

# Executive Board Meeting AGENDA Fri, August 20, 2021 9:00 AM - 12:30 PM (PDT)

To attend the meeting via Zoom or submit a comment please <u>request access</u>.

	Agenda Item	<u>Time</u>	<u>Pages</u>
ROLI	. CALL, INTRODUCTIONS, AND TELECONFERENCE ETIQUETTE	9:00 AM	
PUB	LIC COMMENT Guidelines	9:03 AM	
CON	SIDERATION TO TAKE AGENDA ITEMS OUT OF ORDER	9:04 AM	
CON	SENT CALENDAR	9:05 AM	
1	July 16, 2021 BACWA Executive Board meeting minutes		3-8
2	June 2021 Treasurers Report		9-17
APPRO	DVALS AND AUTHORIZATIONS	9:15 AM	
3	Approval: Transfer of funds from BACWA to CBC and \$1M NMS payment - Ist installment		18-19
4	Roundtable: Agency staff vaccination and testing requirements	9:25 AM	
POLIC	Y/STRATEGIC	9:40 AM	
5	<u>Discussion</u> : Nutrients		
	a. Regulatory		
	i. Trading legal review <u>Trading legal references</u>		
	ii. August 25 NST meeting agenda		20
	b. Governance Structure		
	i. July 18, 2021 Planning Subcommittee Meeting Notes		21-23
6	<u>Discussion:</u> PFAS Study Phase I data discussion, scope for Phase 2, and Fact Sheet		24-28
	BREAK (10min) 10:30 AM		
7	<u>Discussion</u> : RMP Update Presentation		
8	Discussion: Climate change mitigation and adaptation planning		29-56
9	Discussion: Biosolids regulation and collaboration on biosolids white paper		
10	Discussion: AMR Admin Draft Schedule Update		
11	Informational: Chlorine Residual Blanket Permit Amendment  Tentative Order		57-60
12	Discussion: Draft agenda for 8/31 meeting with R2 staff		61
13	Informational: CCCSD's Microplastic pilot work update		
OPFR	ATIONAL	11:30 PM	
14	Informational: BACC Update and chemical shortages	11.50 F W	
15	<u>Discussion</u> : Pardee/Orinda planning - agreement on venue and timing		62
16	<u>Discussion:</u> Praft agendas Pre-pardee meeting and Pardee program		63-66
17	Discussion: Potential contribution to the Bruce Wolfe scholarship fund		33 00
18	<u>Discussion:</u> Potential contribution to the Bruce worker scholarship fund <u>Discussion:</u> One Water request for workshop contribution		67-69
DED(	NOTE	12.15 ANA	

REPC	DRTS	12:	:15 AM	
19	Committee Reports			70-73
20	Member highlights			
21	Executive Director Report			74-75
22	Board Calendar and Action Items			76-77
23	Regulatory Program Manager Report			78
24	Other BACWA Representative Reports			
		Mary Lou Esparza, Yuyun Shang, Samantha		
	a. RMP Technical Committee	Engelage		
	b. RMP Steering Committee	Karin North; Amanda Roa; Eric Dunlavey		
	c. Summit Partners	Lorien Fono; Lori Schectel		
	d. ASC/SFEI	Lorien Fono; Eileen White		
	e. Nutrient Governance Steering Committee	Eric Dunlavey; Eileen White; Lori Schectel		
	e.i Nutrient Planning Subgroup	Eric Dunlavey		

e.ii NMS Technical Workgroup	Eric Dunlavey	
f. SWRCB Nutrient SAG	Lorien Fono	
g. NACWA Taskforce on Dental Amalgam	Tim Potter	
h. BAIRWMP	Cheryl Munoz; Florence Wedington	
i. NACWA Emerging Contaminants	Karin North; Melody LaBella	
j. CASA State Legislative Committee	Lori Schectel	
k. CASA Regulatory Workgroup	Lorien Fono; Mary Cousins	
l. ReNUWIt	Jackie Zipkin; Karin North	
m. ReNUWIt One Water	Jackie Zipkin	
n. RMP Microplastics Liaison	Artem Dyachenko	
o. Bay Area Regional Reliability Project	Eileen White	
p. WateReuse Working Group	Cheryl Munoz	
q. San Francisco Estuary Partnership	Eileen White; Lorien Fono	
r. CPSC Policy Education Advisory Committee	Colleen Henry	
s. California Ocean Protection Council	Lorien Fono	
t. Countywide Water Reuse Master Plan	Karin North, Pedro Hernandez	
u. CHARG - Coastal Hazards Adaptation Resiliency Group	Jackie Zipkin	

5 SUGGESTIONS FOR FUTURE AGENDA ITEMS	12:25 PM
IEVE NEETING	
IEXT MEETING  e next meeting of the Board is scheduled for August 20, 2021	12:29 PM



### **Executive Board Meeting Minutes**

July 16, 2021

#### **ROLL CALL AND INTRODUCTIONS**

**Executive Board Representatives:** Amy Chastain (San Francisco Public Utilities Commission); Eileen White (East Bay Municipal Utility District); Jackie Zipkin (East Bay Dischargers Authority); Amit Mutsuddy (City of San Jose).

