Agricultural (see Note G)	Environmental Enhancement (see Note H)	Internal Use (see Note I)	GW Recharge for Indirect Potable Reuse	Surface Water Augmentation	Direct Potable Reuse	Other Non-potable Reuse (See Note J)	RO concentrate or other return flows (see Note K)	Comments
Type of RW (See Note A):															
Current 2015			0	0	0	0	0	0	0	0	0	0	0	0	
Future 2020															
Future 2025															
Future 2030															
Future 2035															
Future 2040															
Future 2045															

2015 MONTHLY RECYCLED WATER DISTRIBUTION DATA BY USE CATEGORY (in acre-feet)

	TOTAL		Golf Course	Landscape	Commercial	Industrial	Agricultural	Environ. Enhancemen	Internal Use	GW Recharge	Surface Water	Direct Potable	Other Non- potable	Return Flows	Comments
January															
February															
March															
April															
May															
June															
July															
August															
September															
October															
November															
December															
TOTAL															

Notes: (See README sheet for more detail)

- A Type of Recycled Water = Untreated wastewater (UW), Primary Disinfected (PD), Secondary Undisinfected (SU), Secondary 23 Disinfected (S23), Secondary 2.2 Disinfected (S2.2), Tertiary Disinfected (TD), Advanced Treatment (AT)
- B Confidence = level of confidence in the values provided. 1 = includes only projects that are currently budgeted; 2 = includes projects that are in master plan; 3 = includes projects that are conceptual
- C Golf Course includes public and private courses including impoundments.
- D Landscape includes parks, sports fields, green belts, landscaped areas, excluding golf courses
- E Commercial includes dual-plumbed projects, fire protection, other uses at commercial facilities not included in other categories
- F Industrial includes cooling towers, process water
- G Agricultural includes irrigation, frost protection, agricultural reservoir augmentation
- H Environmental Enhancement includes wildlife habitat, wetland/marsh applications, natural system restoration
- I Internal Use includes facility process water, site irrigation, internal plumbing, fire protection at facility
- J Other non-Potable Reuse includes salt water intrusion barrier, recreational impoundments, geothermal energy production, dust control, truck fill, residential fill (use comments to describe)
- K Return Flows includes RO concentrate or other return flows to the wastewater treatment plant - please include in comments which use produces return flows

Dear Participating Agencies,

Thank you for filling out the enclosed questionnaire worksheets.

CONTACT INFO:

Mike Falk (Mike.Falk@hdrinc.com; 916.817.4916)

JB Neethling (JB.Neethling@hdrinc.com; 916.817.4830)

Holly Kennedy (Holly.Kennedy@hdrinc.com; 925.974.2617)

OVERVIEW

The purpose of this Data Request is to gather information on planned Capital Improvement Projects (CIP) and costs related to nutrient removal, including secondary treatment and recycled water projects. The primary objective of this request is to clearly identify any existing projects in your CIP or anticipated in the near future that could reduce your nutrient discharge loads (e.g., upgrade of your secondary treatment process, new recycled water project to divert all flow to landscape irrigation, etc.).

We recognize this is a major effort to prepare this data and we appreciate your efforts.

INSTRUCTIONS

CIP RFI worksheet: Please fill out the table with any planned CIP projects (or anticipated) that will impact your treatment process, particularly any nutrient streams. If there is any uncertainty as to whether a particular CIP item will impact the treatment process, please include it for our review. Please also provide a copy of your CIP information if available.

The data request includes an estimate of the future effluent nutrient concentrations, capital and annual O&M data, as well as the level of confidence that the project will actually occur. To provide guidance for estimating the level of confidence, one might consider that if a project is under construction, the level of confidence can be stated at 100%; if it is in an approved, funded 5-year CIP, 75%; if it is in a 20-year master plan, perhaps the confidence is lower at 50%; and so on. Please use your judgment. The intent is to understand how firm the projections are.

Thank you again.

San Francisco Bay Nutrient Management Strategy (NMS) Technical Workgroup Mtg.

Date/Time: June 3, 2016, 10:00 AM to 12:30 PM

Location: San Francisco Estuary Institute, 4911 Central Ave, Richmond, CA

Webconference info: See bottom of page

AGENDA

Agenda Item		Lead	Time
1	Welcome, Introductions and Agenda Review	D Senn	10:00-10:10
2	Information Item: FY17 Program Plan Approval Process <ul style="list-style-type: none">● Recap of Science Advisors Meeting● Process for FY17 Program Plan approval <p><i>Desired outcomes:</i> Informed committee</p> <p><i>Materials:</i> Slides outlining major input received from Science Advisors</p>	D Senn	10:10-10:20
3	Discussion Item: FY17 Program Plan <ul style="list-style-type: none">● Overview of proposed projects for FY17 by theme with discussion<ul style="list-style-type: none">○ Modeling (30 mins)○ Dissolved oxygen (30 mins)○ HABs and toxins (30 mins)● Discussion of the whole suite of proposed studies (15 mins)● Project recommendations for Steering Committee Review (15 mins) <p><i>Desired outcomes:</i></p> <ul style="list-style-type: none">● Feedback on proposed FY17 studies● Concise summary of NTW meeting for the Steering Committee <p><i>Materials:</i> Draft FY17 Program Plan</p>	D Senn	10:20 - 12:20
4	Wrap Up, Review Action Items	D Senn	12:20-12:30
	Adjourn		12:30

Join the meeting: <https://join.me/sfei-conf-cw1>

Audio By phone:

United States - Los Angeles, CA **+1.213.226.1066**

United States - San Francisco, CA **+1.415.655.0381**

Access Code **943-326-397#**

NMS Science Advisor meeting...Overview

1. May 9-10. Participants: Cloern, Harding, Kimmerer, Kudela, Stacey, Sutula
2. Main goals
 - a. Discussion and feedback on FY17 program plan and project priorities. An earlier version of the program plan was shared with advisors, along with the same background materials shared with the NTW and SC in this folder (3_NMS_ProgramUpdate_May2016.pdf)
 - b. Feedback on Science Plan (5_NMS_SciencePlan_March152016_Final.pdf), including response to external reviewer comments (6_NMS_SciencePlan_PeerReviewReport.pdf)
3. FY17 Program Plan
 - a. Presented activities in blocks:
 - i. HAB/phyto related work: ship-based monitoring, mussels, new proposed projects
 - ii. DO/biogeochemistry in Lower South Bay, including moored sensor work
 - iii. Modeling: Core program, proposed additional projects to augment modeling effort
 - iv. Monitoring program development: use of models, program design, insitutional planning
 - b. Discussion and feedback, which have been incorporated into the current program plan
 - c. Feedback presented here on slides 2-5
4. Science Plan discussion
 - a. Reviewer comments, and team's response to comments. See p.6 for overview.
 - b. A ~1-page response will prepared and include with the science plan.

Feedback from Day 1 - HAB-related work

General

- The program focus on HABs is appropriate (responding to comment from Boynton)

Monitoring

- Continue with proposed suite of monitoring elements but, if needed, eliminate or scale back P-TOX.

Studies

- Continue mussel collection and measurements
- New: Convene a workshop on health risks to humans and aquatic species from chronic exposure to low levels of toxins. How big of a problem are HABs in SF Bay? Are there synergistic effects? Frequency/duration effects?
- Additional toxin characterization studies are a lower priority
- Cytobot is a priority. Compare sample splits between CB, pigments, and microscopy. Consider adding sediment incubation to the proposed experiment.
- Growth rate studies are a lower priority at this stage

Feedback from Day 1 - DO

General

- Fish should not be the only species considered when assessing effects of low DO. Bacteria and the nutrient cycling processes that they provide should also be considered.
- In place of a benthic index consider using a benthic camera to assess depth of the oxic layer and bioturbation.
- Use historical ecology to determine fish populations during the 1960s when there was hypoxia and when there were pristine “reference” sloughs.
- Consider calculating SOD using a control volume approach with fluxes into and out of a discrete channel.
- Map which species lives in each part of the Bay (following Chesapeake model). The habitat mapping will have broad application.

Feedback from Day 1 - Modeling

General

- Use simple models. If confident in the hydro model, use it but add a simple nutrients/chl-a model.
- Look at residuals to identify missing processes.
- Use a simple NPZ model, not “BLOOM”.
- Incorporate self-shading by phytoplankton into light attenuation model.
- Get advice from Dave Schoellhamer on how to model SSC in the Bay.
- Share SUNTANS validation plots for salinity.

Projects

- Modeling future scenarios is a priority. Should use a “what if” approach, not forecasting. What conditions would lead to persistent stratification? Instead of trying to model a HAB or specific organisms, limit biology initially to identifying conditions that would allow for a bloom to occur that exhausts all DIN? Complete a basic sensitivity analysis of the model as part of this task.
- LSB slough model may be the highest priority is equally important.
- Suisun model to test NH_4 inhibition is a low priority. Wait for results from new studies. But developing Suisun-Delta biogeochemical model is high priority.

Feedback from Day 2 - Monitoring Program Dev.

Projects

- Strong endorsement → identifying the appropriate monitoring program design, including
 - Model simulations - tracer/blooms, backward trajectory, etc.
 - Analysis of existing data. Exact questions TBD
- Strong endorsement → identifying the best approach for phyto community/HABs detection
 - Accelerate testing and application of IFCB
 - Compare with microscopy, pigments, and DNA-based approaches
 - apply IFCB with water and sediment incubations
- Endorsement of Remote Sensing, caution to temper expectations
- Data management. Group felt strongly that this should be elevated in priority. Data is being managed now and QA/QC'd now. But to take it to a next level, make it available to others, etc., will require a step increase in resources.

Feedback from Day 2 - Peer Review of Science Plan

The reviewers, Walter Boynton and Jim Hagy, are highly regarded scientists and their advice should be taken seriously.

Overall the reviews were supportive of the Science Plan as written. A major effort to update the Plan is not necessary now.

SFEI will prepare a response to the reviewers' comments which shows areas of agreement and provides additional information to answer the questions from the reviewers.

The peer reviewer letters and the response will be placed at the front of the Science Plan, not in an appendix, to ensure that readers see them. The review comments and response will represent the most recent information because some of the material in the Science Plan is getting out of date.

NMS Fundraising and Outreach Strategy

Strategic Overview 2017-2019

Operating Plan 2017

DRAFT

Prepared for the Nutrient Management Strategy Steering Committee

Draft Version. First Draft June 2016; finalized XXX 2016

1. INTRODUCTION

This document is a strategic review of the fundraising and outreach goals and objectives the San Francisco Bay Nutrient Management Strategy (NMS). It includes a 3-year projected outlook and the operational plan for fiscal year 2017 (FY17).

The plan is premised on the fact that current funding levels (~\$1.3 million) are insufficient to answer nutrient-related management questions in the Science Plan as prioritized by regulators, science experts, and the NMS Steering Committee. Further, limited funds have been identified for the development of nutrient load management strategies, under the presumption controls will be likely required at some point in the future to manage an expanding regional population within a sensitive ecosystem. Additional funding will likely be required from grants, local sources, and state and/or federal legislation.

2. GUIDING PRINCIPLES OF OUR FUNDRAISING STRATEGY

This fundraising strategy is informed and guided by the needs of the NMS Strategy, which articulates nutrient-related management objectives for San Francisco Bay and drives development of the Science Plan.¹ Just as our Science Program work enlists top-level scientists who can answer critical management questions, so is our fundraising strategy designed to target funding sources and partners who can most dramatically impact the program.

To this end, the guiding principles for this 3-year strategy:

1. Attract public funds for SF Bay nutrient research, to a level on par with comparable estuaries.
2. Coordinate and influence existing monitoring programs to achieve economies of scale, collect necessary data with limited funds, and enhance regional collaboration.
3. Secure new funding from stakeholders currently unaffiliated with the NMS.
4. Work with existing stakeholders to identify special projects of high priority to both the NMS and individual agencies.

Fundraising and outreach efforts will be initiated and led by the Program Coordination team - drawing expertise and management-level contacts from Steering Committee members and Science Program contacts.

3. GOALS AND OBJECTIVES

The goals for the next three years are:

- Enable full implementation of the NMS Science Plan, to answer identified nutrient-related management questions for San Francisco Bay.

¹ San Francisco Bay Regional Water Quality Control Board. 2012. *San Francisco Bay Nutrient Management Strategy*. Available at <http://sfbaynutrients.sfei.org>

- Secure funds and partnerships necessary to ensure long-term funding of the USGS nutrient monitoring program, or a currently undefined successor program.
- Fund long-range scenario planning for the purposes of potential nutrient reduction efforts and the regional/state/national partnerships necessary for implementation.

The objectives for the next three years are:

- To diversify income streams from sole reliance on funding by the San Francisco Bay Regional Monitoring Program (RMP) and Watershed Permit, through increased in-kind services, new grants, special projects with existing partners, and legislation-based funding.
- To more effectively engage existing stakeholders with access to new funds or funding networks.
- Enter into MOU's with partners to secure the long-term future of the nutrient monitoring program.

4. BUSINESS ASSUMPTIONS

In formulating this plan, we made certain business assumptions:

- The NMS will continue to have significant programmatic impact, in terms of implementing a science program capable of answering necessary management questions.
- The NMS will continue to maintain equivalent or greater support from the San Francisco Bay Regional Water Quality Control Board (Regional Board) and Steering Committee members.
- The NMS Science Program will continue to be housed at the San Francisco Estuary Institute, using external specialists, as appropriate.
- The economic climate in the Bay Area and US will not deteriorate significantly from its current status.

5. FUNDRAISING STRENGTHS, WEAKNESSES, OPPORTUNITIES, AND THREATS

5.1. Strengths

- The quality of NMS Program Staff, housed primarily at the San Francisco Estuary Institute (SFEI), is exceptional and the Science Program claims world-class scientists and technical specialists as partners and collaborators.
- The NMS Steering Committee is comprised of regional leaders in water quality regulation, resource management and regulated entities.
- The NMS Science Program Manager has fostered incredible partnerships with agencies, research institutes and universities, allowing unprecedented collaborations and grant opportunities.
- There are strong, effective ties between NMS Program Staff and the Steering Committee, sufficient for Steering Committee members and partners to serve as NMS ambassadors.

5.2. Weaknesses

- The NMS is dependent on two main funding sources. Fundraising has not to this point been a major priority and capacity and expertise is limited.
- The NMS has weak recognition outside its core constituency of wastewater agencies and a handful of partner agencies.
- Staff members working directly on the NMS are primarily scientist and project managers with little experience tapping external funding resources from disparate sources.
- NMS staff members have limited time for fundraising and need to strike the right balance between Science Program implementation, committee maintenance, fundraising, and coalition building.

5.3. Opportunities

- There is unified agreement among Steering Committee members, partner agencies and informed observers that the regional nutrient monitoring program, led by the USGS, is under threat and a replacement or supplementary funding is required.
- Close ties with nationally-recognized experts in applicable fields enhances collaboration opportunities and the likelihood of securing competitive grant funding.
- Growing awareness, regionally and nationally, that infrastructure, including wastewater, is aging and in need of investment and re-imagination to achieve multiple needs and benefits.
- Access to regional leaders enhances the potential for state legislation or public grant funding, based on the nexus between wastewater, SF Bay ecology and sustainability.

5.4. Threats

- The USGS monitoring program for nutrients, the major source of data for the NMS, is outside our control and may be canceled, resulting in major impacts to finances and data collection.
- Litigation would constrain or eliminate opportunities for fundraising and collaboration.
- Drought, climate change and other regulatory drivers could compete with nutrients for the attention of water and wastewater managers, along with associated funding.

6. EXISTING SUPPORT

During FY16, NMS revenues totaled \$1.28 million, received from three sources: the RMP, Watershed Permit and Program Coordination support from Bay Area Clean Water Agencies (BACWA).

6.1. Regional Monitoring Program

The RMP contributed \$300,000 to the NMS budget in FY16, though \$400,000 was originally allocated. This funding reduction reflects project prioritization and budget shortfalls in the RMP program, while the

intent is for the RMP to contribute a minimum of \$400,000 in FY17 and beyond. This source of funding is variable, however, based on needs of the overall RMP budget and competing priorities.

Additional nutrient-related contributions from the RMP include support for USGS water-quality sampling in the San Francisco Bay. This USGS program, which began in 1969, collects monthly samples between the South Bay and the lower Sacramento River to measure salinity, temperature, turbidity, suspended sediments, nutrients, dissolved oxygen and chlorophyll a. The RMP contributes approximately 20% of the resources necessary to support the USGS data collection program. These contributions are not reflected in the NMS budget, though the San Francisco Bay Nutrient Management Strategy highlighted the need for sustainable funding of a long-term nutrient monitoring program.²

The USGS program is subject to considerable funding constraints, posing a threat to our ability to monitor long-term water quality trends. A programmatic and funding priority of the NMS is to secure lasting funding of the USGS monitoring program, or a comparable successor program.

6.2. San Francisco Bay Watershed Nutrient Permit

The Watershed Permit (Order No. R2-2014-0014) was adopted by the Regional Board on April 9, 2014 and expires on June 30, 2019. This Order requires thirty-four (34) wastewater dischargers to contribute \$880,000 per year towards studies to assess potential impacts of nutrients on San Francisco Bay beneficial uses. This translates into payments from BACWA to SFEI, for support of the NMS Science Program.

This amount was considered appropriate by the Regional Board to support initial science plan development and implementation of receiving water monitoring for nutrients. During the adoption process of this Order, however, it was recognized that additional funds would be required to answer management questions within a reasonable time period and that reassessment of the requisite funding level may be required. To date, formal discussions of reconsidering the funding level have not taken place. In the event the Regional Board and BACWA negotiate either an amendment to the existing Watershed Permit or amended terms for the subsequent 2019 reissuance, the Science Program Manager will identify funding needs to answer priority management questions, to assist inform this process.

6.3. Program Coordination Support

In March 2016, the NMS Steering Committee awarded a 1-year contract to SFEI of \$100,000, provided by BACWA, to fund enhanced program support, including meeting facilitation, fundraising, stakeholder engagement, and scenario planning for potential nutrient load management options. Development and implementation of this Fundraising Plan is included within this work effort.

² San Francisco Bay Regional Water Quality Control Board. 2012. *San Francisco Bay Nutrient Management Strategy*. Available at <http://sfbaynutrients.sfei.org>

Fundraising and scenario plan development are intended as the main work efforts under this contract, which is not at this time slated for renewal in FY18. Expect those activities supported through this 1-year effort to become incorporated elements of the NMS program, with project management and stakeholder engagement representing formal elements of the Science Program, while on-going fundraising and nutrient load management planning will be supported through planned support efforts.

7. PLANNED SUPPORT

From FY17-FY19, the NMS Science Program anticipates support from the RMP and Watershed Permit consistent with the amounts reflected above - \$400,000 and \$880,000, respectively. The NMS Science Plan, however, estimates this represents about half the funds necessary to support a program intended to answer identified management questions. Independent expert reviewers have also identified the existing budget as a major impediment to successful implementation of the Science Program. For example, in FY17, \$2.3 million in projects were identified as high priority needs - exceeding the available budget by approximately \$1 million. To answer all the management questions within a reasonable (~10 year) time horizon, a \$5 million budget may be more appropriate.

Over the next three years, funding shall be sought to address three (3) primary goals:

1. Address identified gaps in the NMS Science Program budget
2. Ensure the continuation of a long-term monitoring program
3. Conduct scenario planning and stakeholder engagement for nutrient load management

To meet these needs, additional funding sources from the following seven (7) categories shall be considered and actively pursued, as appropriate, under the guidance of the NMS Steering Committee.

7.1. Outputs, Desired Outcomes and Milestones

(TO BE COMPLETED PENDING STEERING COMMITTEE FEEDBACK)

Funding Category	Outputs	Outcomes	Milestones
State Funding			
Federal Funding			
New legislation			
Foundations			
Special Projects			
In-Kind Services			

By the September 2016 Steering Committee meeting, updates will be made regarding the short- (1-year) and medium-term (3-year) prospects of new funding through the following six (6) mechanisms.

7.2. State Funding

During the summer of 2016, outreach to the State Water Board, Department of Water Resources and CA Department of Fish and Wildlife will take place, in addition to an overall prospecting process, to explore the various funding mechanisms available through state agencies. This process shall include tabulation of all available funding for aquatic monitoring, such as through the Surface Water Ambient Monitoring Program (SWAMP); examples of projects suitable for Prop 1 funding; options for revolving funds; and other special programs and funds. This effort shall also explore options for supplemental funding mechanisms, such as a Public Goods Charge, as a means to pay for future water investments.

7.3. Federal Funding

During the summer of 2016, outreach will take place to EPA Region 9, EPA's Water Infrastructure Resiliency Finance Center at Cal State Sacramento, the National Oceanic and Atmospheric Administration, and US Fish and Wildlife Service, to assist identifying existing grant funding or innovative funding mechanisms for attracting federal funds, using local matches, where applicable. If time-sensitive grant application opportunities arise, the Steering Committee shall be notified to receive authorization, if significant staff resources are required for the application. All dates of pertinent grant deadlines or other time-sensitive matters shall be tracked and be subject to Steering Committee notification.

7.4. Legislation

Other major estuaries of the nation enjoy large support, via state and federal legislation, for monitoring and implementation of management measures. To date, efforts to expand EPA's San Francisco Bay Water Quality Improvement Fund (WQIF) have sporadically been proposed by Senator Feinstein, which seems to have stalled. And state legislation to fund monitoring projects outside the Delta has become increasingly scarce in California. A concerted effort of NMS Steering Members and staff is necessary if we wish to advance state and/or federal legislation to meet fundraising goals.

Over the summer of 2016, outreach shall occur to appropriate legislative contact to prospect potential sponsors and gauge interest. Over the summer and fall appropriate steps will be made to determine if funding requests to the state legislature are timely and likely to attract support. In parallel, efforts shall be made to reinstate efforts to either expand the WQIF in a manner potentially beneficial to the NMS, or strategize with legislative aids on new federal funding mechanisms.

