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REPORTS		12:20 PM	
22	Committee Reports		70-80
23	Member Highlights		
24	Executive Director Report	Bay Area Util RRAP	81-98
25	Regulatory Program Manager Report		99-102
26	Other BACWA Representative Reports		
	a. RMP TRC	Rod Miller	
	b. RMP Steering Committee	Karin North; Leah Walker; Jim Ervin	
	c. Summit Partners	Dave Williams; Laura Pagano	
	d. ASC/SFEI	Laura Pagano; Jim Ervin; Dave Williams	
	e. Nutrient Governance Steering Committee	Jim Ervin; Mike Connor	
	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	Tim Potter; Laura Pagano; David Williams	
	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 State Legislative Committee	Lori Schectel	
	n. CASA Regulatory Workgroup	Lorien Fono	
	o. ReNUWIt	Mike Connor; Karin North	
	p. RMP Microplastics Liaison	Nirmela Arsem	
	q. AWT Certification Committee	Maura Bonnarens,	
	r. Bay Area Regional Reliability Project	Roger Bailey; Mike Connor	
	s. WaterReuse Working Group	Cheryl Munoz;	
	u. San Francisco Estuary Partnership	Eileen White; Dave Williams; Lorien Fono	
27 SUGGESTIONS FOR FUTURE AGENDA ITEMS		12:27 PM	
NEXT MEETING		12:28 PM	
The next regular meeting of the Board is scheduled for December 15, 2017 from 9:00 am to 12:30 pm at EBMUD Treatment Plant, Lab Library, 2020 Wake Ave., Oakland, CA. A Holiday Lunch is scheduled to follow from 12:30 pm to 2:00 pm.			
ADJOURNMENT		12:30 PM	



Executive Board Meeting Minutes

September 15, 2017

ROLL CALL AND INTRODUCTIONS

Executive Board Representatives: Jim Ervin (San Jose); Lori Schectel (Central Contra Costa Sanitary District); Laura Pagano(SFPUC); Mike Connor (East Bay Dischargers Authority); Eileen White (East Bay Municipal Utility District).

Other Attendees:

<u>Name</u>	<u>Agency/Company</u>
Amanda Roa	Delta Diablo
Greg Baatrup	Fairfield-Suisun Sewer District
Holly Kennedy	HDR
Jason Warner	Oro Loma/EBDA
JB Neethling	HDR
Karin North	City of Palo Alto
Mike Falk	HDR
Nitin Goel	CCCSD
Yuyun Shang	EBMUD
Tom Hall	EOA
Maura Bonnarens	EBMUD
Amy Chastain	SFPUC
Phoebe Grow	EBMUD
David Williams	BACWA
Lorien Fono	BACWA
Sherry Hull	BACWA

PUBLIC COMMENT

None.

CONSIDERATION TO TAKE AGENDA ITEMS OUT OF ORDER – None.

CONSENT CALENDAR

1. August 18, 2017, BACWA Executive Board Meeting Minutes – The approved minutes will be posted on the BACWA website.

2. July 2017 Treasurer's Reports and Financial Summary – A Financial Summary Report was included in the Packet. A copy of the FY18 Budget as of July 31, 2017, (8% 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 Executive Director noted that the Funds Report includes a report on the

Alternative Investments and, because those investments are less liquid than previous investments, a report on BACWA liquidity is also provided.

Consent Calendar items 1 and 2 were approved in a motion made by Mike Connor and seconded by Lori Schectel. The motion carried unanimously.

APPROVALS & AUTHORIZATIONS

3. Authorization: Executive Director Authorization for Computer Courage Baywise website updates – An Executive Director Authorization and Computer Courage Agreement were included in the Packet. The Executive Director gave an overview and noted that the funds represent monies budgeted in the FY18 BAPPG budget and will be utilized as needed.

4. Approval: Public Policy Institute of California Project Support - A Board Authorization Request, a request letter from PPIC, and a copy of the related minutes from the August 18, 2017 Executive Board Meeting Minutes were included in the Packet. The Executive Director gave an overview of the request.

Items 4 was approved in a motion made by Mike Connor and seconded by Eileen White. The motion carried unanimously.

5. Approval: Amendment to the Carollo Agreement for Support in the Development of BAAQMD Rule 11-18 – A Board Authorization Request, an Amendment Request, a Scope of Work, and an associated Fee Schedule were included in the Packet. The Executive Director explained that due to the timing on the issues, BACWA staff is recommending that the Executive Board override BACWA contracting policy and amend the previous agreement. He gave an overview of the amendment.

Items 5 was approved in a motion made by Mike Connor and seconded by Lori Schectel. The motion carried unanimously.

OTHER BUSINESS-POLICY/STRATEGIC

Agenda **Item 6** – Discussion: Final Agenda Pardee Technical Seminar – The final Draft Agenda for the Pardee Technical Seminar was included in the Packet. The Executive Director asked the Board for any final changes to the agenda.

Agenda **Item 7** – Discussion: Chlorine Residual BPA – The EOA Scope of Work and Fee Schedule were included in the Packet. The Executive Director noted that the item would be covered more fully at the Pre-Pardee Technical Seminar.

OTHER BUSINESS-OPERATIONAL

Agenda **Item 8** – Discussion: Arleen Navarret Award Update – A LINK to the CWEA notice of the Arleen Navarret Award was included in the Packet. The Executive Director gave a short overview. The review committee will be made up of one member of the Executive Board, the previous winner of the award, and one other volunteer.

Agenda **Item 9 - SUGGESTIONS FOR FUTURE AGENDA ITEMS.** Speaker were suggested on several subjects: Resilience by Design, the potential for gray-scape and green-scape in permits, an update from those attending the technology conference in Denmark.

ANNOUNCEMENTS:

The next regular meeting of the Board is scheduled for **November 17, 2017 from 9:00 am – 12:30 pm** at the **SFPUC, Hetch Hetchy Room, 13th Floor, 525 Golden Gate Ave., San Francisco CA.** The **Pardee Technical Seminar** is scheduled for **October 26-27, 2017 at the EBMUD Pardee Reservoir Facility.**

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 8:58 am.



MONTHLY FINANCIAL SUMMARY REPORT September 2017

Please note: The July 2017 Treasurer's Reports were Preliminary. EBMUD has now fully closed out FY17 and provided BACWA with final TR's for July 2017. There were no changes. BACWA also has received TR's for August and September 2017. This Summary is through September 2017.

Fund Balances

In FY 18 BACWA has three operating funds (BACWA, Legal, and CBC) and two pass-through funds for which BACWA provides only contract administration services (WOT & Prop 84).

BACWA Fund: This fund provides the resources for BACWA staff, its committees, and other administrative needs. The ending fund balance on September 30, 2017 was \$1,639,766 which is significantly higher than the target reserve of \$160,000 which is intended to cover 3 months of normal operating expenses. \$521,650 of the ending fund balance is shown on the September Fund & Investments Balance Report as 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 (including \$31,082 that was carried forward into FY18). This leaves an actual unobligated excess fund balance of \$1,118,116 as of September 30, 2017. As the details of what regulatory requirements will be included in the next Nutrient Watershed Permit, these excess funds may be transferred to the CBC fund and used to offset potential Nutrient Surcharge increases to the BACWA members.

CBC Fund: This fund provides the resources for completing special investigations as well as meeting regulatory requirements. The ending fund balance on September 30, 2017 was \$2,011,081 which is significantly higher than the target reserve of \$400,000. \$181,710 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. This leaves an actual unobligated excess fund balance of \$1,829,371 as of September 30, 2017. Total Disbursements for FY18 from the CBC Fund will include the annual payment of \$880,000 to SFEI for the Nutrient Watershed Permit commitment plus the additional \$200,000 approved by the Board. As the details of what regulatory requirements will be included in the next Nutrient Watershed Permit, any excess CBC funds may be used to offset potential Nutrient Surcharge increases to the BACWA members.

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

Budget To Actual

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.




MONTHLY FINANCIAL SUMMARY REPORT September 2017

Revenues as of September 30, 2017 (25% of the FY) are at 92%. The FY18 BACWA invoices were sent at the end of July 2017 and the end of August 2017, and 94% of the invoices have been paid before the end of September. The interest revenue reported through September 2017 is interest from the investment of Funds in LAIF for the 4th quarter of FY17.

Overall Expenses as of July 31, 2017 (25% of the FY) are at 46% and are tracking in accordance with the Annual Budget. Virtually all individual expense categories reflect a plus or minus 10% variance at this point in the fiscal year due to the timing of invoices. Those needing additional explanation are:

Tech Support: This category is 60% expended at 25% of the FY due to timing of payment of the Watershed Permit Commitment, and to the timing of invoices for the Optimization/Upgrade obligations.

FY 2018
BACWA BUDGET

						
				25% of Budget		
<u>BACWA FY18 BUDGET</u>	<u>Line Item Description</u>	<u>FY 2018 Budget</u>	<u>Actuals Sept 2017</u>	<u>Actual % of Budget July 2017</u>	<u>Variance</u>	<u>NOTES</u>
REVENUES & FUNDING						
Dues	Principals' Contributions	\$487,095	\$487,095	100%	\$0	FY18: 2% increase.
	Associate & Affiliate Contributions	\$178,573	\$133,563	75%	-\$45,010	FY18: 2% increase. Assoc: \$8,090; Affiliate: \$1,600 (\$197 over budget)
Fees	Clean Bay Collaborative	\$675,000	\$654,747	97%	-\$20,253	Prin: \$450,000; Assoc/Affil: \$225,000
	Nutrient Surcharge	\$800,000	\$730,058	91%	-\$69,942	Prin: \$533,335; Assoc/Affil: \$266,673
	Voluntary Nutrient Contributions	\$30,000	\$0	0%	-\$30,000	FY18: Palo Alto (\$30k)
Other Receipts	Other Receipts	\$0	\$0		\$0	Carry forward of Passthrough funds for Pharm Study into FY18
	AIR Non-Member	\$6,477	\$6,477	100%	\$0	2% increase.
	BAPPG Non-Members	\$3,774	\$3,774	100%	\$0	2% increase.
	Other	\$0	\$0		\$0	
Fund Transfer	Special Program Admin Fees	\$2,550	\$0	0%	-\$2,550	FY18: 2% increase (WOT only)
Interest Income	LAIF	\$12,000	\$5,788	48%	-\$6,212	BACWA, Legal, & CBC Funds invested in LAIF
	Higher Yield Investments	\$10,000	\$855	9%	-\$9,145	Alternative Investment Interest
	Total Revenue	\$2,205,469	\$2,022,357	92%	-\$183,112	
BACWA FY18 BUDGET						
	<u>Line Item Description</u>	<u>FY 2018 Budget</u>	<u>Actuals Sept 2017</u>	<u>Actual % of Budget July 2017</u>	<u>Variance</u>	<u>NOTES</u>
EXPENSES						
Labor						
	Executive Director	\$195,998	\$32,666	17%	-\$163,332	3.5% CPI (SF/Oakland/San Jose Metro Area Dec 2016)
	Assistant Executive Director	\$87,975	\$22,786	26%	-\$65,189	3.5% CPI (SF/Oakland/San Jose Metro Area Dec 2016)
	Regulatory Program Manager	\$116,438	\$15,789	14%	-\$100,649	3.5% CPI (SF/Oakland/San Jose Metro Area Dec 2016)
	Total	\$400,411	\$71,241	18%	-\$329,170	
Administration						
	EBMUD Financial Services	\$40,000	\$0	0%	-\$40,000	
	Auditing Services (Maze)	\$6,300	-\$672	-11%	-\$6,972	FY18: \$6,200 Accrued from FY17 to FY18, less \$1,832 paid for FY17 in July 2017.
	Administrative Expenses	\$7,500	\$600	8%	-\$6,900	Travel, Supplies, Parking, Mileage, Tolls, Misc.
	Insurance	\$4,500	\$4,278	95%	-\$222	
	Total	\$58,300	\$4,206	7%	-\$54,094	
Meetings						
	EB Meetings	\$2,500	\$508	20%	-\$1,992	Catering, Venue, other expenses
	Annual Meeting	\$10,000	\$1,000	10%	-\$9,000	Catering, Venue, other expenses. (Deposit to hold venue + deposit to hold caterer)
	Pardee	\$6,000	\$130	2%	-\$5,870	Catering, Venue, other expenses
	Misc. Meetings	\$5,000	\$852	17%	-\$4,148	Holiday Lunch, Committee Chair Lunch, Staff Mtgs, Finance Comm, Summit Partners, CASA, NACWA, Toxicity WS
	Total	\$23,500	\$2,490	11%	-\$21,010	
Communication						
	Website Hosting (Computer Courage)	\$600	\$600	100%	\$0	
	File Storage (Box.net)	\$750	\$0	0%	-\$750	
	Website Development/Maintenance	\$1,200	\$0	0%	-\$1,200	Domains, website changes
	IT Support (As Needed)	\$2,600	\$0	0%	-\$2,600	
	Other Commun (MS, SM, Code42, PollEv)	\$1,100	\$242	22%	-\$858	MS Exchange, Survey Monkey, CrashPlanPro (2)
	Total	\$6,250	\$842	13%	-\$5,408	

**FY 2018
BACWA BUDGET**

EXPENSES						
Legal						
	Regulatory Support	\$2,550	\$0	0%	-\$2,550	2% increase.
	Executive Board Support	\$2,050	\$0	0%	-\$2,050	2% increase.
	Total	\$4,600	\$0	0%	-\$4,600	
Committees						
	AIR	\$50,000	\$3,185	6%	-\$46,815	FY18: Agrmt with Carollo for \$50,000. RPM lunches will also be included, but not in budget.
	BAPPG	\$100,000	\$21,914	22%	-\$78,086	FY18: Includes CPSC @ \$10,000 and Pest. Reg Spt. @ \$15,000
	Biosolids Committee	\$3,100	\$0	0%	-\$3,100	Includes WEF Conf
	Collections System	\$1,000	\$0	0%	-\$1,000	
	InfoShare Groups	\$1,200	\$140	12%	-\$1,060	Funds for 2 workgroups (Asset Mgmt & O&M)
	Laboratory Committee	\$6,000	\$0	0%	-\$6,000	Includes Tech Conf & Training
	Permit Committee	\$1,000	\$0	0%	-\$1,000	
	Pretreatment	\$7,000	\$0	0%	-\$7,000	Includes Training & Factsheet
	Recycled Water Committee	\$1,000	\$0	0%	-\$1,000	
	Misc Committee Support	\$35,000	\$1,985	6%	-\$33,015	Carollo Rule 11-18
	Manager's Roundtable	\$1,000	\$0	\$0	-\$1,000	New line item in FY18
	Total	\$206,300	\$27,224	13%	-\$179,076	
Collaboratives						
	Collaboratives					
	State of the Estuary (biennial)	\$0	\$0		\$0	Biennial in Odd Years. (Paid biennially in odd years for even year conference)
	Arleen Navarret Award	\$1,000	\$0		-\$1,000	Biennial in Even Years
	FWQC (Fred Andes)	\$7,500	\$0	0%	-\$7,500	
	Stanford ERC (ReNUWit)	\$10,000	\$0	0%	-\$10,000	
	CWCCG	\$0	\$0		\$0	
	Misc	\$3,000	\$5,000	167%	\$2,000	FY18: Includes \$5,000 to PPIC approved by Board Sept, 2017
	Total	\$21,500	\$5,000	23%	-\$16,500	
Other	Unbudgeted Items					
	Passthrough	\$0	\$23,100		-\$23,100	Passthrough for Pharm Study; bal at end of FY17: \$23,100
	Other	\$0	\$0		\$0	Misc Expense Items Not Budgeted
		\$0	\$23,100		\$0	
Tech Support	Technical Support					
	Nutrients					
	Watershed	\$880,000	\$880,000	100%	\$0	
	NMS Voluntary Contributions	\$0	\$0		\$0	FY18: \$200,000 add'l funds approved by Board August 2017
	Additional work under permit	\$100,000	\$0	0%	-\$100,000	FY18: Increased at Board's request
	Opt/Upgrade/Annual Reporting Studies	\$372,298	\$0	0%	-\$372,298	FY18: Balance remaining on agreement at end of FY16 less FY17 budgeted amount
	Nutrient Program Coordination	\$50,000	\$0	0%	-\$50,000	
	Voluntary Nutrient Contributions	\$30,000	\$0	0%	-\$30,000	FY18: Palo Alto (\$30k)
	General Tech Support	\$50,000	\$3,195	6%	-\$46,805	
	Risk Reduction	\$0	\$0		\$0	FY18: CIEA extended to 9/30/17 - \$9,853.69 remaining at 7/1/17
	Total	\$1,482,298	\$883,195	60%	-\$599,103	
	TOTAL EXPENSES	\$2,203,159	\$1,017,298	46%	-\$1,185,861	
	NET INCOME BEFORE TRANSFERS	\$2,310	\$1,005,059			
	TRANSFERS FROM RESERVES	\$0				
	NET INCOME AFTER TRANSFERS	\$2,310				

CHECK ON BACWA LIQUIDITY THRESHHOLD

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Bay Area Clean Water Agencies

A Joint Powers Public Agency

Leading the Way to Protect our Bay

October 17, 2017

MEMO TO: Bay Area Clean Water Agencies Executive Board
MEMO FROM: D. Scott Klein, Controller, East Bay Municipal Utility District
SUBJECT: Second Month FY 2018 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, 2017 through August 31, 2017** (two months of Fiscal Year 2018). 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)

BACWA Fund Report as of August 31, 2017

BACWA FUND BALANCES - DATA PROVIDED BY ACCOUNTING DEPT.							
DEPTID	DESCRIPTION	FISCAL YEAR BEGINNING FUND BALANCE	TOTAL RECEIPTS TO-DATE	TOTAL DISBURSEMENTS TO-DATE	MONTH-ENDING FUND BALANCE	OUTSTANDING ENCUMBRANCES	MONTH-END UNOBLIGATED FUND BALANCE
800	BACWA	1,140,008	490,047	98,239	1,531,815	522,320	1,009,495
804	LEGAL RSRV	300,000	-	-	300,000	-	300,000
805	CBC	1,505,790	987,026	3,195	2,489,621	181,710	2,307,911
802	AIR	-	-	-	-	-	-
	SUBTOTAL 1	2,945,799	1,477,073	101,434	4,321,436	704,030	3,617,407
810	WOT	109,916	12,000	237	121,679	-	121,679
	SUBTOTAL 2	109,916	12,000	237	121,679	-	121,679
811	PRP84	117,907	-	-	117,907	-	117,907
	SUBTOTAL 3	117,907	-	-	117,907	-	117,907
	GRAND TOTAL	3,173,622	1,489,073	101,671	4,561,023	704,030	3,856,993

Top Chart: Reflects CASH on the Books Includes Encumbrances
Bottom Chart: Reflects CASH in the Bank Includes Payables (bills received but not paid)
Allocations: Priority for non-liquid investments

BACWA INVESTMENTS BALANCES - DATA PROVIDED BY TREASURY DEPT.													
DEPTID	DESCRIPTION	FISCAL YEAR BEGINNING FUND BALANCE	TOTAL RECEIPTS TO-DATE	TOTAL DISBURSEMENTS TO-DATE	MONTH-ENDING FUND BALANCE	RECONCILIATION TO FINANCIAL STATEMENTS	MONTH-END RECONCILED FUND BALANCE	UNINVESTED CASH BALANCES	LAIF INVESTMENTS AMOUNTS	LAIF INVESTMENTS PERCENTAGE	ALTERNATIVE INVESTMENTS AMOUNTS	ALTERNATIVE INVESTMENTS IDENTIFIERS	ALTERNATIVE INVESTMENT INSTRUCTIONS AND NOTES
800	BACWA	1,140,008	490,047	98,239	1,531,815	39,117	1,570,933	1,492,954	77,979	3%	-	n/a	priority # 3 for allocation
804	LEGAL RSRV	300,000	-	-	300,000	-	300,000	-	-	0%	300,000	AR5	priority # 1 for allocation
805	CBC	1,505,790	987,026	3,195	2,489,621	-	2,489,621	-	2,184,621	97%	305,000	6F5,G64	priority # 2 for allocation
802	AIR	-	-	-	-	-	-	-	-	0%	-	n/a	This fund is gone
	SUBTOTAL 1	2,945,799	1,477,073	101,434	4,321,436	39,117	4,360,554	1,492,954	2,262,600	100%	605,000		
810	WOT	109,916	12,000	237	121,679	-	121,679	121,679	-	0%	-		pass-through funds, no allocation
	SUBTOTAL 2	109,916	12,000	237	121,679	-	121,679	121,679	-	0%	-		
811	PRP84	117,907	-	-	117,907	-	117,907	117,907	-	0%	-		pass-through funds, no allocation
815	PRP50	-	-	-	-	-	-	-	-	0%	-		pass-through funds, no allocation
	SUBTOTAL 3	117,907	-	-	117,907	-	117,907	117,907	-	0%	-		
	GRAND TOTAL	3,173,622	1,489,073	101,671	4,561,023	39,117	4,600,140	1,732,540	2,262,600		605,000		

verification

To be used to cover Reconciliation to Financial Statements (\$0)

Reconciliation to Trial Balance - accrual basis

Per Report above:

General	1,477,073
WOT	12,000
PROP	-
subtotal	1,489,073

Billings-Pending Receipts

4686	Mem Contrib	378,000
4687	Transfer	-
4690	Assoc Contrib	178,626
4696	Other	276,924
4731	State Grant	-
4732	Grant Retention	-
subtotal		833,550

Trial Balance Revenue Accounts

4411	Interest	(6,643)
4686	Mem Contrib	(1,327,095)
4687	Transfer	-
4690	Assoc Contrib	(178,626)
4696	Other	(810,259)
4731	State Grant	-
4732	Grant Retention	-
subtotal		(2,322,623)
Difference		-

BACWA Revenue Report as of August 31, 2017

FUND #	DEPARTMENT	JOB	REVENUE TYPE	AMENDED BUDGET	CURRENT PERIOD			YEAR TO DATE				UNOBLIGATED
					Admin & General	Contributons	Interest, Transfers, Others	Admin & General	Contributons	Interest, Transfers, Others	ACTUAL	
800	BACWA	1011099	Principal's Contributions	487,095	-	487,095	-	-	487,095	-	487,095	-
800	BACWA	1011133	Assoc. & Affiliate Contr	178,573	-	-	-	-	-	-	-	178,573
800	BACWA	0408511	Administrative & General	-	-	-	-	-	-	-	-	-
800	BACWA	1014251	Non-Member Contributions (BAPPG)	3,774	-	-	-	-	-	-	-	3,774
800	BACWA	1011109	Fund Transfers	2,550	-	-	-	-	-	-	-	2,550
800	BACWA	1011117	BDO- Interest Income from LAIF	12,000	-	-	-	-	-	2,952	2,952	9,048
800	BACWA	1011108	BDO Other Receipts	-	-	-	-	-	-	-	-	-
800	BACWA	1014252	BDO Non-Member Contr AIR	6,477	-	-	-	-	-	-	-	6,477
800	BACWA	1014511	BDO-Alternative Investment Inc	10,000	-	-	-	-	-	-	-	10,000
800	BACWA	1014550	BDO-Other Receipts (PHARM)	-	-	-	-	-	-	-	-	-
BACWA TOTAL				700,469	-	487,095	-	-	487,095	2,951	490,047	210,422
802	LEGAL	1011117	BDO- Interest Income from LAIF	-	-	-	-	-	-	-	-	-
LEGAL TOTAL				-	-	-	-	-	-	-	-	-
805	WQA-CBC	1011099	BDO Member Contributions	675,000	-	450,000	-	-	450,000	-	450,000	225,000
805	WQA-CBC	1011108	BDO Other Receipts	800,000	-	533,335	-	-	533,335	-	533,335	266,665
805	WQA-CBC	1011117	BDO- Interest Income from LAIF	-	-	-	-	-	-	2,836	2,836	(2,836)
805	WQA-CBC	1014511	BDO-Alternative Investment Inc	-	855	-	-	855	-	-	855	(855)
805	WQA-CBC	1014528	BDO-Voluntary Nutrient Contrib	30,000	-	-	-	-	-	-	-	30,000
WQA CBC TOTAL				1,505,000	855	983,335	-	855	983,335	2,837	987,026	517,973
TOTAL				2,205,469	855	1,470,430	-	855	1,470,430	5,788	1,477,073	728,396