#### **Other Attendees and Guests:**

Name	Agency/Company
Aaron Winer	West County Wastewater District
Amanda Roa	Delta Diablo
Andrew Damron	Napa Sanitation District
Azalea Mitch	City of San Mateo
Dan Frost	CCCSD
Don Gray	EBMUD
Dave Richardson	Woodard & Curran
Eric Dunlavey	City of San Jose
Jennifer Dyment	BACWA
Kevin Cesar	City of Millbrae
Karin North	City of Palo Alto
Lorien Fono	BACWA
Mary Cousins	BACWA
Mary Lou Esparza	CCCSD
Meg Herston	Fairfield-Suisun Sewer District
Niranjana Rajagopalan	Jacobs Engineering Group
Ramana Chinnakotla	City of Sunnyvale
Rion Merlo	Hazen & Sawyer
Robert Wilson	City of Santa Rosa
Sarah Deslauriers	Carollo Engineers
Stefanie Olson	DSRSD
Talyon Sortor	Fairfield-Suisun Sewer District
Terresa Herrera	SVCW
Tom Hall	EOA
Wynn Morgan	Veolia

Amit Mutsuddy started meeting at 9:02

ROLL CALL, INTRODUCTIONS, AND TELECONFERENCE ETIQUETTE

PUBLIC COMMENT -none

CONSIDERATION TO TAKE AGENDA ITEMS OUT OF ORDER -none

#### **CONSENT CALENDAR**

- 1 June 18, 2021, BACWA Executive Board meeting minutes
- 2 May Treasurers Report

**Consent Calendar Items 1 and 2**: A motion to approve was made by Jackie Zipkin (East Bay Dischargers Authority) and seconded by Amit Mutsuddy (City of San Jose). The motion was approved unanimously.

#### **APPROVALS AND AUTHORIZATIONS**

none

#### **POLICY/STRATEGIC**

- 3 Discussion: Nutrients
  - a. Regulatory
- i. Trading memo and potential solicitation for support Executive Director summarized the 2016 Freshwater Trust White Paper on a potential SF Bay nutrient credit trading framework. Draft memo included in packet summarizes the benefits and risks with trading programs. Benefits: more efficient use of regional funds and facilitation of regional planning, more flexibility for individual agencies, fund regional projects and incentivize desirable types of projects. Risks: large differential in agencies' loads, legal risks, Prop 218 compliance, time boundaries for trade, ability to address impairments that are found in the future, unreliability of credit availability, agencies need to see a good "bang for their buck" for credits purchased. Also presented was a slide regarding the ongoing issues that need to be investigated as well as potential next steps. Group discussed next steps. Group agreed to start with simple legal review after scope and budget is reviewed.

**Action Item** – Executive Director to talk to other trading groups regarding legal review and explore potential presentation at BACWA meeting.

- ii. NBS and RW Evaluation Status update to Water Board
- b. Technical Work
- **i. WEFTEC Abstract** Executive Director referred to abstract in the packet.

**Action item:** Executive Director will invite Mike Falk, HDR, to come to August 31 meeting with RWB for dry run of presentation.

- c. Governance Structure
- i. June 11, 2021, Steering Committee Notes Executive Director shared slide summarizing Steering Committee meeting update and reviewed key points discussed at Steering Committee.

- **Discussion: Triennial review BACWA comments** Executive Director referred to letter in the packet that was submitted.
- **Discussion: Climate change planning and Regional Water Board meeting debrief**. RPM shared that only ¾ of dischargers have completed the climate change survey. Jackie Zipkin presented a slide from Regional Water Board meeting that summarized what the RWB could do to facilitate certain multibenefit projects. Jackie also discussed biosolids at RWB meeting. Group agreed that biosolids strategies should be on future agendas with RWB.
- Discussion: Collaboration with Sonoma County Land trust and BABC on biosolids white paper-See presentation. Sarah Deslauriers presented slides summarizing white paper on biosolids and air issues with timelines. Summarized white paper sponsorship by Sonoma County Land Trust and lead author, SFEI, and shared that BABC / BACWA are drafting sections and will review / edit entire document. RWB will review white paper. A subgroup meeting is scheduled for mid-August with a target White Paper publication date of October 2021. RPM shared her discussion with RWB staff on biosolid regulation and recommended that biosolids is an agenda item on the next RWB meeting. Next meeting with RWB is August 31, 2021. Agenda will be discussed at the next BACWA executive board meeting in August. Group discussion followed. Sarah Deslauriers shared summary of ferric chloride shortage and air quality (H2S limits / odor) may be affected. Sarah has prepared an email for the air district on the current situation. Sarah shared a slide summarizing electrification vs. renewable natural gas.

**Action items:** Include biosolids planning in agenda for next joint meeting with R2, following discussion of climate change adaptation

#### **BREAK 10:55 AM**

**7 Discussion: PFAS Study Phase I data discussion and Fact Sheet** - Executive Director shared slide on Phase 1 PFAS study. The study produced a lot of data and the main take-aways from study were shared. Target date for talking points is next week and data will be entered into GeoTracker on 7/21/2021. PFAS study will be on the agenda at RWB August meeting.