7.5. Foundations

Foundation funding for the purposes of conducting regulatory-related science is generally elusive. Funding requests more likely to spark interest among the foundation community are those which strive to seek consensus for, and build momentum towards, implementation of wide-scale multi-benefit water resource planning efforts. Within the context of the NMS, this could mean working towards Goal #3 identified in Section 8.0 (*Conduct scenario planning and stakeholder engagement for nutrient load management*).

Potential funding requests could involve the following:

- Building multi-stakeholder coalitions (regulators, elected officials, POTWs, NGOs, unions, trade/business coalitions) for the purposes of building support for drastic changes - and associated funding needs - to our wastewater infrastructure.
- Expansion of water recycling facilities and modernization of policies governing their operation.
- Expansion of treatment wetlands, retention and green infrastructure to meet multiple benefits.
- Building legislative and popular support for bonds and taxes to support urban water infrastructure modernization.

In FY17, the Program Coordination team intends to prospect and approach foundations with interests that align with the goals of the NMS. Proposals shall be drafted, following approval and feedback from the Steering Committee or Planning Subcommittee, as opportunities arise. During FY18, foundation support would hopefully be secured to advance longer-term goals of reducing nutrient loads while meeting additional benefits associated with habitat value, regulatory certainty, water resource availability and other sustainability metrics (e.g. greenhouse gas reduction, public amenities, property value).

7.1. Special Projects

As described in Appendix A (*Approach for Incorporating Projects into the NMS Science Program*) the NMS Science Program anticipates some high priority projects will be funded through mechanisms outside the RMP and Watershed Permit. This is expected to occur primarily in one of two ways: 1) particular stakeholders fund special projects for direct management by SFEI, or 2) particular stakeholders fund special projects and co-manage that project with SFEI.

To qualify for incorporation into the NMS program, Special Projects must either be pre-approved by the Steering Committee or subject to approval, determined by majority vote during Steering Committee meetings or through email. The number of projects and the value of those projects cannot be reliably quantified at this time, though the NMS Science Program hopes to secure funding for two (2) Special Projects in FY17. Beyond that point, the need for Special Project status will hopefully diminish as projects external to the NMS become more closely aligned to the NMS planning and approval process. Nutrient-related projects unaffiliated with the NMS are likely to continue, however, and efforts will be made to incorporate those into the NMS through one of the mechanisms identified in Appendix A.

7.2. In-kind Services

Currently, the NMS engages with several partners to conduct field monitoring and scientific studies. These partnerships result in significant expenditure of in-kind services, which generally go unaccounted for in the existing NMS budget. Enhanced accounting of existing and planned in-kind services does not necessarily increase the funding pool to carry out studies, but helps convey an accurate picture of the NMS Science Program and enables better accounting for the purposes of grant solicitation, enhancing the NMS brand, and demonstrating the breadth of contacts among leading experts.

In-kind support may arise when partners are providing matching funds on approved NMS projects, or where nutrient studies external to the NMS are formally accounted for in the NMS, consistent with the approach established in Appendix A (*Approach for Incorporating Projects into the NMS Science Program*). Accounting of existing and new in-kind services and the development of closer partnerships to facilitate completion of necessary studies are expected to result in the following:

- Accounting of FY17 in-kind support
- Projection of in-kind support in FY18 and beyond
- Formal accounting processes for in-kind support within the NMS budget

Appendix A: Approach for Incorporating Projects into the NMS Science Program

Introduction and Purpose

The Nutrient Management Strategy (NMS) is positioning itself as the central clearinghouse for nutrient-related studies in San Francisco Bay. The Steering Committee (SC) and other workgroups are comprised of representatives of most major entities which either fund or conduct nutrient investigations in the Bay. Pursuant to the NMS Charter, SC members have a responsibility to share pertinent information, with reasonable expectation that if they are conducting independent research or investigations, the scope and need of those projects should be coordinated with the SC or Science Program Manager. To date, coordination on a select number of projects has occurred, though several planned or approved projects are known to be taking place with little NMS coordination.

This memo serves to explore ways in which nutrient research projects are formally incorporated into the NMS structure, while permitting a degree of autonomy to the funding or coordinating agency.

Advantages of Incorporating Projects into the NMS

Advantages of incorporating projects into the NMS Science Program structure include:

- *Peer review* - Projects within the NMS Science Program will benefit from multiple forms of peer review, including the Nutrient Technical Workgroup (NTW), external peer reviewers, and Science Advisors. This includes review and oversight from recognized experts in multiple nutrient science and management arenas.
- *Project management efficiencies* - As a project within the NMS structure, management would take place through the San Francisco Estuary Institute's (SFEI) existing structure, thus achieving economies of scale and other benefits associated with all program management activities taking place through SFEI.
- *Regulatory feedback* - Presentation of projects to the SC permits agency feedback (Water Board, US EPA, state and federal fish and wildlife, etc.) serving to inform stakeholders whether the project is a useful investment and designed to answer critical management questions.

Project Incorporation Scenarios

Foreseeable options for incorporating external projects into the NMS structure include the following:

4. Fully Incorporated NMS Special Project

This preferred scenario involves a stakeholder approaching the Science Program Manager or Steering Committee with an interest in funding a special study through the NMS. The presumption follows that this project would be fully funded by the stakeholder(s) with a particular interest in the project that has

not already been prioritized for completion with NMS funds. Such projects are not subject to SC approval as part of the annual work plan process, though the Steering Committee shall review and approve or reject the project as determined by majority vote during Steering Committee meetings or through email, if necessary. Project rejection occurs when a majority of the SC decides the proposed project is outside the scope or interests of the NMS. Pending approval, the project is managed by the Science Program Manager, subject to oversight and review, consistent with provisions established in the NMS charter.

5. Co-Managed NMS Special Project

In instances where project management duties cannot be fully divested from stakeholder to Science Program Manager, though the project proponent appreciates the benefits of incorporation into the NMS structure, external projects may be co-managed by the Science Program Manager and a designee of the project funder. Projects would be presented to the SC, subject to rejection, as described above.

Co-managed special projects would be recognized in the NMS Science Program budget, though project management duties would be delegated on a case by case basis.

6. Affiliated Projects

Where stakeholders are unable or unwilling to manage projects through the NMS, project briefing on a bi-annual basis is expected of all projects undertaken by SC membership agencies and encouraged by all non-SC member agencies. Briefings will preferably take place during SC meetings, though other venues may be considered and updates may be provided to the Science Program Manager directly, in written or verbal form.

Such projects will not be recognized in the Science Program budget but shall be summarized in Annual Reports. On a case-by-case basis, some of these programs may be considered in-kind support, if they are considered to directly benefit the NMS program.

7. Expansion/Modification of Existing Programs

Where existing monitoring programs (i.e. Integrated Ecological Program) are conducting field monitoring efforts, the opportunity for collaboration and modification of those programs to meet multiple benefits, including needs of the NMS. These efforts shall be subject to agreements and will likely be initiated by the NMS Science Program Manager. Briefings will preferably take place during SC meetings, though other venues may be considered and updates may be provided to the Science Program Manager directly, in written or verbal form.

Such projects may be recognized in the Science Program budget, on a case-by-case basis, depending on the level of support provided by the NMS. All such efforts shall be summarized in Annual Reports.

San Francisco Bay Nutrient Management Strategy (NMS)

Steering Committee Meeting # 9

June 10, 2016

Meeting Summary

Steering Committee Attendees

Organization	First	Last	Role	Present	Comments
BASMAA	Adam	Olivieri	Member		Tom Hall
	Matt	Fabry	Alternate		
	Geoff	Brosseau	Alternate		
BACWA	Ben	Horenstein	Member	X	
	Lori	Schectel	Alternate		
	Jim	Ervin	Member	X	
	Bhavani	Yerrapotu	Alternate	X	
Cal DFW	Becky	Ota	Member		
	Bill	Paznokas	Alternate		
Delta Stewardship Council	Sam	Harader	Member	X	
Napa County Farm Bureau	Jeff	Page	Member	X	
	Debby	Zygielbaum	Alternate		
U.S. Geological Survey	Joe	Holomuzki	Member	X	
NOAA Fisheries	Joe	Dillon	Member		
	Melanie	Harrison	Alternate	X	Via phone
Regional San	Christoph	Dobson	Member		
	Lisa	Thompson	Alternate		
San Francisco Baykeeper	Ian	Wren	Member	X	
SFCWA	Lynda	Smith	Member	X	
	Frances	Brewster	Alternate		
	Stephanie	Fong	Alternate		
U.S. EPA	Terry	Fleming	Member	X	
	Luisa	Valiela	Alternate		
U.S. FWS	Leanna	Zweig	Member	X	Via phone
WSPA	Kevin	Buchan	Member	X	
	Mike	Armour	Alternate		
Central Valley Water Board	Adam	Laputz	Member	X	
	Janis	Cooke	Alternate	X	
	Christine	Joab	Alternate		
SF Bay Water Board	Tom	Mumley	Member	X	
	Naomi	Feger	Alternate		

Additional Attendees

Dave Williams BACWA
David Senn SFEI
Phil Trowbridge SFEI
Rusty Holoman SFEI
Jen Hunt SFEI
Yun Shang EBMUD
Mike Connor EBDA
Karin North Palo Alto

1. **Welcome, Introductions and Agenda Review:** The Facilitator welcomed all attendees and introductions were made. The agenda was reviewed with no changes suggested.

It was confirmed that a quorum was present.

2. Approve Prior Steering Committee (SC) Minutes: The Minutes from SC Meetings #7 and #8 were approved following an edit to Meeting #8 Minutes to indicate that Tom Mumley had attended the meeting. In response to a question as to the future meeting venues, the decision was to continue to rotate the venues between SFEI and the Water Board (WB) offices. **Action Item: Rotate the venue for future SC meetings.**

3. **Action Items:** The new tracking table was presented. It was noted that any outstanding Action Item would be provided with a new date for completion and remain on the tracking table until completed. All Action Items that were due to be completed had indeed been completed except the letter agreement with the USGS and adding the peer review letters to the Science Plan (SP) appendix. Both of these were provided new completion dates.

4. **Program Updates**

- Science Program and Financial update – The Science Manager (SM) provided a brief update. He reported that overall good progress was being made. He will be posting two new positions for hire due to the resignation of Emily Novick, who had been a very valuable member of the team, and the need to hire a modeler.

He then presented a financial update and discussed progress. It was noted that the monitoring program development budgeted for \$50k will move forward into FY 17. Changes to other projects are as follows: Integrated field investigations in subembayments is postponed due to insufficient funds; Identification of Protective Toxin Levels is moved to FY 17; and Identifying Protective Food Quality will be addressed through data synthesis. Ending reserves for FY 16 are projected to be approximately \$335k.

It was noted that the monitoring program development needs to move forward due to the need to have a clear direction for future monitoring. The SM explained that an executive summary of the program is about 75% completed and will provide enough guidance for future monitoring in the short term.

The FY 17 program plan has been in development by over the last several months and has been informed via meetings of the Science Advisors (SA), the Nutrient Technical Workgroup (NTW) and the SC.

- Planning Subcommittee Update – An update on the Planning Subcommittee (PS) activities since the last SC in March was presented. There have been two PS meetings since the last SC meeting with the key activities and discussion items as follows:

- Engagement of SC members
- Follow-up with Regional San on their presentation to the SC
- Decision to defer application for funding from the EPA WQIF
- Bringing funding of other efforts inside the “one tent” concept
- The Program Coordinator (PC) pilot effort has been initiated
- Discussion of new sources of revenues
- Developing the agenda for the SC meeting
- Posted all meeting summaries
- Worked with WB to submit funding request to the SWRCB
- Working with the SM on project prioritization

5. **Technical Update - Science Program**

The SM provided an update starting with a review of the key management questions, major areas of work, and stated what the science team is doing and what they should be doing. The USGS monitoring program has been augmented and the hydrodynamic model has been developed. He briefly reviewed what has been learned to date.

He then presented a “straw man” for components of a future monitoring program which would include the following:

- ship based monitoring for DIN, chl-a, and pigments
- continuation of the existing USGS monitoring program
- continuation of existing monitoring programs by other agencies
- new mooring stations
- toxins in mussels

He then stated the importance of real time monitoring by citing an example of a chl-a bloom which occurred over the Memorial Day weekend. A 40 mg/l chl-a bloom was observed along the Sacramento River. The bloom was also noted in Suisun Bay which is lacking food which raised the question as to why did the bloom happen in Suisun Bay? Were clams not present? These types of episodes can provide valuable information and thus having a cost-effective monitoring program is essential. The SM stated that he is attempting to collaborate with others who are doing their own monitoring to provide access to all data thereby leveraging the many monitoring programs currently being undertaken in the Bay/Delta.

Lower South Bay (LSB): The SM describe a hypothesis regarding DO in this subembayment and why the DO in the deep channels varies from the DO in the shallows. Using high frequency

mapping trips in a zig-zag pattern while measuring DO, chl-a, and NO3 is providing insights as to the why the DO varies. There are also stationary sensors set up in the LSB that show water with different characteristics as the water moves across the sensors. This type of data will help answer questions on the impacts of the salt ponds and their effect on the phytoplankton community. Findings show that when the salt pond gates are opened the chl-a concentrations increase along with an increase in algae that can produce toxins. A concern is that the salt ponds provide an incubator for HABs. Going forward, management of the salt ponds will be a key issue in the LSB.

A question was asked if some of the large Silicon Valley firms should be concerned. The SM pointed out that south of the Dumbarton Bridge, the area of the salt ponds equals roughly the area of the open Bay yet the ponds are only 1/3 as deep and thus they may be acting as an incubator. Large firms have a stake in the water quality issues in the LSB since they depend on a clean, readily available supply of water and treatment of all the wastewater generated by the high tech industry.

In response to a question about old school sampling for toxins in mussels, the SM stated that OEHHHA is doing some of this type of sampling and they are finding moderate to low levels of toxins in mussels.

Modeling Work: The modeling being completed is a 1st order on fate and transport. The SM showed some results of the modeling by showing a video of a conservative tracer for effluent plumes from wastewater treatment plants. Lack of budget is impacting the modeling effort by not allowing the following efforts:

- field investigation for improved mechanistic understanding (nutrient dose/response, nutrient transformations)
- growth experiments with HAB forming species
- biota surveys for condition assessment (DO, toxins)
- identification of future scenarios for higher risk of adverse impacts

A question was asked as to why the jump in microcystin in *Potamocorbula*? The SM responded that it may be due to the drought.

The SM felt that the NMS needs to collaborate on future modeling efforts so that SFEI is not the sole owner of the model such that it can be linked with bigger effort such as those of DWR, USGS, RMP and others and in doing so reap the benefits of multiple participants in the modeling effort.

A question was asked on how to account for clam excretion of ammonia. The SM stated that the model could handle this but an add-on would need to be developed.

6. 2017 NMS Science Program Plan

The discussion started with the SM stating there were three requested actions as follows:

- Approve \$1,535,000 in NMS funding from new revenue and reserves to implement items C.1 – C.6 and P.1 – P.3 in the FY 17 Program Plan.

-Approve Item P.4 for ½ year at a cost of roughly \$38k

-Approve full implementation of items P.4 – P.10 in the FY 17 Program Plan contingent upon necessary funding being secured.

The SM then went on to explain that the anticipated funding from the RMP in the amount of \$500k was not approved and instead only \$350k will be available. A question was asked as to where does more project funding come from? The SM stated that additional funds may come from the SWRCB as a result of a funding request made by the WB for modeling and from other stakeholders

The Facilitator then asked for a straw man vote on the three funding requests. No objections were voiced. The SC was then asked if there were any questions. Five questions were raised as follows:

-For P6 – P10 what are the WB's priorities for these unfunded projects? The WB responded that they are all priority projects and considered must do's in order to inform management decisions.

-What projects were on the bubble and could have gone one way or the other in terms of funding priority?

-What about the Assessment Framework, will these projects provide the data needed to conduct the "test run"?

-Can work in the Delta be leveraged?

-Would like to better understand P5 and P6

The SM then showed the process that lead up to the development of the FY 17 science program. The SA were heavily involved and input was also received from the NTW as well as the SC.

The SM was reminder that one issue that was mentioned by the SP peer reviewers was that pursuing HABs can be a very difficult and costly undertaking. The SM acknowledged that but also indicated that he would not be pursuing individual growth studies as part of the FY 17 SP.

The SM then stated that if all the money (i.e. \$500k) came in from the RMP that he would have \$1.73M in funds which includes \$350k from reserves and he could go all the way to P8. He noted that the major changes from the recommendations of the SA are as follows"

-P6 is now a higher priority

-P5 is a new project for HAB eco-risk

-P1 added strategic planning support

-P10 not recommending a major effort toward controlled experiments, shift towards accelerating cytotob (auto taxonomy) being field ready

-Px removed the remote sensing project, will now be only minor activity (feasibility)

For P7-P10 the SM is actively exploring additional funding. The WB stated that they are fairly confident that roughly \$300k in additional funding will be coming from the SWRCB. The SP is

focusing on 4 areas: HABs, LSB DO biogeochemistry, Modeling, and Monitoring program development.

The SM reminder the SC that the SP is very underfunded with a need of \$3M/yr. and availability being only \$1.4M/yr., especially relative to other programs such as the IEP at \$20M/yr. and the Chesapeake at \$25M/yr.

The Facilitator then asked if there were other questions. Questions and comments followed:

-Take a look at the Columbia River

-The IEP is largely compliance driven.

-How long is the program? The SM responded that it is 10 years but pointed out that one of the peer reviewers cautioned that we should be prepared to let it go longer. Monitoring will be a big expense and it's not clear how long that will continue or what the WB will require.

The Facilitator then went back to the original five questions and started by asking about the projects on the bubble. The SM stated he felt it was important to complete all of the high priority projects and if less funding was available that he would need to move funds out of other efforts. He made the following comments on the "must do" projects that don't currently have funding:

P7. Need to get the impacts of the salt ponds right

P8. In monitoring ambient conditions need to think about events, when something happens, what happen in the Bay

P9. Need to start modeling Suisun Bay now in order to prepare for the Regional San project for removing ammonia that will be coming online in 2018. Right now they there is only 1 FTE funded for modeling plus some collaborative efforts.

Based on these comment, it is hard to draw the line between the green and red projects.

The discussion continued with more question, comments and responses as follows:

Q: On P8 do we know enough that we can get risk based scenarios correct?

R: It's HAB focused so you can argue that you could do either monitoring or modeling first, however we know enough already to begin this work.

Q: It's not unusual for this type of effort to be underfunded. More questions will arise and it's possible the underfunding will grow. How will that be addressed and what is driving the set 10 year scheduled? One approach is that the time to conclude the plan is extended. What are the triggers that could shift the focus and actions? Are simplifying assumptions needed?

C: it seems the SP is linked to the AF and therefore determining the absolute must do's is important.

C: At the NTW meeting the question of what are indicators that the HAB work is being successful or should be concluded? Is there a threshold event? P8 can help address these questions.

Q: How does project modeling mesh with C2 the basic modeling program? You can't model what you don't have the data for. Do we have the needed data now?

R: P13 is the project to get the needed data but we don't have the funds right now. This will be an iterative process. We can do sensitivity analysis to determine what data is the most critical to collect.

C: Regarding DO in LSB, C1, P2, and P3 will generate needed information for P7 and then feed into P8 which would be a multi-year effort.

Q: Do we need a unified monitoring program for the Bay?

R: We would need to develop a strategic plan to put one in place

Following the discussion, the Facilitator asked for a formal vote on the three funding requests. He stated that we needed motions and a vote for the budget adoption.

Sam H. moved all three, the motion was seconded by Ben H. It carried with a unanimous vote.

LUNCH BREAK

7. Discussion Item: NMS Program Coordination, Update on Progress and Discussion of Draft Funding Raising Plan

The Project Coordination Pilot team consists of the SM, Phil Trowbridge, Jen Hunt all from SFEI and Ian Wren as a private consultant. One of the main efforts to be undertaken is bridging the funding gap. The NMS Fund Raising and Outreach Strategy document was presented. It has four main guiding principles as follows:

- Attract public funds for the SF Bay nutrient research, to a level on par with comparable estuaries
- Coordinate and influence existing monitoring programs to achieve economies of scale, collect necessary data with limited funds and enhance regional collaboration.
- Secure new funding from stakeholders currently unaffiliated with the NMS.
- Work with existing stakeholders to identify special projects of high priority to both the NMS and individual agencies.

The three year Goals and Objectives of the Strategy were then presented.

The desired outputs for the first year of the effort are as follows:

- Target public grants, legislation and foundations for funding
- secure matching funds
- secure 2 large grants
- secure special projects from existing stakeholders

Appendix A of the Strategy sets forth an approach for incorporating projects into the NMS SP. Other elements of the plan were also briefly described,

The Facilitator then asked for comments. The following discussion, comments, and Q&A followed:

Q: What are sources of funding for other estuaries?

R: it's a mix of legislation, USGS, EPA support, etc.

C: The Delta IEP is funded thru water contractor's payments for water diversions, while the Columbia River is funded from power generation.

Q: Should we be focusing on just filling the SP gaps or on broader efforts such as recycling and green infrastructure?

R: Many of those alternatives are focused on implementation which have a higher funding priority. The NMS is not ready yet for implementation.

C: Legislation involves a multi-year effort to garner support.

C: The BayKeeper routinely gets request from legislators on the need for new legislation

C: The just past Measure AA has \$25M/yr. for restoration, vital fish, birds and habitat monitoring.

R: Don't hold out hope for AA funds as all are spoken for and are geared towards getting matching funds.

Q: Should we spend time on reaching out to get legislation?

R: We would need to make it politically of interest to legislators and would need to have broad based support. Be wary of this effort being productive.

C: Several million was spent on getting AA passed.

Q: What about Prop 1 or IRWM planning grants?