	DEPARTMENT	JOB	REVENUE TYPE	AMENDED BUDGET	CURRENT PERIOD			YEAR TO DATE				UNOBLIGATED
					Admin & General	Contributons	Interest, Transfers, Others	Admin & General	Contributons	Interest, Transfers, Others	ACTUAL	
810	WOT	1011099	BDO Member Contributions	-	-	12,000	-	-	12,000	-	12,000	(12,000)
810	WOT	1011108	BDO Other Receipts	-	-	-	-	-	-	-	-	-
810	WOT	1011117	BDO- Interest Income from LAIF	-	-	-	-	-	-	-	-	-
WOT TOTAL				-	-	12,000	-	-	12,000	-	12,000	(12,000)

	DEPARTMENT	JOB	REVENUE TYPE	AMENDED BUDGET	CURRENT PERIOD			YEAR TO DATE				UNOBLIGATED
					Admin & General	Contributons	Interest, Transfers, Others	Admin & General	Contributons	Interest, Transfers, Others	ACTUAL	
811	PROP 84			-	-	-	-	-	-	-	-	-
PROP TOTAL				-	-	-	-	-	-	-	-	-

Grand Total				2,205,469	855	1,482,430	-	855	1,482,430	5,788	1,489,073	716,396
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BACWA Expense Detail Report as of August 31, 2017

EXPENSE TYPE	JOB	AMENDED BUDGET	CURRENT PERIOD				YEAR TO DATE				OBLIGATED	UNOBLIGATED
			ENC	PV	DA	JV	ENC	PV	DA	JV		
LABOR												
AS-Executive Director	1011123	195,998	(16,333)	16,333	-	-	163,332	32,666	-	-	195,998	-
AS-Assistant Executive Directo	1011124	87,975	(7,331)	7,331	-	-	72,227	15,748	-	-	87,975	-
AS-Regulatory Program Manager	1011149	116,438	(8,197)	8,197	-	-	100,649	15,789	-	-	116,438	-
ADMINISTRATION												
AS-EBMUD Financial Services	1011125	40,000	-	-	-	-	40,000	-	-	-	40,000	-
AS-Audit Services	1014512	6,300	-	-	-	-	6,300	1,842	-	(6,200)	1,942	4,358
AS-BACWA Admin Expense	1011118	7,500	-	-	431	-	-	-	513	-	513	6,987
AS-Insurance	1011126	4,500	-	-	-	-	-	-	-	-	-	4,500
MEETINGS												
GBS-Meeting Support-Exec Bd	1014513	2,500	-	-	261	-	881	119	261	-	1,261	1,239
GBS-Meeting Support-Annual	1014514	10,000	-	-	500	-	-	-	500	-	500	9,500
GBS-Meeting Support-Pardee	1014515	6,000	-	-	-	-	-	-	-	-	-	6,000
GBS-Meeting Support-Misc	1014516	5,000	-	-	38	-	-	-	38	-	38	4,962
GBS- Meeting Support	1011122	-	-	-	-	-	-	-	-	-	-	-
COMMUNICATION												
CAR-BACWA Website Hosting	1014517	750	-	-	-	-	-	-	600	-	600	150
CAR-BACWA File Storage	1014518	1,200	-	-	-	-	-	-	-	-	-	1,200
CAR-BACWA IT Support	1014519	2,600	-	-	-	-	2,600	-	-	-	2,600	-
CAR-BACWA IT Software	1014520	1,100	-	-	94	-	-	-	168	-	168	932
CAR-BACWA Website Dev/Maint	1011116	600	-	-	-	-	-	-	-	-	-	600
LEGAL												
LS-Regulatory Support	1011107	2,550	-	-	-	-	2,550	-	-	-	2,550	-
LS-Executive Board Support	1011110	2,050	-	-	-	-	2,050	-	-	-	2,050	-
COMMITTEES												
AIR-Air Issues&Regulation Grp	1014253	50,000	-	-	-	-	47,498	2,503	-	-	50,000	-
BC-BAPPG	1011147	100,000	(2,500)	2,500	-	-	65,277	10,724	10,705	-	86,705	13,295
BC-Biosolids Committee	1011101	3,100	-	-	-	-	-	-	-	-	-	3,100
BC-Collections System	1011097	1,000	-	-	-	-	-	-	-	-	-	1,000
BC-InfoShare Groups	1011102	1,200	-	-	-	-	-	-	140	-	140	1,060
BC-Laboratory Committee	1011103	6,000	-	-	-	-	-	-	-	-	-	6,000
BC-Permit Committee	1011098	1,000	-	-	-	-	-	-	-	-	-	1,000
BC-Pretreatment Committee	1011146	7,000	-	-	-	-	-	-	-	-	-	7,000
BC-Water Recycling Committee	1011100	1,000	-	-	-	-	-	-	-	-	-	1,000
BC-Manager's Roundtable	1014777	1,000	-	-	-	-	-	-	-	-	-	1,000
BC-Miscellaneous Committee Sup	1011104	35,000	-	-	-	-	7,407	575	-	-	7,982	27,018
COLLABORATIVES												
CAS-Arleen Navaret Award	1012201	1,000	-	-	-	-	-	-	-	-	-	1,000
CAS-FWQC	1012202	7,500	-	-	-	-	-	-	-	-	-	7,500
CAS-Stanford ERC	1011969	10,000	-	-	-	-	-	-	-	-	-	10,000
CAS-CWCCG	1011148	-	-	-	-	-	-	-	-	-	-	-
CAS-PSSEP	1011112	-	-	-	-	-	-	-	-	-	-	-
CAS-Misc Collaborative Sup	1014521	3,000	-	-	-	-	-	-	-	-	-	3,000
BDO-Contract Expenses (PHARM)												
BDO-Contract Expenses (PHARM)	1014551	-	-	-	-	-	11,550	11,550	-	-	23,100	(23,100)
BACWA TOTAL		720,861	(34,362)	34,362	1,324	-	522,320	91,514	12,925	(6,200)	620,560	100,301
TECH SUPPORT												
WQA-CE Adtl Work Under Permit	1014254	100,000	-	-	-	-	57,000	-	-	-	57,000	43,000
WQA-CE-Technical Support	1011127	50,000	-	-	3,195	-	-	-	3,195	-	3,195	46,805
WQA-CE CASA Chem of Concern	1011128	-	-	-	-	-	-	-	-	-	-	-
WQA-CE Opt-Upgrade Studies	1014255	372,298	-	-	-	-	114,856	-	-	-	114,856	257,442
WQA-CE Risk Reduction	1014023	-	-	-	-	-	9,854	-	-	-	9,854	(9,854)
WQA-CE-Nutrient WS Permit Comm	1014021	880,000	-	-	-	-	-	-	-	-	-	880,000
WQA-CE-Program Mgmt	1011131	50,000	-	-	-	-	-	-	-	-	-	50,000
WQA-CE Voluntary Nutr Contrib	1014529	30,000	-	-	-	-	-	-	-	-	-	30,000
TECH SUPPORT (CBC) TOTAL		1,482,298	-	-	3,195	-	181,710	-	3,195	-	184,905	1,297,393
GRAND TOTAL		2,203,159	(34,362)	34,362	4,519	-	704,030	91,514	16,120	(6,200)	805,465	1,397,694
WOT												
Administrative Support	1011142	-	-	-	-	-	-	-	-	-	-	-
BDO Contract Expenses	1011143	-	-	-	237	-	-	-	237	-	237	(237)
		-	-	-	237	-	-	-	237	-	237	(237)
GRAND TOTAL (BDO, CBC, WOT)		2,203,159	(34,362)	34,362	4,756	-	704,030	91,514	16,357	(6,200)	805,701	1,397,458

Prop 84 Expense Detail Report as of August 31, 2017

[illegible]



Bay Area Clean Water Agencies

A Joint Powers Public Agency

Leading the Way to Protect our Bay

November 1, 2017

MEMO TO: Bay Area Clean Water Agencies Executive Board
MEMO FROM: D. Scott Klein, Controller, East Bay Municipal Utility District
SUBJECT: Third Month FY 2018 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, 2017 through September 30, 2017** (three months of Fiscal Year 2018). 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)

BACWA Fund Report as of September 30, 2017

BACWA FUND BALANCES - DATA PROVIDED BY ACCOUNTING DEPT.

DEPTID	DESCRIPTION	FISCAL YEAR BEGINNING FUND BALANCE	TOTAL RECEIPTS TO-DATE	TOTAL DISBURSEMENTS TO-DATE	MONTH-ENDING FUND BALANCE	OUTSTANDING ENCUMBRANCES	MONTH-END UNOBLIGATED FUND BALANCE
800	BACWA	1,140,008	633,861	134,103	1,639,766	521,650	1,118,116
804	LEGAL RSRV	300,000	-	-	300,000	-	300,000
805	CBC	1,505,790	1,388,486	883,195	2,011,081	181,710	1,829,371
802	AIR	-	-	-	-	-	-
	SUBTOTAL 1	2,945,799	2,022,347	1,017,298	3,950,847	703,359	3,247,487
810	WOT	109,916	106,000	346	215,570	-	215,570
	SUBTOTAL 2	109,916	106,000	346	215,570	-	215,570
811	PRP84	117,907	2,055,741	-	2,173,648	-	2,173,648
	SUBTOTAL 3	117,907	2,055,741	-	2,173,648	-	2,173,648
	GRAND TOTAL	3,173,622	4,184,087	1,017,644	6,340,064	703,359	5,636,705

Top Chart: Reflects CASH on the Books Includes Encumbrances
Bottom Chart: Reflects CASH in the Bank Includes Payables (bills received but not paid)
Allocations: Priority for non-liquid investments

BACWA INVESTMENTS BALANCES - DATA PROVIDED BY TREASURY DEPT.

DEPTID	DESCRIPTION	FISCAL YEAR BEGINNING FUND BALANCE	TOTAL RECEIPTS TO-DATE	TOTAL DISBURSEMENTS TO-DATE	MONTH-ENDING FUND BALANCE	RECONCILIATION TO FINANCIAL STATEMENTS	MONTH-END RECONCILED FUND BALANCE	UNINVESTED CASH BALANCES	LAIF INVESTMENTS AMOUNTS	LAIF INVESTMENTS PERCENTAGE	ALTERNATIVE INVESTMENTS AMOUNTS	ALTERNATIVE INVESTMENTS IDENTIFIERS	ALTERNATIVE INVESTMENT INSTRUCTIONS AND NOTES
800	BACWA	1,140,008	633,861	134,103	1,639,766	28,807	1,668,572	812,053	856,519	38%	-	n/a	priority # 3 for allocation
804	LEGAL RSRV	300,000	-	-	300,000	-	300,000	-	-	0%	300,000	AR5	priority # 1 for allocation
805	CBC	1,505,790	1,388,486	883,195	2,011,081	-	2,011,081	-	1,406,081	62%	605,000	6F5,G64, ME2	priority # 2 for allocation
802	AIR	-	-	-	-	-	-	-	-	0%	-	n/a	This fund is gone
	SUBTOTAL 1	2,945,799	2,022,347	1,017,298	3,950,847	28,807	3,979,653	812,053	2,262,600	100%	905,000		
810	WOT	109,916	106,000	346	215,570	-	215,570	215,570	-	0%	-		pass-through funds, no allocation
	SUBTOTAL 2	109,916	106,000	346	215,570	-	215,570	215,570	-	0%	-		
811	PRP84	117,907	2,055,741	-	2,173,648	-	2,173,648	2,173,648	-	0%	-		pass-through funds, no allocation
815	PRP50	-	-	-	-	-	-	-	-	0%	-		pass-through funds, no allocation
	SUBTOTAL 3	117,907	2,055,741	-	2,173,648	-	2,173,648	2,173,648	-	0%	-		
	GRAND TOTAL	3,173,622	4,184,087	1,017,644	6,340,064	28,807	6,368,871	3,201,271	2,262,600		905,000		

verification

To be used to cover Reconciliation to Financial Statements (\$0)

Reconciliation to Trial Balance - accrual basis

Per Report above:

General	2,022,347
WOT	106,000
PROP	2,055,741
subtotal	4,184,087

Billings-Pending Receipts

4686	Mem Contrib	79,253
4687	Transfer	
4690	Assoc Contrib	45,063
4696	Other	69,960
4731	State Grant	(2,055,741)
4732	Grant Retention	-
subtotal		(1,861,465)

Trial Balance Revenue Accounts

4411	Interest	(6,643)
4686	Mem Contrib	(1,327,095)
4687	Transfer	-
4690	Assoc Contrib	(178,626)
4696	Other	(810,259)
4731	State Grant	-
4732	Grant Retention	-
subtotal		<u>(2,322,623)</u>
Difference		<u>(0)</u>

BACWA Revenue Report as of September 30, 2017

FUND #	DEPARTMENT	JOB	REVENUE TYPE	AMENDED BUDGET	CURRENT PERIOD			YEAR TO DATE				UNOBLIGATED
					Admin & General	Contributons	Interest, Transfers, Others	Admin & General	Contributons	Interest, Transfers, Others	ACTUAL	
800	BACWA	1011099	Principal's Contributions	487,095	-	-	-	-	487,095	-	487,095	-
800	BACWA	1011133	Assoc.& Affiliate Contr	178,573	-	133,563	-	-	133,563	-	133,563	45,010
800	BACWA	0408511	Administrative & General	-	-	-	-	-	-	-	-	-
800	BACWA	1014251	Non-Member Contributions (BAPPG)	3,774	-	3,774	-	-	3,774	-	3,774	-
800	BACWA	1011109	Fund Transfers	2,550	-	-	-	-	-	-	-	2,550
800	BACWA	1011117	BDO- Interest Income from LAIF	12,000	-	-	-	-	-	2,952	2,952	9,048
800	BACWA	1011108	BDO Other Receipts	-	-	-	-	-	-	-	-	-
800	BACWA	1014252	BDO Non-Member Contr AIR	6,477	-	6,477	-	-	6,477	-	6,477	-
800	BACWA	1014511	BDO-Alternative Investment Inc	10,000	-	-	-	-	-	-	-	10,000
800	BACWA	1014550	BDO-Other Receipts (PHARM)	-	-	-	-	-	-	-	-	-
BACWA TOTAL				700,469	-	143,814	-	-	630,909	2,951	633,861	66,608
802	LEGAL	1011117	BDO- Interest Income from LAIF	-	-	-	-	-	-	-	-	-
LEGAL TOTAL				-	-	-	-	-	-	-	-	-
805	WQA-CBC	1011099	BDO Member Contributions	675,000	-	204,747	-	-	654,747	-	654,747	20,253
805	WQA-CBC	1011108	BDO Other Receipts	800,000	-	196,713	-	-	730,048	-	730,048	69,952
805	WQA-CBC	1011117	BDO- Interest Income from LAIF	-	-	-	-	-	-	2,836	2,836	(2,836)
805	WQA-CBC	1014511	BDO-Alternative Investment Inc	-	-	-	-	855	-	-	855	(855)
805	WQA-CBC	1014528	BDO-Voluntary Nutrient Contrib	30,000	-	-	-	-	-	-	-	30,000
WQA CBC TOTAL				1,505,000	-	401,460	-	855	1,384,795	2,837	1,388,486	116,513
TOTAL				2,205,469	-	545,274	-	855	2,015,704	5,788	2,022,347	183,122

	DEPARTMENT	JOB	REVENUE TYPE	AMENDED BUDGET	CURRENT PERIOD			YEAR TO DATE				UNOBLIGATED
					Admin & General	Contributons	Interest, Transfers, Others	Admin & General	Contributons	Interest, Transfers, Others	ACTUAL	
810	WOT	1011099	BDO Member Contributions	-	-	94,000	-	-	106,000	-	106,000	(106,000)
810	WOT	1011108	BDO Other Receipts	-	-	-	-	-	-	-	-	-
810	WOT	1011117	BDO- Interest Income from LAIF	-	-	-	-	-	-	-	-	-
WOT TOTAL				-	-	94,000	-	-	106,000	-	106,000	(106,000)

	DEPARTMENT	JOB	REVENUE TYPE	AMENDED BUDGET	CURRENT PERIOD			YEAR TO DATE				UNOBLIGATED
					Admin & General	Contributons	Interest, Transfers, Others	Admin & General	Contributons	Interest, Transfers, Others	ACTUAL	
811	PROP 84			-	-	2,055,741	-	-	2,055,741	-	2,055,741	(2,055,741)
PROP TOTAL				-	-	2,055,741	-	-	2,055,741	-	2,055,741	(2,055,741)

Grand Total				2,205,469	-	2,695,015	-	855	4,177,445	5,788	4,184,087	(1,978,618)
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BACWA Expense Detail Report as of September 30, 2017

EXPENSE TYPE	JOB	AMENDED BUDGET	CURRENT PERIOD				YEAR TO DATE				OBLIGATED	UNOBLIGATED
			ENC	PV	DA	JV	ENC	PV	DA	JV		
LABOR												
AS-Executive Director	1011123	195,998	-	-	-	-	163,332	32,666	-	-	195,998	-
AS-Assistant Executive Directo	1011124	87,975	(7,038)	7,038	-	-	65,189	22,786	-	-	87,975	-
AS-Regulatory Program Manager	1011149	116,438	-	-	-	-	100,649	15,789	-	-	116,438	-
ADMINISTRATION												
AS-EBMUD Financial Services	1011125	40,000	-	-	-	-	40,000	-	-	-	40,000	-
AS-Audit Services	1014512	6,300	-	-	3,686	-	6,300	1,842	3,686	(6,200)	5,628	672
AS-BACWA Admin Expense	1011118	7,500	-	-	87	-	-	-	600	-	600	6,900
AS-Insurance	1011126	4,500	-	-	4,278	-	-	-	4,278	-	4,278	222
MEETINGS												
GBS-Meeting Support-Exec Bd	1014513	2,500	(127)	127	-	-	753	247	261	-	1,261	1,239
GBS-Meeting Support-Annual	1014514	10,000	-	-	500	-	-	-	1,000	-	1,000	9,000
GBS-Meeting Support-Pardee	1014515	6,000	-	-	130	-	-	-	130	-	130	5,870
GBS-Meeting Support-Misc	1014516	5,000	-	-	814	-	-	-	852	-	852	4,148
GBS- Meeting Support	1011122	-	-	-	-	-	-	-	-	-	-	-
COMMUNICATION												
CAR-BACWA Website Hosting	1014517	750	-	-	-	-	-	-	600	-	600	150
CAR-BACWA File Storage	1014518	1,200	-	-	-	-	-	-	-	-	-	1,200
CAR-BACWA IT Support	1014519	2,600	-	-	-	-	2,600	-	-	-	2,600	-
CAR-BACWA IT Software	1014520	1,100	-	-	74	-	-	-	242	-	242	858
CAR-BACWA Website Dev/Maint	1011116	600	-	-	-	-	-	-	-	-	-	600
LEGAL												
LS-Regulatory Support	1011107	2,550	-	-	-	-	2,550	-	-	-	2,550	-
LS-Executive Board Support	1011110	2,050	-	-	-	-	2,050	-	-	-	2,050	-
COMMITTEES												
AIR-Air Issues&Regulation Grp	1014253	50,000	(683)	683	-	-	46,815	3,185	-	-	50,000	-
BC-BAPPG	1011147	100,000	(486)	486	-	-	64,791	11,210	10,705	-	86,705	13,295
BC-Biosolids Committee	1011101	3,100	-	-	-	-	-	-	-	-	-	3,100
BC-Collections System	1011097	1,000	-	-	-	-	-	-	-	-	-	1,000
BC-InfoShare Groups	1011102	1,200	-	-	-	-	-	-	140	-	140	1,060
BC-Laboratory Committee	1011103	6,000	-	-	-	-	-	-	-	-	-	6,000
BC-Permit Committee	1011098	1,000	-	-	-	-	-	-	-	-	-	1,000
BC-Pretreatment Committee	1011146	7,000	-	-	-	-	-	-	-	-	-	7,000
BC-Water Recycling Committee	1011100	1,000	-	-	-	-	-	-	-	-	-	1,000
BC-Manager's Roundtable	1014111	1,000	-	-	-	-	-	-	-	-	-	1,000
BC-Miscellaneous Committee Sup	1011104	35,000	19,214	1,411	-	-	26,621	1,985	-	-	28,606	6,394
COLLABORATIVES												
CAS-Arleen Navaret Award	1012201	1,000	-	-	-	-	-	-	-	-	-	1,000
CAS-FWQC	1012202	7,500	-	-	-	-	-	-	-	-	-	7,500
CAS-Stanford ERC	1011969	10,000	-	-	-	-	-	-	-	-	-	10,000
CAS-CWCCG	1011148	-	-	-	-	-	-	-	-	-	-	-
CAS-PSSEP	1011112	-	-	-	-	-	-	-	-	-	-	-
CAS-Misc Collaborative Sup	1014521	3,000	-	-	5,000	-	-	-	5,000	-	5,000	(2,000)
BDO-Contract Expenses (PHARM)												
BDO-Contract Expenses (PHARM)	1014551	-	(11,550)	11,550	-	-	-	23,100	-	-	23,100	(23,100)
BACWA TOTAL		720,861	(670)	21,294	14,569	-	521,650	112,809	27,494	(6,200)	655,753	65,108
TECH SUPPORT												
WQA-CE Addl Work Under Permit	1014254	100,000	-	-	-	-	57,000	-	-	-	57,000	43,000
WQA-CE-Technical Support	1011127	50,000	-	-	-	-	-	-	3,195	-	3,195	46,805
WQA-CE CASA Chem of Concern	1011128	-	-	-	-	-	-	-	-	-	-	-
WQA-CE Opt-Upgrade Studies	1014255	372,298	-	-	-	-	114,856	-	-	-	114,856	257,442
WQA-CE Risk Reduction	1014023	-	-	-	-	-	9,854	-	-	-	9,854	(9,854)
WQA-CE-Nutrient WS Permit Comm	1014021	880,000	-	-	880,000	-	-	-	880,000	-	880,000	-
WQA-CE-Program Mgmt	1011131	50,000	-	-	-	-	-	-	-	-	-	50,000
WQA-CE Voluntary Nutr Contrib	1014529	30,000	-	-	-	-	-	-	-	-	-	30,000
TECH SUPPORT (CBC) TOTAL		1,482,298	-	-	880,000	-	181,710	-	883,195	-	1,064,905	417,393
GRAND TOTAL		2,203,159	(670)	21,294	894,569	-	703,359	112,809	910,689	(6,200)	1,720,658	482,501
							TOTAL		1,017,299			
WOT												
Administrative Support	1011142	-	-	-	-	-	-	-	-	-	-	-
BDO Contract Expenses	1011143	-	-	-	109	-	-	-	346	-	346	(346)
		-	-	-	109	-	-	-	346	-	346	(346)
GRAND TOTAL (BDO, CBC, WOT)		2,203,159	(670)	21,294	894,679	-	703,359	112,809	911,035	(6,200)	1,721,004	482,155

PROP 84 Revenue Report as of September 30, 2017

DEPTID	DEPARTMENT	JOB	REVENUE TYPE	AMENDED BUDGET	CURRENT PERIOD			YEAR TO DATE				UNOBLIGATED
					Admin & General	Contributons	Interest, Transfers, Others	Admin & General	Contributons	Interest, Transfers, Others	ACTUAL	
811	Prop84BayAreaIntegRegnlWtrMgmt	1011117	BDO- Interest Income from LAIF	-	-	-	-	-	-	-	-	-
811	Prop84BayAreaIntegRegnlWtrMgmt	1011142	Administrative Support	-	-	-	-	-	-	-	-	-
811	Prop84BayAreaIntegRegnlWtrMgmt	1011691	Water Efficient Landscape Reba	-	-	-	-	-	-	-	-	-
811	Prop84BayAreaIntegRegnlWtrMgmt	1011705	Regional Green Infrastructure	-	-	157,589	-	-	157,589	-	157,589	(157,589)
811	Prop84BayAreaIntegRegnlWtrMgmt	1011706	Hacienda Ave Green St Improvem	-	-	1,746,693	-	-	1,746,693	-	1,746,693	(1,746,693)
811	Prop84BayAreaIntegRegnlWtrMgmt	1012209	Water Efficient LRP	-	-	-	-	-	-	-	-	-
811	Prop84BayAreaIntegRegnlWtrMgmt	1012210	Bay Friendly Landscape TP	-	-	-	-	-	-	-	-	-
811	Prop84BayAreaIntegRegnlWtrMgmt	1012211	Weather Based Irrigation Cntrl	-	-	-	-	-	-	-	-	-
811	Prop84BayAreaIntegRegnlWtrMgmt	1012212	High Efficiency Toilet & UR	-	-	-	-	-	-	-	-	-
811	Prop84BayAreaIntegRegnlWtrMgmt	1012213	High Efficiency Toilet & UI	-	-	-	-	-	-	-	-	-
811	Prop84BayAreaIntegRegnlWtrMgmt	1012214	High Efficiency Clothes Washrs	-	-	-	-	-	-	-	-	-
811	Prop84BayAreaIntegRegnlWtrMgmt	1012215	Napa Co. Rainwater HP	-	-	-	-	-	-	-	-	-
811	Prop84BayAreaIntegRegnlWtrMgmt	1012216	Conservation Program Admin	-	-	-	-	-	-	-	-	-
811	Prop84BayAreaIntegRegnlWtrMgmt	1012219	Flood Infrastructure Mapping T	-	-	30,239	-	-	30,239	-	30,239	(30,239)
811	Prop84BayAreaIntegRegnlWtrMgmt	1012220	Stormwater Improvements & PBP	-	-	8,010	-	-	8,010	-	8,010	(8,010)
811	Prop84BayAreaIntegRegnlWtrMgmt	1012221	Richmond Shoreline & San PFP	-	-	21,114	-	-	21,114	-	21,114	(21,114)
811	Prop84BayAreaIntegRegnlWtrMgmt	1012222	Pescadero Integrated FRAH	-	-	45,905	-	-	45,905	-	45,905	(45,905)
811	Prop84BayAreaIntegRegnlWtrMgmt	1012223	Restoration Guidance, San FC	-	-	7,308	-	-	7,308	-	7,308	(7,308)
811	Prop84BayAreaIntegRegnlWtrMgmt	1012224	SF Estuary Steelhead MP	-	-	28,355	-	-	28,355	-	28,355	(28,355)
811	Prop84BayAreaIntegRegnlWtrMgmt	1012225	Watershed Program Admnstirtn	-	-	10,528	-	-	10,528	-	10,528	(10,528)
PROP 84 TOTAL				-	-	2,055,741	-	-	2,055,741	-	2,055,741	(2,055,741)

PROP 84 Expense Detail Report a of September 30, 2017

[illegible]



BACWA EXECUTIVE BOARD AUTHORIZATION REQUEST

AGENDA NO.: 3

FILE NO.: 18-25

MEETING DATE: 11/17/16

TITLE: Approval of Audited Financial Reports for the Years Ended June 30, 2016 and 2017, and the BACWA Annual Report to its Members for FY2017.