**Action items:** Provide summary of PFAS study findings to RWB

- **8** Informational: Chlorine Residual Blanket Permit Amendment RPM shared the schedule for Chlorine Residual Permit amendment.
- 9 Informational: AIR and Biosolids Committee Surveys RPM shared the survey for everyone that is in the BAAMQD because they are developing rules around methane and VOCs. Purpose of survey is to understand the management practices around methane and RPM would like to see at least a 75% participation rate. There is a biosolids survey coming out next week. It is meant provide a summary of practices in the region that can be used to inform regulatory decisions.
- 10 Informational: Regulatory Issues Matrix update RPM referred to matrix in packet.
- **11 Informational: Recycled Water Landscape Guide** RPM Shared landscape guide. Encouraged agencies to share guide with recycled water customers.

**12** Informational: SSS-WDR Informal Staff Draft Coalition Comments - RPM shared slide on SSS-WDR status and comments provided by the wastewater coalition to the State Water Board. Once the public draft is available BACWA will respond to it.

#### **OPERATIONAL**

- **13 Informational: BACC Update** AED shared BACC shared update on the supply issues with Ferric Chloride and force majeure.
- **Discussion:** Pardee/Orinda planning agreement on venue and timing Executive Director shared that we need to decide on location. Group discussed options, and agreed to solicit input from RWB.

**Action items** – Executive Director will check in with RWB on the location. AED to extend September BACWA Executive Board meeting to 3pm for Pardee / Orinda planning.

**15 Discussion: NMS Funding for FY22** - Executive Director summarized NMS history and payment.

**Action item** – Executive Director to present final report in August and BAR to move funds from BACWA to CBC and provide first payment to SFEI for the Watershed Permit.

**16** Informational: Prop 84 closeout - Executive Director summarized prop 84 closeout. There was a \$91,000 final payout to BACWA for administrative support.

#### **REPORTS**

- **17 Committee Reports** See packet.
- **18 Member highlights** There was a discussion of regional chemical shortages. City of San Jose shared chemical shortage was an issue. EBDA shared that they have decided to honor Bruce Wolfe by creating a scholarship for women pursuing a STEM career through the CASA Education Foundation.

**Action item** – Executive Director to prepare documentation for BACWA Executive Board to support scholarship effort.

- 19 Executive Director Report see packet
- 20 Board Calendar and Action Items see packet
- 21 Regulatory Program Manager Report see packet
- 22 Other BACWA Representative Reports
  - a. RMP Technical Committee Mary Lou Esparza, Yuyun Shang, Samantha Engelage
  - b. RMP Steering Committee Karin North; Amanda Roa; Eric Dunlavey

#### July 16, 2021, Executive Board Meeting Minutes

- c. Summit Partners Lorien Fono; Lori Schectel
- d. ASC/SFEI Lorien Fono; Eileen White
- e. Nutrient Governance Steering Committee Eric Dunlavey; Eileen White; Lori Schectel
- e.i Nutrient Planning Subgroup Eric Dunlavey
- e.ii NMS Technical Workgroup Eric Dunlavey
- f. SWRCB Nutrient SAG Lorien Fono
- g. NACWA Taskforce on Dental Amalgam Tim Potter
- h. BAIRWMP Cheryl Munoz; Florence Wedington
- i. NACWA Emerging Contaminants Karin North; Melody LaBella
- j. CASA State Legislative Committee Lori Schectel
- k. CASA Regulatory Workgroup Lorien Fono; Mary Cousins
- I. ReNUWIt Jackie Zipkin; Karin North
- m. ReNUWIt One Water Jackie Zipkin, Eric Hansen
- n. RMP Microplastics Liaison Artem Dyachenko
- o. Bay Area Regional Reliability Project Eileen White
- p. WateReuse Working Group Cheryl Munoz
- q. San Francisco Estuary Partnership Eileen White; Lorien Fono
- r. CPSC Policy Education Advisory Committee Colleen Henry
- s. California Ocean Protection Council Lorien Fono
- t. Countywide Water Reuse Master Plan Karin North, Pedro Hernandez
- u. CHARG Coastal Hazards Adaptation Resiliency GroupJackie Zipkin

#### **SUGGESTIONS FOR FUTURE AGENDA ITEMS**

#### **NEXT MEETING**

The next meeting of the Board is scheduled for August 20, 2021

July 16, 2021, Executive Board Meeting Minutes

#### **ADJOURNMENT 12:05**



July 27, 2021

MEMO TO: Bay Area Clean Water Agencies Executive Board

<u>MEMO FROM</u>: Damien Charléty, Treasurer, East Bay Municipal Utility District

SUBJECT: Twelfth Month FY 2021 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, 2020 through June 30, 2021** (Twelve months of Fiscal Year 2021). 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),
- Bay Area Biosolids Coalition (BABC),
- Bay Area Chemical Consortium (BACC),
- Water/Wastewater Operator Training (WOT),
- Prop84 Bay Area Integrated Regional Water Mgmt (PRP84)

#### Houck, Matt

From: Charléty, Damien

**Sent:** Thursday, July 29, 2021 4:21 PM

To: Houck, Matt

**Subject:** RE: BACWA - June 2021 Treasurer's Report

#### Approved.

From: Houck, Matt <matt.houck@ebmud.com>

Sent: Tuesday, July 27, 2021 2:34 PM

To: Charléty, Damien <damien.charlety@ebmud.com>

Subject: BACWA - June 2021 Treasurer's Report

Hi Damien,

Please approve BACWA - June 2021 Treasurer's Report for distribution.