R: There are no grants for studies within the State except for some research grants for recycled water.

C: There are some Prop 1 ecosystem restoration grants

C: At the State level 206 grants are limited but at the Federal level there are 309 grants. 104B grants at the Federal level are more generic under the Clean Water Act, plus Region IX EPA does not have any of those grant funds available now.

C: Perhaps we should be looking at matching funds and approach Silicon Valley companies like Google and Facebook as they seem to have an environmental bent.

Q: What about US Fish and Wildlife Service? They have about \$300M/yr. and last year \$17M went to California.

C: Maybe we should be thinking smaller at least initially

C: The Alternate Monitoring Program just recently adopted by the WB will provide \$300k/yr. to the RMP, a similar effort could help the NMS.

Q: What about the National Wildlife Foundation?

Q: What about the Delta Science Program funding for modeling?

C: MWD does not have funding. It does independently fund projects but does most of them through the SFWCA but that has been cut recently with reduce water sales

C: There is the possibility of using penalties monies. Up to 50% can be used for Supplemental Environmental Projects funded through the RMP. Nutrient projects could get a portion of those funds but they would have to be settlement ready projects.

C: The LSB discharges are considering funding modeling effort for LSB

8. Information Item: Plus-Delta on NMS After Two Years

It was pointed out that the NMS SP is still in start-up mode. Strides have been made in setting up an annual calendar and budgeting process. This discussion should be continued at the next SC meeting. **Action Item: Agendize the plus-delta discussion for the next SC meeting.**

9. Other Business and Announcements

It was noted that the planning for the Delta Science Program is underway. The hope is to coordinate all science activities within the Delta so that a unified picture of what is going on can be obtained. The SM will be participating in that effort.

The USGS Director of Water came out to visit and he was taken on a Delta trip on the new vessel. His visit provided an opportunity to inform him of the nutrient monitoring program and the need to continue that effort.

Work on the vessel retrofits are continuing and should be done by the end of July

A suggestion was made to have a SC meeting on the vessel at some point in the near future.

10. Review Action Items, Set Future Meeting Dates, and Plus-Delta for Meeting

Action Items from the meeting were reviewed.

SC members thought the discussion on future funding was very worthwhile. They also liked finishing on time. A request was made to not have to use the Google Drive to download future meeting material.

11 Adjourn: The meeting adjourned at 2:45 p.m.

DRAFT

Executive Board Special Meeting Agenda

SF Bay Regional Water Board / BACWA Executive Board Joint Meeting

July 18, 2016 10:00-12:00 PM

SF Bay Water Board, 1515 Clay Street, St. 1400 Oakland, CA

ROLL CALL AND INTRODUCTIONS – 10:00

PUBLIC COMMENT – 10:05

DISCUSSION/OTHER BUSINESS- 10:10

Topic	Goal	Time
1. Nutrients <ul style="list-style-type: none"> a. Optimization and Upgrade studies b. NTW meeting c. Steering Committee d. Assessment Framework technical review and next steps 	<ul style="list-style-type: none"> • Report-out from members facility report workshop; schedule next workshop with RWB • Follow up from NTW meeting and Steering Committee meeting • Next steps on technical review by BACWA consultant 	10:15
2. Collection Systems issues	<ul style="list-style-type: none"> • PSL survey results • Collection system performance metrics 	10:50
3. Drought/Recycling	<ul style="list-style-type: none"> • Update on Prop 1 proposal • State General Order – enrolling 96-011 permittees • SB163 (Hertzberg) – Discuss recycling mandate 	11:00
4. Shallow Water Discharge Permitting	<ul style="list-style-type: none"> • How to facilitate wetlands projects 	11:20
5. EPA Selenium Criteria	<ul style="list-style-type: none"> • Impacts on SF Bay POTWs 	11:30
6. Microplastics and CECs	<ul style="list-style-type: none"> • Recap from SFEI microplastics workgroup • Next steps on State Pilot CECs monitoring 	11:40
7. Risk Reduction	<ul style="list-style-type: none"> • Summer meeting for Risk Reduction progress updates 	11:50
8. Toxicity	<ul style="list-style-type: none"> • Updates from LACSD, State Water Board, or EPA 	11:55

ADJOURNMENT

Sherry Hull

From: Sherry Hull
Sent: Tuesday, June 14, 2016 11:55 AM
To: Sherry Hull
Subject: CEC Survey

----- Forwarded Message -----

Subject:Re: permits committee Tuesday June 14?

Date:Fri, 10 Jun 2016 14:49:58 -0700

From:Rebecca Sutton <rebeccas@sfei.org>

To:Lorien Fono <lfono@bacwa.org>

Hi Lorien - I'm still figuring out my schedule for next week.

In the meantime, regarding potential variability in pharmaceutical concentrations, the existing research suggests that when we work at the population scale, there typically isn't a great deal of variability when it comes to per capita drug use and drug discharge, at least for 24-hour composite samples. We're all humans, so I guess we all get sick the same way and end up taking the same sorts of drugs.

There can be diurnal fluctuation in drug regimens, so we would recommend analyzing 24-hour composites wherever possible. That said, individual facilities may be exploring different questions (such as the effects of different parts of the treatment train) that may lead to use of grab samples. In this case, we'd suggest collecting these samples in a way that accounts for hydraulic residence time. We'd be happy to assist staff to come up with a suitable sample design, as needed.

It's important to note that this isn't an RMP study, we're just here to help different facilities explore their own questions in an efficient and cost-effective way. If enough facilities choose to provide us access to their data, we may be able to provide a regional perspective, but by necessity we would limit our exploration to comparable samples. For example, perhaps we could calculate region-wide per capita pharmaceutical concentrations found in 24-hour composites of final effluent.

Does that help?

Becky

Rebecca Sutton, Ph.D.
Senior Scientist
San Francisco Estuary Institute
4911 Central Avenue
Richmond, CA 94804
<@beckysuttonphd>
510.746.7388

On Wed, Jun 8, 2016 at 1:33 PM, Lorien Fono <lfono@bacwa.org> wrote:

Becky, have you given any thought to my invitation to come to permits committee next Tuesday to solicit participants in the study? It's from 1-3 pm at EBMUD plant. You would not need to stay for the duration.

Also, could you respond to one of our members' concerns about this study that they conveyed to BACWA staff? Their fear is that if you're just taking a handful of samples somewhat ad hoc from different POTWs, and at different points in the treatment process, can these data really be used to draw any conclusions? The concern is that there will be too few samples to be representative, and that more coordination and planning would be needed to have confidence in the results.

Thanks

Lorien

--

Lorien Fono, Ph.D., P.E.


BACWA Regulatory Program Manager

[510-684-2993](tel:510-684-2993)



Central Contra Costa Sanitary District

June 14, 2016

TO: BACWA BOARD MEMBERS
VIA: DAVE WILLIAMS, BACWA EXECUTIVE DIRECTOR
FROM: ROGER S. BAILEY, GENERAL MANAGER 
SUBJECT: BAY AREA RESOURCE RELIABLE TASK FORCE MEETING UPDATE

Issue

The Bay Area, like most of California, is in the midst of a multi-year drought which has raised serious concerns by water purveyors, the business community, elected officials, various interest groups and the public. The eight major water providers within the region (Bay Area Water Supply & Conservation Agency (BAWSCA), East Bay Municipal Utility District (EBMUD), Contra Costa Water District (CCWD), Marin Municipal Water District (MMWD), San Francisco Public Utilities Commission (SFPUC), and Zone 7), in collaboration with the Bureau of Reclamation, are in the process of generating a Drought Contingency Plan to address ways to mitigate drought impacts to the region. More specifically, the plan will highlight how each agency responds to drought declaration, how to leverage existing assets to meet each agency's needs, and perhaps just as importantly, how to optimize existing resources and assets to meet regional needs. To facilitate stakeholders' public input, the water agencies have put together a task force consisting of a diverse set of interest groups, including BACWA. Accordingly, BACWA has designated two members who will need the Board's input for subsequent task force meetings.

Water Agencies' Challenges and Opportunities

As part of the process, each water agency has highlighted its greatest vulnerabilities, challenges and opportunities. The following represents the general focus of those discussions:

A) Vulnerabilities and Greatest Challenges

- Multi-year droughts
- Potential disruption of the State Water Project
- Climate change - the uncertainty and potential threat to supply
- Uncertainty of future demand
- Ability to meet future demand
- Concerns about stranded assets - not putting a lot of money into facilities that may be under-utilized or maybe stranded at some point
- Earthquakes

- The declining reliability of the State Water Project - not just for the annual reliance for supply, but the whole infrastructure itself and its vulnerability

B) Opportunities

- Opportunities for moving water
- Cooperation with regional agencies
- Leverage the existing facilities with inter-tie and facilitate transfer of water.
- Recycled Water
- Indirect / Direct Potable Re-use
- Opportunities for bringing together funding resources to deal with drought mitigation
- Being able to leverage existing infrastructure and investment to move forward

The Unique Role of BACWA

It is commonly acknowledged that under certain scenarios, viz. droughts, 2020 requirements and population growth, there are serious water supply constraints within the region which need to be solved. To the extent that there are water deficits under these scenarios, water agencies are pressured to find viable solutions. Recycled water could be key to the solutions, and the wastewater agencies' role is just as critical; thus, BACWA could play a leading role. However, the BACWA designees to the task force will need input from the Board relative to its collective interests. The following is suggested as a starting point for the Board's consideration:

- How can BACWA facilitate the water agencies in realizing the opportunities outlined?
- What are BACWA's concerns regarding increased utilization of treated wastewater for recycled water (e.g., solids, total dissolved solids (TDS), cost)?
- How can those concerns be addressed to provide win-win solutions?
- Are there business opportunities that could be realized by the respective member agencies?
- What are the constraints / limits for the BACWA representative?

As we deliberate and try to come up with our perspective, we must be mindful of the following:

- Each BACWA member agency is independent
- Each agency may have a different approach to accomplishing its mission
- Each agency may have a different approach or emphasis on resource recovery as set out by their respective board
- Each agency may act independently of another to accomplish its priorities

The next task force meeting is scheduled for September 16th. In preparation for that meeting, your thoughts and input would be invaluable.

BACWA Collection Systems Committee Survey - Should BACWA develop metrics to define "well-performing" collection systems

The Regional Water Board is considering enforcement actions as protection against third party lawsuits for SSOs, if an agency can demonstrate that they are a "well performing" collection system. The benefit to the agency is that the penalty would be less cost than a lawsuit or settlement. The Regional Water Board does not have the staff resources to enforce upon each agency that has an SSO, and needs help to obtain the necessary information to develop an enforcement action in the 60 days after an NOI is issued to a "well performing" collection system by a third party.

It is not guaranteed that a judge would consider an enforcement action as a barrier to a citizen lawsuit. Therefore, it is possible that the committee may work to develop metrics, the Regional Water Board may use them to assess penalties, and agencies will still be subject to third-party lawsuits. However, the term of settlement agreements from previous suits in our Region will expire over the next few years. It is not unreasonable to assume that many agencies will once again be the target of these lawsuits, so the BACWA Collection System Committee may be interested in testing this strategy.

In September 2014, BACWA submitted a proposal to the Regional Water Board that defines a well performing collection system as having a previous 3-year average annual SSO volume reaching surface water of less than 8,500 gallons per 100 miles of sewer per year (this value represents the 75th percentile SSO volume for the 113 Bay Area agencies reporting to CIWQS during the four calendar years 2010-2013). Regional Water Board staff has asked BACWA to provide an additional definition that focuses on sewer repair/replacement programs so as to reward actions rather than favorable soil hydrogeology, system age, and other factors beyond an agency's control. The Collection Systems Committee Leadership is interested in hearing from the members whether they wish to continue this effort.

* Required

1. Agency name *

.....

2. Respondent name *

.....

3. Respondent email address

.....

4. Does your agency agree that the Collection System Committee should develop metrics to define well-performing collection systems? These metrics may be used by the Regional Water Board to assess penalties for SSOs when an agency receives a NOI for a citizen lawsuit. *

Mark only one oval.

	1	2	3	4	5	
Strongly disagree	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Strongly agree

5. Please share any comments or concerns about this approach.

.....

.....

.....

.....

.....

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 Google Forms

5 responses

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Summary

Agency name

City of Concord

City of Hayward

Vallejo Sanitation and Flood Control District

City of Livermore

Castro Valley Sanitary District

Respondent name

Darin Fitzpatrick

Robert Gerena

Ken Taylor

Mike Wells

Tyree Jackson

Respondent email address

darin.fitzpatrick@cityofconcord.org

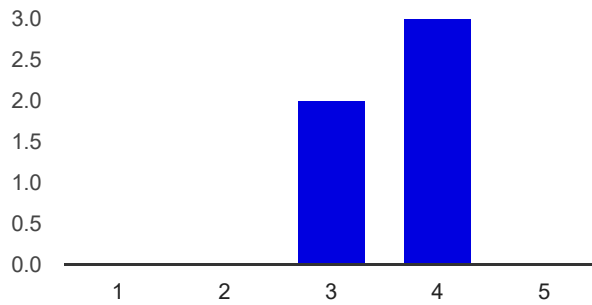
robert.gerena@hayward-ca.gov

ktaylor@vsfcd.com

mswells@cityoflivermore.net

tyree@cvsan.org

Does your agency agree that the Collection System Committee should develop metrics to define well-performing collection systems? These metrics may be used by the Regional Water Board to assess penalties for SSOs when an agency receives a NOI for a citizen lawsuit.

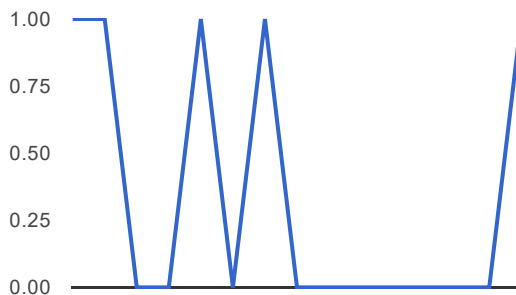


Please share any comments or concerns about this approach.

I see the need to get the Regional Board involved to head off the unreasonable third party lawsuits however, I think we have to be real careful. There are too many variables between agencies Collection Systems to easily develop a one size fits all set of metrics to define a well-performing system. Think about the difference that terrain alone makes in the ability of a collection system to avoid an SSO. With flatter terrain you can put in a number of "Level Sensors" in the field that could give you some advance warning with time to potentially respond to avoid the overflow. You can't do that in more hilly terrain. Both Agencies could be performing at equal levels to diligently avoid overflows and still have different SSO numbers. The Agency with the hilly terrain could have higher SSO numbers but be held to an unreachable standard to be fined from.

Metrics need to reflect variation in budgets, personnel resources, and impacts to community/environment.

Number of daily responses



BACWA AIR Meeting Agenda

June 15, 2016

10:00 am – 1:00 pm

BAAQMD Headquarters
375 Beale Street, Suite 600, San Francisco, CA 94105
Meeting Room #6102 (6th Floor)

- | | |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 10:00 – 10:05 | Welcome & Introduction (Elyse Engel & Brenda Cabral) |
| 10:05 – 10:50 | Clean Air Plan/Regional Climate Protection Strategy (Christianne Riviere)

Prioritization of control measures
How to handle conflicting control measures
How control measures will be implemented |
| 10:50 – 11:35 | Health Risk Screening Assessments (Carol Allen)

Plans to update HRSAs for existing facilities
Model inputs
Design options for limiting risk values |
| 11:35 – 11:50 | Digester Gas Venting (Brenda Cabral)

How this is currently being regulated
When is it considered a violation |
| 11:50 – 12:00 | Lunch Served |
| 12:00 – 12:20 | Concerns Over Organic Waste Diversion Projects (Paul Grazzini)

BAAQMD's response to public complaints
BAAQMD's perception of these projects |
| 12:20 – 12:40 | Hydrogen Sulfide Regulation (Simrun Dhoot)

BAAQMD's primary concerns
Current approach for enforcement of Regulation 9-2 |
| 12:40 – 12:55 | Electronic Reporting Status Update (Kevin Oei) |
| 12:55 – 1:00 | BACWA AIR Business & Closing (Elyse Engel) |

CONSIDER REVISION TO FINDING 34

Option 1: Finding 34 in the Draft Order dated January 21, 2016.

Enrollees under order WQ 2014-0090-DWQ will be transferred for coverage under this General Order. Dischargers covered under other existing orders (water reclamation requirements, master reclamation permits, general or individual waste discharge requirements, or waivers of waste discharge requirements) may continue to operate under that authority until requested by the Regional Water Board to either: (i) continue or expand coverage under existing orders or; (ii) apply for coverage under this General Order.

Option 2: Finding 34 in the Revised Draft Order dated April 22, 2016.

The State Water Board recognizes the need for streamlined permitting consistent with the State Water Board's Recycled Water Policy. The State Water Board's intention in the issuance of this statewide order is to provide consistent regulation of non-potable uses of recycled water statewide. To provide such consistency, the State Water Board intends that regulatory coverage under an existing Regional Water Board general order or conditional waiver for nonpotable uses of recycled water (landscape irrigation, golf course irrigation, dust control, street sweeping, etc.) will be terminated by the applicable Regional Water Board within three (3) years after adoption of this General Order. Enrollees covered by a Regional Water Board general order or conditional waiver for non-potable uses of recycled water may continue discharging under that authority until the applicable Regional Water Board issues a Notice of Applicability to an Administrator per the terms of this Order. Enrollees under order WQ 2014-0090-DWQ will be transferred for coverage under this General Order.

Option 3: Proposed revision to Finding 34

The State Water Board recognizes the need for streamlined permitting consistent with the State Water Board's Recycled Water Policy. The State Water Board's intention in the issuance of this statewide order is to provide consistent regulation of non-potable uses of recycled water statewide. To provide such consistency, the State Water Board intends that regulatory coverage under an existing Regional Water Board general order or conditional waiver for non-potable uses of recycled water (landscape irrigation, golf course irrigation, dust control, street sweeping, etc.) will be terminated by the applicable Regional Water Board within three (3) years after adoption of this General Order.

The State Water Board further intends that regulatory coverage under existing Regional Water Board reclamation requirements, in which a discharger is a recycled water supplier and/or distributor that (1) is covered by a separate order (WDR or NPDES permit) for its recycled water production facilities, and (2) issues permits for non-potable uses of recycled water to other recycled water users, will also be terminated by the applicable Regional Water Board within three (3) years after adoption of this General Order.

Additionally, the State Water Board intends that Master Recycling Permits addressing non-potable uses will be updated by the Regional Water Boards to be consistent with this General Order and

the Recycled Water Policy. Alternatively, Master Recycling Permit holders may enroll under this General Order.

Enrollees covered by a Regional Water Board general order or conditional waiver or reclamation requirements as described above for non-potable uses of recycled water may continue discharging under that authority until the applicable Regional Water Board issues a Notice of Applicability to an Administrator per the terms of this Order. Enrollees under order WQ 2014-0090-DWQ will be transferred for coverage under this General Order.

BACWA talking points for State Water Board hearing for the State General Order on Recycled Water

June 7, 2016

The General Order was adopted on 6/7/16. The outcomes for each talking point below are in italics.

1. BACWA is opposed to Finding 34 because mandatory enrollment of Regional permittees into the State General Order creates new administrative burdens and does not increase the use of recycled Water

The State Water Board considered three options with respect to Finding 34, which are listed on the attached sheet. They chose option 2, where Finding 34 was adopted as written in the April 22, 2016 version of the General Order. All Regional permittees will be required to enroll in the General Order within three years. Individual permittees will not be required to enroll, although the State Water Board stated its intent to require their enrollment in the next permit reopener.

2. If Finding 34 is incorporated into the WRR, the entire order should be reopened for public comment. Many recycled water permittees did not give the proposed General Order the close review they would have had they known that enrollment would be mandatory and impact their current programs.

The State Water Board will not reopen the permit for comments at this time.

3. To mitigate the administrative burden associated with transitioning several dozen enrollees, permittees should be deemed as enrolled at the end of the three year period.

Regional Water Boards will need to review Engineering Reports for existing Regional permittees to determine which ones meet the requirements described in the State General Order. (See Response to Comments at http://www.waterboards.ca.gov/drinking_water/certlic/drinkingwater/documents/recycled_water/rtc_addtl_closed_051316.pdf) Agencies with Engineering Reports that do not meet the requirements will need to update them. BACWA will approach the Regional Water Board about its plans to enroll Regional permittees.

4. Regional Water Quality Control Boards should be given discretion to require or waive the priority pollutant monitoring requirements in the WRR as appropriate. Region 2 just recently adopted an Alternate Monitoring Plan that allows agencies to reduce the routine monitoring of priority pollutants in order to transfer the savings to our Regional Monitoring Program. The concept behind the Alternate Monitoring Plan is that POTW funds are much better used to support emerging contaminants research through the RMP than continuing routine monitoring of historical pollutants in effluent. The WRR's requirement that priority pollutants be monitored regardless of the agency's historical data or local conditions undermines both the Alternate Monitoring Plan as well as the State Water Board's Resource Alignment Effort.

The State Water Board did not change the monitoring requirements because their intent is to make the General Order consistent with the State Recycled Water Policy, which

contains the monitoring requirements. However, the State Water Board plans to reopen the State Recycled Water Policy and adopt revisions in the next 12 to 18 months, and both Board members and Staff agreed that reducing priority pollutant monitoring is a goal for the reopener. This effort will begin in Summer 2016, and will include outreach to Stakeholders. The intent is to then reopen the General Order once the Policy is revised, and before the three-year deadline for enrolling Regional Permittees, so that the monitoring requirements will not impact this group.

5. Since most landscape irrigation is done by spray, the WRR's requirement in Finding 29.h.ii to prevent airborne spray is infeasible. Instead, we recommend that the language be changed that airborne spray should be minimized when the general public are present in the recycled water use area.

The language in the General Order will be changed so that it will be consistent with Title 22.