☐ RECEIPT

☐ DISCUSSION

☐ RESOLUTION

☒ APPROVAL

RECOMMENDED ACTION

Approve the two Audited Financial Report for 2016 and 2017 (Basic Financial Statements and Memorandum of Internal Control) provided by EBMUD acting as Treasurer of BACWA, and approve the BACWA Annual Report to its membership for FY2017.

SUMMARY

At the end of each fiscal year EBMUD requests an audit of the BACWA financials and provides the reports to BACWA. The two audits are provided for Board approval (see attached). There were no significant issues found in either audit. In addition, BACWA is required to prepare and Annual Report to its membership which describes the technical and financial activities of the Association for the preceding year.

FISCAL IMPACT

Audits are prepared by Auditors engaged by EBMUD and paid for under the budgeted Audit Fees. The Annual Report to its members is prepared by BACWA staff.

ALTERNATIVES

Do not approve the audited financial reports and the Annual Report to the membership. This is not recommended as the audits and the Annual Report are required by the BACWA JPA.

Attachments

BACWA Basic Financial Statements – see link to BACWA website on Agenda

Memorandum on Internal Control and Required Communications – see link to BACWA website on Agenda

BACWA FY2017 Annual Report to Members

Approved:

Jim Ervin, BACWA Chair

Date: _____



BACWA Annual Report

Fiscal Year 2016/17

As water quality regulation becomes increasingly complex and stringent, BACWA provides technical expertise and a venue for collaboration to its membership, and a public utility perspective to negotiations and partnerships with regulators. With forty POTWs and more than a hundred collection systems in the San Francisco Bay region, BACWA provides a necessary mechanism for effective coordination to ensure good regulation and continued water quality improvements throughout the Bay Area.

The clean water community's focus is now shifting rapidly from toxic pollutant reduction to renewable resource generation; and understanding the potential impacts micro-constituents, compounds detected at often miniscule levels that may present human health or environmental concerns. Concurrently, tightening, and sometimes conflicting, air quality regulations are increasing cross-media challenges. Nutrient science and policy continues to be a major focus for BACWA. Member contributions will continue to support BACWA's goal of ensuring that any future nutrient regulations are well-supported by science and that any necessary reductions in nutrient loading will be equitable and lead to quantifiable improvements in water quality. Even as the issues change, BACWA continues to offer the services to our members and the public that have garnered the agency much respect and success.

Below is a list of BACWA's accomplishments over the previous fiscal year.

List of Accomplishments

Nutrient Activities – see [BACWA Nutrient Webpage](#)

- BACWA and the Nutrient Contract Management Group completed the following tasks associated with the Nutrient Optimization and Upgrade Studies:
 - Participated in monthly conference calls and reviewed invoices to track consultant's progress of the Nutrient Optimization and Upgrade Studies
 - Attended site visits along with the consultant team to identify optimization, sidestream treatment, and upgrade opportunities at individual facilities
 - Finalized the format and assumptions used to develop treatment alternatives for individual facilities
 - Hosted a second workshop to discuss Facility Reports with member agencies
 - Submitted Nutrient Optimization and Upgrade Studies Progress Update to the Regional Water board in compliance with the Nutrient Watershed Permit
 - Distributed questionnaires about CIP projects and recycled water to agency points of contact, and collected data
- Submitted Science Plan Progress Update to the Regional Water Board in compliance with the Nutrient Watershed Permit
- Submitted [second Nutrient Annual Report](#) in compliance with the Nutrient Watershed Permit
- Developed data worksheet to collect nutrient monitoring data for future Annual Reports
- Funded \$880K in scientific studies and Nutrient Management Strategy program coordination



- Participated in the Nutrient Management Strategy Steering Committee and Planning Subcommittee governing the scientific studies
- Participated in the Nutrient Technical Workgroup
- Submitted third-party [critique](#) on Scientific Basis to Assess the Effects of Nutrients on San Francisco Bay Beneficial Use.
- Updated the [Layperson's Nutrient Presentation](#)
- Provided a forum for proponents of emerging technologies for nutrient removal to reach members to collaborate for piloting opportunities.
- Continued to hold BACWA Nutrient Strategy Team meetings to discuss the Nutrient Watershed Permit reissuance
- Worked with Regional Water Board to develop agreement about tenets of second Nutrient Watershed Permit.

Permit Compliance Activities

- Continued funding [risk reduction work](#) in compliance with the Mercury and PCB Watershed Permit.
- Prepared a [letter](#) to the Regional Water Board, on behalf of our members, demonstrating compliance with special studies requirements in NPDES permits.
- Reported participation in the Alternate Monitoring Plan, and contributions to the Regional Monitoring Program to the Regional Water Board.

Regulatory Advocacy

- Conducted regular bimonthly meetings with Regional Water Board staff to discuss regulatory issues of interest to the BACWA community.
- BAAQMD Rule 11-18 – Held meetings with BAAQMD staff and BACWA member Agency Staff to discuss how to revise proposed Rule 11-18 to make it workable for POTWs to comply in a realistic timeline.
- EPA Selenium Criteria – Met with Water Board and EPA staff to present data informing development of Selenium Criteria for the SF Bay and Delta.
- Worked with POTWs Statewide to respond to common issues, such as the State Water Board's updated Enforcement Policy and the new Tribal and Subsistence Fishing Beneficial Uses.
- State Toxicity Plan – Met with State Water Board staff to discuss Staff Draft of Toxicity Plan, released in April 2017.
- Joined CVCWA, SCAP, and NACWA in lawsuit against EPA for requiring the use of the Test of Significant Toxicity, an unpromulgated statistical method.
- Provided the following [comment letters](#):
 - Letters to EPA
 - EPA's proposed Selenium Criteria for SF Bay and Delta, 10-28-16
 - EPA Nutrient Questionnaire, 11-18-16
 - Letters to State Water Board
 - State Water Board Enforcement Policy request for stakeholder involvement, 09-09-16



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

- State Enforcement Policy Update, 10-18-16
- Proposed changes to ELAP, 10-20-16
- Proposed Collaboration on Toxicity Testing Laboratory Study, 10-26-16
- State Water Board draft “Making Conservation a Way of Life”, 12-19-16
- State Water Board New Beneficial Uses and Mercury Objectives, 02-17-17
- State Water Board Climate Change Resolution, 03-03-17
- State Enforcement Policy Update revisions, 03-03-17
- State Revolving Fund intended Use Plan, 5-22-17
- Letters to San Francisco Bay Regional Water Board
 - Field pH Monitoring, 02-16-17
 - City of Pacifica Tentative Order – Toxicity Limits, 02-17-17
 - CCCSD Tentative Order – nutrient requirements, 03-06-17
 - 303(d) list update, 03-13-17
 - EBDA Tentative Order – Chlorine Residual Permitting, 04-03-17
- Letters to BAAQMD
 - BAAQMD Rule 11-18 - 12-2-16
 - BAAQMD Clean Air Plan, 3-9-17
 - AIR Report on POTW Planning and Project Implementation to BAAQMD, 04-04-17
 - BAAQMD Regulation 2 Rules 1, 2 and 6, 06-26-17
- Pesticides Regulatory Letters
 - Lithium Hypochlorite Registration Review 09-09-16
 - Spinetoram reregistration, 11-18-16
 - Copper Compounds Reregistration, 11-18-16
 - Pyrethroids reregistration comment period extension, 12-2-16
 - Pesticides – Evaluation of Existing regulations, 5-15-17

Communication with members

- Conducted routine communication with our membership through the Annual Meeting and Monthly Board meetings.
- Published the monthly [BACWA Bulletin](#)
- Conducted the first BACWA Biosolids survey
- Updated [Sewer Rate Survey](#)
- Maintained BACWA [website](#) to improve usability and access to documents
- Updated the BACWA [Regulatory Issues summary matrix](#)
- Provided support to the informal group, Managers RoundTable, to help provide an on-going forum for Bay Area general managers and directors to convene and discuss issue of mutual concern as well as share information and experiences.

Support Educational, Research, and Advocacy Efforts

- Conducted regional outreach campaigns related to flushable wipes, copper, pharmaceutical disposal, household hazardous waste, building demolition, and FOG



- Provided funding for the California Product Stewardship Council and the Product Stewardship Institute
- Provided funding for the Reinventing the Nation's Urban Water Infrastructure (ReNUWIt), an interdisciplinary, multi-institution research center whose goal is to change the ways in which we manage urban water
- Provided funding for the Federal Water Quality Coalition to represent BACWA on national issues
- Provided administrative assistance for member agency funding of Wastewater Operator Training courses offered through Solano Community College
- Gave input to SFEI on the Microplastic Monitoring and Science Strategy for San Francisco Bay
- Coordinated with SFEI to arrange CEC sampling by volunteer member agencies, and administered contract with analytical laboratory
- Produced [White Paper](#) to explain impact of BAAQMD Proposed Rule 11-18 on members

External Representation and Collaboration

- Provided representation at external groups such as:
 - RMP Technical Review Committee
 - RMP Steering Committee
 - ASC/SFEI Governing Board
 - San Francisco Bay Nutrient Governance Steering Committee
 - San Francisco Bay Nutrient Technical Workgroup
 - SWRCB Nutrient Stakeholder advisory group
 - SWRCB Bacterial Objectives stakeholder group
 - SWRCB Mercury Amendments to the State Plan stakeholder group
 - Summit Partners
 - BAIRWMP
 - NACWA Emerging Contaminants
 - CASA State Legislative Committee
 - CASA Regulatory Workgroup
 - ReNUWIt
 - RMP Microplastics Science Strategy Liaison
 - Bay Area Regional Reliability Task Force
 - AWT Certification Committee
 - WaterReuse Workgroup on Recycled Water Policy
 - San Francisco Estuary Partnership

Grant Efforts

- Managed Administration of Proposition 84, Round 1, grant funds
- Participated in EBMUD's EPA nutrient sidestream treatment grant research activities, including work to develop a Nutrient Trading Framework for the San Francisco Bay
- Worked on revisions for joint proposal, with Santa Clara Valley Water District, and researchers at SFEI, Stanford, and UC Berkeley, to study treatment of reverse osmosis concentrate



BACWA Committees

Support for BACWA's committees is a key means for BACWA to ensure communication between our members, and to formulate positions on emerging issues that accurately reflect the needs of our membership. BACWA maintains the following active committees:

- Asset Management Infoshare
- Bay Area Pollution Prevention Group – see [BAPPG 2016 Annual Report](#)
- Biosolids
- Collection Systems
- Laboratory
- Operations/Maintenance Infoshare
- Permits
- Pretreatment
- Recycled Water



BACWA Financial Report



BACWA
FY 2017 Budget
Approved 4/15/16

100% of Fiscal Year

<u>BACWA FY17 BUDGET</u>	<u>Line Item Description</u>	<u>FY 2017 Budget</u>	<u>Actuals June 2017</u>	<u>Actual % of Budget June 2017</u>	<u>Variance</u>
REVENUES & FUNDING					
Dues	Principals' Contributions	\$477,544	\$477,545	100%	\$1
	Associate & Affiliate Contributions	\$175,072	\$176,850	101%	\$1,778
Fees	Clean Bay Collaborative	\$675,000	\$675,000	100%	\$0
	Nutrient Surcharge	\$800,000	\$800,133	100%	\$133
	Voluntary Nutrient Contributions	\$0	\$285,000		\$285,000
	Other	\$0	\$67,650		\$67,650
Other Receipts	AIR Non-Member	\$6,350	\$6,350	100%	\$0
	BAPPG Non-Members	\$3,700	\$3,699	100%	-\$1
	Other	\$0	\$13,698		\$13,698
Fund Transfer	Special Program Admin Fees	\$2,500	\$14,075	563%	\$11,575
Interest Income	Funds	\$4,000	\$17,391	435%	\$13,391
	Investments	\$0	\$3,906		\$3,906
	Total Revenue	\$2,144,166	\$2,541,297	119%	\$397,131
BACWA FY16 BUDGET					
	<u>Line Item Description</u>	<u>FY 2017 Budget</u>	<u>Actuals June 2017</u>	<u>Actual % of Budget June 2017</u>	<u>Variance</u>
EXPENSES					
Labor					
	Executive Director	\$189,370	\$189,370	100%	\$0
	Assistant Executive Director	\$85,000	\$84,991	100%	-\$9
	Regulatory Program Manager	\$112,500	\$94,770	84%	-\$17,730
	Total	\$386,870	\$369,131	95%	-\$17,739
Administration					
	EBMUD Financial Services	\$40,000	\$38,020	95%	-\$1,980
	Auditing Services (Maze)	\$6,200	\$6,200	100%	\$0
	Administrative Expenses	\$7,500	\$4,807	64%	-\$2,693
	Insurance	\$4,500	\$4,266	95%	-\$234
	Total	\$58,200	\$53,293	92%	-\$4,907
Meetings					
	EB Meetings	\$2,500	\$1,678	67%	-\$822
	Annual Meeting	\$7,000	\$7,127	102%	\$127
	Pardee	\$6,000	\$4,421	74%	-\$1,579
	Misc. Meetings	\$1,100	\$5,607	510%	\$4,507
	Total	\$16,600	\$18,833	113%	\$2,233
Communication					
	Website Hosting (Computer Courage)	\$600	\$600	100%	\$0
	File Storage (Box.net)	\$750	\$720	96%	-\$30
	Website Development/Maintenance	\$1,200	\$0	0%	-\$1,200
	IT Support (As Needed)	\$2,600	\$383	15%	-\$2,217
	Other Communication (MS, SM & Code42)	\$800	\$1,008	126%	\$208
	Total	\$5,950	\$2,711	46%	-\$3,239



BACWA BAY AREA CLEAN WATER AGENCIES

EXPENSES					
Legal					
	Regulatory Support	\$2,500	\$498	20%	-\$2,002
	Executive Board Support	\$2,000	\$0	0%	-\$2,000
	Total	\$4,500	\$498	11%	-\$4,002
Committees					
	AIR	\$50,000	\$51,038	102%	\$1,038
	BAPPG	\$86,000	\$85,732	100%	-\$268
	Biosolids Committee	\$3,100	\$1,952	63%	-\$1,148
	Collections System	\$1,000	\$300	30%	-\$700
	InfoShare Groups	\$1,200	\$1,071	89%	-\$129
	Laboratory Committee	\$6,000	\$2,641	44%	-\$3,359
	Permit Committee	\$1,000	\$0	0%	-\$1,000
	Pretreatment	\$7,000	\$181	3%	-\$6,819
	Recycled Water Committee	\$1,000	\$0	0%	-\$1,000
	Misc Committee Support	\$35,000	\$21,668	62%	-\$13,332
	Total	\$191,300	\$164,583	86%	-\$26,717
Collaboratives					
	Collaboratives				
	State of the Estuary-PSSEP (biennial)	\$20,000	\$20,000	100%	\$0
	Arleen Navarret Award	\$0	\$0		\$0
	FWQC (Fred Andes)	\$7,500	\$7,500	100%	\$0
	Stanford ERC (ReNUWit)	\$10,000	\$10,000	100%	\$0
	CWCCG	\$0	\$0		\$0
	Misc	\$3,000	\$0	0%	-\$3,000
	Total	\$40,500	\$37,500	93%	-\$3,000
Other	Unbudgeted Items				
	Passthrough	\$0	\$44,550		-\$44,550
	Transfer	\$0	\$13,698		-\$13,698
		\$0	\$58,248		-\$13,698
Tech Support	Technical Support				
	Nutrients				
	Watershed	\$880,000	\$880,000	100%	\$0
	Additional work under permit	\$50,000	\$17,367	35%	-\$32,633
	Opt/Upgrade/Annual Reporting Studies	\$18,128	\$275,570	1520%	\$257,442
	Nutrient Program Coordination	\$50,000	\$0	0%	-\$50,000
	Voluntary Nutrient Contributions	\$0	\$285,000		\$285,000
	General Tech Support	\$50,000	\$23,273	47%	-\$26,727
	Chemicals of Concern	\$15,000	\$15,000	100%	\$0
	Risk Reduction	\$32,500	\$21,246	65%	-\$11,254
	Total	\$1,095,628	\$1,517,456	139%	\$421,828
	TOTAL EXPENSES	\$1,799,548	\$2,222,253	123%	\$422,705
	NET INCOME BEFORE TRANSFERS	\$344,618	\$319,044		
	TRANSFERS FROM RESERVES	\$0	\$0		
	NET INCOME AFTER TRANSFERS	\$344,618	\$319,044		

Financial Notes:

Miscellaneous Meetings: Underbudgeted in FY17 – should have included CASA, NACWA, Toxicity Workshop.

Opt/Upgrade: Overbudgeted in FY16, underbudgeted in FY17 to correct.

Unbudgeted Items: Pharmaceutical Studies Passthrough and transfer of AIR Fund balance to BACWA Fund.



List of BACWA Members as of June 30, 2017

Principals

East Bay Municipal Utility District

East Bay Dischargers Authority

- Castro Valley Sanitary District
- City of Hayward
- City of San Leandro
- Oro Loma Sanitary District
- Union Sanitary District

San Francisco Public Utilities Commission

Central Contra Costa Sanitary District

City of San Jose

Associates

Central Marin Sanitation Agency

City of Livermore

City of Palo Alto

City of Sunnyvale

Delta Diablo Sanitation District

Dublin-San Ramon Services District

Fairfield Suisun Sewer District

Napa Sanitation District

Silicon Valley Clean Water

San Mateo Wastewater Treatment Plant

South San Francisco

Vallejo Sanitation and Flood Control District

West County Agency

Affiliates

City of Alameda

City American Canyon

City of Albany

City of Antioch

City of Belmont

City of Benicia

City of Berkeley

City of Brisbane

City of Burlingame

City of Calistoga

City of Crockett

City of Fairfield

City of Millbrae

City of Milpitas

City of Mountain View

City of Petaluma

City of Piedmont

City of Pleasanton

City of Redwood City

City of Richmond

City of San Bruno

City of San Carlos

City of St. Helena

Cupertino Sanitary District

Las Gallinas Valley Sanitary District

Mt. View Sanitary District

North San Mateo Sanitation District

Novato Sanitary District

Pacifica

Pinole/ Hercules Wastewater Treatment Plant



Rodeo Sanitary District
San Francisco International Airport
San Mateo County, Department of Public Works
Sanitary District of Marin County No. 1
Sanitary District of Marin No. 2
Sanitary District of Marin No. 5
Sausalito/Marin City Sanitary District
Sewer Authority Mid-Coastside

Sewerage Agency of Southern Marin
Sonoma County Water Agency
Stege Sanitary District
Tamalpais Community Services District
Treasure Island
West Bay Sanitary District
West Valley Sanitation District
Yountville



BACWA CHAIR AUTHORIZATION

AGENDA NO.: TBD
FILE NO.: 18-24
MEETING DATE: Nov. 17, 2017

TITLE: Increase to Agreement with EOA, Inc. for the development of a scope of work for the technical assistance needed to support the Regional Water Board's staff in the adoption of a chlorine residual Basin Plan Amendment.

☐ RECEIPT ☐ DISCUSSION ☐ RESOLUTION ☒ APPROVAL

RECOMMENDED ACTION

Approve an increase to the agreement with EOA, Inc to continue with the preliminary work associated with this project.

SUMMARY

On June 27, 2017 the BACWA Executive Director authorized an agreement with EOA, Inc. for the period of July 1, 2017 through December 31, 2017, in an amount not to exceed \$4,700.00, to develop a scope of work for the technical assistance needed to support the Regional Water Board staff in the adoption of a chlorine residual Basin Plan Amendment.

At the Pre-Pardee Seminar on September 15, 2017 Tom Hall of EOA reviewed the proposed scope of work to provide support for a Basin Plan Amendment for chlorine residual limits. Due to more interaction with Water Board staff than originally anticipated, the level of effort needed to finalize the scope of work is greater than \$4,700 and will exceed the authorization limits of the Executive Director. Chair authorization to increase EOA's agreement from \$4,700 to \$10,000 is requested in order to provide EOA the additional funds needed to complete the development of the scope of work. associated with this project.

FISCAL IMPACT

For FY18, \$10,000.00 of the total contract value will be funded by the General Technical Support budget line item in the approved FY18 BACWA budget.

ALTERNATIVES

No alternatives were considered since EOA is already working on the project.

Attachments:

*Previous Executive Director Authorization
Amendment*

Approved:

Date: October 23, 2017

Jim Ervin, BACWA Chair



EXECUTIVE DIRECTOR AUTHORIZATION REQUEST

FILE NO.: 18-17

DATE: June 30, 2017

TITLE: Executive Director Authorization for an Agreement with EOA, Inc. for the development of a scope of work for technical assistance needed to support Regional Water Board staff in the adoption of a chlorine residual Basin Plan Amendment.

RECOMMENDED ACTION

BACWA Executive Director authorization for an agreement with EOA, Inc. for the period of July 1, 2017 through December 31, 2017, in an amount not to exceed \$4,700.00, to provide a scope of work for the technical assistance needed to support the Regional Water Board staff in the adoption of a chlorine residual Basin Plan Amendment.