Thanks,

#### Matt Houck

Accountant II
East Bay Municipal Utility District
375 11TH St, MS 402, Oakland, CA 94607
P 510-287-0238

# BACWA BAY AREA CLEAN WATER AGENCIES

#### MONTHLY FINANCIAL SUMMARY REPORT

June 2021

#### **Fund Balances**

In FY21 BACWA has three operating funds (BACWA, Legal, and CBC) and three pass-through funds for which BACWA provides only contract administration services (WOT, BABC & BACC).

BACWA Fund: This fund provides the resources for BACWA staff, its committees, and other administrative needs. The ending fund balance on June 30, 2021 was \$1,320,328 which is significantly higher than the target reserve of \$209,430 which is intended to cover 3 months of normal operating expenses based on the BACWA FY21 budget. \$15,001 of the ending fund balance is shown on the BACWA Fund & Investments Balance Report June 30, 2021 as encumbered to meet ongoing operating line-item expenses for BAPPG Committee Support, Legal services, IT services, Board meeting expenses, accounting services and BACWA staff support. This leaves actual unencumbered excess funds of \$1,095,897 (i.e., actual fund balance of \$1,305,327 less target reserves) as June 30, 2021. As the details of the costs of the various regulatory requirements included in the 2nd Nutrient Watershed Permit become better defined, these excess funds June 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 June 30, 2021 was \$1,712,138 which is higher than the target reserve of \$1,000,000. \$582,517 of the ending fund balance is encumbered to meet line-item expenses for completion of the Group Annual Report contract, completion of the NBS Study, Recycled Water Evaluation, and the PFAS Regional Study. This leaves an actual unencumbered fund balance of negative \$401,379 (i.e., actual fund balance of \$598,621 less \$1,000,000 target reserves) as of June 30, 2021. As directed by the BACWA Executive Board, the CBC fund has diminished over time due to BACWA's ongoing funding of the NMS program to comply with the Nutrient Watershed Permit. In FY22 the Board will be asked to approve a transfer from the BACWA Fund to replenish the CBC fund.

<u>Legal Fund:</u> 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 to maintain the BACWA and CBC Fund balances at the levels projected in the 5 Year Plan.

Revenues as of June 30, 2021 (100% of the FY) are at 102.6%. In FY2021 we received our Prop 84 administrative fees payout and BACC administration took more Assistant Executive Director hours that original budgeted. We invoiced BACWWE and BABC less than we budgeted due to less administrative support than anticipated. Currently there is nothing invested in "Higher Yield Investments" that is why there was no income in this line.

Expenses as of June 30, 2021 (100% of the FY) are at 86.2%. We had less expenses in FY2021 due to COVID-19. In-person meetings and trainings were never held.



## MONTHLY FINANCIAL SUMMARY REPORT June 2021

Those needing additional explanations are:

Committees – BAPPG shows overspent by 3%.

Tech Support – Regional Recycling Evaluation was overspent by 24%. HDR completed more of their multi-year contract during this FY.

Unbudgeted Item – We had it issue a partial membership refund to the City of Livermore.