Specific changes made to the General Order prior to adoption:

- pg 9 Finding 29.b.ii regarding airborne spray – replace with exact wording from Title 22: “Spray, mist, or runoff shall not enter dwellings, designated outdoor eating areas, or food handling facilities”
- pg 20 B.1.f regarding WDRs/NPDES permits – add clause “to the extent that the WDR/NPDES permits address recycled water.
- pg. 24 D.2 regarding anti-degradation – add clause at end of first sentence “in a manner inconsistent with Findings 27-32.”
- pg. 25 D.8 regarding only SWB ED making future revisions to the MRP – Strike “and any future revisions” from first sentence and “Regional Water Board’s Executive Officer, or” from last sentence.
- Attachment D p. D-3 regarding incidental runoff – Add complete verbatim definition from the Recycled Water Policy, i.e. “water leaving an incidental use area”.

Felicia Marcus asked for three things from staff.

- Report back on inspections/enforcement of RW use sites regarding incidental runoff
- Report back on status of current efforts on CECs
- Draft Resolution in August on scope of recommended revisions to the Recycled Water Policy (including public outreach).

Sherry Hull

From: Sherry Hull
Sent: Wednesday, June 8, 2016 10:06 AM
To: Sherry Hull
Subject: Urgent! Letters Needed by June 10 to Oppose SB 163 (Ocean Discharge Ban).
Attachments: SB163Hertzberg.amendmentsJune22016.pdf

From: CASA [<mailto:bsobol@casaweb.org>]
Sent: June 08, 2016 09:10 AM
Subject: Urgent! Letters Needed by June 10 to Oppose SB 163 (Ocean Discharge Ban).



June 8, 2016

Letters Needed Opposing Ocean Discharge Ban

CASA has been leading a coalition in opposition to [SB 163](#) by Senator Bob Hertzberg since it was amended last September to prohibit all ocean discharges in favor of a 100% reuse mandate. The bill is set to be substantially amended again and will now require the State Water Board to develop



regulations to require ocean and bay dischargers to recycle at least 50% of their treated wastewater (relative to inflow) by January 1, 2033.

The bill will also contain several other provisions, including a declaration that failure to comply with these provisions constitutes a "waste and unreasonable use of water" for both ocean and bay dischargers and water suppliers or water replenishment districts.

CASA remains strongly opposed to SB 163, and recommends agencies submit letters of opposition to the Assembly policy committees immediately. The first hearing will be in the the Assembly Environmental Safety and Toxic Materials Committee on June 14. Please send letters as soon as possible so that they're received **by this Friday, June 10**.

Get the [letter template and contact information...](#)

Visit our website: www.casaweb.org

Connect with us:  

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Contact us: (916) 446-0388

AMENDMENTS TO SENATE BILL NO. 163
AS AMENDED IN ASSEMBLY SEPTEMBER 3, 2015

Amendment 1

On page 3, before line 1, insert:

SECTION 1. Section 13557.5 is added to the Water Code, to read:

13557.5. (a) The Legislature hereby finds and declares that, except in compliance with the provisions of this section, it is a waste and unreasonable use of water within the meaning of Section 2 of Article X of the California Constitution to discharge treated wastewater from an ocean or bay outfall, or for a water supplier or water replenishment district to not take treated wastewater made available to the supplier or district for groundwater recharge, surface water augmentation, or landscape irrigation.

(b) On or before January 1, 2020, the state board shall promulgate regulations to require both of the following:

(1) On or before January 1, 2023, each holder of an NPDES permit to submit to the state board the permitholder's plans to achieve beneficial reuse, to the maximum extent possible, of treated wastewater that would otherwise be discharged through ocean or bay outfalls.

(2) On or before January 1, 2033, the beneficial reuse of at least 50 percent of treated wastewater that the NPDES permitholder would otherwise discharge through ocean or bay outfalls relative to the inflow to the treatment plant.

(c) The regulations promulgated pursuant to subdivision (b) shall provide operational and compliance flexibility in the event of an emergency, scheduled maintenance or repairs, extreme weather events, or any other factor that the board determines warrants consideration.

(d) In developing the regulations pursuant to subdivision (b), the state board may convene an advisory group for the purpose of preparing a report or recommendations to the state board about how to implement this section and the state board may consider any other recommendations or testimony provided during the regulation adoption process.

(e) Consistent with Section 3 of Article XIII A of the California Constitution, the state board may adopt reasonable fees payable by a holder of an NPDES permit to recover costs incurred in administering this section.

Amendment 2

On page 3, strike out lines 1 to 19, inclusive, and strike out pages 4 to 7, inclusive

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RN1618481

PROP 1 RESEARCH PROPOSAL – USE OF WETLANDS TO TREAT RO CONCENTRATE

MINUTES

Santa Clara Valley Water District

June 9, 2016

3:00 p.m. – 4:00 p.m.

Conference Call Meeting Number: 1- 888-808-6929; PARTICIPANT CODE: 3075650#

Participants:

Prof. David Sedlak (UCB), Prof. William Mitch (Stanford), Jeremy Lowe (SFEI), Rebecca Sutton (SFEI), Lorien Fono (BACWA), Jeannine Larabee, Luisa Sangines, Ripen Kaur

Objective:

- Assemble a team for preparing a Prop 1 proposal package - including a budget and timeline.
- Funding strategy

Discussion:

Introductions & Background

- Lorien Fono provided background information on the concept proposal and Proposition 1 funding. The goal being to treat RO concentrate to the extent that it would not pose a problem to the south bay. The proposal would target the SWRCB and the lower South Bay agencies with the goal of providing viable options to meet long-term NPDES compliance for CEC's as well as metals, and nutrients.
- Update on meeting with Water Board staff; CEC's – is the focus of the SWRCB

Funding strategy & Budget

- Phased approach – would allow to execute phases based on availability of funding
- Funding portfolio – it is recommended that it be diverse so that funding can be allocated for planning, piloting and research aspects of the project. Issue of Prop 1 not paying for overhead rates for SFEI and universities. University would apply a lower overhead rate.

ROCMP Contract

- Can be a standalone contract, but it would most likely take another 4 to 6 months to go thru the procurement project. Another option is to include this work as an additional task under the SCVWD's RO Concentrate management plan (ROCMP) consultant services contract. SWRCB indicated that as long as the ROCMP services were awarded following a thorough procurement process, it might be advantageous to include this task under the umbrella of that contract, to show matching funds/ effort.

Scope:

- Prof. Sedlak indicated that there are 3 types of wetlands configurations to consider: 1) sub-surface system (like Oro Loma); significant construction project. 2) Open water unit process wetland (Discovery Bay and Santa Ana river); well suited for nutrients and CEC removal; 3) Traditional flow thru with plants; not as effective for trace organics removal.
- At this point the recommendation is to go with an open water wetland.
- Restoration project potential discussion – Prof. Sedlak indicated that restoration projects do not give very good water quality improvements. Better to go with managed engineered system.
- Use of mesocosms versus full size wetlands: it is recommended that we start with a modest small scale closed circuit system (pilot) integrated with AWPC, and then scale up and integrate with landscape. This fits nicely into phased approach.
- Prof Mitch would work on pre-oxidative trace compounds, with the goal of establishing the optimal combination of pre-treatment and wetland treatment to achieve a suitable effluent. His work would involve a flow thru contact basin and ozone /AOP, and other oxidants.
- SFEI will have a role identifying CEC's and will provide more information to Prof. Sedlak regarding their tasks and support
- Need to define the end of the pipe where discharge compliance would apply.

Roles and responsibilities

- BACWA/CSJ (Lorien Fono and Jim Erwin) has the lead regarding putting the package together and overall coordination of the effort.
- SCVWD (Luisa Sangines) has the lead regarding contract management, coordinating scope.
- Research Team (UCB, Stanford University, SFEI) will be in charge of developing the scope of work, defining footprint, and costs.

Timeline & Next steps:

- Develop a scope and costs by Thursday June 16; coordinate by email between now and next meeting
- Next Meeting on July 12, 10:00 am – Lorien coordinating
- Get back to SWRCB with more detail by mid July

Action Items:

- BACWA:
 - a. Write preamble in scope.
 - b. Luisa/Lorien to coordinate next meeting on July 12
- SCVWD:
 - a. Provide a template for scope of work to research team;
 - b. Look into land location options (Pond A18, A17, A4, SVAWPC, near CSJ Outfall)
 - c. Discharge location;
 - d. Consult with Wetlands staff;
 - e. Inquire about restrictions regarding overhead rates under Prop 1
- Research Team:

- a. Develop scope of work (phased) and costs by June 16; Develop scope so that different phases fit into the planning, piloting and research funding categories
- b. Define SFEIs role
- c. Allowable overhead rates
- d. Prof. Mitch to circulate prior research scope draft as a starting point



**2017 BACWA EXECUTIVE BOARD
REGULAR MONTHLY MEETING SCHEDULE**

DATE	TIME	LOCATION
DATE: January 27, 2016 (tentative) <i>(Annual Member Meeting – no regular Board meeting in January)</i>	8:30 – 3:30	TBD
February 17, 2017	9:00 – 12:30	SFPUC, Hetch Hetchy Room
March 17, 2017	9:00 – 12:30	EBMUD Lab Library
April 21, 2017	9:00 – 12:30	SFPUC, Hetch Hetchy Room
May 19, 2017	9:00 – 12:30	EBMUD Lab Library
June 16, 2017	9:00 – 12:30	SFPUC, Hetch Hetchy Room
July 21, 2017	9:00 – 12:30	EBMUD Lab Library
August 18, 2017	9:00 – 12:30	SFPUC, Hetch Hetchy Room
September 15, 2017	9:00 – 12:30	EBMUD Lab Library
October 12-14, 2017 <i>(Pardee Tech Seminar)</i>	TBA	EBMUD Pardee Facility
November 17, 2017	9:00 – 12:30	SFPUC, Hetch Hetchy Room
December 15, 2017 <i>(Holiday Lunch)</i>	9:00 – 2:00	EBMUD Lab Library

Special Board Meetings to be scheduled in 2017:

Joint BACWA/San Francisco Bay Regional Water Board meetings will be scheduled for March, May, July, September, and December.

FEDERAL WATER QUALITY COALITION

ACTIVE PRIORITY PROJECTS AS OF 6/6/16

	PROJECT	DESCRIPTION	STATUS	TASKS/DEADLINES
STANDARDS ISSUES				
1	Revisions to Water Quality Standard Regulation	EPA considering changes to Federal rules governing development of State water quality standards	<ul style="list-style-type: none"> On 7/30/10, EPA issued notice of two listening sessions (on 8/24/10 and 8/26/10) concerning possible changes to 40 CFR 131, EPA's Water Quality Standards Regulation – http://www.regulations.gov/#!documentDetail;D=EPA-HQ-OW-2010-0606-0001 FWQC participated in listening sessions, and had meeting with EPA on 9/7/10 concerning FWQC concerns FWQC comments on notice submitted 9/17/10 – http://fwqc.org/members/DocumentLibrary/Final%20Comments%20on%20EPA%20Notice%20re%20Revisions%20to%20Water%20Quality%20Standards%20Regulation.htm EPA proposed rule issued on 9/4/13 – http://www.gpo.gov/fdsys/pkg/FR-2013-09-04/pdf/2013-21140.pdf FWQC filed comments on 1/2/14 - http://fwqc.org/members/DocumentLibrary/fwqcwaterqualitystandardscomments010214.pdf Final rule issued 8/21/15 - http://www.epa.gov/wqs-tech/final-rulemaking-update-national-water-quality-standards-regulation 	<ul style="list-style-type: none"> Consider possible responses to final rule Monitor implementation of final rule in State standards actions
2	Chloride Criteria	EPA developing recommended aquatic life criteria for chloride	<ul style="list-style-type: none"> EPA developing new criteria guidance for chloride, which are expected to be similar to Iowa standards, sulfate and hardness-dependent EPA expects to issue draft criteria for comment n 2016 	<ul style="list-style-type: none"> Review draft guidance when issued and consider drafting comments
3	Cadmium Criteria	EPA developing revised aquatic life criteria recommendations for cadmium	<ul style="list-style-type: none"> EPA draft revised cadmium criteria issued 12/1/15 - https://www.federalregister.gov/articles/2015/12/01/2015-30493/request-for-scientific-views-on-the-draft-recommended-aquatic-life-ambient-water-quality-criteria Final criteria issued 4/4/16 - https://www.epa.gov/wqc/aquatic-life-criteria-cadmium#2016 	<ul style="list-style-type: none"> Monitor State actions adopting criteria, and possible NGO challenges to criteria based on ESA grounds
4	Biotic Ligand Model Guidance	EPA developing guidance as to default values to use in Biotic Ligand Model to develop water quality standards for metals if data on some parameters not available	<ul style="list-style-type: none"> Draft guidance issued 2/16/16 - http://fwqc.org/members/DocumentLibrary/EPA%20Notice%20on%20Draft%20Guidance%20for%20Use%20of%20Biotic%20Ligand%20Model.htm FWQC filed comments on 4/18/16 - http://fwqc.org/members/DocumentLibrary/Final%20FWQC%20Comments%20on%20Biotic%20Ligand%20Guidance.htm 	<ul style="list-style-type: none"> Review final guidance when issued, and consider next steps

FEDERAL WATER QUALITY COALITION

ACTIVE PRIORITY PROJECTS AS OF 6/6/16

5	Revisions to Selenium Criteria	EPA has issued draft revisions to its recommended aquatic life criteria for selenium	<ul style="list-style-type: none"> • EPA issued new draft criteria document on 5/14/14 – http://www.regulations.gov/#!documentDetail;D=EPA-HQ-OW-2004-0019-0247 • FWQC filed comments on 6/13/14 - http://fwqc.org/members/DocumentLibrary/FWQC%20Comments%20on%20Selenium%20Criteria.htm • New draft criteria issued for comment 7/27/15 – http://www.epa.gov/wqc/aquatic-life-criterion-selenium • FWQC comments submitted on 10/13/15 – http://fwqc.org/members/DocumentLibrary/fwqc-selenium-comments101315.pdf • Supplemental FWQC comments submitted 10/30/15 – http://fwqc.org/members/DocumentLibrary/fwqc-selenium-supplemental-comments103015.pdf • Final criteria expected to be issued in late June 2016, with draft implementation guidance issued for comment at same time 	<ul style="list-style-type: none"> • Review final criteria when issued, consider possible responses • Review draft implementation guidance when issued, plan to develop comments
6	Revisions to Ammonia Criteria	EPA revising ammonia aquatic life criteria to address impacts to freshwater mussels	<ul style="list-style-type: none"> • EPA issued draft revised criteria document on 12/30/09 – http://www.regulations.gov/#!documentDetail;D=EPA-HQ-OW-2009-0921-0001 • FWQC filed comments on 4/1/10 - http://www.regulations.gov/#!documentDetail;D=EPA-HQ-OW-2009-0921-0044 • Final criteria issued on 8/22/13, along with implementation guidance - http://water.epa.gov/scitech/swguidance/standards/criteria/aqlife/ammonia/index.cfm 	<ul style="list-style-type: none"> • Review final criteria document and consider possible responses • FWQC convening small group to assess EPA responses to FWQC comments and to develop recommendations for FWQC to consider as to next steps
7	Human Health Exposure Assessment Guidelines	EPA is updating its Guidelines for Human Exposure Assessment, which affect how EPA develops human health water quality standards	<ul style="list-style-type: none"> • EPA issued draft update of human exposure assessment guidelines on 1/7/16- http://www.epa.gov/osa/guidelines-human-exposure-assessment • FWQC filed comments on 3/22/16 - http://fwqc.org/members/DocumentLibrary/Final%20FWQC%20Comments%20on%20EPA%20Human%20Exposure%20Assessment%20Guidelines.htm 	<ul style="list-style-type: none"> • Scheduling meeting with EPA to review issues in comments
8	Aluminum Criteria	EPA is working on draft revisions to its aquatic life water quality criteria for aluminum	<ul style="list-style-type: none"> • Draft aluminum criteria, based on impacts to freshwater mussels, expected to be issued for public comment in Fall 2016 	<ul style="list-style-type: none"> • Review draft criteria document when issued, and plan to develop and submit comments

FEDERAL WATER QUALITY COALITION

ACTIVE PRIORITY PROJECTS AS OF 6/6/16

9	Conductivity Standards	EPA may adopt stringent WQS for conductivity for application nationally	<ul style="list-style-type: none"> • On 4/12/10, EPA issued notice asking for comment on draft technical report concerning conductivity aquatic life benchmark for Appalachian region • FWQC comments submitted 9/3/10 - http://fwqc.org/members/DocumentLibrary/Final%20FWQC%20Conductivity%20Comments.htm • SAB review issued on 3/25/11 - http://yosemite.epa.gov/sab/sabproduct.nsf/c91996cd39a82f648525742400690127/EEDF20B88AD4C6388525785E007331F3/\$File/EPA-SAB-11-006-unsigned.pdf • Final EPA report issued 5/27/11 - http://cfpub.epa.gov/ncea/cfm/recordisplay.cfm?deid=233809 • On 7/31/12, Federal district court for DC ruled that EPA action in issuing Appalachian conductivity guidance violated the CWA - http://www.cnsenvironmentallaw.com/2012/08/02/show_public_doc.pdf ; decision was appealed to D.C. Circuit • On 7/11/14, D.C. Circuit ruled that the EPA guidance was not final agency action, so it overturned initial decision and dismissed industry challenge to that guidance - https://www.cadc.uscourts.gov/internet/opinions.nsf/D5A1E3CCCB95AABC85257D12004EF5D9/\$file/12-5310-1502014.pdf • EPA is now developing national conductivity guidance that would apply to any area where data are available • Draft guidance will be issued for comment in first half 2016 	<ul style="list-style-type: none"> • Review draft guidance when issued, and plan to develop comments
10	EPA Human Health Criteria Guidance	EPA developing revised criteria guidance for use by States in developing human health water quality standards based on fish consumptions	<ul style="list-style-type: none"> • FWQC has submitted issue papers to EPA regarding human health criteria issues - http://fwqc.org/members/DocumentLibrary/%20Details%20on%20Feb.%207%20Meeting%20with%20EPA%20on%20Fish%20Consumption%20Rates.htm • EPA issued draft revised human health criteria guidance on 5/13/14 – http://www.regulations.gov/#!documentDetail:D=EPA-HQ-OW-2014-0135-0007 • FWQC submitted comments on 8/13/14 - http://fwqc.org/members/DocumentLibrary/Final%20FWQC%20Comments%20on%20EPA%20Human%20Health%20Criteria%20Proposal.htm • EPA issued final guidance on 6/29/15 - http://www.epa.gov/wqc/national-recommended-water-quality-criteria-human-health-criteria-table 	<ul style="list-style-type: none"> • Monitor State and EPA actions on human health standards, and consider filing FWQC comments when appropriate • Continue discussions with ACWA and State agencies about cooperation in addressing concerns re fish consumption standards

FEDERAL WATER QUALITY COALITION

ACTIVE PRIORITY PROJECTS AS OF 6/6/16

11	State Human Health Standards	States developing revised human health water quality standards based on fish consumption; EPA reviewing State proposals to determine if they will be approved or disapproved under CWA	<ul style="list-style-type: none"> • In several States, including Maine, Washington and Idaho, EPA has indicated that the State's human health standards are not stringent enough - http://fwqc.org/members/DocumentLibrary/State%20Fish%20Consumption%20Standards%20-%20Need%20for%20Call.htm and http://fwqc.org/members/DocumentLibrary/idahoepaletter052915.pdf • On 6/19/15, FWQC met with EPA staff to discuss concerns about EPA approach on human health standards – summary of meeting at http://fwqc.org/members/DocumentLibrary/Summary%20of%20Meeting%20with%20EPA%20on%20Human%20Health%20Standards%20-%20and%20July%202%20Call.htm • On 7/7/15, FWQC sent letter to EPA following up on issues discussed at 6/19/15 meeting - http://fwqc.org/members/DocumentLibrary/Final%20Letter%20to%20EPA%20re%20Human%20Health%20Standards.htm • Draft Idaho criteria issued by State DEQ on 10/7/15 – Proposed Rule and Notice • FWQC comments on Idaho proposal submitted 11/6/15 – http://fwqc.org/members/DocumentLibrary/fwqcidahocomments110615.pdf • Final Idaho rule adopted 12/8/15 - http://www.deq.idaho.gov/media/60177712/58-0102-1201-pending-rule-adoption-notice-1215.pdf • EPA issued proposed criteria for Washington State on 9/14/15 – http://www.gpo.gov/fdsys/pkg/FR-2015-09-14/pdf/2015-22592.pdf • FWQC comments on EPA WA proposal submitted 12/28/15 - http://fwqc.org/members/DocumentLibrary/fwqcwashcomments122815.pdf and (with other organizations) - http://fwqc.org/members/DocumentLibrary/groupwashcomments122815.pdf • WA State issued its own proposed human health standards on 2/1/16 - http://lawfilesext.leg.wa.gov/law/wsr/2016/05/16-04-092.htm • FWQC comments on WA State proposal submitted 4/22/16 - http://fwqc.org/members/DocumentLibrary/fwcqwashecolgyfishcomments0422156.pdf • EPA issued proposed criteria for Maine on 4/20/16 - https://www.federalregister.gov/articles/2016/04/20/2016-09025/proposal-of-certain-federal-water-quality-standards-applicable-to-maine?utm_campaign=subscription+mailing+list&utm_medium=email&utm_source=federalregister.gov • Comments on proposed Maine standards due on 6/20/16 	<ul style="list-style-type: none"> • Continue to monitor State actions on proposed human health standards and EPA actions to approve or disapprove; file comments and consider other actions as appropriate
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FEDERAL WATER QUALITY COALITION