SUMMARY

The BACWA Executive Director will execute an agreement with EOA, Inc. for the period of July 1, 2017 through December 31, 2017 to provide a scope of work for the technical assistance needed to support the Regional Water Board staff in the adoption of a chlorine residual Basin Plan Amendment, not to exceed \$4,700.00. The work will include coordination with the Water Board staff in developing the scope and an estimate of the cost to complete the scope of work.

FISCAL IMPACT

For FY18, \$4,700.00 of the total contract value will be funded by the General Technical Support budget line item in the approved FY18 BACWA budget.

ALTERNATIVES

Do not complete this work – this is not recommended since the chlorine residual limit in the Basin Plan has resulted in many violations over the years that were due to short term chlorine spikes or very low levels of chlorine residual neither of which has any environmental impact but which exceed the 0.0 mg/l limit in the Basin Plan.

Select another consultant to conduct the work – this is not recommended since EOA has an in-depth understanding of the chlorine residual issue as well as knowledge of what is needed to successfully implement a Basin Plan amendment.

Attachments:

1. EOA Scope of Work
2. Rate Sheet

Approved:

David R. Williams

David R. Williams
Executive Director, BACWA

Date:

June 30, 2017



BACWA
BAY AREA
CLEAN WATER
AGENCIES

FILE # 18-17

Date: June 27, 2017

BAY AREA CLEAN WATER AGENCIES

CONSULTING AGREEMENT

TO: Dr. Thomas W. Hall
EOA, Inc.
1310 Jackson Street
Oakland, CA 94612

twhall@eoainc.com
510-832-2852

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 with EOA, Inc. to provide to provide a scope of work for the technical assistance needed to support the Regional Water Board staff in the adoption of a chlorine residual Basin Plan Amendment.

This Agreement covers professional services included in the Scope of Work attached from July 1, 2017 through December 31, 2017 to be performed by EOA, Inc. The work under this agreement will be carried out under the supervision of David R. Williams of BACWA. The total cost of professional services to be performed by EOA, Inc. is not to exceed \$4,700.00 This contract will be funded by the BACWA Budget under the General Technical Support line item in the FY18 BACWA Budget approved on April 21, 2017.

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 EOA, Inc. for professional and competent services rendered to the date of termination upon delivery of assigned work products to BACWA.

EOA, Inc. shall submit invoices to the BACWA Assistant Executive Director via e-mail along with approval of payment by David R. Williams. 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 _____
David R. Williams
BACWA Executive Director

By Ray Guebel
EOA, Inc.

Date June 30, 2017

Date 6-30-17

BACWA EIN: 94-3389334

COMPANY EIN: 94-2977419



Environmental and Public Health Engineering

June 13, 2017

Sent via email to: dwilliams@bacwa.org

Mr. David Williams
Executive Director
Bay Area Clean Water Agencies (BACWA)
PO Box 24055, MS 59
Oakland, CA 94623

Subject: Proposal for Chlorine Residual Basin Plan Amendment Scope of Work Preparation

Dear Dave:

As requested, this letter transmits EOA's proposed scope of work and budget to assist BACWA with developing a scope of work outline for the technical assistance needed to support Regional Water Board (RWB) staff in adoption of a chlorine residual Basin Plan (BP) Amendment.

This proposal provides for approximately 18 hours to coordinate with BACWA members and RWB staff to develop a list of tasks where BACWA will provide technical support to the RWB in development of the documents needed for the BP Amendment. Our total budget is \$4,700, which includes a small allowance for incidental expenses in accordance with the fee schedule. The majority of assistance will be provided by Dr. Tom Hall, EOA Managing Engineer III. The work will be conducted on a time-and-materials basis according to the attached EOA 2017 Fee Schedule.

Work anticipated under this budget includes assistance with the following tasks, as directed by BACWA, and subject to the overall project budget. Work could include items such as:

- Meetings with BACWA and RWB staff
- Identification of chlorine residual water quality criteria for inclusion in the BP
- Identification of strategies of use of dilution credits in calculating effluent limits
- Identification of continuous monitoring compliance determination strategies including calculation of reporting levels and statistically based compliance frequencies
- Review of previous chlorine residual approaches by the SWRCB and other RWBs
- Preparation of draft scope of work for the agreed upon BACWA technical assistance

Sincerely,
EOA, Inc.

A handwritten signature in cursive script that reads "Ray Goebel".

Ray Goebel, P.E.
Vice President – Operations

Attachment: EOA 2017 Fee Schedule



Environmental and Public Health Engineering

2017 FEE SCHEDULE

The following fee schedule covers personnel rates for EOA, Inc. staff.

Our charges are divided into two categories: personnel, and direct expenses. A new fee schedule is issued at the beginning of each year. Charges for all work, except where other arrangements have been made, are based on the new schedule of charges.

PERSONNEL

Personnel charges are for any technical, clerical or administrative work necessary to perform the project. Work tasks include geologic and environmental consulting, engineering and computer services, regulatory liaison, and report preparation. Personnel rates are as follows:

Personnel Category	Hourly Rates
Principal Engineer	\$263
Managing Engineer/Scientist III	\$255
Managing Engineer/Scientist II	\$242
Managing Engineer/Scientist I	\$231
Senior Engineer/Scientist III – Project Leader	\$212
Senior Engineer/Scientist/Planner II	\$194
Senior Engineer/Scientist/Planner I	\$178
Associate Engineer/Scientist III	\$169
Associate Engineer/Scientist II	\$160
Associate Engineer/Scientist I	\$137
Technician	\$108
Clerical/Computer Data Entry	\$76

Charges for professional services are in increments of one quarter-hour. Depositions/legal testimony charged portal-to-portal, at 200% of standard rates, with a four-hour minimum charge. In accordance with California Civil Procedure 2037.7, where applicable, the minimum fee must be paid prior to commencement of testimony. Preparation for court cases is charged on a time-and-materials basis as outlined in this fee schedule.

DIRECT EXPENSES

Reimbursement for expenses directly related to services provided will be charged at cost plus 10%. Examples of such direct expenses include:

- Costs of sub-consultants or subcontractors
- Costs of special fees (insurance, permits, etc.)
- Costs of long-distance telephone, copying, drafting, blueprints, etc. (EOA copies charged at \$0.10 each for B&W, \$0.35 each for color. Large format \$0.15/sq ft for B&W, \$0.50/sq ft for color)
- Costs of color map production supplies (color ink and large format paper)
- Costs or rental of special equipment
- Costs of authorized travel outside Bay Area
- Automobile mileage directly related to services, at current IRS rate (2017 rate is \$0.535/mile)

INVOICES

Invoices are prepared and submitted on a monthly basis, as either final or progress billings and are payable upon receipt unless prior arrangements have been made. Interest of 1-1/2% per month, or the maximum rate allowed by law, is payable on accounts not paid within 30 days.



BACWA
BAY AREA
CLEAN WATER
AGENCIES

FILE # 18-24

Date: October 23, 2017

BAY AREA CLEAN WATER AGENCIES
AMENDMENT TO
CONSULTING AGREEMENT

TO: Dr. Thomas W. Hall
EOA, Inc.
1310 Jackson Street
Oakland, CA 94612

twhall@eoainc.com
510-832-2852

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: Amendment to BACWA Agreement for FY17 with EOA, Inc. to provide to provide a scope of work for the technical assistance needed to support the Regional Water Board staff in the adoption of a chlorine residual Basin Plan Amendment.


This Amendment increases the total cost of professional services to be performed by EOA, Inc. to a new not to exceed amount of \$10,000.00.

This amendment will be funded by the BACWA Budget under the General Technical Support line item in the FY18 BACWA Budget approved on April 21, 2017.

Except as herein expressly modified, the Agreement will remain in full force and effect.

Approved:


By _____
Jim Ervin
BACWA Chair


By _____
EOA, Inc.

Date October 23, 2017

BACWA EIN: 94-3389334

Date 10/24/17
COMPANY EIN: 94-2977419

DRAFT LETTER FOR AGENCY ACCEPTANCE

[Click here to enter a date.](#)

Bruce Wolfe
Executive Officer
San Francisco Bay Regional Water Quality Control Board

Re: Acceptance of Plant-Specific Findings for the Nutrient Optimization and Upgrade Study

Dear Mr. Wolfe,

On behalf of *[Insert Agency Name]*, I have reviewed the individual plant report prepared for the *[Insert Plant Name]* that is included as an appendix to XXXX (group report name). I agree that the recommended approach and cost estimates for reducing nutrients at our facility are reasonable with respect to the context of the overall report. Furthermore, I certify, under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Thank you,

[Insert Name, Title of Responsible Agency Representative]

Planning Subcommittee (PS) Meeting Summary No. 28

October 20, 2017

1:00 pm – 4:00 pm

Water Board Offices

Draft Meeting Summary

Attendees: Tom M., David S., Ian W., Mike C., David W.

Note: Action Items and Decisions are shown in *bold italic*.

1. **Agenda Modifications:** The agenda was reviewed. An item was added entitled Pardee under 5c.
2. **Review Outstanding Action items:** Outstanding action items were reviewed. Several of the items are still being worked on and will be reviewed at the next Planning Subcommittee meeting.
3. **Science Program update**
 - a. **Staffing** – The Science Manager (SM) related an issue with a post doctorate and problems with his Visa.

The SM is beginning to plan for how best to ramp up staffing in light of new funding that will be made available via the 2nd Watershed Permit in 2019.

The SM also reported that as a result of his trip to the Netherlands, he has been able to negotiate a deal with Deltares for a 50/50 match of staff time for modeling work. This will greatly leverage the available funds for modeling under the NMS. Sediment issues will be incorporated into the model.

The SM has also been coordinating with California DWR to help ensure that the model for the Delta will be able to interface with the Bay model which will be a hydrodynamic model integrated with a water quality model. Even if preliminary, outputs from the water quality model will be needed as soon as possible. The sediment transport part of the model should be ready in about one year.

- b. **Other** – A question was raised about regional wetlands monitoring and how BACWA might play into this effort. The consensus was that the RMP governing structure should be used to discuss the wetlands monitoring.

It was reported that \$195k came in from the SEP program and will be directed towards the HAB project. Three other projects are being pursued, all of which were listed in the FY 18 NMS Science program but were unfunded until the SEP funds became available.

- (1) Continuing the mussel sampling
- (2) Analyses of sediment samples from the RMP program over the last 1 ½ years
- (3) Examining other organisms and exposure pathways e.g. anchovies (zooplankton that eats phytoplankton)

A lengthy discussion ensued on the process for identifying projects and using SEP funds.

4. Priority Updates

a. Report-Outs

i. September Steering Committee recap - This item was briefly discussed

ii. Other issues - none

b. Current Issues

i. Measure AA potential proposal – A proposal for the possible conversion of old storage ponds at the San Leandro treatment plant was discussed. The effort would take about \$5k in NMS Program coordination funds and would assist in developing a pilot program and securing additional funding. The wetlands would cover roughly 4 1/2 acres. The PS approved proceeding with the proposal.

c. NMS Calendar Review

i. Review future SC and PS meeting schedules – The next PS meeting is scheduled for Tuesday afternoon November 21st from 1:00 – 4:00.

5. Other Updates

- a. BACWA voluntary contribution to Science Program** - It was reported that BACWA had made a voluntary contribution of \$200k to the NMS Science Program as part of a plan to enhance the science funding under the 2nd Watershed Permit.

- b. **Condition assessment/trend detection analysis & presentation** - It was reported that the discussion at the September Steering Committee meeting on the Assessment Framework was very beneficial. At the meeting an approach was recommended for the next round of studies for refining the assessment of the Bay. The recommended approach was not geared towards defining specific numerics but rather focusing on examining trends in the Bay. This approach will assist the Water Board in determinations on whether or not conditions are getting worse, staying the same or getting better.

It was reported that a new model called the General Additive Model (GAM) has been adopted for the Chesapeake Bay. The model utilizes a statistical approach to analyzing indicators to assess the condition of a waterbody. The model can be used to assist in making decision on management actions.

The SM then presented the approach for the next steps on the assessment framework which was followed by a discussion by the PS. It was agreed that more work is needed on the assessment framework and the plan is for the SM to work with the WB in further development of an assessment framework and keep the SC informed.

Coordination with the IEP was then discussed. IW reported that he is on the agenda for the IEP meeting.

- c. **Pardee** – the group discussed the upcoming BACWA Technical Seminar at Pardee. The SM needs to provide a high-level overview of the Science Program with emphasis on where it is headed in the coming years.

6. **Planning the next Steering Committee meeting**

- a. **Review of Action items from meeting** - There were no specific action items from the meeting
- b. **Integration of monitoring activities with IEP and draft Charter** – discussed above
- c. **Agenda planning** - the December meeting of the SC will discuss FY 19 priorities
- d. **Next steps**

7. **Adjourn or address Parking Lot items:** the meeting adjourned at 4:00 pm.

Parking Lot of Identified PS Future Agenda Items

- a. **Brainstorming on future priorities for the PS**
- b. **EPA nutrient criteria discussion**
- c. **Discuss concept of holding an annual forum on nutrients**

CHLORINE RESIDUAL BASIN PLAN AMENDMENT TECHNICAL ASSISTANCE SCOPE OF WORK (REVISED DRAFT 11/10/2017)

CHLORINE RESIDUAL PROBLEM DEFINITION

Task 1. Compile Recent POTW Chlorine Residual Excursion Information

Review CIWQS records from 1/1/2010 through 12/31/2017 and compile table of chlorine residual excursions reported with assessed minimum mandatory penalties (MMPs) in Region 2. Review excursion associated monthly self-monitoring report (SMR) transmittal letters in CIWQS records and summarize available information on chlorine residual event durations, causes, and actions taken to prevent similar events from reoccurring. Prepare summary statistics and graphical summaries of events from that period including frequency, magnitude and duration. Provide narrative summary and interpretation of causes of most frequent events and corrective actions required. Prepare estimates of recent total annual Bay area POTW dechlorination chemical usage from pooled chemical purchase program and estimates of ranges of excess chemicals added by POTWs to maintain consistent compliance with the 0.0 mg/L effluent limit. Prepare summary tables showing the reduction in dechlorination chemicals and costs that could occur if dosages were able to be reduced by 0.5 mg/L, 1.0 mg/L, or 2.0 mg/L, respectively.

Estimated Hours: 50

POTW WATER QUALITY BASED EFFLUENT LIMIT APPROACH

Task 2. Evaluate Alternative Approaches for Replacing the Basin Plan Table 4-2 Chlorine Residual Technology Based Effluent Limit with WQBELs Based on USEPA Ambient Water Quality Criteria for Chlorine (1984)

Conduct two meetings with RWB staff to evaluate alternative approaches for replacing the Table 4-2 Chlorine Residual instantaneous maximum technology based effluent limit water quality based effluent limits (WQBEL). Options include adding the saltwater and freshwater UPEPA 1-hour average and 4-day average chlorine WQC (below) as WQBELs to Table 4-2, including the EPA WQC elsewhere in the Basin Plan Implementation Plan (Chapter 4), or adopting the 1-hour average and 4-day average chlorine WQC as Water Quality Objectives in Basin Plan Chapter 3.

- Saltwater: **13 ug/L 1-hour average**; 7.5 ug/L 4-day average
- Freshwater: **19 ug/L 1-hour average**; 11 ug/L 4-day average

Based on the results of the two RWB meetings prepare summary of recommended approach for Basin Plan modifications and any additional guidance deemed necessary for calculation of WQBELs such as on use of deepwater and shallow-water discharge dilution credits. Prepare technical and regulatory rationale for why WQBELs should be expressed on a 1-hour basis instead of average weekly and average monthly, as is otherwise required by NPDES regulations for POTWs unless deemed impractical. Rationale should address the impracticality of adequately protecting aquatic life with weekly or monthly average limits based on the short-term exposure toxicity of chlorine.

Estimated Hours: 60

Task 3. Evaluate Approaches for Determining Compliance with a 1-Hour Average Limit Using Continuous Monitoring Data

Compliance with the current 0.0 mg/L instantaneous maximum effluent limit, for purposes of CIWQS reporting and MMP assessment, is determined based on 24-daily every hour on the hour readings per an agreement developed between the RWB and BACWA in 2004. The USEPA chlorine WQC is expressed as a 1-hour average value. The WQC needs to be translated into an NPDES permit effluent limit using SIP procedures, including dilution where applicable. The Basin Plan is silent on how to use continuous monitoring data for compliance determination (Section 4.7.3). The SWB draft Total Residual Chlorine (TRC) policy (June 2006) proposed an approach averaging 60 one minute readings every hour for compliance determination. The POTW community and instrumentation professionals deemed this to be infeasible given on-line monitoring system limitations.

The SWB April 2008 on-line field monitoring system report recommended a reporting frequency of every 5-minutes (averaging 12 readings per hour). The Santa Ana RWB uses a compliance determination protocol based magnitude and duration of individual excursions and receiving water dilution. Evaluate alternative compliance determination protocols and develop draft potential language for inclusion in Basin Plan Section 4.7 Implementation of Effluent Limits.

Provide an analysis of implementing a potential 1-hour WQBEL as an instantaneous not-to-exceed value for compliance purposes in addition to evaluating alternative averaging period approaches. Evaluate how to address averaging values below a potential Reporting Level (DNQs) if one were to be established. Summarize pros and cons of the options and rationale for the apparent best alternative to implement.

Estimated Hours: 80

Task 4. Conduct Electronic Research for Examples of Minimum (Reporting) Levels Developed for On-Line Continuous Monitoring Chlorine Residual Systems

The SIP establishes MLs for evaluating compliance with priority pollutant based effluent limits. TRC is not a priority pollutant but is a toxic pollutant. MLs (RLs) have not been established for TRC measured by continuous on-line monitoring systems by the SIP or by this RWB. SIP section 2.4.3 provides general guidance for establishing an ML not contained in SIP Appendix 4. TRC WQBELs calculated using actual dilution credit, as is now done for total ammonia WQBELs, are unlikely to result in compliance problems for deep water dischargers. However, WQBELs calculated for shallow-water dischargers using zero dilution credit or limited dilution credit (e.g., Basin Plan Table 4-6 cyanide WQBEL allowed dilution credit) would likely result in widespread non-compliance in the absence of a technically defensible reporting level (RL) set at a level above the WQBEL. Conduct electronic literature search for examples of chlorine residual MLs/RLs established for on-line continuous monitoring systems, as distinguished from laboratory discrete sample analyses. Evaluate potential applicability of on-line continuous analyzer RL recommended in SWB April 2008 study. Summarize pros and cons of the options and rationale for the apparent best RL alternative to implement, or existing data gaps and recommended approach for additional data collection needed to develop a defensible RL.

Estimated Hours: 30

BASIN PLAN AMENDMENT PREPARATION TECHNICAL ASSISTANCE

Task 5. Summarize Technical and Regulatory Analyses from Task 1 – 4 in Suitable Format for Development of Draft Basin Plan Amendment Documents

Compile technical and regulatory analysis information developed in Tasks 1 – 4 and organize it in a manner and format consistent for use as supporting text in a BPA example to be selected by RWB staff. Existing background information and language developed by SWB staff as part of their Draft 2006 *Total Residual Chlorine and Chlorine-Produced Oxidants Policy of California* used to the extent applicable to this TRC BPA. Draft BPA language will be developed based on close consultation with RWB staff.

Estimated Hours: 110

Task 6. Provide Technical Support for Completing CEQA Checklist and Related Portions of the Substitute Environmental Document (SED)

Coordinate with RWB staff to summarize the results of Tasks 1 – 4 in a format suitable for a CEQA project alternatives analysis, including the no project (no action) alternative and a draft economic assessment. Coordinate with RWB staff to determine if additional third party (CEQA consultant) assistance will be needed to complete portions of the CEQA checklist and SED. If needed, coordinate with RWB and BACWA to develop draft scope of work for CEQA consultant assistance to be funded separately by BACWA.

Estimated Hours: 30

Task 7. Water Board Coordination, Meetings, Document Reviews

Coordinate with RWB staff during the BPA technical support process to ensure staff remain apprised of project status and progress via phone, email, and in-person meetings. Help set-up and facilitate approximately quarterly coordination meetings. Provide drafts of work products to staff with sufficient advance notice to allow for their timely review and comment. Assumes project will be conducted over approximately an 18-month period from notice to proceed.

Estimated hours: 30

OPTIONAL FUTURE TASKS

Task 8. Coordinate Additional Studies to Develop Reasonable RL for POTWs

The intent of Task 4 is to identify from literature reviews and consultation with RWB staff a reasonable RL that could be applied to continuous on-line TRC monitoring systems for compliance reporting purposes. Adoption of a reasonable RL is essential for compliance by shallow-water discharges with TRC WQBELs. If Task 4 finds that insufficient information exists to select a reasonable RL, work would be initiated under this Task 8 to produce a workplan to develop the additional information stakeholders believe necessary to develop a reasonable RL. It is assumed that the focus of the workplan would be on coordinating additional field studies at representative POTWs to update and augment the work coordinated by SWB staff and reported

in the SWB 2008 Study “Investigation of Continuous Online Measurement of Chlorine and Sulfite in Wastewaters.”

Coordinate with BACWA to identify POTW’s with continuous monitoring chlorination and dechlorination systems to participate in the study and potentially contribute additional funding to support full implementation of this Task 8. Assumes that there would be a lead BACWA POTW to oversee the actual field study portion of the project at the volunteer POTWs. Coordinate with BACWA to develop a scope of work for a control system technology firm with expertise in chlorination and dechlorination control systems to assist in developing the workplan for this study and to provide as-needed technical support during the study. Goals of the study would be to collect sufficient on-line and ancillary bench-top data to support development of a reasonable RLs and associated data reporting frequencies for continuous on-line monitoring TRC compliance evaluation and reporting.

Estimated Hours: 100

Task 9. Supplemental RWB BPA Technical Assistance

The intent of Tasks 1 – 7 is to develop and then package the information needed to support the RWB staff in preparing a complete draft BPA package suitable for submittal to their Board for consideration of approval. There are multiple steps in the BPA development and approval process and there may be unexpected data collection or analysis requirements identified during the conduct of Tasks 1 – 7. This Task 9 would provide additional as-needed BPA technical assistance to RWB staff to help complete the TRC BPA process.

Estimated Hours: 100

**CHLORINE RESIDUAL BASIN PLAN AMENDMENT TECHNICAL ASSISTANCE
BUDGET SUMMARY TABLE / ESTIMATED TIMING**

Task Descriptions	Hours	Budget (\$)	Comments
Chlorine Residual Problem Definition			
Task 1. Chlorine Excursions and Bisulfite Use	50	13,000	
POTW WQBEL Approach			
Task 2. Basin Plan WQBEL Approaches	60	15,000	
Task 3. Compliance Determination Approaches	80	20,000	
Task 4. Reporting Limit (RL) Approaches	30	8,000	
BPA Preparation Technical Assistance			
Task 5. BPA Technical/Regulatory Sections	110	28,500	
Task 6. SED Technical/Regulatory Sections	30	7,500	
Task 7. RWB Coordination	30	7,500	
Cumulative Total	390	99,500	
Optional Future Tasks			
Task 8. Reasonable RL Additional Studies	100	25,000	
Task 9. Supplemental RWB BPA Assistance	100	25,000	



[Date]

Dave Pine
Chair, Governing Board of the San Francisco Bay Restoration Authority
1515 Clay Street, 10th Floor
Oakland, CA 94612

SUBJECT: Support for San Leandro Treatment Wetland Project: Restoring derelict lands and demonstrating multi-benefit options for contaminant removal and sea level rise adaptation at SF Bay wastewater plants

Dear Chairman Pine and Members of the Restoration Authority Governing Board:

On behalf of the Bay Area Clean Water Agencies (BACWA), I am writing to express support for the City of San Leandro's Measure AA application for funding of their project to convert and restore a marginal wastewater storage pond into a multi-benefit treatment wetland. BACWA is a joint powers agency, formed under California Government Code section 6500 et seq.; our members own and operate publicly-owned treatment works (POTWs) and sanitary sewer systems that provide sanitary services to over 6.5 million people in the nine-county San Francisco Bay Area. BACWA members are public agencies, governed by elected officials and managed by professionals charged with protecting the environment and public health.