#### FY 2021 BACWA BUDGET to ACTUAL

					ACWA BUDGET	0.10.0.1
BAY	C W A AREA I WATER NCIES					
BACWA FY21 BUDGET	Line Item Description	FY 2021 Budget	Actual June 2021	Actual % of Budget June 2021	<u>Variance</u>	<u>NOTES</u>
<b>REVENUES &amp; FUNDING</b>						
Dues	Principals' Contributions	\$516,909	\$516,910	100%	\$1	5 @ \$103,382
	Associate & Affiliate Contributions	\$187,793	\$191,672	102%	\$3,879	13 Assoc @ \$8,531; 45 Affiliate @ \$1,708.
Fees	Clean Bay Collaborative	\$675,000	\$675,750	100%	\$750	Prin: \$450,000; Assoc/Affil: \$225,000
	Nutrient Surcharge	\$1,700,000	\$1,699,970	100%	-\$30	See Nutrient Surcharge Spreadsheet
	Voluntary Nutrient Contributions	\$0	\$0	0%	\$0	
Other Receipts	AIR Non-Member	\$7,075	\$7,075	100%	\$0	Santa Rosa
	BAPPG Non-Members	\$3,954	\$3,953	100%	-\$1	Stanta Rosa, Sac Reg'l, Vacaville; \$1,317/each
	Other	\$0	\$93,038		\$93,038	Prop 84 and 2020 invoice payment
Fund Transfer	Special Program Admin Fees (WOT)	\$5,202	\$1,000	19%	-\$4,202	Flat fee
	Special Program Admin Fees (BACC)	\$20,010	\$29,680	148%	\$9,670	300 hours of AED support, based on hours billed
	Special Program Admin Fees (BABC)	\$6,000	\$4,701	78%	-\$1,299	AED and RPM support, hours billed
Interest Income	LAIF	\$20,000	\$19,125	96%	-\$875	BACWA, Legal, & CBC Funds invested in LAIF
	Higher Yield Investments	\$18,000	\$0	0%	-\$18,000	Alternative Investment Interest (Legal & CBC Funds invested in AltInv)
	Total Revenue	\$3,159,943	\$3,242,874	102.62%	\$82,931	
BACWA FY21 BUDGET	Line Item Description	FY 2021 Budget	Actual June 2021	Actual % of Budget June 2021	<u>Variance</u>	<u>NOTES</u>
<u>EXPENSES</u>						
Labor						
	Executive Director	\$190,000	\$190,000			No change from FY20 contract
	Assistant Executive Director	\$102,551	\$102,496			\$66.7/hour; Reflects 1500 hours /yr
	Regulatory Program Manager	\$141,170	\$139,597	99%		\$100.16/hour; Reflects 1375 hours/yr
	Total	\$433,721	\$432,093	100%	-\$1,628	
Administration						
	EBMUD Financial Services	\$42,448	\$41,056	97%	-\$1,392	
	Auditing Services	\$5,345	\$5,240	98%	-\$105	Financial Audit Services through EBMUD
	Administrative Expenses	\$7,959	\$194	2%	-\$7,765	Travel, Supplies, Parking, Mileage, Tolls, Misc.
	Insurance	\$4,776	\$4,971	104%	\$195	SLIP Insurance. Alliant Insurance.
	Total	\$60,528	\$51,461	85%	-\$9,067	
Meetings						
ecuis	EB Meetings	\$2,653	\$257	10%	-\$2 306	Catering, Venue, other expenses
	Annual Meeting	\$14,369	\$2,519			Catering, Venue, other expenses  Catering, Venue, other expenses
	Pardee	\$6,367	\$0	0%		Catering, Venue, other expenses
	Misc. Meetings	\$5,306	\$571	11%		Hol & Comm Chair Lunch, Staff Mtgs, Fin Comm, Summit Ptnrs, CASA, NACWA Tech WS, Low Flow WS
	Total	\$28,695	\$3,347	12%	-\$25,348	
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Communication	1					
	Website Hosting	\$612	\$57	9%		Computer Courage
	File Storage	\$765	\$720	94%		Box.com
	Website Development/Maintenance	\$1,530	\$415	27%		Domain registrations, website changes
	IT Support	\$2,652	\$0	0%		As needed  MS Evelopes Survey Mankey Corbanita Doodle Polls Pollfy CoToMtg HolleSign Zoom
	Other Commun	\$1,785	\$1,949			MS Exchange, Survey Monkey, Carbonite, Doodle Polls, PollEv, GoToMtg, HelloSign, Zoom
	Total	\$7,344	\$3,141	43%	-\$4,203	