ACTIVE PRIORITY PROJECTS AS OF 6/6/16

12	Nutrient Water Quality Criteria & Guidance	EPA working with States on development of aquatic life criteria for nutrients	<ul style="list-style-type: none"> • On 3/16/11, EPA issued guidance on a recommended framework for State nutrient reductions - http://www.epa.gov/nutrient-policy-data/working-partnership-states-address-phosphorus-and-nitrogen-pollution-through • In Sept 2013, EPA issued guidance on an approach to numeric nutrient criteria that integrates causal and response parameters - http://www2.epa.gov/sites/production/files/2013-09/documents/guiding-principles.pdf • EPA has issued toolkit of resources to be used by States in developing numeric nutrient criteria - http://www2.epa.gov/nutrient-policy-data/toolkit-resources-provide-states-flexibility-adopting-and-implementing-numeric • Association of Clean Water Administrators (ACWA) has also issued toolkit of nutrient criteria resources - http://www.acwa-us.org/#!/__nnc-toolkit • FLORIDA: EPA has approved Florida DEP's numeric nutrient standards for some waters - http://www.dep.state.fl.us/water/wqssp/nutrients/; State and EPA actions have been challenged in court and upheld • MONTANA: State developed a nutrient standards rulemaking package that includes state-wide nutrient variances – http://deq.mt.gov/wqinfo/standards/NumericNutrientCriteria.mcp ; On 2/26/15 , EPA issued a letter to Montana approving the State actions - file:///C:/Users/Valued%20Customer/Downloads/MT_NutrientRulesActionLTR%20(1).pdf; On 5/31/16, NGOs filed a suit challenging EPA's approval of the nutrient variances - http://www.uppermissouriwaterkeeper.org/lawsuit-challenges-epa-approval-of-weak-montana-pollution-rule/#.VIN8e5ErIhc • IOWA: On 5/29/13, Iowa DNR issued a final Nutrient Reduction Strategy - http://www.nutrientstrategy.iastate.edu/ • OHIO: State has developed Nutrient Strategy, and has formed a Technical Advisory Group to assist in develop water quality standards - http://epa.ohio.gov/dsw/wqs/NutrientReduction.aspx • CONNECTICUT: State has convened stakeholder group to assess options for phosphorus reductions to attain aquatic uses, which had science report prepared by independent group, Connecticut Academy of Science and Engineering - http://www.ctcase.org/reports/phosphorus/phosphorus.pdf • ILLINOIS: Illinois EPA has issued a final Nutrient Reduction Strategy: http://www.epa.illinois.gov/topics/water-quality/watershed-management/excess-nutrients/nutrient-loss-reduction-strategy/index 	<ul style="list-style-type: none"> • Continue monitoring EPA and State activities on nutrient issues • Assess need for FWQC comments or other involvement as appropriate
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FEDERAL WATER QUALITY COALITION

ACTIVE PRIORITY PROJECTS AS OF 6/6/16

13	Gulf of Mexico / Mississippi River Basin Numeric Nutrient Criteria	Environmental groups seeking to have EPA impose numeric nutrient standards for Gulf of Mexico and Mississippi River basin	<ul style="list-style-type: none"> • On 7/29/11, EPA denied petition by environmental groups requesting Federal nutrient water quality standards and TMDLs for Mississippi River basin and Gulf of Mexico - http://fwqc.org/members/DocumentLibrary/missnutrientsepaletter072911.pdf • Environmental groups filed suit challenging EPA denial of petition as to setting of nutrient standards; FWQC and other groups intervened in support of EPA • On 9/20/13, court issued decision - http://fwqc.org/members/DocumentLibrary/gulfnutrientdecision092013.pdf • Court held that EPA has to make a “necessity” determination, but that EPA can base that decision on a broad range of factors; gave EPA 180 days to issue determination • EPA appealed the decision, and on 4/7/15, the Fifth Circuit ruled - http://fwqc.org/members/DocumentLibrary/gulfnutrientappealsdecision040715.pdf • The Fifth Circuit held that “EPA may decline to make a necessity determination if it provides an adequate explanation, grounded in the statute, for why it has elected not to do so.” The Court of Appeals then remanded the case to the lower court, so that court could decide if EPA has provided that “adequate explanation.” • NGO brief in district court remand filed on 9/21/15 - http://fwqc.org/members/DocumentLibrary/198-2.pdf • EPA response brief filed on 11/20/15 - http://fwqc.org/members/DocumentLibrary/gulfcaseepabrief112015.pdf • Intervenor brief for regulated party group filed on 1/14/16 - http://fwqc.org/members/DocumentLibrary/gulfintervenorbrieffinal011416.pdf • NGO reply brief filed 2/15/16 - http://fwqc.org/members/DocumentLibrary/gulfngoreplybrief021516.pdf • EPA reply brief filed on 4/15/16 - http://fwqc.org/members/DocumentLibrary/gulfremandepabrief041516.pdf • Intervenor reply brief filed on 4/15/16 - http://fwqc.org/members/DocumentLibrary/gulfremandintervenorbrieffinal041516.pdf 	<ul style="list-style-type: none"> • Await court decision on remand from Court of Appeals, review decision when issued and consider next steps if needed
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FEDERAL WATER QUALITY COALITION

ACTIVE PRIORITY PROJECTS AS OF 6/6/16

PERMIT ISSUES

14	Pinto Creek – Permits for New Sources Issue	Ninth Circuit Court of Appeals issued stringent ruling on issuance of permits for new sources on impaired waters	<ul style="list-style-type: none"> • Ninth Circuit ruling issued on 10/4/07 – http://www.ca9.uscourts.gov/datastore/opinions/2007/10/03/0570785.pdf • FWQC and others filed <i>amicus</i> briefs supporting Carlota Copper’s petition for Supreme Court to take the case • Supreme Court denied <i>cert.</i> on 1/22/09, refusing to take case for review • EPA now indicating that it does not plan to revise Federal rule that was interpreted in Pinto Creek case – 40 CFR 122.4(i) 	<ul style="list-style-type: none"> • Monitor permit developments in States to determine how agencies are addressing permits for new sources to impaired waters • If need arises, consider contacts with EPA about possible proposed rule or guidance to address permitting concerns
15	Stormwater Numeric Limit Guidance	EPA issued new guidance on issuance of numeric limits for stormwater discharges in NPDES permits	<ul style="list-style-type: none"> • EPA issued new guidance on 11/12/10 concerning issuance of water quality-based limits in stormwater permits – http://www.epa.gov/npdes/pubs/establishingtmdlwla_revision.pdf • Guidance revises elements of previous stormwater guidance issued in 2002 – instead of numeric limits being imposed “only rarely,” they should now be used “where feasible” • EPA decided on 3/17/11 to accept comments on guidance – http://www.epa.gov/npdes/pubs/sw_tmdlwla_comments.pdf • FWQC filed comments on 5/16/11 – http://fwqc.org/members/DocumentLibrary/Stormwater%20Developments%20%20-%20EPA%20Numeric%20Limits%20Memo%20%20New%20Draft%20Construction%20Permit.htm • EPA issued final guidance on 11/26/14 - http://www.epa.gov/tmdl/establishing-total-maximum-daily-load-tmdl-wasteload-allocations-wlas-storm-water-sources-and 	<ul style="list-style-type: none"> • Monitor implementation of final guidance in permit actions, and consider further actions on this issue as appropriate
16	NPDES Update Rule	EPA making changes in procedures for issuance of NPDES permits	<ul style="list-style-type: none"> • Proposed rule issued 5/18/16 - http://fwqc.org/members/DocumentLibrary/npdesupdateruleproposal051716.pdf • Comments due 7/18/16 • FWQC call set for 6/10/16 to discuss development of comments 	<ul style="list-style-type: none"> • Develop and submit comments, then meet with EPA to discuss concerns over rule

FEDERAL WATER QUALITY COALITION

ACTIVE PRIORITY PROJECTS AS OF 6/6/16

17	Multi-Sector General Permit (MSGP)	EPA developing next version of general permit for stormwater discharges from industrial activities	<ul style="list-style-type: none"> • Draft of permit issued on 9/27/13 - http://cfpub.epa.gov/npdes/docs.cfm?document_type_id=9&view=Example%20and%20General%20Permits&program_id=6&sort=name • FWQC filed comments on 12/26/13 - http://fwqc.org/members/DocumentLibrary/fwqcmmsgpcomments122613.pdf • Final permit issued on 6/16/15- http://www.epa.gov/npdes/stormwater-discharges-industrial-activities#msgp • Several NGOs have filed suits challenging MSGP, which have been consolidated in Second Circuit Court of Appeals • FWQC and Federal StormWater Association (FSWA) filed motion to intervene in cases, in support of EPA, on 7/30/15 - http://fwqc.org/members/DocumentLibrary/FILED%20-%20FWQC%20FSWA%20Intervention%20 • Motion to intervene granted 8/4/15 - http://fwqc.org/members/DocumentLibrary/msgpinterventionorder.pdf • Parties have agreed to try mediation process to resolve NGO claims • Parties, including FWQC/FSWA, have had meetings with mediator, as well as separate conference calls, to try to resolve issues - ongoing 	<ul style="list-style-type: none"> • Continue to participate in mediation process • If mediation process is not successful, will file intervenor brief in support of EPA against NGO claims
18	E-Reporting Rule	EPA developing proposed rule that would require electronic submittal of DMRs and other reports	<ul style="list-style-type: none"> • Proposed rule issued 7/30/13 – http://www.regulations.gov/#!documentDetail;D=EPA-HQ-OECA-2009-0274-0097 • FWQC filed comments on 12/12/13 - http://fwqc.org/members/DocumentLibrary/fwqcereportingcomments121213.pdf • On 12/1/14, EPA issued notice asking for additional comment on issues related to the e-reporting rule - http://www.regulations.gov/#!documentDetail;D=EPA-HQ-OECA-2009-0274-0374 • FWQC filed comments as to EPA notice on 1/30/15 - http://fwqc.org/members/DocumentLibrary/Final%20FWQC%20Comments%20on%20EPA%20Notice%20re%20E-Reporting%20Rule.htm • Final rule issued 10/22/15 - http://www.epa.gov/compliance/final-national-pollutant-discharge-elimination-system-npdes-electronic-reporting-rule 	<ul style="list-style-type: none"> • Review final rule and consider possible responses • Monitor implementation of final rule in States

FEDERAL WATER QUALITY COALITION

ACTIVE PRIORITY PROJECTS AS OF 6/6/16

19	Whole Effluent Toxicity (WET)	EPA and States including WET testing requirements and limits in permits	<ul style="list-style-type: none"> • Draft WET implementation guidance issued 12/28/04 – at http://www.epa.gov/npdes/pubs/wet_draft_guidance.pdf • FWQC comments on draft guidance submitted on 3/31/05 • EPA has issued guidance on “Test of Significant Toxicity” (TST) approach to determining if discharges have WET “reasonable potential” and therefore receive permit limits for WET - technical document at http://www.epa.gov/npdes/pubs/tst-techdoc.pdf , implementation document at www.epa.gov/npdes/pubs/wet_final_tst_implementation2010.pdf • California State Water Resources Control Board has issued draft WET policy, applying EPA’s TST guidance – http://www.waterboards.ca.gov/water_issues/programs/state_implementation_policy/tx_ass_cntrl.shtml ; comments have been submitted, and public hearing held; TST guidance now being applied in permits, and challenges to those permits and to State WET policies are pending • On 5/24/12, EPA issued a WET Spreadsheet, which can be used to determine reasonable potential and to assess permit compliance - http://cfpub.epa.gov/npdes/docs.cfm?view=allprog&program_id=45&sort=date_published 	<ul style="list-style-type: none"> • Monitor WET developments in States, and consider filing comments as appropriate • Assess EPA WET Spreadsheet and consider possible steps to address concerns
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FEDERAL WATER QUALITY COALITION

ACTIVE PRIORITY PROJECTS AS OF 6/6/16

TMDL ISSUES

20	TMDL Vision	EPA developing long-term vision for 303(d) listing and TMDL programs	<ul style="list-style-type: none"> EPA has issued draft document setting forth long-term vision for 303(d)/TMDL program - http://fwqc.org/members/DocumentLibrary/tmdl%20vision%20document%200612.pdf FWQC comments submitted to EPA 7/22/12 - http://fwqc.org/members/DocumentLibrary/fwqc%20tmdl%20vision%20comments%20072212.pdf FWQC met with EPA regarding comments on 4/29/13 Revised draft “vision document” issued in August 2013 - http://fwqc.org/members/DocumentLibrary/tmdlvisionplandraft061813.pdf Final “vision document” issued on 12/5/13 - http://www.epa.gov/tmdl/new-vision-cwa-303d-program-updated-framework-implementing-cwa-303d-program-responsibilities 	<ul style="list-style-type: none"> Continue contacts with EPA staff as Agency continues steps in implementing vision document Schedule call with State agencies to discuss their plans for implementing new TMDL vision in their programs
21	Guidance on Revision and Withdrawal of TMDLs	EPA developing guidance to States on revising and withdrawing TMDLs	<ul style="list-style-type: none"> Draft guidance issued by EPA on 3/22/12 – http://www.epa.gov/tmdl/draft-considerations-revising-and-withdrawing-tmdls FWQC filed comments on 5/10/12 – http://fwqc.org/members/DocumentLibrary/fwqc%20tmdl%20guidance%20comments%20051012.pdf FWQC discussed comments in meeting with EPA on 4/29/13 	<ul style="list-style-type: none"> Continue contacts with EPA staff regarding comments Review final guidance when issued, and consider next steps
22	Guidance on Multijurisdictional TMDLs	EPA developing guidance to States on development of TMDLs that apply to multiple jurisdictions	<ul style="list-style-type: none"> Draft EPA guidance issued on 3/22/12 – http://www.epa.gov/tmdl/draft-considerations-development-multijurisdictional-tmdls FWQC filed comments on 6/5/12 – http://fwqc.org/members/DocumentLibrary/fwqc%20multi%20tmdl%20comments%20060512.pdf 	<ul style="list-style-type: none"> Continue contacts with EPA staff regarding comments Review final guidance when issued, and consider next steps
23	Guidance on Antidegradation Listings	EPA developing guidance on application of antidegradation requirements in 303(d) lists	<ul style="list-style-type: none"> On 9/3/13, EPA issued guidance to States on development of 303(d) lists of impaired waters that are due to EPA in April 2014 - http://www.epa.gov/sites/production/files/2015-10/documents/final_2014_memo_document.pdf Guidance states that Outstanding National Resource Waters (ONRWs) can be listed if there is any degradation in water quality EPA is developing additional guidance on how antideg requirements should be applied in making 303(d) listing decisions 	<ul style="list-style-type: none"> Develop FWQC position paper on use of antideg in listing process Meet with Agency staff and submit comments as appropriate

FEDERAL WATER QUALITY COALITION

ACTIVE PRIORITY PROJECTS AS OF 6/6/16

OTHER ISSUES

24	PCB Test Method	EPA and States are increasing use of Method 1668 to test for presence of PCBs in water discharges	<ul style="list-style-type: none"> • On 9/23/10, EPA issued notice proposing to approve Method 1668 – https://www.federalregister.gov/articles/2010/09/23/2010-20018/guidelines-establishing-test-procedures-for-the-analysis-of-pollutants-under-the-clean-water-act • FWQC comments submitted 12/22/10 – http://fwqc.org/members/DocumentLibrary/Final%20FWQC%20Comments%20on%20EPA%20Approval%20of%20Test%20Method%201668C%20for%20PCBs.htm • FWQC met with EPA about 1668 issues on 6/1/11 • On 5/18/12, EPA issued final rule approving other methods, which did not approve 1668 - http://www.gpo.gov/fdsys/pkg/FR-2012-05-18/pdf/2012-10210.pdf • EPA has indicated that it has no plans to issue approval of 1668 • States are requiring use of 1668 in permit monitoring provisions • On 5/18/12, FWQC submitted comments to NY DEC, raising concerns about requiring testing using 1668 in State permits - http://fwqc.org/members/DocumentLibrary/fwqc%20nygm%20comments%20051812.pdf 	<ul style="list-style-type: none"> • Monitor status of 1668 at EPA, and if Agency moves forward, engage with EPA staff • Monitor actions of States to require use of 1668 in permits, and provide support to FWQC members as appropriate
25	Methods Update Rule	EPA periodically reviews and updates its approvals of test methods for CWA use	<ul style="list-style-type: none"> • On 2/19/15, EPA issued notice proposing updates of some approved methods, addition of new approved methods, and revised Minimum Level (ML) procedure - http://water.epa.gov/scitech/methods/cwa/mur2015.cfm • FWQC submitted comments on 5/20/15 - http://fwqc.org/members/DocumentLibrary/Final%20Comments%20on%20EPA%20Methods%20Update%20Rule.htm • EPA is considering making changes in MDL procedure in final rule 	<ul style="list-style-type: none"> • Follow up with EPA on issues raised in comments • Submit letter to EPA re changes in MDL procedure that EPA is considering
26	Sensitive Test Methods Notice	EPA considering requiring of “sufficiently sensitive” test methods in NPDES applications and reports	<ul style="list-style-type: none"> • On 6/23/10, EPA issued a proposed revision to NPDES rules, requiring use of “sufficiently sensitive test methods” - https://www.gpo.gov/fdsys/pkg/FR-2010-06-23/html/2010-15254.htm • FWQC submitted comments on 8/9/10 - http://fwqc.org/members/DocumentLibrary/EPA%20Issues%20Sufficiently%20Sensitive%20Method%20Rule.htm • Final rule issued by EPA on 8/19/14 - https://www.federalregister.gov/articles/2014/08/19/2014-19265/national-pollutant-discharge-elimination-system-npdes-use-of-sufficiently-sensitive-test-methods-for 	<ul style="list-style-type: none"> • Consider possible responses to final rule

FEDERAL WATER QUALITY COALITION

ACTIVE PRIORITY PROJECTS AS OF 6/6/16

27	Waters of US Guidance	EPA developing guidance on scope of “waters of the United States” for Clean Water Act regulatory and permitting purposes	<ul style="list-style-type: none"> • EPA draft guidance issued for comment on 5/2/2011 - https://www.gpo.gov/fdsys/granule/FR-2011-05-02/2011-10565 • FWQC comments submitted on 7/30/11 – http://fwqc.org/members/DocumentLibrary/waters%20of%20us%20comments%20073011.pdf • On 9/17/13, EPA announced that it would not issue final guidance; instead, it would issue a proposed rule • EPA proposed rule issued on 4/21/14- http://www.gpo.gov/fdsys/pkg/FR-2014-04-21/pdf/2014-07142.pdf • FWQC filed comments on proposal on 11/14/14 - http://fwqc.org/members/DocumentLibrary/Final%20FWQC%20Comments%20on%20Waters%20of%20US%20Rule.htm • EPA published final rule in Federal Register on 6/29/15 - http://www2.epa.gov/cleanwaterrule/documents-related-clean-water-rule#the%20final%20rule • Numerous legal challenges to final rule filed in Courts of Appeals and District Courts throughout country • All Court of Appeals cases have been consolidated in Sixth Circuit, which has issued a nationwide stay of the rule, so rule is not currently in effect • District Court cases have not been consolidated, and are in various stages of briefing on process issues, before any briefing of merits • Sixth Circuit decided on 2/22/16 that challenges should be heard in that court rather than in District Courts - http://www.ca6.uscourts.gov/opinions.pdf/16a0045p-06.pdf • Rehearing <i>en banc</i> of Sixth Circuit case denied on 4/21/16 • Sixth Circuit panel has asked parties for proposals as to schedule for briefing of merits • EPA is now seeking to have challenges in other courts dismissed, so that all issues will be decided by Sixth Circuit – motions are pending 	<ul style="list-style-type: none"> • Continue to monitor developments in litigation, to keep members apprised and to assess whether FWQC involvement would be appropriate at some stage in process (which will likely end up with briefing of merits before Supreme Court) • If nationwide stay is dissolved, schedule meeting with EPA (which was planned before stay was issued), to discuss issues and questions concerning implementation of rule
28	Report on Hydrologic Alteration	EPA and USGS are developing a report on how to protect aquatic life from the effects of hydrologic alteration	<ul style="list-style-type: none"> • Draft report issued 3/1/16 - http://fwqc.org/members/DocumentLibrary/hydroalterationfedregnotice.pdf • Comment period extended until 6/17/16 	<ul style="list-style-type: none"> • Develop and submit comments

Sherry Hull

From: Sherry Hull
Sent: Tuesday, June 14, 2016 11:22 AM
To: Sherry Hull
Subject: sponsorship opportunity with PPIC's Water Policy Center
Attachments: David Williams_PPIC 2016.pdf; PPIC Water Policy Center_ Case for Support 2016.pdf; PPIC Water Policy Center Impacts Insert.pdf; California's Water PPIC Briefing Kit.pdf

From: Ellen Hanak [<mailto:hanak@ppic.org>]
Sent: Thursday, May 12, 2016 6:11 PM
To: David Williams <dwilliams@bacwa.org>
Cc: Hannah Noonan <noonan@ppic.org>
Subject: RE: A sponsorship opportunity with PPIC's Water Policy Center

Hi Dave,

Thanks very much for getting back to me. I've been out of the office much of this week, and am hoping we might find a time to check in by phone next week. To that end I've cc'ed my assistant Hannah Noonan who can help find a good time.

Meantime, so that you have more background about this opportunity, we've sent you a packet in the mail with the relevant materials. And for good measure, I'm attaching them here: a cover letter describing the sponsorship opportunity, a couple of short documents that describe the Water Policy Center and some of our recent work, and a PDF version of the current briefing kit on *California's Water* which we are planning to update for fall 2016.

I look forward to talking with you, hopefully sometime next week.