Many BACWA agencies are moving from a model of wastewater treatment to wastewater resource reuse. Significant reductions in wastewater discharges to the Bay have been achieved through conservation, water reuse and recycling. Besides using the water resource to enhance the local wetlands communities, the proposed project will make beneficial reuse of the nitrogen and phosphorus in wastewater. In addition, UC Berkeley researchers have demonstrated at the Discovery Bay Treatment Plant and Oro Loma Sanitary District that such systems can drastically reduce the levels of pharmaceutical compounds in discharged water. Additionally, this project will implement elements of the pilot project at Discovery Bay to demonstrate sea level rise adaptation and remediation of contaminated lands, which are constraints faced by numerous shoreline sites along San Francisco Bay. The proposed project will also test some new designs that will incorporate strategies to maximize rare and valuable habitats at the edge of the Bay that would allow easier public acceptance of wider adaptation of the project's findings.

San Leandro's proposed project will help address these several overlapping issues by initiating a demonstration project in cooperation with Oro Loma Sanitary District, the East Bay Dischargers Association, and others that were instrumental in implementing, monitoring, and integrating the public into the Oro Loma Ecotone Levee Project. Utilizing the nutrients in the treated effluent will help to develop the wetlands while reducing any concentration of pharmaceuticals in the effluent will improve the Bay's water quality and will potentially inspire other POTWs to follow course. Strategies such as converting disturbed or unused lands to multi-benefit wetlands could be implemented by a number of BACWA agencies throughout the North and South Bay, improving the water quality and environment of the South Bay.

BACWA is confident San Leandro will be able to successfully complete all tasks indicated in this proposal. We fully support the proposal and hope you will seriously consider funding it. If you have any questions, please contact me at (510) XXX-XXXX.

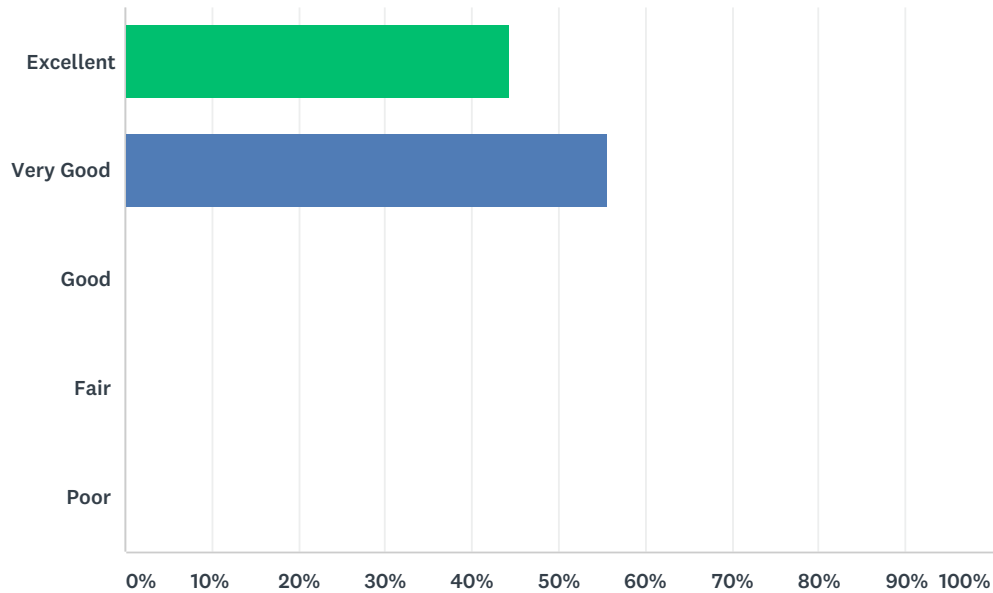
Sincerely,

David Williams

Executive Director

Q1 Overall how would you rate the 2017 Pardee Seminar?

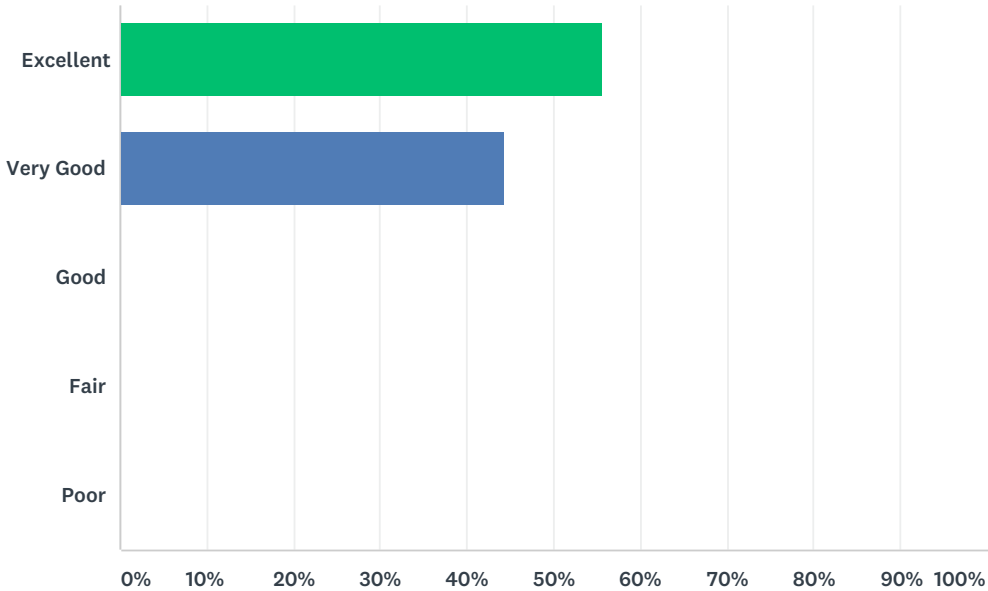
Answered: 9 Skipped: 0



ANSWER CHOICES		RESPONSES	
Excellent		44.44%	4
Very Good		55.56%	5
Good		0.00%	0
Fair		0.00%	0
Poor		0.00%	0
TOTAL			9

Q2 Overall, how would you rate the Pardee Venue?

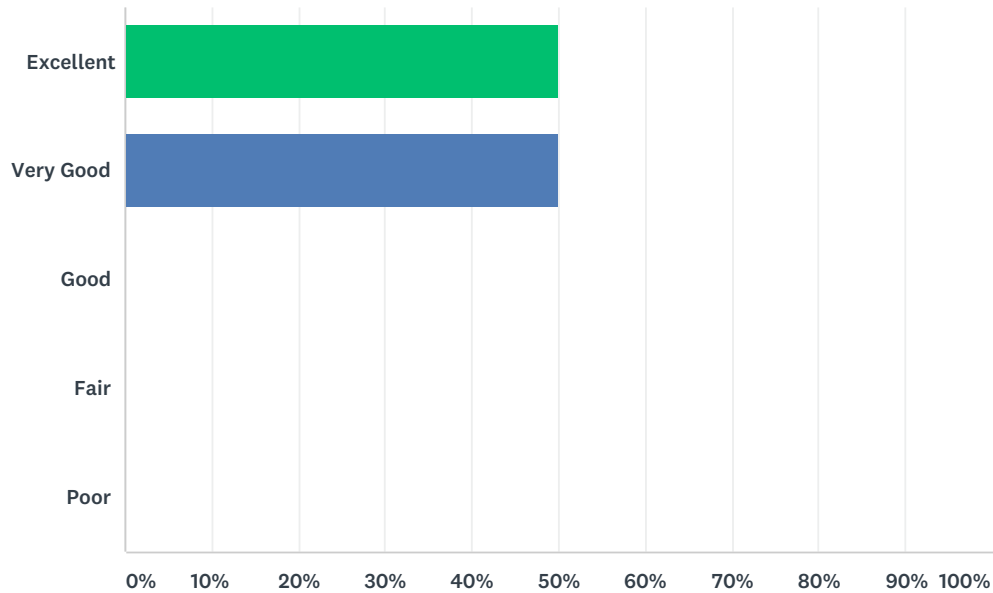
Answered: 9 Skipped: 0



ANSWER CHOICES		RESPONSES	
Excellent		55.56%	5
Very Good		44.44%	4
Good		0.00%	0
Fair		0.00%	0
Poor		0.00%	0
TOTAL			9

Q3 How would you rate the caterer?

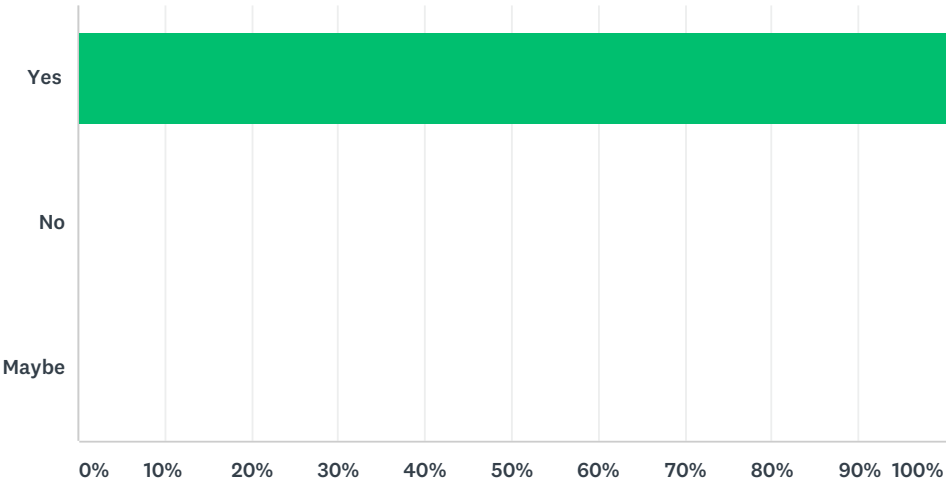
Answered: 8 Skipped: 1



ANSWER CHOICES	RESPONSES	
Excellent	50.00%	4
Very Good	50.00%	4
Good	0.00%	0
Fair	0.00%	0
Poor	0.00%	0
TOTAL		8

Q4 Do you plan on attending next year?

Answered: 9 Skipped: 0



ANSWER CHOICES	RESPONSES	
Yes	100.00%	9
No	0.00%	0
Maybe	0.00%	0
TOTAL		9

Q5 Do you have any comments regarding the length of the event?

Answered: 6 Skipped: 3

I prefer the two day/one night length. It is easier on the schedule.

Two Day's seems just right

End by 2pm on Friday due to Fri traffic - perhaps just do working lunch instead of a break.

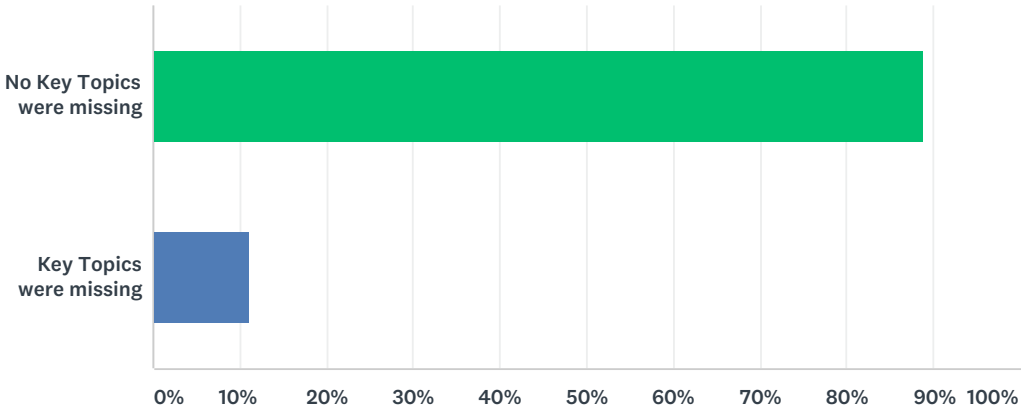
Keep format same as this year

Grateful for the sound planning and coordination. Very well done. A+ BACWA staff.

I think it would have been good if we were not so rushed on Friday afternoon. I think it would be good in the future for the BACWA Board to review all presentations by BACWA members or consultants. Ideally, BACWA should be speaking with one voice in meetings with the Regional Board.

Q6 Key Topics

Answered: 9 Skipped: 0



ANSWER CHOICES		RESPONSES	
No Key Topics were missing		88.89%	8
Key Topics were missing		11.11%	1
TOTAL			9

Q7 Other Comments

Answered: 0 Skipped: 9

 No matching responses.

ANSWER CHOICES	RESPONSES	
I have additional comments and/or suggestions for improvement of the event	0.00%	0
TOTAL		0



Partnering for our Water Future — One Drop at a Time

What is Silicon Valley Clean Water?

Silicon Valley Clean Water (SVCW) is a regional wastewater treatment facility operated under a Joint Powers Authority (JPA) serving a quarter-million customers in southern San Mateo County. During the summer, SVCW cleans a daily water flow of up to 13 million gallons per day (MGD), with wet weather peak flows of up to 80 MGD. Member agencies include the cities of Belmont, San Carlos, and Redwood City, and the West Bay Sanitary District.

As our resources become ever more limited and our technology improves, water, biosolids, and energy resource recovery opportunities are more cost effective than ever. To provide the highest level of service to our customers, and prepare for the future of water reuse, we focus on four key areas:

Water

California's recent drought reminded us that water is one of our most precious resources. Every day, SVCW cleans water so it can be beneficially released to the environment or recovered for reuse as recycled water. Using recycled water has many benefits including using less energy by importing less water, taking advantage of the energy already expended to clean the water, and protecting strained habitats by keeping more water in rivers and streams during droughts. The City of Redwood City has already reduced the amount

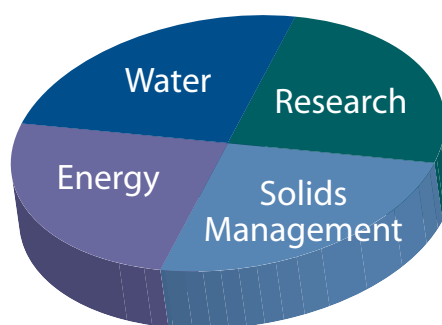
of drinking water it imports and the energy required to transport it by using up to 750 acre-feet of SVCW's recycled water annually—over a quarter-billion gallons each year! SVCW is working with our regional partners to increase water recycling and take advantage of the benefits of integrated water management. By recognizing locally sustainable water supplies, we become regionally self-reliant and reduce the energy used and the amount of water transported from distant sources.

Energy

By recovering natural gas for energy, SVCW meets up to 70% of the facility's electrical energy needs. Furthermore, almost 100% of the heat needed for plant processes is recovered through cogeneration. This reduces the amount of carbon-based energy we purchase, meaning we save money and reduce greenhouse gas emissions. SVCW actively looks for ways to reduce our energy demand and convert biosolids to energy. Research projects like food waste digestion and SAF-MBR (Staged Anaerobic Fluidized bed-Membrane Bioreactor) show significant promise towards increasing our renewable natural gas supplies.

Solids Management

SVCW processes and recovers biosolids for reuse in composting and farming. Some portion of biosolids are used as a necessary daily cover on landfills, rather than importing soils. Through technologies like pyrolysis and SAF-MBR, we can significantly reduce the amount of biosolids produced, saving transportation costs and reducing GHG emissions.



Research

SVCW is a leader in exploring and implementing new technologies to maximize efficiencies, improve processes, and reduce costs to treat water. In

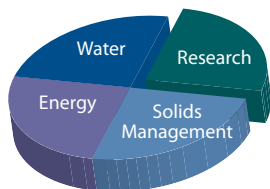
recent years, the water, energy, and solids management field is showing significant advances in technology to improve treatment processes, produce energy, address regulations, protect our environment, and recover our limited resources at a lower cost. It's therefore critical for SVCW to continually learn about and research new ways to help reduce our impact on the environment and become more sustainable and regionally self-reliant.

Silicon Valley Clean Water Research — Exploring New Technologies for Resource Recovery

Higher-Quality Water • Greater Energy Efficiency & Recovery • Cost Savings • Reduced Biosolids and GHG Emissions

What is SAF-MBR?

SAF-MBR (Staged Anaerobic Fluidized bed-Membrane Bioreactor) uses anaerobic microbes to help purify water instead of their aerobic cousins that currently require a remarkable 3% of the nation's electricity demand to treat water. This process has not changed in over 100 years. Research is showing that anaerobic microbes can



purify water with greater benefits, including less energy use.

Other potential benefits of SAF-MBR include flipping the energy balance by producing more energy than is used to treat water, generating significantly less GHG emissions, and reducing the generation of biosolids by up to 30% or more. By converting more biosolids to renewable energy, we also reduce the number of trucks and energy needed to haul them away for landfill disposal. We are also discovering that anaerobic microbes may be capable of consuming stubborn pollutants more efficiently and with less energy. By increasing the efficiency and effectiveness of the wastewater treatment process, we reduce the burden for advanced treatment, and increase the robustness of the water purification barrier prior to potable reuse.

The current energy-intensive aerobic process injects oxygen to sustain microbes as they consume organic material. In contrast, the anaerobic process uses different, slower-growing microbes that don't need oxygen and produce greater amounts of methane (natural gas) as a byproduct, which can be used for energy or new biodegradable materials. By fluidizing activated carbon as a substrate where anaerobic microbes can attach themselves, the efficiency with which they consume organic matter and grow is increased. The water is then filtered using an ultrafiltration Membrane Bioreactor (MBR), creating high-quality water suitable for non-potable reuse. SAF-MBR consolidates current secondary treatment, clarification, and tertiary filtration into a smaller footprint with fewer moving parts, simplifying operation and maintenance of these complicated treatment systems.

Benefits of SAF-MBR

- The energy balance is inverted, producing energy instead of demanding it.
- Biosolids are reduced by 30% or more, thus reducing energy, truck traffic, and GHG emissions.
- A smaller treatment train footprint offers more efficient use of facilities, resulting in operations and maintenance benefits.
- By removing Chemicals of Emerging Concern (CECs) more efficiently, SAF-MBR can improve water quality, reducing the burden on advanced treatment trains for potable reuse.

What is SVCW's role in this project?

In partnership with Stanford University, SVCW applied for a grant from the California Energy Commission (CEC), received the highest ranking of all applicants, and was awarded the \$2 million maximum grant amount. In addition to SVCW's cash contribution of up to \$500,000, other cash contributions from Stanford as well as in-kind technology/equipment and engineering contributions from SUEZ Water Technologies & Solutions, Trojan Technologies, Santa Clara Valley Water District, and LG NanoH2O were received. Cash and in-kind contributions total about \$3.2 million, leveraging SVCW's cash contribution to better than a 6:1 ratio.

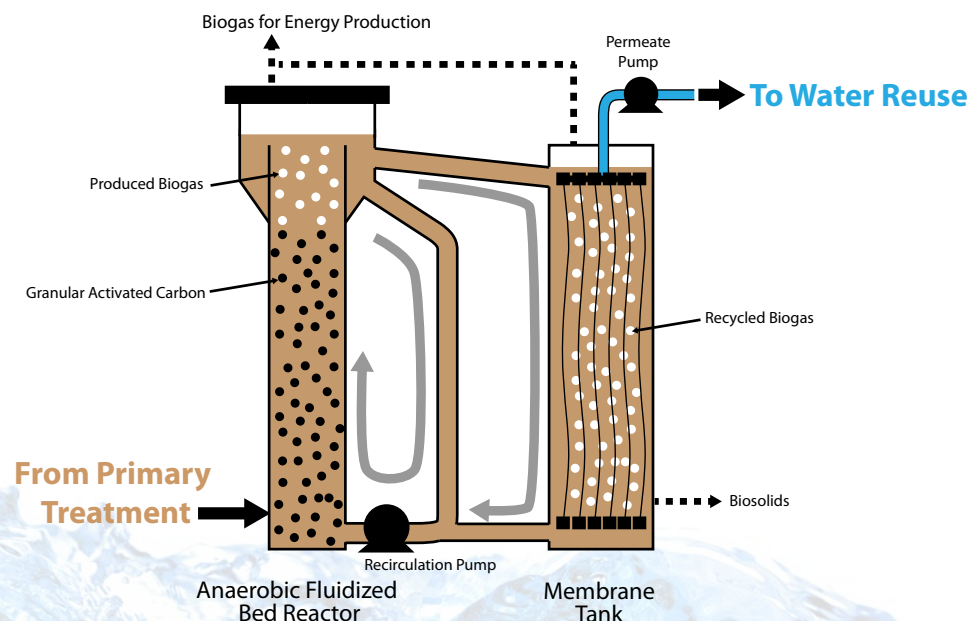
This SAF-MBR demonstration project (the largest of its kind in the world) will be built at the SVCW plant as a "closed-cycle," utilizing primary effluent and influent which will then go back into the regular treatment process. Once proven at this scale, operational and maintenance knowledge gained from this demonstration project will be used to understand the feasibility of further process scaling to meet the needs of SVCW and open the door to this new technology for other water treatment facilities throughout the world.

SVCW continues to seek increased efficiencies in resource recovery. Assisting in the development of new innovative approaches like SAF-MBR can provide operational benefits to our facility, and to the water treatment industry as a whole.



Collaborating with research partners, like Stanford and the CEC, helps SVCW maintain awareness of pivotal shifts in technologies that reduce costs in our industry. This collaboration also provides mutually-beneficial learning opportunities for the water treatment industry today, and for the operators, engineers, and scientists of tomorrow.

Diagram: SAF-MBR Process





FACT FINDING TRIP TO DENMARK

October 30th – November 3rd 2017

By invitation of the Danish Ministry of Foreign Affairs only

WASTEWATER AND RESOURCE RECOVERY

-- Subject to changes --

Saturday, October 28th

Departure from the US

Delegation consists of Illinois, Indiana & California based water professionals.

Sunday, October 29th

Participants arrive at Copenhagen Airport (CPH)

Note: Denmark is 9 hours ahead of California

Participants check-in to Hotel Strand in Copenhagen

Hotel Strand, Havnegade 37, 1058 København K

<https://www.copenhagenstrand.com/the-hotel/>

6:00 p.m.

Meet in hotel lobby at 5.30 PM for a walk to Papirøen

Dinner at Papirøen – Copenhagen Streetfood

<http://copenhagenstreetfood.dk/en/>

Monday, October 30th

7:50 a.m.

Meet in hotel lobby (Checked out of hotel)

Departure from hotel to State of Green

Vesterbrogade 1, 1620 København V

8:30 a.m.

Presentation of the Danish transition to a green economy by Tanya

Jacobsen, State of Green

10:15 a.m.

Transport to DHI

Agern Alle 5, 2970 Hørsholm

11:00 a.m.

Regulatory drivers and framework for the Danish WWTPs by Mikkel Hall, The Danish Environmental Protection Agency

12:00 p.m.

Lunch at DHI

1:00 p.m.

Optimization of the treatment processes and energy consumption at WWTP's through the use of advanced controls

- Biological processes

- Return Sludge Control

2:30 p.m. Transport to Solrødgård,
Ægirsvej 4, 3400 Hillerød

3:00 p.m. Tour of Solrødgård WWTP construction site

5:00 p.m. **Transport to Ferry** - Dinner on the Kattegat Sea
Oddenvej 388, 4583 Sjællands Odde

Tuesday, October 31th

7:50 a.m. **Meet in hotel lobby**
Departure from hotel to Marselisborg WWTP,
Sumatravej 4, 8000 Aarhus C

8:30 a.m. **Aarhus Water's journey towards carbon and energy neutrality** by Claus Homann, COO

10:00 a.m. **Marselisborg the Energy producing WWTP** by Flemming Husum
- Energy Savings and Better Utilization of the Plant
- Energy production, Carbon Footprint & Sustainability
- Annamox process

Tour of Marselisborg WWTP
by Flemming Husum

12:00 p.m. Lunch

1:00 p.m. **How Danish technology providers push the limits on energy neutrality in wastewater treatment**
- Considerations when choosing the right equipment
By: Danfoss, Nissen Energiteknik, Landia
Moderator: Jacob Vind, WTA

Roundtable discussions on energy efficiency and production.