#### FY 2021 BACWA BUDGET to ACTUAL

<u>EXPENSES</u>						
Legal		1				
0-	Regulatory Support	\$2,706	\$0	0%	-\$2,706	Downey Brand LLP
	Executive Board Support	\$2,176	\$1,166	54%		Day Carter & Murphy LLP
	Total	\$4,882	\$1,166	24%	-\$3,716	
Committees	1	476.000	47.000	2004	41.010	
	AIR	\$76,000	\$74,982	99%		\$75k consulting support, \$1k misc expenses. Carollo Engineers
	BAPPG	\$130,000	\$133,264	103%		Includes CPSC @ \$10,000, OWOW @ \$10,000, and Pest. Reg Spt. @ \$60,000. S.Hughes, TDC and SGA
	Biosolids Committee	\$1,000	\$0	0%	-\$1,000	
	Collections System	\$1,000	\$0	0%	-\$1,000	
	InfoShare Groups	\$1,750	\$0	0%		Funds for 2 workgroups (\$750 for Asset Mgmt - new in FY21; \$1,000 for O&M)
	Laboratory Committee	\$1,000	\$0	0%	-\$1,000	
	Permits Committee	\$1,300	\$0	0%		All meetings moved to include lunch hour for commuting purposes
	Pretreatment	\$1,000	\$0	0%	-\$1,000	
	Recycled Water Committee	\$1,000	\$160	16%	-\$840	
	Misc Committee Support	\$45,000	\$0	0%	-\$45,000	
	Manager's Roundtable	\$1,000	\$0	0%	-\$1,000	
	Total	\$260,050	\$208,406	80%	-\$51,644	
Collaboratives						
	Collaboratives					
	State of the Estuary (SFEP-biennial)	\$20,000	\$0	0%	-\$20,000	Biennial in Odd Fiscal Years. (Paid bienniely in odd years for even year conference)
	Arleen Navarret Award	\$0	\$0	0%		Biennial in Even Fiscal Years. Award amount increased in FY20
	FWQC (Fred Andes)	\$7,500	\$0	0%	-\$7,500	
	Stanford ERC (ReNUWIt)	\$10,000	\$0	0%	-\$10,000	
	Misc	\$5,000	\$1,500	30%	-\$3,500	BayCAN, NBWA
	Total	\$42,500	\$1,500	4%	-\$41,000	
Other						
Other				1		
	Unburdented Itama					
	Unbudgeted Items	\$n	\$26.550	0%	\$26.550	City of Liverymore partial membership refund
	Unbudgeted Items Other	\$0	\$26,559	0%		City of Liverymore partial membership refund
		\$0 \$0	\$26,559 <b>\$26,559</b>	0% <b>0</b> %	\$26,559 <b>\$26,559</b>	City of Liverymore partial membership refund
Tech Support		-		-		City of Liverymore partial membership refund
Tech Support		-		-		City of Liverymore partial membership refund
Tech Support	Other	-	\$26,559	-		City of Liverymore partial membership refund
Tech Support	Other  Technical Support	-	\$26,559	-	\$26,559	City of Liverymore partial membership refund  Advance funding for 2nd Watershed Permit Science Studies. SFEI
Tech Support	Technical Support Nutrients Watershed NMS Voluntary Contributions	\$0 \$2,800,000 \$0	\$26,559 \$2,600,000 \$30,000	93% 0%	\$26,559 -\$200,000 \$30,000	Advance funding for 2nd Watershed Permit Science Studies. SFEI  SFEI \ City of Palo Alto 2017 Lower South Bay modeling
Tech Support	Technical Support  Nutrients  Watershed  NMS Voluntary Contributions  Additional work under permit	\$0 \$2,800,000 \$0 \$100,000	\$26,559 \$2,600,000 \$30,000 \$63,960	93% 0% 64%	\$26,559 -\$200,000 \$30,000 -\$36,040	Advance funding for 2nd Watershed Permit Science Studies. SFEI  SFEI \ City of Palo Alto 2017 Lower South Bay modeling Includes HDR PO for \$225k spread out over FY20-24.
Tech Support	Technical Support  Nutrients  Watershed  NMS Voluntary Contributions  Additional work under permit  Regional Study on Nature based systems	\$0 \$2,800,000 \$0 \$100,000 \$200,000	\$26,559 \$2,600,000 \$30,000 \$63,960 \$136,696	93% 0% 64% 68%	\$26,559 -\$200,000 \$30,000 -\$36,040 -\$63,304	Advance funding for 2nd Watershed Permit Science Studies. SFEI  SFEI \ City of Palo Alto 2017 Lower South Bay modeling Includes HDR PO for \$225k spread out over FY20-24.  New Line item in FY20. SFEI
Tech Support	Technical Support  Nutrients  Watershed  NMS Voluntary Contributions  Additional work under permit  Regional Study on Nature based systems  Regional Recycling Evaluation	\$2,800,000 \$0 \$100,000 \$200,000 \$60,000	\$26,559 \$2,600,000 \$30,000 \$63,960 \$136,696 \$74,644	93% 0% 64% 68% 124%	-\$200,000 \$30,000 -\$36,040 -\$63,304 \$14,644	Advance funding for 2nd Watershed Permit Science Studies. SFEI  SFEI \ City of Palo Alto 2017 Lower South Bay modeling Includes HDR PO for \$225k spread out over FY20-24.  New Line item in FY20. SFEI  HDR PO for \$154K FY20-24
Tech Support	Technical Support  Nutrients  Watershed  NMS Voluntary Contributions  Additional work under permit  Regional Study on Nature based systems  Regional Recycling Evaluation  Nutrient Workshop(s)	\$0 \$2,800,000 \$0 \$100,000 \$200,000 \$60,000 \$0	\$26,559 \$2,600,000 \$30,000 \$63,960 \$136,696 \$74,644 \$0	93% 0% 64% 68% 124% 0%	-\$200,000 \$30,000 -\$36,040 -\$63,304 \$14,644 \$0	Advance funding for 2nd Watershed Permit Science Studies. SFEI  SFEI \ City of Palo Alto 2017 Lower South Bay modeling Includes HDR PO for \$225k spread out over FY20-24.  New Line item in FY20. SFEI  HDR PO for \$154K FY20-24  Pilot Studies/Plant Review/InDecative Technologies