With kind regards,

Ellen

PS here is a link to the briefing kit: <http://www.ppic.org/main/publication.asp?i=1130>



May 11, 2016

David R. Williams
Executive Director
Bay Area Clean Water Agencies
P.O. Box 24055, MS 59
Oakland, CA 94623

Dear David, *David,*

California's water landscape is unpredictable and challenging—yet ripe for reforms that will help the state adapt to change. The PPIC Water Policy Center spent its first year exploring the state's complex water challenges from many angles, and producing information designed to bring key players quickly up to speed and enable more informed engagement on the issues. We contributed to the state's water debate with rigorous in-depth research, personal interaction, fact-based briefs, and public events.

The PPIC Water Policy Center briefing kit, *California's Water*, is the only resource of its kind that presents nonpartisan, objective research addressing the most pressing water issues facing our state. From climate change to managing drought to paying for water services, *California's Water* captures the latest research and enables informed decision making. First published last April, the briefing kit received an enthusiastic response from decision makers, members of the media, and water stakeholders from all corners of the state and nationally. To date we have distributed more than 4,000 copies, and there have been more than 25,000 online views.

We are now seeking a consortium of sponsors to support a significant update of this important resource, to be released this fall. California's water policy challenges have been evolving with the latest drought, and new urgent issues—such as managing forests and watersheds, the Colorado River, and the links between water and energy use—will be included in the 2016 update.

Please join us as a sponsor of the 2016 *California's Water* briefing kit at the \$10,000 level. All sponsors will be featured prominently on the briefing kit and on PPIC's website. Supporting the briefing kit is an excellent opportunity to connect with a broad community of policymakers and other leaders committed to improving water policy in California.

Members of the PPIC Water Policy Center team will follow up with you shortly about this important opportunity. In the meantime, please feel free to contact me directly (hanak@ppic.org or 415-291-4433). Thank you for your consideration.

With kind regards,

Ellen Hanak
Center Director

PUBLIC POLICY
INSTITUTE OF CALIFORNIA

500 Washington Street, Suite 600
San Francisco, California 94111
tel 415 291 4400
fax 415 291 4401
web www.ppic.org



PPIC WATER POLICY CENTER

The PPIC Water Policy Center spurs innovative water management solutions that support a healthy economy, environment, and society—now and for future generations.

The center takes a bold, future-oriented approach, working to put California's water management on a sound and sustainable path.



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THE REALITIES OF CALIFORNIA WATER

Managing water is one of the toughest—and most important—challenges facing California. PPIC’s objective, timely work has helped transform debates, bring stakeholders together, and advance innovative but realistic approaches to help us move forward.

GEORGE P. SHULTZ

California is at a crossroads in managing its water resources. Key water challenges—such as flood risk, drought emergencies, and groundwater sustainability—are being targeted by new policies at the federal, state, and local levels. But much more work lies ahead. With significant changes expected in the state’s population, economy, and climate—and pressures from aging infrastructure and a deteriorating environment—California needs to develop meaningful, lasting, forward-looking water policies.

To be successful, new approaches must be practical, evidence-based, and scientifically sound. Public agencies, elected officials, and stakeholder groups increasingly recognize the need to transcend traditional divides and find fresh and innovative ways to manage one of the state’s most precious resources—for economic prosperity and environmental sustainability.

A RELIABLE, INDEPENDENT, AND TRUSTED BROKER

The PPIC Water Policy Center strategically connects nonpartisan, objective research to real-world water management debates. It bridges the gap between rigorous scientific understanding and complex policy problems. It offers clear explanations of tradeoffs and outlines potential pathways forward. And it brings stakeholders to the table, providing a safe, neutral space for productive conversations.

THE CENTER FOCUSES ON THREE CRITICAL, INTERRELATED WATER MANAGEMENT CHALLENGES FACING CALIFORNIA IN THE 21ST CENTURY



ENSURING CLEAN AND RELIABLE WATER SUPPLIES

Investigating and encouraging comprehensive, integrated approaches to water quality and quantity



BUILDING HEALTHY AND RESILIENT ECOSYSTEMS

Promoting the development of healthy and sustainable ecosystems using practical approaches to watershed management



PREPARING FOR DROUGHTS AND FLOODS

Helping California to adapt to an increasingly variable climate

BUILDING A TRACK RECORD ON KEY WATER CHALLENGES

Building on the successful model of strategic research and engagement that defines all of PPIC’s work, the PPIC Water Policy Center—directed by senior fellow Ellen Hanak—represents a significant scaling up of effort and investment in this critical policy area. The center’s targeted and sustained strategy includes:

TAPPING A WIDE-RANGING RESEARCH NETWORK

A dynamic group of top researchers—from around the state and beyond—approach California’s water challenges from a range of disciplines, including biology, economics, engineering, geology, and law.

ENGAGING POLICY AUDIENCES

Employing innovative communications strategies, the center delivers timely, credible, and actionable information—inspiring and energizing our audiences around opportunities to affect water policy.

The center’s nimble, responsive approach to research and engagement is fostering a deeper understanding of key issues among decision makers and other stakeholders, spurring greater momentum for better policy choices and more effective outcomes for California.



SUPPORT THE PPIC WATER POLICY CENTER

Our supporters appreciate the vital need for a reliable, independent, and trusted broker in California’s water policy debates. They also play an important role in expanding awareness of our work throughout the state and beyond. Committed funding partners are essential to support the growing need for timely information and to build momentum for effective solutions.

YOUR SUPPORT ALLOWS US TO PURSUE A WIDE RANGE OF CRITICAL ACTIVITIES, INCLUDING:

- Original, path-breaking research on major water challenges, such as environmental drought management, agriculture’s response to new groundwater laws, wildfires and upper watershed health, adaptation to climate change, and urban response to drought.
- Events around the state that bring stakeholders from different perspectives together to explore challenges and solutions.
- The annual *California’s Water* briefing kit, a unique and essential resource of key facts.
- Named research fellowships and internship programs.

A full list of the center’s supporters is available on our website. For more information, please contact Lisa Cole, PPIC Director of Development, at cole@ppic.org or 415.291.4495.

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Center Director

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Jeffrey Mount
Senior Fellow

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**PUBLIC POLICY
INSTITUTE OF CALIFORNIA**

Public Policy Institute of California
500 Washington Street, Suite 600
San Francisco, CA 94111
T 415.291.4400 F 415.291.4401

PPIC Sacramento Center
Senator Office Building
1121 L Street, Suite 801
Sacramento, CA 95814
T 916.440.1120 F 916.440.1121

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PPIC WATER POLICY CENTER

INSPIRING CHANGE IN WATER POLICY

From drought to floods to wildfires, California has endured a turbulent period in the past year.

As leaders at the local, state, and national levels strive to address the broad impact of these events, the PPIC Water Policy Center has provided key facts and practical recommendations to spur smart, innovative water management solutions. As a changing climate makes weather extremes more common in the West, the center is fostering a discussion about long-term approaches, focusing on achieving economic prosperity and environmental sustainability.

The PPIC Water Policy Center has benefitted from the generous support and partnership of deeply engaged individuals and organizations. Key impacts in the last year include:

Strengthening the Federal Role in Western Water

The federal government is a major player in water management, but its role is diffuse and poorly coordinated. Our efforts to explain that role and recommend improvements resulted in bipartisan Congressional conversations and participation in a White House summit. A presidential memorandum included a directive to manage water at the basin level—one of our key recommendations.

Highlighting Drought's Impact on Rural Communities and the Environment

California's severe drought has had devastating effects on disadvantaged rural communities and the environment—areas which have been a low priority. We worked to shine a spotlight on access to and quality of drinking water in rural communities, even before the crisis in Flint, Michigan, gained attention nationwide. We also highlighted the importance of planning for environmental needs during drought. These efforts encouraged legislation to consolidate rural water agencies and spurred interest in developing action plans for rivers, wetlands, and forests—including a recent initiative on wildfires by the Brown administration.

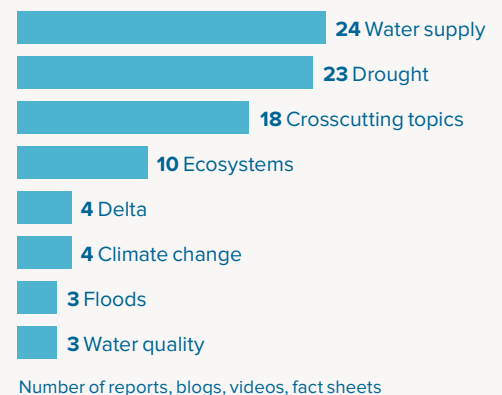
Modernizing Water Information Systems

To be able to manage water efficiently and effectively, California needs a modern, flexible system to accurately measure its resources and respond to crises. We engaged with a diverse range of stakeholders from around the state—including Western Growers, The Nature Conservancy, and the Association of California Water Agencies—to develop recommendations for improvements. Our work helped motivate policymakers to take action, informing two bills currently pending in the California Legislature.

WATER EVENTS AROUND THE STATE



CENTER PRODUCTS COVERED A WIDE RANGE OF WATER ISSUES



For information on supporting the PPIC Water Policy Center, please contact Lisa Cole, PPIC Director of Development, at cole@ppic.org or 415.291.4495.



PPIC

PUBLIC POLICY
INSTITUTE OF CALIFORNIA

Public Policy Institute of California
500 Washington Street, Suite 600
San Francisco, CA 94111
T 415.291.4400 F 415.291.4401

PPIC Sacramento Center
Senator Office Building
1121 L Street, Suite 801
Sacramento, CA 95814
T 916.440.1120 F 916.440.1121

ppic.org/water



Due June 10, 2016

Mr. Steven Snyderman
Office of Pesticide Programs (OPP)
Regulatory Public Docket Center (28221T),
U.S. Environmental Protection Agency
1200 Pennsylvania Ave. NW.
Washington, DC 20460–0001

Subject: Malathion – Draft Biological Evaluation (Docket ID No. EPA-HQ-OPP-2009-0317)

Dear Mr. Snyderman:

On behalf of the Bay Area Clean Water Agencies (BACWA), we thank you for the opportunity to comment on the Biological Evaluation (BE) for malathion. BACWA's members include fifty-five publicly owned wastewater treatment (POTW) facilities and collection system agencies serving 6.5 million San Francisco Bay Area residents. We take our responsibilities for safeguarding receiving waters seriously and are very concerned about discharges of pesticides into wastewater systems that may compromise effluent quality, biosolids reuse, and compliance with NPDES permit requirements.

BACWA is pleased that the EPA and the Fish and Wildlife Service (FWS) are cooperating to address endangered species in pesticide registration review. As managers tasked with protecting the surface waters receiving our discharges and the species in these waters—including endangered species—we appreciate the effort being put forth in this BE. The NPDES permits issued to BACWA's member agencies include requirements that effluent limits and receiving water limits protect the beneficial uses of waters of the State including protecting rare, threatened, or endangered species. Through these Clean Water Act (CWA) permits, water quality regulators make municipalities responsible for meeting Endangered Species Act (ESA) requirements.¹

Since our member agencies do not control indoor or other upstream pesticide uses and subsequent discharges, we seek to ensure that the pesticides ESA Consultation process will lead to mitigations that will protect endangered species and their critical habitats. Because our responsibilities extend beyond endangered species to include all other beneficial uses in our receiving water, we also seek to ensure that OPP's pesticide Registration Review process will lead to mitigations that will protect all beneficial uses of surface waters (not just endangered species).

¹ For example, see City of Palo Alto Regional Water Quality Control Plant and Wastewater System Permit, Order No. R2-2014-0024 (June 11, 2014), Attachment F, Page F-11, Paragraph C.7.

Our goals in providing comments are:

- to support EPA's efforts to develop a solid, functional BE process; and
- to ensure that both the BE process and EPA's Registration Review appropriately evaluate risks associated with urban pesticide use—and do so in a manner consistent with the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), the ESA, and the CWA.

We comment on the following areas, numbered by the suggested topic grouping in EPA's Instruction for Comments:

1. Comprehensive Federal Review Needs to Include POTWs and Indoor Uses (Topics #4a and #5)
2. The BE and Registration Review Risk Assessment Should Examine Formation of the Malaoxon Degradate during Wastewater Disinfection (Topic #4a)
3. Malathion May Interfere with POTW Treatment Processes (Topics #4a and #5)
4. A BE is Not a Replacement for a Traditional Risk Assessment (EPA Topic #6)
5. Clean Water Act Compliance Assessments Must Be an Integral Part of BEs and Registration Review Ecological Risk Assessments (EPA Topic #6)
6. The BE Procedure Is Unnecessarily Complex and Will Not Be Applicable to Most Pesticides (Topic #6)
7. The Format of the Public Review Documents Was Too Complex, Even for a Nationwide BE (Topic #6)

1. Comprehensive Federal Review Needs to Include POTWs and Indoor Uses (EPA Topics #4a and #5)

While the list of malathion uses and the exposure pathways examined in the BE are extensive, malathion's indoor use, its discharges to POTWs, and the environmental risks of these discharges were entirely omitted. All malathion uses, both indoor and outdoor, may result in exposures that can cumulatively impact human health and the environment. FIFRA, ESA, and the CWA all require that all malathion discharges be addressed together. This omission is of great concern for BACWA because any use of malathion that may be washed down indoor drains has potential to pose a threat to our members' compliance with stringent regulatory requirements under the CWA.

The most important (and perhaps only) indoor malathion product is a topical lotion (0.5% malathion), a product approved by the U.S. Food and Drug Administration (FDA) for treatment of lice on the scalp. The product instructions tell users to wash their hair after the use of this product, which causes the malathion to be discharge directly to the sewer system, where it flows to the downstream POTW. This discharge is not continuous – it occurs primarily when a head lice outbreak occurs, such as at a school or day care facility. Medicinal lice treatments, used as a result of such outbreaks, create periodic peaks of malathion concentrations being discharged to POTWs. The omission of this product appears to have been an oversight, since its omission is inconsistent with EPA precedent for pesticide risk assessments and the ESA clearly requires evaluation of all malathion uses in the BE.

BACWA appreciates that EPA has been including all pesticides regulated by both OPP and FDA in its environmental risk assessments since 2002. This step has been an important action toward ending a problematic failure at the federal level to coordinate different agencies' product approval procedures with one another to ensure that relevant environmental pathways and cumulative impacts are taken into account under each separate statutory authority.

During Phase V of the Lindane Review (2002), the EPA received comments regarding the use of lindane for lice and scabies treatments and the importance of assessing human and environmental health risks from the disposal of lindane into sewers. EPA responded by setting the following precedent:

“...the Agency assessed, in cooperation with FDA, the risk associated with the direct application to humans of lindane pharmaceutical products for the treatment of lice and scabies. Further, the Agency assessed both human health and environmental risk from disposal of pharmaceutical products after application/use.”²

Since that time, EPA has consistently included all products – including those approved by FDA – in its aquatic risk assessments.^{3,4} We request that EPA coordinate efforts on assessment of malathion with FDA, just as it is doing for triclosan:

*“EPA continues to coordinate efforts on assessment of triclosan with FDA. The two agencies are reviewing the effects of triclosan from two different perspectives. In making a regulatory decision about the pesticidal uses, EPA can only take regulatory action to mitigate risks from the uses that are pesticidal. However, **if EPA finds that there may be a risk from exposure to triclosan that arises from FDA-regulated uses, we will share that information with FDA and work with FDA, as appropriate.** FDA is aware the EPA is concerned about the potential adverse environmental impacts of triclosan.”⁵*

The ESA requires consideration of “interrelated” and “interdependent” actions in every BE. POTWs often discharge to water bodies (e.g., San Francisco Bay) that also receive urban and agricultural runoff. Therefore, the potential cumulative discharge of malathion to water bodies needs to be evaluated in the BE.

2. The BE and Registration Review Risk Assessment Should Examine Formation of the Malaoxon Degradate during Wastewater Disinfection (Topic #4a)

Chlorine and its compounds, which are commonly used to disinfect wastewater effluents just prior to discharge, appears to cause formation of the malathion degradate malaoxon, which is more toxic to aquatic organisms than the parent chemical. The BE recognizes this in Appendix 1-9, page 5, which says “...several studies have been conducted that indicate that OP and

² U.S. EPA, Agency Response to Phase V Comments on Lindane, September 27, 2002.

³ U.S. EPA, Revised Pyrethrins RED Chapter After Additional 60-Day Comment Period, Phase 5, April 4, 2007.

⁴ U.S. EPA, Reregistration Eligibility Decision (RED) for Permethrin, December 2007.

⁵ U.S. EPA, Response to Public Comments on the Registration Review Preliminary Work Plan for Triclosan, April 4, 2014.

organodithiophosphate chemicals that have sulfur double bonds to the central phosphorus atom generally form oxons during chemical disinfection by chlorine compounds (Magara et al., 1994, Duirk and Collette, 2006; Wu and Laird, 2003). . . .”

Consequently, POTW effluent risk assessments need to include both malathion and malaoxon. Further, the BE and Registration Review risk assessment cannot rely on any POTW monitoring studies that do not include malaoxon, as such studies will not provide scientifically accurate information about malathion pass-through and subsequent transformation in effluent disinfection processes. We request that the BE and the eventual Registration Review risk assessment examine both malathion and malaoxon in POTW effluent.

3. Malathion May Interfere with POTW Treatment Processes (Topics #4a and 5)

A POTW downstream of a school lice outbreak could expect to receive an upstream pulse of lice treatments, including malathion. The BE and Registration Review risk assessments need to evaluate the potential impacts of such pulses on wastewater treatment organisms.

Microorganisms do the basic work of removing fecal matter and dissolved organics in sewage. If a pesticide enters a treatment plant in sufficient quantities to upset the biological diversity or inhibit chemical oxygen demand (COD) oxidation, it could cause a “process interference,” or a plant “upset” where wastewater is no longer able to be treated properly before discharge. A 2014 study by Wright-Patterson Air Force Base that examined sorption and biodegradation of malathion in wastewater activated sludge (AS), finding that malathion had an impact to the biological diversity within AS and induced a “stress response that inhibits COD oxidation.”^{6, 7}

Both process interference and plant upset reduce the quality of a POTW’s effluent, which has potential impacts on CWA compliance and surface waters receiving the effluent. In the case of a plant upset, microorganisms may either be impaired or killed, such that treatment does not occur for hours, days, or even weeks, resulting in impacts to water quality, fish and wildlife, as well as NPDES permit violations. NPDES permit violations are costly to wastewater agencies, expose wastewater agencies to third party lawsuits under the CWA, and can cause immeasurable damage to the aquatic environment.

4. A BE is Not a Replacement for a Registration Review Ecological Risk Assessment (EPA Topic #6)

The EPA titled the set of documents out for public comment as the “Draft Biological Evaluations: Chlorpyrifos, Diazinon, and Malathion Registration Review,” suggesting some confusion as to whether this is considered a BE or a registration review ecological risk assessment. In addition, the May 5th webinar reviewing these BEs included only the following future milestones:

⁶ Janeczko, et al., Fate of malathion and a phosphonic acid in activated sludge with varying solids retention times, Water Research, Vol 57, pg 127-139, 2014.

⁷ While the study found that most removal of malathion was by biodegradation rather than sorption, “Depending on the compound and degree of influence heterotrophic and nitrifying bacteria have on biological degradation, OPs and their degradation products may pass through an activated sludge wastewater treatment plant largely unchanged.”

- December 2016: Final BE
- April 2017: Draft Biological Opinion (BO)
- December 2017: Final BO

Our representatives participated in the webinar and in subsequent email communications. Through these outlets we have sought to identify when the malathion Registration Review ecological risk assessment will be released for public review. The responses we have received suggest that EPA intends the BE to fulfill the function of the Registration Review risk assessment.

An ESA consultation neither supplants nor displaces other aspects of Registration Review for this or any other pesticide. EPA's periodic Registration Reviews are meant to ensure that pesticide usage meets current standards for human health and environmental safety – neither of which can be completely evaluated within the scope of an ESA BE.

We understand—and hope—that we may have misinterpreted EPA's responses to our questions. But, in the event that this BE is being considered as an alternative to a Registration Review ecological risk assessment, we would like to clarify why such a precedent setting adjustment in the reregistration process is outside of EPA's Procedural Regulations for Registration Review and could lead to negative consequences.

a) By itself, the BE and the current public participation process do not comply with EPA's Procedures for Registration Review

In 2006, U.S. EPA published the Procedural Regulations for Registration Review.⁸ Within that document are the following statements (emphasis added):

“...the scope of a pesticide's registration review includes **all aspects** of a pesticide's registration specified in section 3(c)(5) of FIFRA with respect to product composition, labeling and other required material, and risks and benefits.”

“EPA **intends to incorporate new requirements**, such as endocrine disruptor screening and testing or **endangered species** assessments into the registration review program as these aspects of risk assessment mature into routine evaluations for pesticides.

While this suggests that EPA anticipated that this process would evolve, this does not suggest that incorporating new requirements, such as endangered species assessments, would supersede other aspects that could impact a registration review decision.

Further, according to the procedures defined in 2006, typically a risk assessment is the last opportunity for public comment prior to the Registration Review decision. If EPA is indeed seeking to insert the BE in the place of a risk assessment, then it is possible that this could be the last chance for public comment prior to the decision, suggesting that EPA's assessment of human or environmental risks (which forms the essential groundwork for development of

⁸ Federal Register / Vol. 71, No. 153 / Wednesday, August 9, 2006.

mitigations) could be outside of a public discourse, which goes against both the written word and the spirit and intent of the Procedural Regulations for Registration Review.

Only with a complete risk assessment can properly targeted and useful mitigation measures be proposed for urban uses of malathion. We will continue to query staff regarding when the traditional risk assessment elements will be available for public comment so we have an opportunity to evaluate the analysis and consider appropriate mitigation measures.

b) The BE Does Not Address Many Sensitive Aquatic Species That Must Be Addressed in Pesticide Registration Review

While understandable that the scope of this large undertaking was “limited by the ESA,” entire categories of species were ignored because they are not on the Endangered Species List (ESL). This BE and the subsequent communications regarding next steps suggest that EPA might be seeking to avoid evaluation of risks to aquatic habitats as a whole, i.e., habitat other than endangered species habitat. There are sensitive species (particularly aquatic invertebrates) that are identified and considered in a traditional risk assessment in order to develop appropriate mitigation measures. These species need not be endangered, are present in aquatic ecosystems at many, if not most, locations and times when ESL species are not present), and need not be a food supply to an endangered species.