4:00 p.m. Transport to hotel

6:00 p.m. **Meet in hotel lobby** – Raadhuus Kafeen
<https://raadhuus-kafeen.dk/>

Wednesday, November 1st

7:50 a.m. **Meet in hotel lobby**
Departure from hotel to Egå WWTP
Mosevej 57, 8240 Risskov

8:30 a.m. **Innovation in projects**
- Marselisborg ReWater (Mikkel Thomassen, Smith Innovation)
- Re/In-novation of Egå WWTP (Flemming B. Møller)
- Touring the upgraded treatment plant (Flemming B. Møller)

12:00 p.m. **Lunch**

1:00 p.m. **How Danish technology providers push the limits on energy neutrality in wastewater treatment**
- Considerations when choosing the right equipment

by Grundfos, Linak, Applied Biomimetic
Moderator: Jacob Vind, WTA

Roundtable discussions on automation and advanced controls to achieve energy and water quality targets

4:00 p.m. Departure to hotel

6:00 p.m. **Meet in hotel lobby** - Dinner at Café Slap af
<http://slapaf.nu/>

Thursday, November 2nd

7:50 a.m. **Meet in hotel lobby**

Departure from hotel to Aarhus Vand
Gunnar Clausens Vej 34, 8260 Viby J

8:30 a.m. **Presentation by US participants**

- Presentation of your plant
- What are the challenges you face?
- Your visions for the future

12:00 p.m. **Lunch**

1:00 p.m. **Presentation of results achieved in the US with Glenbard Wastewater Authority** Peter Andreasen, DHI

1:45 p.m. **Group work** - Brainstorming on potentials and solutions for the American WWTPs in collaboration with the WTA partners

Wrap-up

Water Technology Alliance Next Steps & Follow-ups

WTA technology alliance members will participate throughout the day

4:00 p.m. Departure for hotel

6:00 p.m. **Meet in hotel lobby** - Dinner at Flammen at 6:30 p.m
Toldbodgade 8, 8000 Aarhus C
<https://www.restaurant-flammen.com/>

Friday, November 3rd

7:00 a.m. Meet in the lobby (Checked out of hotel)

7:45-9:00 a.m. **Breakfast & Trip Evaluation at the ferry to Zealand**

9:00-11:30 a.m. **Transportation to Copenhagen Airport**



October 23, 2017

Vince Christian
Regional Water Quality Control Board
San Francisco Bay Region
1515 Clay Street, Suite 1400
Oakland, CA 94612

VIA EMAIL: vchristian@waterboards.ca.gov

Subject: Tentative Order No. R2-2017-00XX NPDES, No. CA0038628 for Central Marin Sanitation Agency, San Rafael Sanitation District, Sanitary District No. 1 of Marin County, and Sanitary District No. 2 of Marin County Marin County

Dear Mr. Christian,

The Bay Area Clean Water Agencies (BACWA), California Association of Sanitation Agencies (CASA), and the Southern California Alliance of POTWs (SCAP), jointly referred to as the Associations, appreciate the opportunity to provide comments on Tentative Order No. R2-2017-00XX NPDES, No. CA0038628 for Central Marin Sanitation Agency (CMSA), San Rafael Sanitation District, Sanitary District No. 1 of Marin County, and Sanitary District No. 2 of Marin County Marin County (Tentative Order). With the exception of CMSA, the agencies included in the Tentative Order are referred to in this letter as the satellite collection systems.

BACWA is a joint powers agency whose members own and operate publicly-owned treatment works (POTWs) and sanitary sewer systems that collectively provide sanitary services to over 7.1 million people in the nine-county San Francisco Bay (SF Bay) Area. BACWA members are public agencies, governed by elected officials and managed by professionals who protect the environment and public health. CASA has been the leading voice for public wastewater agencies on regulatory, legislative and legal issues. CASA is an association of local agencies, engaged in advancing the recycling of wastewater into usable water, generation of renewable energy, and other valuable resources. Through these efforts CASA's members help create a clean and sustainable environment for Californians. SCAP represents over 80 public agencies providing water and wastewater service for 19 million people in seven counties of southern California. The Associations are concerned about the inclusion of the satellite collection systems in CMSA's NPDES permit.

The Associations support addressing inflow and infiltration (I/I) as the primary means to reduce blending. Compared to wastewater treatment plant upgrades and expansion, work to improve

collection systems, and to enhance repair and replacement programs, is a more sustainable means to manage wet weather flows. We appreciate that Regional Water Board staff worked with the satellite collection system agencies to develop the list of projects to reduce I/I that are included in Table 5 of the Tentative Order. However, it is more appropriate to use this list as a blueprint for collection systems improvements over the next five years, not as an enforceable provision within CMSA's NPDES permit.

The satellite collection systems are already subject to the Statewide General WDR for Sanitary Sewer Systems WQO-2006-0003 (SSS WDR), which includes provisions for controlling I/I in general. When planning the scope of the SSS WDR, the State Water Board considered, and rejected the idea of NPDES coverage for satellite collection systems. As described beginning on pg. 3 of the SSS WDR Fact Sheet, which is incorporated by reference into the Order itself:

“Satellite sewer collection systems (i.e., systems not owned or operated by the POTW) have not been typically regulated as part of the POTW and, therefore, have not generally been subject to NPDES permit requirements.

Comments were received that argued every collection system leading to a POTW that is subject to an NPDES permit should also be permitted based upon the USEPA definition of POTW. Under this theory, all current POTW NPDES permits could be expanded to include all satellite sewer collection systems, or alternatively, the satellite owners and operators could be permitted separately. However, this interpretation is not widely accepted and USEPA has no official guidance to this fact.”

While it is reasonable that collection systems be encouraged to reduce excessive I/I that results in sewer spills or other adverse environmental impacts, the NPDES permit is not an appropriate vehicle to control these actions. The satellite collection systems do not discharge to Waters of the United States, and therefore as regulated entities, should not be subject to federal jurisdiction. Moreover, including satellite agencies in NPDES permits opens them up to the potential for third party lawsuits under the Clean Water Act as well as USEPA enforcement, without providing a water quality benefit to balance this increased liability. This is particularly true given that there are other apparatuses under which they can be regulated, such as California's Porter-Cologne Water Quality Control Act, which is the route that the State Water Board ultimately selected for the SSS WDR.

The Associations urge the Regional Water Board to explore other mechanisms to regulate the satellites' activities pertaining to I/I reduction, including those already available under the SSS WDR. A more appropriate alternative would be to issue a supplemental WDR pertaining directly to the three satellite collection systems included in this Tentative Order. The WDR could include the I/I reduction tasks that are described in Table 5 of the Tentative Order without the additional federal liability.

The Tentative Order incorporates the SSS WDR by reference, which exposes the permittees to federal liability for requirements to which they are already subject, regardless of this Order. If, contrary to the Associations recommendation, the satellite collection system agencies are to be

included in the Tentative Order, the Associations recommend removing language in Section VI.C.4.c on page 13 of the Tentative Order as follows:

“On State Water Board Order No. 2006-0003-DWQ, Statewide General Waste Discharge Requirements for Sanitary Sewer Systems, as amended by State Water Board Order No. WQ 2013-0058-EXEC, contains requirements for operation and maintenance of collection systems and for reporting and mitigating sanitary sewer overflows. While San Rafael Sanitation District, Sanitary District No. 1 of Marin County, and Sanitary District No. 2 of Marin County must comply with both the statewide WDRs and this Order, the statewide WDRs more clearly and specifically stipulate requirements for operation and maintenance and for reporting and mitigating sanitary sewer overflows. ~~Implementing the requirements for operation and maintenance and mitigation of sanitary sewer overflows set forth in the statewide WDRs (and any subsequent order updating these requirements) shall satisfy the corresponding federal NPDES requirements specified in Attachments D and G of this Order for the collection systems. Following the reporting requirements set forth in the statewide WDRs (and any subsequent order updating these requirements) shall satisfy the NPDES reporting requirements for sanitary sewer overflows specified in Attachments D and G.~~”

We appreciate your attention to our comments. Please do not hesitate to contact us with any questions or concerns.

Sincerely,



David R. Williams
Executive Director, BACWA



Adam D. Link
Director of Government Affairs, CASA



Steve Jepson,
Executive Director, SCAP

Cc: BACWA Executive Board
Chris Dembiczak, BACWA Permits Committee Chair
Robert Wilson, BACWA Permits Committee Vice-Chair
Erin Smith, BACWA Collection Systems Committee Chair

Andrew Damron, BACWA Collection Systems Committee Vice-Chair
Jason Dow, General Manager, Central Marin Sanitation Agency
Melissa Thorne, Downey Brand LLP



DRAFT

Executive Board Special Meeting Agenda

SF Bay Regional Water Board / BACWA Executive Board Joint Meeting

Dec 4, 2017 10:00 AM -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 a. Optimization and Upgrade Studies b. 2017 Group Annual Report c. 2 nd Watershed Permit	<ul style="list-style-type: none">• Update on progress of optimization/upgrade studies• Discussion about agency certification letter• Feedback from Regional Water Board on Group Annual Report• Review of tenets of second watershed permit	10:15
2. Blending agencies permits	<ul style="list-style-type: none">• CMSA Permit	10:50
3. Sediment Quality Provisions Update	<ul style="list-style-type: none">• Impacts on POTWs	11:10
4. Chlorine Residual Basin Plan Amendment	<ul style="list-style-type: none">• Update on revised SOW	11:20
5. BAAQMD Rule 11-18	<ul style="list-style-type: none">• Update on BACWA progress working with BAAQMD Staff	11:45
6. Wetlands	<ul style="list-style-type: none">• BACWA support for San Leandro Wetlands Project• Wetlands Monitoring Program	11:50

ADJOURNMENT



B A C W A
BAY AREA
CLEAN WATER
AGENCIES

BAY AREA CLEAN WATER AGENCIES
Draft ANNUAL MEETING PROGRAM
JANUARY 19, 2018

<u>TIME</u>	<u>SUBJECT</u>	<u>DESCRIPTION</u>	<u>SPEAKER</u>
<i>Need questions for "Poll Everywhere" interactive audience participation</i>			
8:30 am - 9:00 am	Coffee and Refreshments		
9:00 am - 9:15 am	Welcome	Introduction and Year in Review	Jim Ervin, Chair
9:15 am - 10:00 am	EPA/SWRCB/RWQCB/ Priorities	<u>Moderator</u> BAAQMD APCO EPA Region IX, Manager, NPDES Permits Office SWRCB Board Member RWQCB Executive Officer	<u>Lori Schectel</u> Jack Broadbent David Smith Steve Moore Bruce Wolfe
10:00 am - 10:15 am	Nutrients - Overview	Progress on 1st WS Permit/Governance Update	Mike Connor
10:15 am - 10:30 am	Break		
10:30 am - 11:45 am	Nutrients - Regulatory Update (cont'd)	<u>Moderator</u> Optimization/Upgrade Studies Annual Reporting Q & A Next Steps	<u>Eileen White</u> JB Neethling, HDR JB Neethling, HDR JB Neethling, HDR JB Neethling, HDR
11:45 am - noon	BACWA Leadership Recognition	Committee Recognition (scrolling screen with Committee Accomplishments)	Jim Ervin, Chair
Noon - 12:35 pm	Lunch		

12:35 pm - 12:45 pm	BACWA Business Meeting	Financial/Organizational Outlook	David Williams
12:45 pm - 1:30 pm	Nutrients - Technical Update	<u>Moderator</u> SFEI Study Findings/Assessment Framework/Future Efforts	<u>Eileen White</u> David Senn, SFEI
1:30 pm - 1:45 pm	Nutrient - Regulatory	Preview of the 2nd Watershed Permit	David Williams
1:45 pm - 2:45 pm	BACWA Hot Topics (pick 4-6 topics for high level overview)	<u>Moderator</u> Biosolids CEC Participation Recycled Water Policy AIR Issues/Rule 11-17/CWCCG Climate Change Excess Wet Weather Flows/Blending Sediment Quality Objectives Danish Water Technology Alliance Toxicity TNI Lab Standards Ocean Litter Plan/Microplastics Chlorine Residual BPA RMP Department of Homeland Security Regional Reliability Enhancing Service to the Membership	<u>Laura Pagano</u> Alicia Chakrabarti Karin North Rhodora Biagtan Sarah Deslauriers Andy Gunther (AMS) Lorien Lorien Jean-Marc Lorien Nirmela Arsem Lorien/Nirmela Tom Hall (EOA) Phil Trowbridge (SFEI) Hans Stefan (DHS) Laura Pagano
2:45 pm - 2:50 pm	Annual Meeting Wrap-Up		Jim Ervin, Chair

Committee Request for Board Action: None

21 attendees representing 12 member agencies.

Sarah Deslauriers and Courtney Mizutani provided the [regulatory update presentation](#). Key topics from the meeting and since are below:

BAAQMD Updates

- a. We reviewed the proposed Regulation 11, Rule 18 (Rule 11-18) Risk Reduction from Air Toxic Emissions at Existing Facilities. The comment letter on the draft regulation and draft EIR were submitted to BAAQMD October 16, and a separate comment letter on the draft Socio-Economic Report and draft Staff Report was submitted October 25. We continue to collect and send the proximity adjustment factor information to BAAQMD, so they can update prioritization scores. The Rule is expected to be adopted November 15. Additionally, BAAQMD initiated a data collection “pilot study” and selected 11 POTWs to provide data on emission source and release stack locations and other information needed for air dispersion modeling.
- b. We reviewed the proposed amendments to Rule 2-2 New Source Review. The proposed decrease in greenhouse gas (GHG) emissions threshold was preempted by the adoption of AB 398 and the regulation is silent on type of GHG emissions (i.e., biogenic carbon dioxide). We briefly discussed the potential cost of BACT and the generation of formaldehyde as a threat to diverting organics to POTWs as a methane reduction strategy. BAAQMD has since reiterated its focus on TAC reduction over GHG reduction. Sarah will continue to discuss this topic on the BAAQMD Methane Expert Panel.
- c. Rule 9-2 Hydrogen Sulfide continues to impact the Authority-to-Construct permits for new projects, particularly digester and headworks/primary projects. We will continue to track the experiences of member agencies.
- d. Amendments to Rule 6-1 Particulate Matter were proposed. Note that BAAQMD has added 5 additional types for particulate matter to the rule. It was noted during the discussion that plants should be careful that their test method selection matches their permit when measuring particulates. Please check if particulate limits in permit are more restrictive than the general emission limit of 1000 kg (6 lbs/day) of TSP or PM₁₀ emissions is more restrictive than your permit to operate.

Climate Change Update

- a. AB 398 was signed in the summer extending the cap-and-trade program to 2030. This legislation prohibits local air districts from adopting or implementing emission reduction rules for carbon dioxide from stationary sources already subject to cap-and-trade. AB 398 also established priorities for spending cap-and-trade auction revenues. Concern was expressed that CalRecycle and other agencies are passing regulations and BAAQMD is not following.
- b. SB 1383 Short-Lived Climate Pollutant (SLCP) Reduction Strategy Implementation regulation development was discussed. Formal rule development began in October with the release of the draft regulation on the 23rd. The draft regulation includes biosolids and sludges as part of the organic waste definition. CalRecycle hopes to encourage co-digestion at wastewater treatment facilities. In hopes to discuss the potential barriers and opportunities of co-digestion projects, the CWEA conference program requested development of a two-hour technical session on co-digestion and the impact of regulations to include representatives from CalRecycle, ARB, BAAQMD, SJVAPCD, and SCAQMD.
- c. AB 617 Non-Vehicular Air Pollution gives ARB the authority to annually monitor and post online criteria and toxic air contaminant levels from major sources, as well as GHGs. It also states that ARB is to maintain a statewide clearinghouse of BACT and Best Available Retrofit Control Technology (BARCT) for criteria pollutants and toxics; however, air districts can maintain their own BACT/BARCT list that are more restrictive.
- d. We discussed the control strategies listed in the Clean Air Plan that are relevant to the wastewater sector (attached is the spreadsheet summarizing those control strategies). As one of BAAQMD's first steps, they are looking at developing a basin-wide methane strategy. Sarah has been invited to participate in the BAAQMD Methane Expert Panel as wastewater sector's representative. There was a discussion of proposed Rule 13-2 General Methane Leak Prohibition - and **BAAQMD wants to know what agencies think a large leak is at a wastewater treatment facility** - we will discuss this further at the upcoming Committee meeting. It was noted that releases and venting are already reported under existing regulations.

Tour: Committee members were invited to participate in a tour of SVCW's cogeneration facility and the BioForceTech biodryer/pyrolysis facilities

Next Meeting: The next meeting is scheduled for November 29 at SFPUC.

Biosolids Committee – Report to BACWA Board

Biosolids Committee meeting on: October 19, 2017
Executive Board Meeting Date: November 17, 2017
Committee Chair: Alicia Chakrabarti and Ravi Krishnaiah

Committee Request for Board Action: None.

Agenda Item : Welcome by Sebastien Tilmans of the William and Cloy Codiga Resource Recovery Center at Stanford
Agenda Item : Facility Tour <ul style="list-style-type: none"> ▪ The pilot treatment facility treats 25-30 gallons per minute, which it pulls from the campus sewer system. ▪ Grit is filtered out and sent back to the sewer. ▪ Primary treatment consists of a microscreen. ▪ Secondary treatment is a two-stage Membrane Bioreactor (MBR). ▪ Anaerobic biofilms attach to carbon granules, allowing for attached growth and dispersed activity. ▪ Hollow fiber membranes provide longer detention time for celluloid matter. ▪ In theory the facility could be power positive. Currently the methane is flared. ▪ Similar technology coming to Silicon Valley Clean Water by Suez.
Agenda Item : Pioneering Research Topics in Wastewater <ul style="list-style-type: none"> ▪ Biogas to plastics ▪ Microbial fat storage ▪ Improved aquaculture ▪ Viral resistance in brine shrimp ▪ Sewage plants as information mines – advanced warning of flu outbreaks, for example
Next BACWA Biosolids Committee Meeting: January 18, 2018, Location TBD

Attendees:

Name/Title	Agency
Kristine Corneillie	Larry Walker Associates
Kumudini Dharma Wardana	City of Livermore
Jim Dunbar	Lystek
Sara Hammes	Synagro
Cameron Kostigen Mumper	City of Sunnyvale
Ravi Krishnaiah	SFPUC
Marta Mendoza	SFPUC
Alex Miot	SFPUC
Kyohei Mukaigawa	UC Berkeley

Name/Title	Agency
Jeremy Novak	UC Berkeley
Kelsi Oshiro	City of Palo Alto
Rebecca Overacre	EBMUD
Jenny Pang	RMC
John Pugliaresi	Synagro
Sebastien Tilmans	Stanford University
Leah Walker	City of Petaluma
Robert Wilson	City of Petaluma

InfoShare Asset Management– Report to BACWA Board

InfoShare Asset Management Committee meeting on: 08/16/17
Executive Board Meeting Date: 11/17/17
Committee Chair: Dillon Cowan (EMUD), Dana Lawson (Central San)

Committee Request for Board Action: None

Attendees: Dana Lawson (Central San); Dillon Cowan (EBMUD); Lani Good (West Yost); David Stoops (EBDA); Erik Zalkin (Brown & Caldwell); Rochelle Farlow, Mike Jones (City of San Jose); TiLiAnne Tanner (Sonoma County Water Agency); Nga Huynh (City of Livermore)

Introductions <ul style="list-style-type: none">• See above
Announcements <ul style="list-style-type: none">• none
Presentation <ul style="list-style-type: none">• Outfall Condition Assessment – Erik Zalkin (Brown & Caldwell) and David Stoops (EDBA)<ul style="list-style-type: none">○ 7 ½ mile outfall, 96” RCP, 2000’ diffuser section; 11 ½ mile transport; 50 year design life; \$500M replacement estimate○ Condition assessment increase the service life estimate to 100 years with routine inspection and maintenance
Discussion <ul style="list-style-type: none">• Status of Asset Cost and Lifecycle Tables. Following the meeting, Dana will email the latest version of the Asset Cost & Lifecycle Tables.• Failure codes• Setting priorities for assets, location, work orders
Next BACWA Asset Management Infoshare Committee Meeting: <ul style="list-style-type: none">• Wednesday, November 15, 2017, 11am-1pm, at Central San (5019 Imhoff Place, Martinez). Presentation will be “Condition Assessments via Confined Space Entry” by Derek Wurst at Black and Veatch. <p><i>Please e-mail dlawson@centralsan.org if you can provide a presentation or host a future meeting; default is to host at Central San if no other agencies are able to volunteer.</i></p>

Laboratory Committee – Report to BACWA Board

Laboratory committee meeting on: 11 October 2017
Executive Board Meeting Date: October
Committee Chair : Nirmela Arsem

Committee Request for Board Action: None

Bioassay Discussions:

- Irene Lui-Wong (EBMUD) gave a presentation on troubleshooting bioassay with support from microbiology, metals and organic chemistry experts. Discussions from members focused on control chart requirements, reporting failed bioassay as part of monthly NPDES reports, and root cause analysis.

ELAP and TNI:

- The next ELTAC (Environmental Laboratory Technical Advisory Committee) meeting is scheduled for December 6
- The series of workshops sponsored by ELAP on transitioning to TNI 2016 received positive response. A recording of one these workshops is available on ELAP website.
- ELAP has issued a notice on adopting Method Update Rule (MUR) 2016. ELAP has differed the specifics of methods to be used for regulatory compliance reporting to the regulating agency. The updated methods are not yet being accredited by ELAP, but expected to be included. However, ELAP has directed laboratories to follow the MDL calculation as specified in MUR 2016 immediately.
- Members who attended the National Environmental Monitoring Conference (NEMC) in August found this directive for adopting updated methods to be in contradiction to the information provided by TNI at the conference.
- Members cautioned that ELAP application renewal package requires control chart for bioassay. Although this is not explicitly noted in the checklist for completing the package, it is found buried elsewhere in ELAP's documents.
- There was discussion about ELAP certifying recycled water analysis under drinking water program. Would this mean a separate ELAP audit as a drinking water laboratory is unclear.

Agency Audits

- Delta Diablo had a bioassay audit as part of their application for ELAP certification renewal. ELAP does not intend to conduct chemistry or microbiology audit, but renew the certification based on the application material submitted.

2,6-dichlorobenzamide

- Palo Alto and San Mateo members will be reviewing the information provided by BACWA on 2,6-dichlorobezamide toxicity.

Microplastics:

- Central San, San Jose and EBMUD have already provided samples for microplastics analysis to SFEI. SFPUC will be providing samples during wet weather.

Upcoming meetings, conferences, etc.:

- Water Quality Technology Conference – November 12-16 @ Portland, Oregon
- UCMR workshop – November 1 @ EBMUD
- TNI workshop sponsored by CWEA, and lead by Diane Lawver: October 24 @ Palo Alto and November 1 @ Sacramento
- CWEA annual conference @ Sacramento – April 17-20, 2018

The next lab committee meeting will be on November 8

Permits Committee – Report to BACWA Board

Permits Committee Meetings on: 9/12/17, 10/17/17, and 11/14/17
Executive Board Meeting Date: 11/17/17
Committee Chair: Chris Dembiczak

Committee Request for Board Action: None

Regional Water Board Staff in attendance at November 14 meeting

27 Participants representing 16 member agencies at 9/12 meeting

21 Participants representing 10 member agencies at 10/17 meeting

20 Participants representing 9 member agencies at 11/14 meeting

Upcoming Permits

November – *Sewer Authority Midcoastside* – Very conservative assumptions were used in assigning dilution credit.

December – *CMSA* – Satellite agencies that are not owned by CMSA, but form its JPA were included in its Tentative Order for the first time. BACWA submitted [comments](#) recommending that the Regional Water Board instead use a supplemental WDR as its permitting vehicle. The Regional Water Board does not intend to change their approach.

January – *Oro Loma* – EBDA charges agencies based on capacity reserved for their flow. Oro Loma is going to get a separate permit for a near shore discharge that will accept flows above 100 mgd, and will be required to reduce their ammonia concentrations.

February – *Pinole* – In the middle of a plant upgrade.

Silicon Valley Clean Water – No issues.