Tech Support	Technical Support  Nutrients  Watershed  NMS Voluntary Contributions  Additional work under permit  Regional Study on Nature based systems  Regional Recycling Evaluation  Nutrient Workshop(s)  General Tech Support	\$0 \$2,800,000 \$0 \$100,000 \$200,000 \$60,000 \$0 \$250,000	\$26,559 \$2,600,000 \$30,000 \$63,960 \$136,696 \$74,644 \$0 \$72,437	93% 0% 64% 68% 124% 0% 29%	\$26,559  -\$200,000 \$30,000 -\$36,040 -\$63,304 \$14,644 \$0 -\$177,563	Advance funding for 2nd Watershed Permit Science Studies. SFEI  SFEI \ City of Palo Alto 2017 Lower South Bay modeling Includes HDR PO for \$225k spread out over FY20-24.  New Line item in FY20. SFEI HDR PO for \$154K FY20-24  Pilot Studies/Plant Review/InDecative Technologies  AB617 emission factors, nutrient technical review, other nutrient support, PFAS
Tech Support	Technical Support  Nutrients  Watershed  NMS Voluntary Contributions  Additional work under permit  Regional Study on Nature based systems  Regional Recycling Evaluation  Nutrient Workshop(s)  General Tech Support  CEC Investigations	\$0 \$2,800,000 \$0 \$100,000 \$200,000 \$60,000 \$0 \$250,000 \$50,000	\$26,559 \$2,600,000 \$30,000 \$63,960 \$136,696 \$74,644 \$0 \$72,437 \$13,080	93% 0% 64% 68% 124% 0% 29% 26%	\$26,559  -\$200,000 \$30,000 -\$36,040 -\$63,304 \$14,644 \$0 -\$177,563 -\$36,920	Advance funding for 2nd Watershed Permit Science Studies. SFEI  SFEI \ City of Palo Alto 2017 Lower South Bay modeling Includes HDR PO for \$225k spread out over FY20-24.  New Line item in FY20. SFEI  HDR PO for \$154K FY20-24  Pilot Studies/Plant Review/InDecative Technologies  AB617 emission factors, nutrient technical review, other nutrient support, PFAS  Support for studies through RMP (PFAS in FY21). SFEI
Tech Support	Technical Support  Nutrients  Watershed  NMS Voluntary Contributions  Additional work under permit  Regional Study on Nature based systems  Regional Recycling Evaluation  Nutrient Workshop(s)  General Tech Support  CEC Investigations  Risk Reduction	\$0 \$2,800,000 \$0 \$100,000 \$200,000 \$60,000 \$0 \$250,000 \$50,000 \$7,500	\$26,559 \$2,600,000 \$30,000 \$63,960 \$136,696 \$74,644 \$0 \$72,437 \$13,080 \$0	93% 0% 64% 68% 124% 0% 29% 26% 0%	\$26,559  -\$200,000 \$30,000 -\$36,040 -\$63,304 \$14,644 \$0 -\$177,563 -\$36,920 -\$7,500	Advance funding for 2nd Watershed Permit Science Studies. SFEI  SFEI \ City of Palo Alto 2017 Lower South Bay modeling Includes HDR PO for \$225k spread out over FY20-24.  New Line item in FY20. SFEI HDR PO for \$154K FY20-24  Pilot Studies/Plant Review/InDecative Technologies  AB617 emission factors, nutrient technical review, other nutrient support, PFAS
Tech Support	Technical Support  Nutrients  Watershed  NMS Voluntary Contributions  Additional work under permit  Regional Study on Nature based systems  Regional Recycling Evaluation  Nutrient Workshop(s)  General Tech Support  CEC Investigations	\$0 \$2,800,000 \$0 \$100,000 \$200,000 \$60,000 \$0 \$250,000 \$50,000	\$26,559 \$2,600,000 \$30,000 \$63,960 \$136,696 \$74,644 \$0 \$72,437 \$13,080 \$0	93% 0% 64% 68% 124% 0% 29% 26%	\$26,559  -\$200,000 \$30,000 -\$36,040 -\$63,304 \$14,644 \$0 -\$177,563 -\$36,920	Advance funding for 2nd Watershed Permit Science Studies. SFEI  SFEI \ City of Palo Alto 2017 Lower South Bay modeling Includes HDR PO for \$225k spread out over FY20-24.  New Line item in FY20. SFEI  HDR PO for \$154K FY20-24  Pilot Studies/Plant Review/InDecative Technologies  AB617 emission factors, nutrient technical review, other nutrient support, PFAS  Support for studies through RMP (PFAS in FY21). SFEI
Tech Support	Technical Support  Nutrients  Watershed  NMS Voluntary Contributions  Additional work under permit  Regional Study on Nature based systems  Regional Recycling Evaluation  Nutrient Workshop(s)  General Tech Support  CEC Investigations  Risk Reduction	\$2,800,000 \$0 \$100,000 \$200,000 \$60,000 \$50,000 \$50,000 \$7,500	\$26,559 \$2,600,000 \$30,000 \$63,960 \$136,696 \$74,644 \$0 \$72,437 \$13,080 \$0	93% 0% 64% 68% 124% 0% 29% 26% 0%	\$26,559  -\$200,000 \$30,000 -\$36,040 -\$63,304 \$14,644 \$0 -\$177,563 -\$36,920 -\$7,500	Advance funding for 2nd Watershed Permit Science Studies. SFEI  SFEI \ City of Palo Alto 2017 Lower South Bay modeling Includes HDR PO for \$225k spread out over FY20-24.  New Line item in FY20. SFEI HDR PO for \$154K FY20-24 Pilot Studies/Plant Review/InDecative Technologies  AB617 emission factors, nutrient technical review, other nutrient support, PFAS Support for studies through RMP (PFAS in FY21). SFEI \$50,000 over 5 years (FY19-FY23) 2 Contracts for \$25,000 each over FY19, 20, & 21