Any mitigation drawn from the current BE process would only cover endangered species and their habitats. To fulfill its Registration Review obligations, OPP must complete a full ecological risk assessment to form the basis for risk mitigation decision addressing all species and all habitats.

5. Clean Water Act Compliance Assessments Must Be an Integral Part of BEs and Registration Review Ecological Risk Assessments

CWA compliance is an integral part of endangered species and aquatic habitat protections. It is inextricably linked to the ESA in its structure and implementation. Its mandates must be coordinated with FIFRA implementation to avoid untenable regulatory gaps for CWA permittees.

In addition to ESA integration, there is a second reason that CWA compliance should be at the core of Registration Review – regulatory consistency between OPP and OW. Because local agencies in California (as in most other states) lack the statutory authority to regulate pesticide use in urban areas, it is essential that EPA employ the pesticide registration and Registration Review processes to assess and prevent urban water pollution as defined by the CWA. Since FDA controls lice treatments and OPP controls pesticides labels, even our state pesticide regulatory agency cannot readily address pesticide water pollution stemming from consumer pesticide products.

Every day, BACWA members treat millions of gallons of wastewater that is then discharged to fresh or salt water bodies, including local creeks and rivers, bays, and the Pacific Ocean. In some cases, receiving waters may be effluent-dominated in that there is little to no dilution either because the receiving water is small or there is a lack of mixing at certain times due to thermal or

saline stratification. These waterways provide crucial habitat to a wide array of aquatic species and waterfowl, including ESL and non-ESL species. It is therefore essential that both the BE and pesticide registration and Registration Review processes adequately consider potential impacts to wastewater quality, so that such impacts to the beneficial uses of the receiving water are *prevented*.

If the Registration Review process fails to prevent toxic releases of pesticides to the aquatic environment, an undue burden to address the problem is placed on local governments. Acute or chronic toxicity is one of the most common adverse impacts of pesticides in effluents and surface waters. Under the Clean Water Act, wastewater facilities are often required to conduct and pay for accelerated tests weekly for a minimum of six weeks if toxicity is observed. Should toxicity be observed in two or more of these weekly accelerated tests, the discharger is required to implement a toxicity identification evaluation (TIE), to identify what is causing toxicity, the cost of which can vary widely from \$10,000 to well over \$100,000 depending on complexity and persistence of the toxicant.

Once identified, the cost to treat or remove the toxicity causing compound(s) can vary dramatically. Often, there are few ways for a discharger to mitigate the problem other than extremely costly treatment plant upgrades. The California State Water Board is currently considering a regulatory proposal that would move toxicity from a narrative standard to a numeric standard. Exceedances would not only trigger the expensive test described above, but would also be subject to both fines and citizen lawsuits.

In addition, when surface water bodies become impaired by pesticides, wastewater facilities may be subject to additional requirements established as part of Total Maximum Daily Loads (TMDLs) set for the water bodies by U.S. EPA and state water quality regulatory agencies.

A number of pesticide-related TMDLs have been adopted or are in preparation in California. The cost to wastewater facilities and other dischargers to comply with TMDLs can be up to millions of dollars per water body per pollutant. This process will continue as long as pesticides are approved for uses that result in water quality impacts; it is therefore imperative that EPA conducts a Registration Review to impact water quality and for EPA to take action to ensure that any impacts are prevented or fully mitigated.

6. The BE Procedure Is Unnecessarily Complex and Will Not Be Applicable to Most Pesticides (Topic #6)

As noted in the BEs, diazinon, chlorpyrifos, and malathion are the first three pilot chemicals for which this analysis is being conducted. We further understand that what has been provided to date is only the result of the first two steps of an eventual three-step process to craft a BO regarding potential risk to endangered or threatened species and/or designated critical habitats. While this was clearly a massive undertaking, we are unclear how this procedure will be the basis for future BEs.

This profoundly detailed analysis is unlikely to set the stage for future ESA pesticide consultation processes because it requires extensive ecotoxicity data. For most other pesticides only a small set of aquatic toxicity data are available. Often only 1 to 3 aquatic species have

been tested, as this is all that is required by EPA for pesticide registration. Therefore, EPA's thoughtfully developed process will likely have very limited applicability.

We suggest that EPA examine two alternative approaches for BEs:

- (1) Develop and use water quality criteria using the EPA Office of Water (OW) methodology, which is specifically designed to be protective of the beneficial uses of the nation's waters – including endangered species habitats. OW is currently working on an update to its criteria development procedures and OPP has been invited to participate. OW is specifically examining the data requirements for its process, providing an opportunity for creation of a single Agency-wide effects assessment process, which could be designed to rely only on ecotoxicity data routinely available to OPP.
- (2) Complete and use the OPP-OW Common Effects Assessment methodology. This methodology provides a means for development of an effects threshold value based solely on aquatic toxicity data typically available for pesticides as a requirement of their registration. It has already been through EPA Science Advisory Panel review and needs only a relatively small additional investment of scientific work to bring it to completion. Unless this approach is soon to be supplanted by an improved, jointly-accepted water quality criteria methodology, we urge EPA to break through the current delays and finish this nearly complete project immediately.

7. The Format of the Public Review Documents Was Too Complex, Even for a Nationwide BE (Topic #6)

We recognize that this was the first time that EPA scientists have carried out a pesticide BE covering the entire nation. While we commend EPA on the comprehensiveness of its approach, we are distressed by the lack of summary information. This makes the BE effectively inaccessible for organizations without scientists with hundreds of hours to devote to a review of a single pesticide BE. As public agencies with broad responsibilities for water quality protection, we simply do not have the resources to review and comment on such an analysis for even one pesticide. Yet malathion is only one among the dozens of pesticides known to or that have potential to pollute the nation's urban surface waters.

A typical registration review docket contains a handful of documents, including an Ecological Risk Assessment as a single file. In contrast, the BE docket for malathion consists of at least 115 separate files (including 36 attachments and 75 appendices, each requiring a separate download and multiple clicks to open due to varying and usually "read-only" formats). Such a format is onerous for local and state governments desiring to examine EPA's work for scientific accuracy and to determine if the risk assessment includes any of the scientific, procedural, and informational gaps that have led to current pesticides water pollution. The fact that 20 slides of EPA's 82-slide May 5 introductory webinar were titled "Navigating the Documents" is an indication that a comprehensive review of the BE is far beyond the capabilities of most reviewers.

BACWA stands ready to engage our member agencies and others in the wastewater community to ensure that the eventual registration review for malathion fully addresses indoor uses in the

sewershed as well as potential wastewater process interference.

Thank you for your consideration of our comments. If you have any questions, please contact BACWA's Project Managers, Melody LaBella, at (925) 229-7370 or mlabella@centralsan.org or Karin North at (650) 329-2104 or Karin.north@cityofpaloalto.org.

Respectfully Submitted,



David R. Williams
Executive Director
Bay Area Clean Water Agencies

cc: Jack Housenger, Director, EPA Office of Pesticide Programs
Tracy Perry, EPA OPP Pesticide Re-Evaluation Division
Rick P. Keigwin, Jr., Deputy Office Director for Programs, EPA OPP
Yu-Ting Guilaran, Director, EPA OPP, Pesticide Re-evaluation Division
Michael Goodis, Associate Director, EPA OPP, Pesticide Re-Evaluation Division
Kevin Costello, Branch Chief, EPA OPP, Pesticide Re-Evaluation Division
Anita Pease, Acting Director, EPA OPP, Environmental Fate & Effects Division
Melissa Panger, Senior Advisor, EPA OPP, Environmental Fate & Effects Division
Betsy Southerland, Director, EPA Office of Water, Office of Science and Technology
Andrew Sawyers, Director, EPA Office of Water, Office of Wastewater Management
Tomas Torres, Director, Water Division, EPA Region 9
Debra Denton, EPA Region 9
Patti TenBrook, EPA Region 9
Dawit Tadesse, California State Water Resources Control Board
Noelle Patterson, California State Water Resources Control Board
Tom Mumley, California Regional Water Quality Control Board, San Francisco Bay Region
Janet O'Hara, California Regional Water Quality Control Board, San Francisco Bay Region
James Parrish, California Regional Water Quality Control Board, San Francisco Bay Region
George Farnsworth, Associate Director, California Department of Pesticide Regulation
Nan Singhasemanon, California Department of Pesticide Regulation
Jennifer Teerlink, California Department of Pesticide Regulation
Kelly D. Moran, Urban Pesticides Pollution Prevention Project
Greg Kester, California Association of Sanitation Agencies
Chris Hornback, Chief Technical Officer, National Association of Clean Water Agencies
Cynthia Finley, Director, Regulatory Affairs, National Association of Clean Water Agencies

BAPPG Committee Report to BACWA Board

Meeting Date: June 1, 2016
Prepared By: Lorien Fono, BACWA RPM
BAPPG Chair: Robert Wilson

20 attendees representing 13 member agencies.

Committee Notes are available [online](#).

Committee Updates from BAPPG's General Committee Meeting on June 1, 2016:

- **Regional Water Board report** – The Regional Water Board is accepting nominations until the end of June for the annual Dr. Teng-Chung Wu Pollution Prevention Award. Agencies or individuals interested in submitting nominations should email [James Parrish](#).
- **Steering Committee update** – For Fiscal Year 2017, Robert Wilson (Petaluma) will continue in his role as Committee Chair and Joe Neugebauer (West County) will continue as Vice-Chair of reporting. Doug Dattawalker (Union Sanitary District) will take on the role of Vice-Chair of budget, and will then take on the Chair position in the next Fiscal Year.
- **CASA Pesticides Steering Committee** – Stephanie Hughes has drafted a letter on malathion registration to EPA. Amongst other issues, EPA did not consider malathion's impact on wastewater treatment plants in their evaluation of the pesticide.
- **O'Rourke Outreach update** – The public relations consultant O'Rourke provided a [presentation](#) on the status of their outreach projects, which are as follows:
 - Task 1 – Dioxin Partnership with Air District
 - Task 2 – FOG Outreach to Food Trucks
 - Task 3 – No Drugs Down the Drain
 - Task 4 – Trash (Toilets Aren't Trash Cans & Wipes)
 - Task 5 – Annual Report Support
 - Task 6 – Personal Care Products
 - Task 7 – Miscellaneous P2 Agency Coordination (Website)
 - Task 8 – Alkyl Phenol Ethoxylates & Commercial Laundry
 - Task 9 – FY 2016/17 Outreach Plan

For fiscal year 2017, they urged BAPPG to invest larger amounts in fewer campaigns to get more impact, which is what is planned by the committee. The committee is also restructuring its budgeting to allow more flexibility in moving funds between projects.

- **Alameda County Drug Take-back program** – Bill Pollock, from Alameda County Environmental Health, was in attendance to discuss the County's ordinance establishing a drug take-back program, which was the first ordinance of its kind in the country. He described the challenges with developing contracts with different entities, such as the County Sheriff office, that host the take-back bins. Currently, the county has 13 take-back sites and plans to have 25 by the end of the year. There was a discussion about challenges to such programs, such as the proposed AB45 which restricts producer responsibility to outreach only and may undermine take-back programs, as well as the California Board of Pharmacy, which wants to add requirements to the DEA's existing regulations. The Counties of San Francisco, Santa Clara, San Mateo and Marin are currently working on take-back ordinances, as are Los Angeles and Santa Barbara.
- **Next Meeting** – The next BAPPG meeting will be the annual pollutant prioritization effort.

Date of Next BAPPG Meeting

BAPPG Steering Committee Meeting

July 13, 2016, 9:00am

Conference Call

Teleconference Number: 605-475-4350

Participant Code: 1210113#

BAPPG General Meeting

August 3, 2016: 10:00am-12:00pm

1515 Clay Street, Second Floor, Room 12

Oakland, CA



Asset Management Info Sharing Group Agenda

Wed, May 25, 2016, 11:00 am – 1:10 pm
DSRSD

****Please e-mail the Chair, Dana Lawson, at dlawson@centralsan.org to be added to the email list for future meetings.****

Meeting Notes

ADMINISTRATION

1. Introductions – Dana Lawson, Neil Meyer (CCCSD); Aaron Johnson, Judy Zavadil (DSRSD); Dillon Cowan (EBMUD); Rochelle Farlow, Saeed Shams (City of San Jose); Andy Hall, Nga Huynh (City of Livermore); Kim Lin (CCWD); Felicia James, Robb Grantham (Carollo Engineers); Lani Good (West Yost)
2. Announcement - Dillon Cowan is now the Co-Chair

PRESENTATION

3. RIVA software as a tool for long-term capital budgeting, Felicia James with Carollo Engineers
 - Overview on WSSC, water and wastewater
 - Objectives – repair vs. replacement analysis, optimize operations and/or maintenance, plan for end-of-life in Capital Improvement Plan
 - Budget requests to balance risks and priorities, develop failure projections, understand consequence of “do-nothing”
 - Provided screenshots of RIVA for state of assets by installation date, material type; screenshots of level of service tracking by normalized point breaks per year projection
 - Can be updated annually
 - Develop recommendations for infrastructure improvements; if/then scenarios (i.e. to maintain defined LOS what is annual investment, if budget decreased how does it affect LOS)
 - Inputs include asset registry and condition data (from CCTV and/or CMMS) to evaluate structural versus maintenance problems, develop rehab plan which could include CCTV, increased maintenance, spot repair, replacement, etc.
 - Potential to evaluate resources and reassign to higher risk assets
 - Also used for above-ground assets (i.e. treatment plant and pumping stations)
 - Cons: licensing cost, complex, highly configurable
 - Pros: highly configurable, if/then scenarios, includes rehab cycles (not just next recommended action)
4. Building a rehab/replacement model for DSRSD’s WWTP assets, Lani Good with West Yost
 - Preliminary Legwork
 - realign treatment plant hierarchy – leveraged recent masterplan work that developed existing flow schematics; defined process, system, sub-system, component, assembly
 - classify assets
 - fill data/inventory gaps – ensured major assets were included in the inventory, obtained installation dates, basic attribute information (such as

<ul style="list-style-type: none"> <ul style="list-style-type: none"> size) ○ all information stored in an MS Access database created by West Yost; DSRSD will reconcile CMMS inventory later • Rehab & Replacement Model <ul style="list-style-type: none"> ○ Developed unit cost formulas by asset type ○ Assumed %% multiplier for replacement cost (e.g. XXX% * asset cost) ○ Age based evaluation only ○ Focused on structural and mechanical (not smaller instrumentation assets, electrical distribution system, general facility assets like buildings and sitework) ○ Model provided big picture to communicate with management and staff • Next Steps <ul style="list-style-type: none"> ○ expand model to electrical system ○ include condition data
<p>DISCUSSION</p> <ul style="list-style-type: none"> • CCWD recently issued an RFP for development of an asset management improvement plan • City of San Jose recent updated their CMMS (Infor) to the most recent release • CCCSD completing migration from Geomedia (obsolete GIS) to ESRI; web mapping application in beta-testing in-house; also in the midst of migrating from existing CMMS (Accela and Mainsaver) to Cityworks; expect to “go live” with collection system and fleet by late August, then treatment plant and pumping stations by end of the year
<p>SUGGESTIONS FOR FUTURE AGENDA ITEMS</p> <ul style="list-style-type: none"> • Lani attended a project management/asset handover presentation by Sac Regional at CWEA that may also be of interest to this group at a future meeting
<p>NEXT REGULAR MEETING</p> <ul style="list-style-type: none"> • Aug XX, 2016 at TBD with a presentation by David Stoops (EBDA) on Estimating Long-Term Capital Budgets
<p>ADJOURNMENT 1:10PM</p>

Laboratory Committee – Report to BACWA Board

Laboratory committee meeting on: 08 June 2016
Executive Board Meeting Date: 17 June 2016
Committee Chair : Nirmela Arsem

Committee Request for Board Action: None

Environmental Laboratory Accreditation Program (ELAP) update :

- The Expert Review Panel (ERP) appointed by EPA to help California ELAP improve performance and professionalism met on June 7. There was a presentation by Environmental Laboratory Technical Advisory Committee (ELTAC) chair Dr. Andrew Eaton, and ELAP Chief Christine Sotelo. The panel commented and then it was opened to the public for questions.
- There was discussion about 'TNI light' for utility laboratories, but nothing concrete was proposed.
- Christine Sotelo mentioned the Regulatory Agency Committee that is advising her, but these meetings are not open to the public.
- In addressing the question about the various standards that ELAP has reviewed or considered, Sotelo responded that her lawyer has advised her not to discuss it in public yet.
- Sotelo indicated that \$1.5 million has been budgeted to train ELAP staff.
- The meeting ended without the public understanding of the proposed ELAP standards improving or the ELTAC members feeling they are full partners in the process.
- The next ELTAC meeting is scheduled for June 15; this will be an open meeting and public can participate through webinar or in person.
- ELTAC representative for CWEA, Mindy Boele of Vacaville, encouraged members to bring concerns to her. As an appointed ELTAC member, she is committed to represent the environmental laboratory community.

Microplastics update:

An update on the work being conducted by the microplastics workgroup was discussed. Some of the highlights are:

- Final effluent sampling can be optimized to obtain a 24-hour composite sample
- There is significant difference in the microplastics composition of a 24-hour composite and 1-hour composite; it is not a scaled down version, but the variety and distribution is very different.
- The NOAA method as published is not suitable for final effluent. The organic material content of final effluent presents significant challenges.
- Cellulose fibers are not destroyed during H2O2 digestion.
- Density separation is not a solution to remove interferences
- Every particle must be verified using FT-IR or Ramen to be certain that is a plastic particle; visual identification alone is not sufficient.
- Lab report must be detailed, contain photograph of each particle and information as to how it was verified.

CWEA San Francisco Bay Section Lab Committee Update:

- Ali Boren (Benicia) updated BACWA lab committee about CWEA SF bay Section lab committee activities. The plan is to conduct a training every quarter; the first in the series being CWEA exam prep to be held at DSRSD WWTP on July 21, from 8:00 to 3:30. Please check CWEA website for details.
- The group is also hosting monthly meetings to discuss one method at each meeting. The first meeting will be on June 28, at 11:00 am in CCCSD and the method will be BOD.

Audits:

- SFPUC/Treasure Island is scheduled for an EPA audit in June. Regional Water Quality Control Board staff has requested MDL study data for on-line residual chlorine monitoring instruments. The group discussed the IDL vs. MDL concept and how best to explain the instrument sensitivity without MDL study.

General discussions:

- For those analyses that do not require pre-cleaned certified containers for sampling, bulk plastic containers can be purchased at a much reduced cost from General Bottle Supply located in Oakland.
- ELAP now certifies IDEXX methods for analyzing recycled water.

Upcoming meetings, conferences, etc.:

- BACWA opt/upgrade workshop - June 27 at EBMUD training center from 10:30 – 13:30
- RMP Technical Review Committee meeting – June 9 at SFEI offices
- ELTAC meeting – June 9

Next BACWA Laboratory Committee Meeting: July 13

Committee Request for Board Action: None

21 attendees, representing 12 member agencies

Adoption of Permits/Permit Amendments:

July – Napa – Napa is fine with their TO, which includes an updated discharge prohibition period.

Regional Water Board Report-out

- There are several staff retirements on the horizon
- Diane Feinstein's office contacted Region 2 and Region 5 to ask about ammonia loading to Suisun Bay.

Microplastics and CECs

- *CEC monitoring* - Staff from SFEI attended the committee meeting to describe their offer of assistance in pooling resources to do CECs analyses, and to provide study design and analyses as needed. Analyses will be done by Axis Analytical, although SFEI offered to explore options in the US. BACWA may serve as a contracting agency if procurement is a problem to send funds to a Canadian company. Agencies that participate in this sampling effort may elect not to share their data. Data from agencies that do elect to share it may be used in a poster presentation or Fact Sheet, but not a press release. There was a discussion about the value of this data in terms of bolstering Region 2's CECs management strategy. SFEI will send BACWA data from previous CECs studies of the SF Bay. Interested agencies should respond to SFEI's [survey](#).
- *Microplastics Workshop* – The meeting is scheduled for 6/29. The agenda is now [posted](#). Nirmela will be presenting results from the BACWA workgroup.
- *RMP Technical Review Committee* – The TRC discussed projects throughout the RMP program. The committee ranked potential CECs projects as follows: 1) CEC strategy and continuation of baseline tracking; 2) PFAS synthesis; 3) imidacloprid study; 4) phosphate flame retardant study; 5) bisphenol study; 6) triclosan in small fish study. Funding for these projects has been bolstered by the Alternate Monitoring Plan. They will also be funding an estrogenic bioassay study. The RMP will also be funding the nutrient science strategy, the sources, pathways, and tributaries ongoing research, ambient monitoring, as well as a selenium strategy, which includes the sturgeon derby next year and an "early warning" monitoring workgroup meeting in July.

Shallow Water Discharge Prohibition

- The role of the Shallow Water Discharge prohibition in permitting wetlands supported by wastewater was raised. Regional Water Board staff were asked what members could do to assuage concerns about near shore discharges. This item will be on the BACWA/RWB Joint Meeting agenda for July. Lorien will work with Robert Schlipf to develop a list of issues for the meeting.