Regional Water Board Report-out

Regional Water Board staff provided a [summary of priorities](#) for the NPDES division over the coming year. The priorities are keeping the permitting backlog low, reducing SSOs and the nutrient optimization/upgrade studies. The Water Board members have been asking questions about coastal erosion and sea level rise, and how to incorporate these issues into permits.

Mercury/PCB Watershed Permit

The Regional Water Board adopted Mercury and PCB Watershed permit on Nov 8. The Permit is substantially the same as the [2012 Watershed Permit](#), including retaining the risk reduction requirement that has been fulfilled by BACWA over the last two permit cycles. It includes a reduction in PCB congener monitoring frequency via Method 1668C for most dischargers with a permitted capacity of less than 50 MGD. BACWA provided [comments](#) describing members' efforts to reduce mercury discharges, recommending that monitoring reduction continue in the next permit reissuance once the Water Board has a more extensive data set, and suggesting that risk reduction funds would be better leveraged by participating in a Statewide risk reduction program, rather than managing our own program. The comment letter also included suggestions for minor clarifications and corrections, most of which the Regional Water Board incorporated into the final Permit. The permit goes into effect on January 1, 2018.

NPDES Permit Amendments

The Regional Water Board adopted revisions to Attachment G in the Region's NPDES permits for municipal wastewater dischargers and moved stormwater provisions to a new Attachment S. BACWA [commented](#) on the Tentative Order requesting the removal of monitoring requirements for unintended bypass events of short duration, and requesting clarifications on duplicate reporting and stormwater permit coverage. In their Response to Comments, the Regional Water Board disagreed with most of BACWA's recommendations, although they did specify that agencies don't need to monitor for bioaccumulative constituents such as mercury, PCBs, and dioxin after the first day of bypass. They said they would use their enforcement discretion based on specific conditions should monitoring requirements for unplanned bypass events not be met. The amendments go into effect on January 1.

Chlorine Residual Basin Plan Amendment

BACWA has contracted with EOA to support the development of a Basin Plan Amendment work plan. They are looking at a chlorine water quality objective that would be implemented using dilution credit and the SIP procedure. This strategy would only help deep water dischargers. At the same time, they are looking to establish an RL/ML for chlorine via continuous online analyzers, and are soliciting participation in a study that will generate data for this effort. Establishing an RL/ML would help all dischargers. The Scope of Work continues to be developed and BACWA is considering how to fund it without violating its policy on sole sourcing.

CECs

1. *Position on POTW Volunteers* – The Regional Water Board has requested that BACWA develop a policy document on POTW participation in CEC studies that can be used to demonstrate that Region 2 has a robust program with POTW involvement. A draft paper and survey of volunteers will be circulated at the January 2018 meeting.

2. *Microplastics* - The Ocean Protection Council (OPC) is updating its 2008 [Implementation Strategy to Reduce and Prevent Ocean Litter \(Strategy\)](#), in partnership with the National Oceanic and Atmospheric Administration (NOAA) [Marine Debris Program](#). The updated [Draft Strategy](#) focuses on product stewardship, and includes a section on better understanding and reducing microplastics. BACWA joined with CASA and SCAP to submit a [comment letter](#) on the Draft Strategy, urging them to develop an integrated strategy for advancing microplastics research, working in cooperation with SFEI, the Water Environment and Reuse Foundation, and the wastewater community.

Toxicity

- a. *State Toxicity Provisions* – New schedule for Toxicity Plan posting is end of January. Regional Board staff indicated that the State is pushing to have the draft Toxicity Plan released soon even if there are pending comments to keep the process moving. Irene Lui-Wong of EBMUD walked committee members through how to use the TST calculator at the October meeting.
- b. *Toxicity Workshop* - BACWA will hold a toxicity workshop at CCCSD September 18. See [presentations](#).
- c. *Limits in Region 2* – There are not any agencies who are expected to be given new toxicity limits over the next several months.

Nutrients

- a. *Group Annual Report* – BACWA The third [Group Annual Report](#) required by the Nutrient Watershed Permit was submitted to the Regional Water Board on October 1, 2017. Over the 2016/17 monitoring year, the flows and loads of most nutrient parameters were the highest they have been since nutrient monitoring began in 2012.
- b. *Optimization and Upgrade Studies* – HDR has is responding to comments on Facility Reports and plans to be done by Thanksgiving. Prior to submittal, agencies will need to certify their Facility Reports per Federal Regulations.
- c. *Second Watershed Permit* – BACWA has been in discussion with the Water Board on the key provisions to be included in the second Nutrient Watershed Permit. On October 9th BACWA [received a letter](#) from the Water Board which outlines the key tenets they envision including in the second permit. These tenets include continued funding of the Nutrient Management Strategy Science Plan at an increased level, as well as continued individual plant reporting on nutrient loading to the Bay and the annual trend reporting. A new provision would be a regional assessment of other approaches to reducing nutrient loads such as through recycling and wetlands treatment. The tenets recognize that some plants may be reducing nutrients in advance of any regulatory requirement and discuss the concept of banking credits for early actions which reduce nutrient loading. BACWA will be working with the Water Board over the coming months to further clarify these concepts and develop language for inclusion in the second Nutrient Watershed Permit to be adopted in 2019.
Wetlands Report – Ian Wren, working with SFEI, developed a wetlands screening report to look at the potential for nutrient removal through treatment wetlands in the Region. He provided a [presentation](#) at the September meeting.

BAAQMD Rule 11-18

[Draft Regulation 11, Rule 18](#) (Rule 11-18) is the Bay Area Air Quality Management District's (BAAQMD) effort to protect public health from toxic air pollution from existing facilities such as POTWs. BAAQMD provided a regulatory [process flowchart](#) to help stakeholders better understand the proposed Rule. BAAQMD will use toxic emissions inventories and proximity to the nearest receptor (residents or offsite workers) to conduct site-specific Health Risk Screening Analyses (HRSA). From these HRSAs, BAAQMD will determine each facility's prioritization score (PS). BAAQMD will conduct Health Risk Assessments (HRAs) for all facilities with a cancer PS greater than 10 or non-cancer PS greater than 1.0. After verifying the model inputs, if the facility still has PS above that threshold, that facility would need to implement a Risk Reduction Plan that may include employing Best Available Retrofit Control Technology for Toxics (TBARCT). BACWA has provided comments on both the [Rule and its EIR](#), as well as its Staff Report and [Socioeconomic Impact Report](#). The Rule is scheduled for adoption on Nov 15.

Sediment Quality Objectives Phase 3

This [amendment](#) develops an assessment framework linking human health via sportfish to sediment quality. This will impact RMP projects studying sediment.

Announcements

- a. BACWA Annual Member's Meeting will be held January 19, 2018, from 8:30 am to 3:00 pm at the Scottish Rite Center, 1547 Lakeside Drive, Oakland.
- b. SFEP Private Sewer Lateral Report [posted](#) – SFEP did not contact BACWA about the report which presents a slanted view of SSOs in the SF Bay Region.
- c. Regulatory Issues Matrix [Updated](#)

d. BACWA submitted [comments](#) on indoxacarb.

Next BACWA Permits Committee Meeting: Thursday December 14, 2017 10:30 AM to 1 PM (With CASA RWB Annual Holiday Luncheon and White Elephant Exchange, EPA staff to attend)

Pretreatment Committee – Report to BACWA Board

Pretreatment Committee Meeting on: 10/17/2017
Executive Board Meeting Date: 11/17/17
Committee Chairs: Tim Potter, Michael Dunning

Committee Request for Board Action: None

10/17/17 Pretreatment Committee Meeting – 34 in-person attendees and 2 phone attendees representing 20 agencies

<p>1. BACWA Updates</p> <ul style="list-style-type: none">• Committee FY 17-18 budget approved.• SWRCB continues process to adopt changes to toxicity testing and regulatory standards. Process should be monitored as potential toxicity violations could require pretreatment program resources to respond to conduct Toxicity Reduction Evaluations.
<p>2. Committee Projects</p> <ul style="list-style-type: none">• Field pH monitoring for IU Compliance Sampling – Reviewed status of efforts to implement field pH for compliance monitoring. Central San reported that the Tetra Tech audit team identified the 15-minute hold time for pH samples would be expected to be met after the field pH monitoring programs are implemented.• Dental Amalgam Training – “Save the date” email to be sent to member agencies for upcoming training sessions; two sessions planned for north bay and south bay locations.• Dental One-Time Certification Form – USD provided a form they developed to comply with the one-time certification form contained in the Federal Dental Amalgam Rule.• Mobile surface cleaners – Tim plans to contact targeted agencies for contact information to restart project.• Resource template – work ongoing
<p>3. Debrief PCA/PCI</p> <ul style="list-style-type: none">• Reviewed status of previously completed PCIs; some agencies have not received reports from 2015 and 2016 PCI/PCAs.• Many agencies identified that various Tetra Tech teams conducted PCI and PCAs in June 2017. Agencies received 2-4 week notice of the scheduled reviews. Changes to contractor staffing identified.
<p>4. Permitting/Regulating Hospitals</p> <ul style="list-style-type: none">• Strategies of different agencies for regulating hospital discharges discussed. Wide range identified including no permit, BMP permit, and SIU permit. Mercury identified as one pollutant of concern potentially in hospital discharges although mercury sources have been reduced in last 10-15 years.
<p>5. Definition of Zero Discharge (ZD) Permit and Permit Scope</p> <ul style="list-style-type: none">• Inquiry into which agencies use ZD Permits and the experiences. Many agencies identified successful ZD permit programs. Most common use if for ZD of categorical processes but some agencies use for other process activities. Discussed elements of ZD permits.
<p>6. SIU criteria – Review criteria and discuss implementation issues</p> <ul style="list-style-type: none">• Topic addressed during prior meeting. No further discussion.

<p>7. Marijuana Grow/Production Operations</p> <p>a. Indoor</p> <p>b. Outdoor – SWRCB General Order</p> <ul style="list-style-type: none"> Summarized elements of SWRCB General Order as it relates to pretreatment programs. Very few agencies identified they had existing or planned outdoor operations. General Order has exemption (after notice filed) and defers to local agencies' control to address indoor grow operations. Several agencies have existing grow operations (some unpermitted and some cleared through local permitting) and have also been petitioned for future grow operations. Pretreatment strategies range from no permit to intentions to permit the grow operations. BMPs identified as primary strategy to control discharge quality; no agencies identified current intention to require pretreatment systems to control discharges from indoor grow operations.
<p>8. Bio-cremation – Passage of AB 967</p> <ul style="list-style-type: none"> Reviewed elements of AB 967. Primary objective of bill to create licensing standards specific to alkaline hydrolysis (bio-cremation) facilities. Standards require operations to obtain permit/authorization to discharge process wastewater to sanitary sewer agencies. Sanitary sewer agencies can prohibit these discharges; primary concern is over potential impacts to recycled water programs. Discussed potential water quality issues associated with accepting this discharge. Pretreatment systems are available for most pollutants expected to be present. High strength discharges have been reported from currently operating facilities. No member agencies have a current operation in their service area.
<p>9. Phenol/Phenolic Compounds in Local Limits/EPA Method 420.1 vs. 625</p> <ul style="list-style-type: none"> All agencies that reported having a phenol/phenolic compound limit use EPA Method 420.1 for compliance monitoring.
<p>10. Review meeting – Pros/Cons</p> <ul style="list-style-type: none"> Good space for a great turnout. Traffic was problematic for many agencies.
<p>11. General Discussion Topics</p> <ul style="list-style-type: none"> Consider creating a standing agenda item to review experiences with categorizing certain IU operations Review Indirect Potable Reuse as a pretreatment issue
<p>12. Next meeting: January 2018 at EBMUD in Oakland</p> <ul style="list-style-type: none"> Invite Amelia Whitson, Michael Chee, and SWRCB staff to attend

Executive Director's August 2017 Report

NUTRIENTS:

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

- Coordinated with the OP/Upgrade consulting team on administrative issues.
- Provided updates to the WB staff on the progress on reaching consensus on an approach to the 2nd Watershed Permit.
- Coordinated with the NMS Science Manager on presentations, meetings, and key issues on nutrients.
- Coordinated with representatives of the City of San Mateo on their participation in the 2nd Watershed Permit.
- Incorporated comments from the BACWA membership on the Key Tenets of the proposed 2nd Watershed Permit and presented BACWA's modifications to the Water Board's Letter of Intent.

Organized the bi-monthly meeting with the Water Board with the main topic of discussion being the review of the Key Tenets of the 2nd Watershed Permit.

- Arranged a conference call with BCDS who expressed interest in how nutrient management may ultimately affect the Bay shoreline and wetlands development.

BACWA BOARD MEETING AND CONFERENCES:

- Worked with staff in preparing for the August BACWA Board meeting including arranging for the review of the agenda with the Board Chair.
- Continued to track all action items to completion.
- Planned for and attended the August monthly Board Meeting.

ASC/SFEI:

- As the Chair of the Governance Committee coordinated with the SFEI Executive Director on committee activities.

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 18 member invoices.
- Reviewed and approved the FY 18 Associate and Affiliate invoices for distribution to the BACWA membership.

PERMIT COMMITTEE:

- Coordinated with the RPM for items to agendize for the Permit Committee review.

MANAGER'S ROUNDTABLE:

- Worked with the AED to prepare a master contact list for the BACWA member agency general managers and directors and sent out invitations for future meetings

COLLABORATIONS:

- Coordinated with CASA Regulatory Program Manager on regulator issues of mutual concern.
- Attended the CASA Annual Meeting and delivered a presentation to the general session on BACWA's role in the Bay Area Nutrient Management Strategy.

AIR COMMITTEE:

- Coordinated with the AIR Committee leadership on responding to proposed regulations on health risk assessments.
- Participated in a meeting with the BAAQMD on Rule 11-18 and the implications of TBARCT.

WOT

- Participated in conference calls to help the BACWWE group reorganize after the departure of the chair of WOT and to coordinate with Solano College on preparing for the Fall semester.
- Discussed the future of the program with the BACCWE Executive Committee.
- Organized and held a general membership meeting of the BACWWE participants. Discussed changes to their Charter and preparations for the Fall semester.

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.

MISCELLANEOUS MEETINGS/CALLS:

- Paul Gilbert Snyder on Prop 84 and the close-out of Prop 50.
- 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 members requests for information



Executive Director's September 2017 Report

NUTRIENTS:

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

- Coordinated with the OP/Upgrade consulting team on administrative issues.
- Provided updates to the WB staff on the progress on reaching consensus on an approach to the 2nd Watershed Permit.
- Coordinated with the NMS Science Manager on presentations, meetings, and key issues on nutrients.
- Chaired the monthly CMG conference call to discuss the presentation at the Pre-Pardee meeting.
- Incorporated comments from the BACWA membership on the Key Tenets of the proposed 2nd Watershed Permit and continued coordination with the Water Board on the Letter of Intent.
- Participated in a conference call with BCDS who expressed interest in how nutrient management may ultimately affect the Bay shoreline and wetlands development.

BACWA BOARD MEETING AND CONFERENCES:

- Worked with staff in preparing for the September BACWA Board meeting including arranging for the review of the agenda with the Board Chair.
- Organized and participated in the Pre-Pardee meeting
- Continued to track all action items to completion.
- Planned for and attended the September monthly Board Meeting.

ASC/SFEI:

- As the Chair of the Governance Committee coordinated with the SFEI Executive Director on committee activities.

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 18-member invoices.

PERMIT COMMITTEE:

- Coordinated with the RPM for items to agendaize for the Permit Committee review.
- Attend the monthly meeting and provided updates on the NMS

COLLABORATIONS:

- Coordinated with CASA Regulatory Program Manager on regulator issues of mutual concern.

O&M INFO SHARE MEETING:

Attend the Info Share meeting on briefing and tour of the EBDA peracetic acid pilot study.

**TOXICITY WORKSHOP:**

-Helped planned and attended the Toxicity Workshop for BACWA members, regulators, and other interested parties. The workshop was very successful with over 75 attendees and a variety of technical presentations.

COLLECTION COMMITTEE:

-Attended the Collection Committee and provided key updates on BACWA activities and permit issues impacting collection systems.

AIR COMMITTEE:

-Coordinated with the AIR Committee leadership on responding to proposed regulations on health risk assessments.
-Participated in the quarterly Air Committee meeting at SVCW.

WOT

-Participated in conference calls to help the BACWWE group organize for future semesters and to coordinate with Solano College.
-Organized and participated in the BACWWE Curriculum Committee meeting with Solano College to set up the new certificate 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.

MISCELLANEOUS MEETINGS/CALLS:

- ABAG on Prop 84 and the close-out of Prop 50.
- BACWA Chair and Committee Chairs on items that arose during the month
- Water Board staff on coordinating the nutrient activities
- PPIC BACWA support for their water project
- represented BACWA and NACWA in presenting to the WCWD their Platinum Award for permit compliance
- provided an interview to a UC Berkeley student working on his master's degree in environmental engineering.
- met with the GM of Delta Diablo to discuss their on-going participation in BACWA
- other misc calls and inquiries regarding BACWA activities
- participated in coordination calls with the HDR project manager
- responded to Board members requests for information



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Executive Director's October 2017 Report

NUTRIENTS:

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

- Coordinated with the OP/Upgrade consulting team on administrative issues.
- Provided updates to the WB staff on the progress on reaching consensus on an approach to the 2nd Watershed Permit.
- Coordinated with the NMS Science Manager on presentations, meetings, and key issues on nutrients.
- Chaired the monthly CMG conference call to discuss the presentation at the Pardee Technical Seminar.
- Attended and participated in the 28th meeting of the NMS Planning Subcommittee Committee and provided BACWA in-kind services by serving as scribe. Following the meeting prepared detailed meeting minutes and summary of action items.
- Attended a meeting of a technical exchange group from Denmark and presented an overview of BACWA with an emphasis on research that BACWA participates in and supports via in-kind services from our members.
- Incorporated comments from the BACWA membership on the Key Tenets of the proposed 2nd Watershed Permit. Received the Water Board's Letter of Intent for the key tenets to be included in the 2nd Watershed paving the way for increased funding of the NMS Science Plan over the coming years and providing regulatory certainty to the BACWA membership on nutrients for the next seven years.

BACWA BOARD MEETING AND CONFERENCES:

- Worked with staff in preparing for the October BACWA Technical seminar including arranging for the review of the agenda with the Board.
- Organized and participated in the Annual Pardee Technical Seminar
- Continued to track all action items to completion.
- Attended WEFTEC but not representing BACWA

ASC/SFEI:

- As the Chair of the Governance Committee coordinated with the SFEI Executive Director on committee activities.

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 18 member invoices.

PERMIT COMMITTEE:

- Coordinated with the RPM for items to agendaize for the Permit Committee review.
- Attend the monthly meeting and provided updates on the NMS and other BACWA activities.



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A G E N C I E S

COLLABORATIONS:

- Coordinated with CASA Regulatory Program Manager on regulator issues of mutual concern.
- Attended the Summit Partners quarterly meeting and presented issues of importance to BACWA.
- Attended a Fact Finding technology exchange in Copenhagen sponsored by the Danish Consulate. The exchange focused on nutrient reductions and energy self-sufficiency at treatment plants. The trip was self-funded but discussed the NMS in the Bay Area as part of the knowledge sharing effort.

STATE OF THE ESTUARY BI-ANNUAL CONFERENCE:

Attend the State of the Estuary Bi-Annual conference and got updated on a number of investigations and finding on the environmental health of the Bay.

MANAGERS ROUNDTABLE:

- Planned and attended the quarterly Managers Roundtable. Presented several updates on BACWA activities and participated in discussions on issues of mutual concern to Bay Area managers.

AIR COMMITTEE:

- Coordinated with the AIR Committee leadership on responding to proposed regulations on health risk assessments.

ASSET MANAGEMENT INFO SHARE:

Dillon Cowan stepped down as the Co-Chair of the Asset Management Info Share Committee as a result of taking on new duties at his agency (EBMUD). Dana Lawson (CCCSD), the current Co-Chair, will be assuming the role as Chair until a new Co-Chair can be found.

WOT

- Organized and participated in the BACWWE Curriculum Committee conference calls to help establish the future curriculum for obtaining a water/wastewater certificate from Solano College.

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.

MISCELLANEOUS MEETINGS/CALLS:

- ABAG on Prop 84 and the close-out of Prop 50.
- BACWA Chair and Committee Chairs on items that arose during the month
- Water Board staff on coordinating the nutrient activities



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- met with Carollo engineers to brief them on the future of nutrient management in the Bay.
- other misc calls and inquiries regarding BACWA activities
- participated in coordination calls with the HDR project manager
- responded to Board members requests for information



BACWA ACTION ITEMS

Number	Subject	Task	Deadline	Status
Action Items from September 15, 2017 BACWA Executive Board Meeting				
2017.9-21	Arleen Navarret Award Selection Committee	Ask Amanda Roa to be on committee (AED)	9/30/2017	Completed
2017.9-20	Future Exec Bd Mtg Agendas	Add Speakers: Resilience by Design (Andy Gunther); gray & green-scape in Permits (Lorien Fono) ; update following Denmark Conference (ED/RPM/AED)	10/15/2017	Completed
Action Items Remaining from Previous BACWA Executive Board Meetings				
2017.7-02	"How to make BACWA better" brainstorming	Survey of Members for Pardee (ED/RPM/AED)	9/30/2017	Completed
2016.3-61	Membership Policy	Develop policy for out of region agency membership (ED)	6/30/2017	Pending

FY18 21 of 21 Action Items completed

FY17: 90 of 90 Action Items completed.

FY 16: 96 of 97 Action Items completed.



DATE	AGENDA
12/4/2017	
Joint Meeting - Water Board	<u>Other Business: Discussions</u>
Items due:	SNMP
Pagano; Ervin; Connor; White; Schectel	
Williams; Fono	
12/15/2017	<u>Consent</u>
Monthly Board Mtg	Previous Board Meeting Minutes (AED)
Items due: 12/8	Monthly Financial Report
Pagano; Ervin; Connor; White; Schectel	<u>Authorizations & Approvals</u>
Williams; Fono; Hull	<u>Other Business - POLICY/STRATEGIC</u>
HOLIDAY LUNCH	Discussion: Draft Agenda Joint Meeting with WB
	Discussion: WB Joint Meeting Debrief
	Presentation: POTW Sampling Efforts (Dr. Jennifer Teerlink)
	<u>Other Business - OPERATIONAL</u>
	Discussion: Annual Meeting Agenda
	Discussion: Budget Schedule & Key Issues
	Discussion: Biosolids Technology Presentation
	<u>Reports</u>
	Committee Reports (Committee Chairs)
	Board Reports (Executive Board)
	ED Report (ED)
	RPM Report (RPM)
	Other BACWA Representative Reports
1/19/2018	
Annual Members Mtg	
Pagano; Ervin; Connor; White; Schectel	RMP & NMS Update (Phil Trowbridge/David Senn)
Williams; Fono; Hull	EPA, CWRCB, RWCB, Air Dist,
2/16/2018	<u>Consent</u>
Monthly Board Mtg	Previous Board Meeting Minutes (AED)
Items due: 2/9	Monthly Financial Report
Pagano; Ervin; Connor; White; Schectel	<u>Authorizations & Approvals</u>
Williams; Fono; Hull	Approval:
	<u>Other Business - POLICY/STRATEGIC</u>
	Discussion: Draft Agenda Joint Meeting with WB
	Presentation: Pesticides Update (Kelly Moran)
	<u>Other Business - OPERATIONAL</u>
	Discussion: FY2019 Budget Planning - 1st Draft of FY19 Budget
	Discussion: Annual Meeting Debrief
	<u>Reports</u>

Committee Reports (Committee Chairs)
Board Reports (Executive Board)
ED Report (ED)
RPM Report (RPM)
Other BACWA Representative Reports

3/?/2018

Joint Meeting

Items due: 3/?

Pagano; Ervin; Connor; White; Schectel

Williams; Fono

Other Business: Discussions

3/16/2018 **Consent**

Monthly Board Mtg

Items due: 3/9

Pagano; Ervin; Connor; White; Schectel

Williams; Fono; Hull

Previous Board Meeting Minutes (AED)
Monthly Financial Report

Authorizations & Approvals

Other Business - POLICY/STRATEGIC

Discussion: WB Joint Meeting Debrief

Presentation: CPSC Update (Heidi Sanborn)

Other Business - OPERATIONAL

Discussion: Second Draft of FY19 Budget

Discussion: Update on BARR Taskforce

Discussion: Update on regional and statewide biosolids issues

Discussion: Biannual Update on CWCCG (SDeslauriers)

Reports

Committee Reports (Committee Chairs)
Board Reports (Executive Board)
ED Report (ED)
RPM Report (RPM)
Other BACWA Representative Reports

4/20/2018 **Consent**

Monthly Board Mtg

Items due: 4/13

Pagano; Ervin; Connor; White; Schectel

Williams; Fono; Hull

Previous Board Meeting Minutes (AED)
Monthly Financial Report

Authorizations & Approvals

Approval: FY19 Budget

Other Business - POLICY/STRATEGIC

Discussion: Draft Agenda Joint Meeting with WB

Other Business - OPERATIONAL

Discussion: Update on BAAQMD Regulations

Discussion: Update on regional and statewide biosolids issues

Discussion: CASA Climate Change Program

Reports

Committee Reports (Committee Chairs)
Board Reports (Executive Board)
ED Report (ED)
RPM Report (RPM)
Other BACWA Representative Reports

5/?/2018

Joint Meeting - Water Board

Other Business: Discussions

Items due: 5/?

Pagano; Ervin; Connor; White; Schectel

Williams; Fono

5/18/2018

Consent

Monthly Board Mtg

Previous Board Meeting Minutes (AED)

Items due: 5/11

Monthly Financial Report

Pagano; Ervin; Connor; White; Schectel

Authorizations & Approvals

Williams; Fono; Hull

Approval: FY19 Consulting Amendments/Agreements

Approval: Officers: Chair & Vice-Chair FY19

Authorization: Legal Support Amendments FY19

Other Business - POLICY/STRATEGIC

Discussion: Water Board Jt Mtg Debrief

Other Business - OPERATIONAL

Reports

Committee Reports (Committee Chairs)

Board Reports (Executive Board)

ED Report (ED)

RPM Report (RPM)

Other BACWA Representative Reports

6/?/2018

Nutrient Optimization/Upgrade Workshop #3

Pagano; Ervin; Connor; White; Schectel

Optimization/Upgrade Studies

Williams; Fono

Water Board

6/15/2018

Consent

Monthly Board Mtg

Previous Board Meeting Minutes (AED)

Items due: 6/8

Monthly Financial Report

Pagano; Ervin; Connor; White; Schectel

Authorizations & Approvals

Williams; Fono; Hull

Approval: FY19 Agreements

Approval: Appt BACWA Rep to ASC/SFEI Jt Board

Other Business - POLICY/STRATEGIC

Discussion: Opt/Upgrade Workshop Debrief

Discussion: Draft Agenda WB Joint Meeting

Other Business - OPERATIONAL

Discussion: CPSC Update

Discussion: BAAWMD Annual Meeting Draft Agenda

Discussion: 2019 BACWA Executive Board Calendar

Reports

Committee Reports (Committee Chairs)

Board Reports (Executive Board)

ED Report (ED)

RPM Report (RPM)

Other BACWA Representative Reports

7/?/2018

Joint Meeting - Water Board

Items due: 7/?

Pagano; Ervin; Connor; White; Schectel

Williams; Fono

Other Business: Discussions**7/20/2018** **Consent****Monthly Board Mtg**

Items due: 7/13

Pagano; Ervin; Connor; White; Schectel

Williams; Fono; Hull

Previous Board Meeting Minutes (AED)

Monthly Financial Report

Authorizations & Approvals

Approval: Annual Nutrient WS Payment

Approval: FY19 Agreements

Other Business - POLICY/STRATEGIC

Discussion: Water Board Jt Mtg Debrief

Discussion: Draft Agenda Pre-Pardee Technical Seminar

Discussion: Risk Reduction Update?

Discussion:

Other Business - OPERATIONAL

Discussion:

Reports

Committee Reports (Committee Chairs)

Board Reports (Executive Board)

ED Report (ED)

RPM Report (RPM)

Other BACWA Representative Reports

8/17/2018 **Consent****Monthly Board Mtg**

Items due: 8/10

Pagano; Ervin; Connor; White; Schectel

Williams; Fono; Hull

Previous Board Meeting Minutes (AED)

Monthly Financial Report

Authorizations & Approvals**Other Business - POLICY/STRATEGIC**

Discussion: HDR Quarterly Update on Optimization/ Upgrade studies

Discussion: Draft Agenda & Schedule Pre & Pardee Technical Seminar

Discussion: RMP & NMS Update (Phil Trowbridge/David Senn)

Other Business - OPERATIONAL

Discussion:

Reports

Committee Reports (Committee Chairs)

Board Reports (Executive Board)

ED Report (ED)

RPM Report (RPM)

Other BACWA Representative Reports

9/21/2018 **Consent****Monthly Board Mtg**

Items due: 9/14

Pagano; Ervin; Connor; White; Schectel

Williams; Fono; Hull

Previous Board Meeting Minutes (AED)

Monthly Financial Report

Authorizations & Approvals

Approval:

Other Business - POLICY/STRATEGIC

Discussion: Draft Agenda Pardee Technical Seminar

Discussion: Annual Meeting Planning

Other Business - OPERATIONAL**Reports**

Committee Reports (Committee Chairs)

Board Reports (Executive Board)

ED Report (ED)

RPM Report (RPM)

Other BACWA Representative Reports

9/21/2018**Pre-Pardee Mtg**

Pagano; Ervin; Connor; White; Schectel

Williams; Fono; Hull

10/25-26/2018 TENTATIVE**Pardee Technical Seminar**

Pagano; Ervin; Connor; White; Schectel

Williams; Fono; Hull

11/16/2018**Consent****Monthly Board Mtg**

Items due: 11/9

Pagano; Ervin; Connor; White; Schectel

Williams; Fono; Hull

Previous Board Meeting Minutes (AED)

Monthly Financial Report

Authorizations & Approvals

Approval: Adoption of FY18 Annual Reports

Other Business - POLICY/STRATEGIC

Discussion: Pardee Debrief & Survey

Discussion: ReNEWIt Industrial Advisory Board Meeting Debrief

Discussion: SAF-MBR Kickoff Meeting Debrief

Discussion: Climate Change (Andy Gunther)

Discussion: WTA Fact Finding Invitation

Discussion: Biannual Update on CASA Climate Change Prog (SDeslauriers)

Other Business - OPERATIONAL

Discussion: Annual Meeting Planning

Discussion: BAPPG RFP for Cummuncations

Discussion: BACWA Rep for CPSC Policy Education Advisory Committee

Reports

Committee Reports (Committee Chairs)

Board Reports (Executive Board)

ED Report (ED)

RPM Report (RPM)

Other BACWA Representative Reports

CURRENTLY

* Suggestions for Monthly Meeting Guest Speakers/Presenters: i.e. Jim McGrath, State Water Board

**UNSCHEDULED
& SIGNIFICANT**

Sherry Hull

From: Sherry Hull
Sent: Tuesday, November 14, 2017 5:04 PM
To: Sherry Hull
Subject: DHS RRAP - Additional Information
Attachments: 2014_07_01_PCI-Fact-Sheet-508_F.pdf; rrap-fact-sheet-08-24-16-508.pdf; 2017_Bay Area Utilities RRAP_Fact Sheet_9_Feb.pdf; FY17 Bay Area Utilities RRAP_100617_clean.ptx.pdf

From: Haus, Stefan (CTR) [<mailto:stefan.haus@associates.hq.dhs.gov>]
Sent: Tuesday, November 14, 2017 10:18 AM
To: David Williams <dwilliams@bacwa.org>
Cc: Castor, Edgar <edgar.castor@HQ.DHS.GOV>; Black, Cherrie M <cherrie.black@inl.gov>
Subject: DHS RRAP - Additional Information

Dave,

Thanks so much for taking the time today to discuss with me the FY17 Bay Area Utilities RRAP. I sincerely hope we can make it on BACWA's calendar for the January 19th meeting, and I will let you know once I have a better understanding of everybody's availability.

Attached is the requested information:

a) A Protected Critical Infrastructure Information (PCII) Fact sheet

As already mentioned, we try to leave the report and deliverables at For Official Use Only (FOUO), but if there are serious concerns about some of the information provided, we can potentially protect it PCII, using a specific PCII appendix, and only addressing it at a high level in the FOUO report. Ideally, however, we would try to stay away from PCII designation simply to facilitate information sharing among stakeholders and emergency service providers.

b) A RRAP Fact Sheet providing an overview of the program

c) A Project Fact sheet, providing an overview of this particular project in the Bay Area

d) The presentation I gave you just in case any of your members want to take a look at the project scope and scale

Additionally:

The link to the RRAP Program within the DHS website: <https://www.dhs.gov/regional-resiliency-assessment-program>

This really is only a rough overview of the program, but it does link us to the DHS website, which might help ease some concerns

The link to the FY14 Casco Bay RRAP if a member wants to take a look at a final report:

<https://web.archive.org/web/20170505190613/http://www.northeastern.edu/kostas/wp-content/uploads/2017/03/Maine-RRAP-RA-FINAL-no-links.5-13.pdf>

Please note that this report was put up by the stakeholders, not by DHS. We do not share information on specific projects beyond a need to know.

Copied on this email are the other members of the project team, Cherie Black from Idaho National Laboratory (INL), and the DHS Protective Security Advisor (PSA) for the San Francisco Region Edgar Castor.

Again, thanks so much for taking the time and for planting the seed of this project with the BACWA members. I will certainly be in touch about getting on your calendar.

Very respectfully,
--Stefan Haus--

Stefan Haus, PMP
RRAP Headquarters Team Lead (HTL)
RCM Solutions

US Department of Homeland Security
National Protection and Programs Directorate
Office: (703) 235-9412
Cell: (202) 573-1278
Email: stefan.haus@associates.hq.dhs.gov





Homeland Security

Protected Critical Infrastructure Information Program

The Protected Critical Infrastructure Information (PCII) program protects infrastructure information voluntarily shared with DHS to be used for homeland security purposes. The PCII program was created by Congress in the Critical Infrastructure Information Act of 2002, ensuring that PCII in the government's hands is protected from disclosure

Protections

PCII cannot:

- Be disclosed through a Freedom of Information Act (FOIA) request or through a request under a similar State, local, tribal, or territorial disclosure law;
- Be disclosed in civil litigation; or
- Be used for regulatory purposes.

PCII may only be used by a Federal, State, local, tribal, or territorial government employee or contractor who:

- Has taken PCII training;
- Has homeland security duties; and
- Has a valid need to know that particular information.

PCII is specially marked and must be safeguarded, both physically and electronically, under specific procedures to avoid any improper disclosures. All of these protections ensure that submitted information is protected and is used only by authorized homeland security professionals and used only for homeland security purposes.

Uses

PCII is used by DHS and other government homeland security professionals to identify vulnerabilities, mitigation strategies, and protective measures. DHS works closely with critical infrastructure asset owners and operators to provide a wide array of services and products to help them protect the Nation's critical infrastructure, and PCII is a key component in these efforts. PCII also allows DHS to collect and protect sensitive security critical infrastructure information, cyber-attack, risk, and vulnerability information to protect the Nation's infrastructure. PCII protections allow access to a vast amount of critical information necessary to detect, deter, and defend against threats to the Nation.

Contact Information

Learn how the IP Gateway can support your organization's homeland security efforts by contacting the IP Gateway Help Desk at IPGateway@hq.dhs.gov or 1-866-844-8163.



Source: U.S. Department of Homeland Security



**Homeland
Security**

Regional Resiliency Assessment Program

The Regional Resiliency Assessment Program (RRAP) is a cooperative assessment of specific critical infrastructure within a designated geographic area and a regional analysis of the surrounding infrastructure that address a range of infrastructure resilience issues that could have regionally and nationally significant consequences. These voluntary, nonregulatory RRAP projects are led by the Office of Infrastructure Protection (IP), within the Department of Homeland Security's National Protection and Programs Directorate, and are selected each year by the Department with input and guidance from Federal, State, and local partners.

The RRAP evolved from earlier DHS initiatives focused on the protection of high-consequence clusters of critical infrastructure. Beginning in 2009, IP began addressing broader, more regionally based issues through the RRAP. Since the RRAP's inception, projects have been conducted in regions throughout the United States and have focused on sectors such as Energy, Transportation Systems, Commercial Facilities, and Food and Agriculture.

The goal of the RRAP is to generate greater understanding and action among public and private sector partners to improve the resilience of a region's critical infrastructure. To accomplish this, the RRAP:

- Resolves infrastructure security and resilience knowledge gaps;
- Informs risk management decisions;
- Identifies opportunities and strategies to enhance infrastructure resilience; and
- Improves critical partnerships among the public and private sectors.

Strong partnerships with Federal, State, local, tribal, and territorial government officials and private sector organizations across multiple disciplines are essential to the RRAP process. This includes private sector facility owners and operators, industry organizations, emergency response and recovery organizations, utility providers, transportation agencies and authorities, planning commissions, law enforcement, academic institutions, and research centers. Each RRAP project typically involves a year-long process to collect and analyze data on the critical infrastructure within the designated area, followed by continued technical assistance to enhance the infrastructure's resilience. Individual projects can incorporate opportunities for valuable information and data exchanges, including voluntary facility security surveys, first responder capability assessments, targeted studies and modeling, and subject matter expert workshops.

The culmination of RRAP activities, research, and analysis is presented in a Resiliency Assessment documenting project results and findings, including key regional resilience gaps and options for addressing these shortfalls. DHS provides the Resiliency Assessment, along with supporting documents and information, to select RRAP participants in the form of a multimedia presentation. Facility owners and operators, regional organizations, and government agencies can use the results to help guide strategic investments in equipment, planning, training, and infrastructure development to enhance the resilience and security of facilities, surrounding communities, and entire regions.

Contact Us

For more information about the Regional Resiliency Assessment Program, please contact Resilience@hq.dhs.gov.

The Office of Infrastructure Protection, a subcomponent within the National Protection and Programs Directorate, leads the national effort to mitigate terrorism risk to, strengthen the protection of, and enhance the all-hazard resilience of the Nation's critical infrastructure.



Homeland Security

US Department of Homeland Security Regional Resiliency Assessment Program (RRAP): Bay Area Utilities Project

The Bay Area region has spent over \$20 billion on seismic resilience initiatives since the Loma Prieta earthquake in 1989, resulting in significant improvements to regional water and electric systems.

However, decision-makers in the region still lack a comprehensive understanding of the capacities and operational requirements of the water, wastewater, and electric systems that serve the region's multitude of cities, towns, and counties. This information is incomplete, segregated, and in many cases inaccessible to decision-makers due to the disparate and uncoordinated infrastructure initiatives of the region's many municipalities. This limits the ability of municipalities to collectively comprehend and address infrastructure challenges that are inherently regional in nature. Bay Area agencies and jurisdictions need to characterize these systems and analyze dependencies, interdependencies, and resulting consequences of disruptions to estimate likely system performance in the face of aging infrastructure challenges, continued seismic risk, and climate influenced hazards such as sea level rise, flooding, wildfire, and drought. With a common understanding of the shared infrastructure systems and the risks they face, municipal authorities in the Bay Area can work cooperatively on effective regional level resilience solutions.

The Bay Area Utilities RRAP project, in partnership with Federal, State, regional and local agencies and the private sector, will assemble and analyze available information to enhance decision-makers' understanding of these systems. The project will: (1) characterize the region's water, wastewater, and supporting electric system and their dependencies and interdependencies; (2) study system hazard vulnerabilities; (3) identify expected system reliability related to specific hazards; and, (4) identify projects, underway and proposed, to mitigate identified risks. In doing so, the RRAP intends to resolve infrastructure security and resilience knowledge gaps, inform risk management decisions, identify opportunities and strategies to enhance infrastructure resilience, and improve critical partnerships among the public and private sectors.

The RRAP is a non-regulatory program within DHS' Office of Infrastructure Protection (IP). The success of individual RRAP projects depends on the voluntary participation of private sector partners and utility providers.

Key Partners:

- State of California, Office of Emergency Services (Cal OES)
- FEMA Region IX
- Association of Bay Area Governments (ABAG) Regional Planning Committee Infrastructure Subcommittee
- Chief Resilience Officers (CRO) at Cities of Berkeley, Oakland and San Francisco

Geographic area:

The following counties, collectively known as the Bay Area, fall within the geographic scope of the project: Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa Clara, Solano, and Sonoma Counties.



Regulatory Program Manager's Report to the Board

August 2017

NUTRIENT SUPPORT: Discussed recycled water survey with Regional Water Board staff. Discussed schedule and agenda for Pardee presentation with HDR team. Met with Oro Loma and Lower South Bay dischargers to discuss Oro Loma permit with nutrient limits.

BACWA BULLETIN: Completed and distributed August Bulletin. Drafted September Bulletin.

TOXICITY: Continued planning for toxicity workshop.

MERCURY/PCBs: Discussed permit reissuance with Regional Water Board staff. Reviewed Administrative Draft and developed informal comments to submit the Water Board.

ATTACHMENT G: Reviewed Attachment G provisions and discussed potential comments with membership.

BACTERIAL OBJECTIVES: Watched State Water Board hearing webcast. Drafted comment letter pertaining to use of mixing zones in calculating effluent limits.

MEMBER TENTATIVE ORDERS: Reviewed Tentative Order for Vallejo and drafted comment letter.

SEP POLICY: Reviewed SEP Policy amendments and discussed with SFEI and Regional Water Board staff.

COMMITTEE SUPPORT:

AIR – Reviewed consultants' progress reports and invoices and discussed scope of work. Attended meeting on 11-18 with BAAQMD staff.

BAPPG – Reviewed and submitted three pesticide comment letter to EPA. Discussed changes to baywise.org and related contract with committee members and website consultant. Attended meeting and drafted notes and Board report.

Biosolids – Completed and distributed final biosolids survey report, incorporating comments and corrections from respondents.

Collection Systems – Discussed member tentative order with committee chairs.

O&M Infoshare – Discussed next meeting with committee chair.

Permits – Attended meeting, drafted agenda and board report.

Recycled Water – Discussed SFEP Comprehensive Conservation Plan.

Executive Board – Assisted in preparing agenda and packet, and attended Executive Board meeting. Edited meeting minutes for Executive Board meeting. Drafted agenda for Joint meeting with Regional Water Board staff.

ADMINISTRATION/STAFF MEETING – Discussed BACWA administration and planned Pre-Pardee meeting. Performed routine updates to website.

MEETINGS ATTENDED: BAPPG (8/2), Meeting on Oro Loma permit (8/8), Permits Committee (8/8), CASA call on SEPs (8/14), Meeting with BAAQMD (8/17), Executive Board meeting (8/18), Joint meeting with Regional Water Board (8/30).



Regulatory Program Manager's Report to the Board

September 2017

NUTRIENT SUPPORT: Attended NMS steering committee meeting and drafted meeting notes. Discussed schedule for Nutrient studies and Annual Report with HDR team. Updated schedule for Watershed Permit studies. Participated in CMG call.

BACWA BULLETIN: Completed and distributed September Bulletin. Drafted October Bulletin.

TOXICITY: Finalized agenda for toxicity workshop and distributed to attendees. Attended and presented at workshop, and posted presentations on website.

MERCURY/PCBs: Discussed permit reissuance with Regional Water Board staff. Reviewed Tentative Order and discussed comments with members.

ATTACHMENT G: Reviewed Attachment G provisions and discussed potential comments with membership.

MEMBER TENTATIVE ORDERS: Reviewed Tentative Order for CMSA and its satellites and discussed with co-permittees and their attorney.

COLLABORATIVES: Participated in NACWA Regional Association Conference Call. Participated in CASA RWG Conference Call and gave BACWA update.

SEP POLICY: Reviewed CASA comments on SEP Policy and coordinated so that BACWA could cosign letter. Communicated with Regional Water Board on their comments. Watched State Water Board hearing webcast.

CECs: Reviewed proposed State Ocean Litter strategy. Reviewed final AXYS invoice for CECs studies.

COMMITTEE SUPPORT:

AIR – Reviewed consultants' progress reports and invoices and worked with them to develop updated scope of work and budget for contract amendment. Developed BAR for amendment. Followed up with agencies that have not yet submitted proximity factor data to BACWA. Attended committee meeting.

BAPPG – Worked with consultant to execute as-needed contract and update baywise.org.

Collection Systems – Discussed member tentative order with committee chairs. Drafted agenda and attended meeting.

O&M Infoshare – Supported and attended meeting.

Permits – Attended meeting, drafted agenda.

Recycled Water – Worked with committee chair to develop Surface Water Augmentation comments. Attended committee meeting.

Executive Board – Assisted in preparing agenda and packet, and attended Executive Board Pre-Pardee meeting. Drafted Pre-Pardee meeting notes. Drafted meeting notes for 8/30 Joint meeting with Regional Water Board staff. Updated Regulatory Issues Summary Matrix.

ADMINISTRATION/STAFF MEETING – Discussed BACWA administration and planned Pre-Pardee meeting. Performed routine updates to website.

MEETINGS ATTENDED: Staff meeting (9/1), NACWA Regional Associations Call (9/7), NMS Steering committee (9/8), Permits Committee (9/12), CMG Call (9/12), O&M Infoshare (9/13), CASA RWG Call (9/14), Pre-Pardee Meeting (9/15), Toxicity Workshop (9/18), Recycled Water Committee (9/19), AIR Committee (9/27), Collection Systems Committee (9/28).



Regulatory Program Manager's Report to the Board

October 2017

NUTRIENT SUPPORT: Participated in CMG call. Developed 1st Watershed Permit status update for Pardee Technical Seminar. Made updates to Nutrient webpage. Obtained nutrient data from HDR.

BACWA BULLETIN: Completed and distributed October Bulletin. Drafted November Bulletin.

TOXICITY: Developed presentation on toxicity for Pardee Technical Seminar. Participated in CWEA toxicity interview.

MERCURY/PCBs: Consulted with members, and drafted comment letter on Tentative Order for Watershed Permit.

NPDES Amendments: Consulted with members, and drafted comment letter on NPDES Amendments Tentative order.

MEMBER TENTATIVE ORDERS: Discussed CMSA TO with CMSA GM, satellites' attorney, BACWA Collection Systems Committee and Permits Committee, and Regional Water Board staff. Drafted comment letter and collaborated with SCAP and CASA to cosign.

COLLABORATIVES: Participated in SVCW meeting with the California Energy Commission on the SAF-MBR Pilot. Attended RMP Annual Meeting session on CECs.

CECs: Reviewed draft Ocean Litter Protection Strategy and collaborated with SCAP and CASA to draft comments. Communicated with SFEI on POTW volunteers for CEC studies in the future.

COMMITTEE SUPPORT:

AIR – Reviewed consultants' progress reports and invoices. Contacted individual member agencies to get proximity factor data for Rule 11-18. Reviewed comment letters on Rule 11-18/EIR, and Staff Report/Socioeconomic Impact Report.

BAPPG – Attended meeting. Communicated with consultant about corrections to bifenthrin calculations.

Biosolids: Made correction to Biosolids Survey Report.

Collection Systems – Planned November meeting. Sent out Sewer Rate Survey update reminder. Reviewed SFEP PSL Report.

Permits – Attended meeting, drafted agenda.

Executive Board – Assisted in preparing for Pardee Technical Seminar, and attended Seminar. Prepared Watershed Permit, Toxicity, and Regulatory Update Presentations.

Managers Roundtable – Prepared regulatory slides for meeting.

ADMINISTRATION/STAFF MEETING – Discussed BACWA administration and planned Pardee meeting. Worked with AED to draft Membership survey, and test out PollEverywhere. Performed routine updates to website.

MEETINGS ATTENDED: BAPPG (10/4), SVCW SAF-MBR meeting (10/6), RMP Annual Meeting (10/6), Toxicity Interview Call (10/11), CMG Call (10/13), Permits Committee (10/17), Staff Meeting (10/19), Pardee Technical Seminar (10/26-27).