Nutrients

- *Optimization/Upgrade Studies* – The consultant team released the first wave of facility reports on May 9 ([see schedule](#)). BACWA will host a workshop on July 27 to discuss the facility reports with its members. BACWA will look into options for allowing agencies to join the meeting remotely. A second workshop will be held in late summer/early fall and will include Regional Water Board staff.
- *NTW Meeting and Steering Committee* – The 6/3 NTW meeting's purpose was to describe the list of projects and their prioritization. On 6/10, the Steering Committee approved a Fiscal Year 2017 budget, and list of projects which is greater than can be funded with available budget. SFEI is soliciting additional funding from interested/affected agencies. The budget covers a core program of modeling. SFEI is looking to hire an additional modeler who will spend half their time focusing on the Lower South Bay, and half on Suisun Bay.
- *Annual Reporting* – HDR provided a [data worksheet](#) for agencies to input their data for the Nutrient Annual Report. They plan to issue a revised worksheet that accounts for data points that are DNQ, as well as MDLs. This will be discussed at the next CMG meeting. Lab committee members are reviewing the latest data sheet. Data are due to HDR on July 31.

Drought/Recycling

- *State General Order for Recycled Water* – The State Water Board proposed an addition to the General Order for Recycled Water that would require Regional permittees, such as those covered by 96-011 to be enrolled in the State General Order within three years of adoption (Finding 34). The State Water Board adopted the General Order on 6/7, and considered [three options](#) for Finding 34, and decided to require enrollment of Regional Permittees within three years, but to not address individual permittees until the next reopener. The BACWA testified at the adoption hearing. View the [outcome of BACWA talking points](#). BACWA will work with the Regional Water Board to determine how Regional permittees will be transferred to the State General Order.
- *SB163 (Hertzberg)* – An amended Bill was released that requires 50% water reuse by 2033 (see [CASA notice](#)). CASA and WaterReuse oppose the Bill. BACWA does not comment on legislation, so member agencies are encouraged to send in letters to their Senators.
- *Recycled Water Survey* – BACWA is issuing [surveys](#) with Optimization/Upgrade facility reports so that the consultant can calculate loads removed through water recycled. BACWA worked to make sure that the data requested is convergent with that which will be requested by DWR in a survey that they plan to issue later this month, so agencies will not have to generate two sets of numbers.

NPDES Update

EPA has issued [Proposed Updates](#) to the NPDES rule, impacting items such as toxicity, antidegradation, and dilution. In general, these changes reflect standard practice in Region 2, so no impacts are anticipated. The main item that causes concern amongst agencies and regulators in other States is a provision that will allow EPA to veto permits that have expired and reissue them on their own. This should not have an impact in our Region.

Announcements

- EPA expected to issue draft selenium criteria by end of June.
- Toxicity – State Water Board still targeting July for new draft of Toxicity Plan.
- [FWQC Issues Matrix Update](#) - list of ongoing regulatory issues at the Federal Level. For access to the Federal Water Quality Coalition (FWQC) Website, contact Lorien for a password, since BACWA is a dues-paying member.
- Alternate MRP Invoices sent out by SFEI so agencies can pay surcharge with FY16 funds.
- The AIR committee will be hosting their annual meeting with the Air District on June 15. All BACWA members are welcome to attend.

Report out from the 4/15 Executive Board meeting and 5/3 Joint meeting with the Regional Water Board

- Most items covered previously in the agenda.
- *Technical Review of Scientific Documents* – BACWA has contracted with LimnoTech to provide review of the data related to the Assessment Framework and associated documents.
- Sarah Deslauriers gave a CWCCG update.
- The Biosolids Committee will be developing a survey that will be distributed this summer.

Committee Succession

Amanda Roa (Delta Diablo) will be stepping down and Eric Dunleavy will assume the role of Committee Chair. Chris Dembiczak (EBMUD) will be Vice-chair.

Next BACWA Permits Committee Meeting: Tuesday, July 12, EBMUD.



Executive Director's June 2016 Report

NUTRIENTS:

Completed a variety of tasks and activities associated with BACWA's interests on nutrients and collaborating with the Water Board including:

- Attended and participated in conference calls as well as the 9th meeting of the NMS Steering Committee and provided BACWA in-kind services by serving as scribe. Following the meeting prepared detailed meeting minutes and summary of action items.*
- Chaired the monthly CMG meeting with the main topic being the review of the first Wave of reports for the individual POTWs which included cost estimates for optimization and upgrades.*
- Coordinated with the OP/Upgrade consulting team on technical and administrative issues.*
- Hosted the second bi-weekly conference call with Limnotech on the review of the Assessment Framework documents.*
- Developed a revised agenda for a Workshop to review the Optimization/Upgrade study results with the BACWA membership.*
- Coordinated with the EBMUD project manager on the EPA Sidestream Treatment research grant for review of a manuscript for presentation at the WEF Nutrient Conference.*

BACWA BOARD MEETING AND CONFERENCES:

- Worked with staff in preparing for the June BACWA Board meeting including reviewing the agenda with the Board Chair.*
- Prepared for and attended the BACWA monthly Board meeting in May.*
- Set the date and prepared for the next bi-monthly Joint Meeting with the Water Board in July.*
- Continuing to track all action items to completion.*
- Worked with the AED to visit and select a venue for the 2017 Annual Meeting*

PERMIT COMMITTEE:

- Attended the monthly Permit Committee meeting and discussed key issues of importance to the BACWA membership.*

ASC/SFEI:

- As a member of the Executive Committee, coordinated with SFEI Executive Director on Board activities.*

BAY PLANNING COALITION:

- Discussed the use of their real-time feedback on audience response at meetings for use at the upcoming Optimization/Upgrade Workshop*

BAY AREA BIOSOLIDS TO ENERGY:



-Prepared a Fact Sheet with alternatives for BACWA providing services to BAB2E.

FINANCE:

- Reviewed the monthly BACWA financial reports with the AED.*
- Continued coordinating with the AED in tracking the revenues coming in from the BACWA FY 16 member invoices.*
- Worked with the AED to begin the close-out process for FY 16.*

AIR COMMITTEE:

- Coordinated with the AIR Committee leadership and the RPM on the review of proposals received for providing technical services to the Committee in FY 17.*
- Attend the annual joint meeting of the AIR Committee and BAAQMD.*

RECYCLED WATER COMMITTEE:

- Participated in the discussion of determining the best project for submittal of a Prop 1 grant for funding a recycled water research project.*
- Submitted a comment letter to EPA regarding the pesticide registration review for malathion.*
- Participated in the web conference on the SWRCB's hearing on the new General Order for recycled water.*

LAB COMMITTEE:

- Coordinated with the Lab Committee Chair on progress on developing protocols for testing wastewater effluent for microplastics and the presentation at the June 29th Microplastics Workshop.*

WOT:

- Met with the BACCWE representative to discuss the new approach for the training program.*

ADMINISTRATION:

- Held the monthly BACWA staff meeting to coordinate and prioritize activities.*
- Signed off on invoices, reviewed correspondence, prepared for upcoming Board meeting, responded to inquiries on BACWA efforts, oversaw updating of web page and provided general direction to BACWA staff.*
- Worked with the RPM in the preparation of the monthly BACWA bulletin.*
- Coordinated with the AED to plan activities and review duties, schedules, and priorities.*
- Developed and responded to numerous emails and phone calls as part of the conduct of BACWA business on a day-to-day basis.*
- Discussed a request for sponsorship from BACWA with the Public Policy Institute of California*

MISCELLANEOUS MEETINGS/CALLS:



B A C W A
B A Y A R E A
C L E A N W A T E R
A G E N C I E S

**Executive Director
June 2016 Report**

- EBMUD's program manager on Prop 50 and Prop 84
- BACWA Chair and Committee Chairs on items that arose during the month
- Water Board staff on coordinating the nutrient activities
- other misc calls and inquiries regarding BACWA activities
- participated in coordination calls with the HDR project manager
- responded to Board member's requests for information



BACWA ACTION ITEMS

Number	Subject	Task	Deadline	Status
Action Items from May 20, 2016 BACWA Executive Board Meeting				
2016.5-88	BAB2E proposal to join BACWA	Develop a 1-pager that defines BACWA services to BAB2E (ED)	6/17/2016	completed
2016.5-87	Opt/Upgrade Workshop	Add Benicia as a case-study	6/27/2016	completed
2016.5-86	Prop 1	Deliver 1 page Prop 1 concept proposal to RWB (RPM)	6/6/2016	completed
2016.5-85	BAAQMD Meeting Agenda	Meaning of Item #3 - Digester Gas Venting (RPM), review agenda at June Board meeting	6/17/2016	completed
2016.5-84	TDC Pesticide Presentation	Obtain copy of presentation and post to BACWA website (AED)	5/23/2016	completed
2016.5-83	CWCCG Presentation	Obtain copy of presentation and post to BACWA website (AED)	5/23/2016	completed
2016.5-82	Biosolids Literature Review	Committee to consider alternatives and matching funds for further Board deliberation (AC)	9/30/2016	
2016.5-81	Biosolids Survey	Committee to engage consultant to assist on survey and develop measure of value (AC)	9/30/2016	
2016.5-80	Assessment Framework doc review	Request tech-focused analysis from LimnoTech (ED)	5/30/2016	completed
2016.5-79	RPM Agreement FY17	Add language for ED discretion to increase by up to 10% (AED)	5/23/2016	completed
2016.5-78	Sucession Plan	Add Lori Schectel as an Alternate on NMS (AED)	5/23/2016	completed
2016.5-77	Opt/Upgrade Workshop	Schedule a 2nd Workshop in last summer (ED)	9/30/2016	
2016.5-76	Opt/Upgrade Workshop	Update 1st Workshop Agenda (ED)	5/23/2016	completed
Action Items Remaining from Previous BACWA Executive Board Meetings				
2016.4-72	Watershed Permit Survey	Add pros/cons and context within Capital Improvements & NNLI Costs (ED)	6/15/2016	pending
2016.3-65	Proposition 84	Develop agreement between BACWA & ABAG to transfer admin responsibilities (AED/Paul Gilbert-Snyer)	7/30/2016	pending
2016.3-61	Membership Policy	Develop policy for out of region agency membership (ED)	7/30/2016	pending

FY 16: 82 of 88 Action Items completed.
 FY 15: 90 of 90 Action Items completed.
 FY 14: 128 of 128 Action Items completed.
 FY 13: 67 of 67 Action Items completed.



BACWA
BAY AREA
CLEAN WATER
AGENCIES

BACWA BOARD CALENDAR

July 2016 to June 2017

DATE	AGENDA
6/15/2016	BAAQMD Workshop Pagano; Connor; Horenstein; Ervin; Bailey Williams; Fono
6/27/2016	Nutrient Optimization/Upgrade Workshop Pagano; Connor; Horenstein; Ervin; Bailey Williams; Fono Optimization/Upgrade Studies Early Actions
7/15/2016	Consent Monthly Board Mtg Items due: 7/8 Pagano; Connor; Horenstein; Ervin; Bailey Williams; Fono; Hull Previous Board Meeting Minutes (AED) Monthly Treasurer's Report (EBMUD Accounting) Authorizations & Approvals Approval: Annual Nutrient WS Payment Approval: FY16 Closeout & FY17 Amended Budget Approval: FY17 Agreements Approval: Biennial Review of Conflict of Interest Code Other Business - POLICY/STRATEGIC Discussion: Draft Agenda Pardee Technical Seminar Discussion: RMP Update (Phil Trowbridge) Discussion: WB Joint Meeting Debrief Discussion: Risk Reduction Update Other Business - OPERATIONAL Reports Committee Reports (Committee Chairs) Board Reports (Executive Board) ED Report (ED) RPM Report (RPM)
7/18/2016	Joint Meeting Items due: ? Pagano; Connor; Horenstein; Ervin; Bailey Williams; Fono Other Business: Discussions Presentation: Risk Reduction

8/19/2016 Consent	
Monthly Board Mtg Items due: 8/12 Pagano; Connor; Horenstein; Ervin; Bailey Williams; Fono; Hull	Previous Board Meeting Minutes (AED)
	Monthly Treasurer's Report (EBMUD Accounting)
	Update on FY18 Invoicing
	<u>Authorizations & Approvals</u>
	Approval: Solano Comm College Agrmt - Fall 2016
	<u>Other Business - POLICY/STRATEGIC</u>
	Discussion: Draft Agenda Pardee Technical Seminar
	Discussion: WB Joint Meeting Debrief
	<u>Other Business - OPERATIONAL</u>
	<u>Reports</u>
	Committee Reports (Committee Chairs)
	Board Reports (Executive Board)
	ED Report (ED)
	RPM Report (RPM)

8 or 9/?/2016	
Joint Meeting	<u>Other Business: Discussions</u>
Items due: ? Pagano; Connor; Horenstein; Ervin; Bailey Williams; Fono	

9/16/2016 Consent	
Monthly Board Mtg Items due: 9/9 Pagano; Connor; Horenstein; Ervin; Bailey Williams; Fono; Hull	Previous Board Meeting Minutes (AED)
	Monthly Treasurer's Report (EBMUD Accounting)
	<u>Authorizations & Approvals</u>
	<u>Other Business - POLICY/STRATEGIC</u>
	Discussion: Draft Agenda Pardee Technical Seminar
	Discussion: Annual Meeting Planning
	<u>Other Business - OPERATIONAL</u>
	<u>Reports</u>
	Committee Reports (Committee Chairs)
	Board Reports (Executive Board)
	ED Report (ED)
	RPM Report (RPM)

10/12-14/2016	
Pardee Technical Seminar	
Pagano; Connor; Horenstein; Ervin; Bailey Williams; Fono; Hull	

11/18/2016 Consent	
Monthly Board Mtg	Previous Board Meeting Minutes (AED)

Items due: 11/11

Pagano; Connor; Horenstein;
Ervin; Bailey

Williams; Fono; Hull

Monthly Treasurer's Report (EBMUD Accounting)

FY16 Annual Report & Audited Financials

Authorizations & Approvals

Other Business - POLICY/STRATEGIC

Discussion: Pardee Debrief & Survey

Discussion: Draft Agenda Joint Meeting with WB

Discussion: Biannual Update on CWCCG (SDeslauriers)

Other Business - OPERATIONAL

Discussion: Annual Meeting Planning

Reports

Committee Reports (Committee Chairs)

Board Reports (Executive Board)

ED Report (ED)

RPM Report (RPM)

12/?/2016

Joint Meeting

Items due: ?

Pagano; Connor; Horenstein;
Ervin; Bailey

Williams; Fono

Other Business: Discussions

12/16/2016 Consent

Monthly Board Mtg

Items due: 12/9

Pagano; Connor; Horenstein;
Ervin; Bailey

Williams; Fono; Hull

Previous Board Meeting Minutes (AED)

Monthly Treasurer's Report (EBMUD Accounting)

Authorizations & Approvals

Other Business - POLICY/STRATEGIC

Discussion: HDR Quarterly Update on Optimization/ Upgrade studies

Discussion: WB Joint Meeting Debrief

Other Business - OPERATIONAL

Discussion: FY18 Budget Planning Schedule

Discussion: Annual Meeting Planning

Reports

Committee Reports (Committee Chairs)

Board Reports (Executive Board)

ED Report (ED)

RPM Report (RPM)

1/27/2017

Annual Members Mtg

Pagano; Connor; Horenstein;
Ervin; Bailey

Williams; Fono; Hull

2/?/2017 Consent

Monthly Board Mtg

Items due: 2/12/15

Previous Board Meeting Minutes (AED)

Monthly Treasurer's Report (EBMUD Accounting)

Pagano; Connor; Horenstein;
Ervin; Bailey
Williams; Fono; Hull

Authorizations & Approvals

Approval: Solano Comm College Agrmt - Spring 2016

Other Business - POLICY/STRATEGIC

Presentation: CPSC Update (Heidi Sanborn)

Other Business - OPERATIONAL

Discussion: FY2017 Budget Planning

Discussion: Annual Meeting Debrief

Announcements

Pardee Seminar Dates

Reports

Committee Reports (Committee Chairs)

Board Reports (Executive Board)

ED Report (ED)

RPM Report (RPM)

3/?/2017 Consent

Monthly Board Mtg

Items due: 3/?

Pagano; Connor; Horenstein;
Ervin; Bailey
Williams; Fono; Hull

Previous Board Meeting Minutes (AED)

Monthly Treasurer's Report (EBMUD Accounting)

Authorizations & Approvals

Other Business - POLICY/STRATEGIC

Discussion: WB Joint Meeting Debrief

Discussion: HDR Quarterly Update on Optimization/ Upgrade studies

Discussion: Draft Agenda April Water Board Jt Mtg

Presentation: CPSC Update (Heidi Sanborn)

Other Business - OPERATIONAL

Discussion: Second Draft of FY17 Budget

Announcements

Conflict of Interest Filing Deadline - April 1st

Reports

Committee Reports (Committee Chairs)

Board Reports (Executive Board)

ED Report (ED)

RPM Report (RPM)

4/?/2017 Consent

Monthly Board Mtg

Items due: 4/?

Pagano; Connor; Horenstein;
Ervin; Bailey
Williams; Fono; Hull

Previous Board Meeting Minutes (AED)

Monthly Treasurer's Report (EBMUD Accounting)

Authorizations & Approvals

Approval: FY18 Budget

Other Business - POLICY/STRATEGIC

Discussion: WB Joint Meeting Draft Agenda

Other Business - OPERATIONAL

Discussion: Succession Planning FY18

Reports

Committee Reports (Committee Chairs)

Board Reports (Executive Board)
ED Report (ED)
RPM Report (RPM)

5/?/2017

Joint Meeting

Other Business: Discussions

Items due:

Pagano; Connor; Horenstein;
Ervin; Bailey
Williams; Fono

5/?/2017 Consent

Monthly Board Mtg

Previous Board Meeting Minutes (AED)
Monthly Treasurer's Report (EBMUD Accounting)

Items due: 5/?

Pagano; Connor; Horenstein;
Ervin; Bailey
Williams; Fono; Hull

Authorizations & Approvals

Approval: FY18 Amendments/Agreements
Approval: Officers: Chair & Vice-Chair
Approval: BACWA Reps to ASC/SFEI Governing Board
Authorization: Legal Support Amendments

Other Business - POLICY/STRATEGIC

Discussion: Biannual Update on CWCCG (SDeslauriers)
Discussion: WB Joint Meeting Debrief
Discussion: Pesticides Update (Kelly Moran)

Other Business - OPERATIONAL

Request for updated Board Designee Letters for FY17

Reports

Committee Reports (Committee Chairs)
Board Reports (Executive Board)
ED Report (ED)
RPM Report (RPM)

6/?/2017 Consent

Monthly Board Mtg

Previous Board Meeting Minutes (AED)
Monthly Treasurer's Report (EBMUD Accounting)

Items due: 6/?

Pagano; Connor; Horenstein;
Ervin; Bailey
Williams; Fono; Hull

Authorizations & Approvals

Approval: FY18 Agreements
Approval: Transfer AIR Fund to BACWA Fund in FY18

Other Business - POLICY/STRATEGIC

Discussion: HDR Quarterly Update on Optimization/ Upgrade studies
Discussion: WB Joint Meeting Draft Agenda

Other Business - OPERATIONAL

Discussion:

Reports

Committee Reports (Committee Chairs)
Board Reports (Executive Board)
ED Report (ED)

***CURRENTLY
UNSCHEDULED
& SIGNIFICANT***

- * Aug 2017: Discussion: FY18 Arlene Navarrett Award
- * BACWA Membership Engagement Opportunities
- * Tech Seminar/Workshop: CCCSD Cogen explosion need to schedule
- * SFPUC force main leak and repair, need to schedule
- * Chlorine Residual Analyzer Investigation
- * Suggestions for Monthly Meeting Guest Speakers/Presenters: i.e. Jim McGrath, State Water Board



Regulatory Program Manager's Report to the Board

May 23, 2016 – June 15, 2016

Prepared for the June 17, 2016 Executive Board Meeting

NUTRIENT SUPPORT: Participated in CMG conference call. Updated BACWA Nutrient webpage. Discussed Annual Reporting datasheet and deadline with consultant. Developed announcement for Facilities Report Workshop.

BACWA BULLETIN: Drafted and distributed June BACWA Bulletin.

PROPOSITION 1 PROPOSAL: Communicated with SFEI staff, David Sedlak of ReNUWIt, and Santa Clara Valley Water District staff to get their input on the proposal concepts. Delivered updated proposal concept writeup to Regional Water Board. Attended meeting with State Water Board staff about proposal funding. Participated in conference call with Science Team on scope development.

STATE GENERAL ORDER FOR RECYCLED WATER: Drafted BACWA talking points on the General Order, attended and testified at adoption hearing. Drafted summary of outcomes of talking points.

NPDES UPDATE RULE: Reviewed Federal Docket, participated in Federal Water Quality Coalition Conference Call.

CECs: Worked with SFEI staff to distribute information about CECs sampling opportunity.

COMMITTEE SUPPORT:

AIR – Reviewed agenda for 6/15 meeting with BAAQMD. Received and distributed proposals for committee support to selection committee. Facilitated selection committee, and communicated with proposers about results of selection. Developed contract and BAR for contract.

BAPPG – Attended meeting and drafted meeting notes. Drafted comment letter to Bay Area Senators supporting SB1229. Reviewed comment letter to EPA on malathion registration.

Collection Systems – Communicated with member agencies about experience with enforcement and citizen suits.

Operations/Maintenance Infoshare – Finalized survey on topics of interest.

Permits – Attended meeting, and drafted agenda and Board Report for meeting. Reviewed FWQC issues matrix.

Recycled Water – Drafted meeting notes.

Executive Board – Drafted agenda for joint meeting with Regional Water Board on 7/18. Contributed to meeting minutes for 5/20 Executive Board meeting, and 6/17 Executive Board meeting packet.

Staff Meeting – Met with BACWA staff, worked on filing system for BACWA documents.

MEETINGS ATTENDED: BAPPG (6/1), CMG Conference Call (6/3), Meeting with State Water Board on Prop 1 proposal (6/6), State Water Board hearing on WRR (6/7), Staff meeting (6/9), Prop 1 conference call (6/9), FWQC Coalition Call on NPDES Update (6/10), AIR consultant selection committee call (6/10), Permits Committee (6/14), AIR meeting with BAAQMD (6/15).