Tech Support	Technical Support  Nutrients  Watershed  NMS Voluntary Contributions  Additional work under permit  Regional Study on Nature based systems  Regional Recycling Evaluation  Nutrient Workshop(s)  General Tech Support  CEC Investigations  Risk Reduction  Total	\$2,800,000 \$0 \$100,000 \$200,000 \$60,000 \$50,000 \$50,000 \$7,500	\$26,559 \$2,600,000 \$30,000 \$63,960 \$136,696 \$74,644 \$0 \$72,437 \$13,080 \$0 \$2,990,817	93% 0% 64% 68% 124% 0% 29% 26% 0% 86%	\$26,559  -\$200,000 \$30,000 -\$36,040 -\$63,304 \$14,644 \$0 -\$177,563 -\$36,920 -\$7,500 -\$476,683	Advance funding for 2nd Watershed Permit Science Studies. SFEI  SFEI \ City of Palo Alto 2017 Lower South Bay modeling Includes HDR PO for \$225k spread out over FY20-24.  New Line item in FY20. SFEI HDR PO for \$154K FY20-24 Pilot Studies/Plant Review/InDecative Technologies  AB617 emission factors, nutrient technical review, other nutrient support, PFAS Support for studies through RMP (PFAS in FY21). SFEI \$50,000 over 5 years (FY19-FY23) 2 Contracts for \$25,000 each over FY19, 20, & 21
Tech Support	Technical Support  Nutrients  Watershed  NMS Voluntary Contributions  Additional work under permit  Regional Study on Nature based systems  Regional Recycling Evaluation  Nutrient Workshop(s)  General Tech Support  CEC Investigations  Risk Reduction  Total  TOTAL EXPENSES  NET INCOME BEFORE TRANSFERS	\$2,800,000 \$0 \$100,000 \$200,000 \$60,000 \$50,000 \$7,500 \$3,467,500 \$4,305,220 -\$1,145,277	\$26,559 \$2,600,000 \$30,000 \$63,960 \$136,696 \$74,644 \$0 \$72,437 \$13,080 \$0 \$2,990,817 \$3,718,490 -\$475,616	93% 0% 64% 68% 124% 0% 29% 26% 0% 86%	\$26,559  -\$200,000 \$30,000 -\$36,040 -\$63,304 \$14,644 \$0 -\$177,563 -\$36,920 -\$7,500 -\$476,683  -\$586,730	Advance funding for 2nd Watershed Permit Science Studies. SFEI  SFEI \ City of Palo Alto 2017 Lower South Bay modeling Includes HDR PO for \$225k spread out over FY20-24.  New Line item in FY20. SFEI  HDR PO for \$154K FY20-24  Pilot Studies/Plant Review/InDecative Technologies  AB617 emission factors, nutrient technical review, other nutrient support, PFAS  Support for studies through RMP (PFAS in FY21). SFEI  \$50,000 over 5 years (FY19-FY23) 2 Contracts for \$25,000 each over FY19, 20, & 21
Tech Support	Technical Support  Nutrients  Watershed  NMS Voluntary Contributions  Additional work under permit  Regional Study on Nature based systems  Regional Recycling Evaluation  Nutrient Workshop(s)  General Tech Support  CEC Investigations  Risk Reduction  Total  TOTAL EXPENSES  NET INCOME BEFORE TRANSFERS  TRANSFERS FROM RESERVES	\$2,800,000 \$100,000 \$200,000 \$60,000 \$50,000 \$7,500 \$3,467,500 \$4,305,220 -\$1,145,277 \$1,145,277	\$26,559 \$2,600,000 \$30,000 \$63,960 \$136,696 \$74,644 \$0 \$72,437 \$13,080 \$0 \$2,990,817 \$3,718,490 -\$475,616 \$475,616	93% 0% 64% 68% 124% 0% 29% 26% 0% 86%	\$26,559  -\$200,000 \$30,000 -\$36,040 -\$63,304 \$14,644 \$0 -\$177,563 -\$36,920 -\$7,500 -\$476,683  -\$586,730	Advance funding for 2nd Watershed Permit Science Studies. SFEI  SFEI \ City of Palo Alto 2017 Lower South Bay modeling Includes HDR PO for \$225k spread out over FY20-24.  New Line item in FY20. SFEI HDR PO for \$154K FY20-24 Pilot Studies/Plant Review/InDecative Technologies  AB617 emission factors, nutrient technical review, other nutrient support, PFAS Support for studies through RMP (PFAS in FY21). SFEI \$50,000 over 5 years (FY19-FY23) 2 Contracts for \$25,000 each over FY19, 20, & 21
Tech Support	Technical Support  Nutrients  Watershed  NMS Voluntary Contributions  Additional work under permit  Regional Study on Nature based systems  Regional Recycling Evaluation  Nutrient Workshop(s)  General Tech Support  CEC Investigations  Risk Reduction  Total  TOTAL EXPENSES  NET INCOME BEFORE TRANSFERS  TRANSFERS FROM RESERVES  NET INCOME AFTER TRANSFERS	\$0 \$2,800,000 \$100,000 \$200,000 \$60,000 \$50,000 \$7,500 \$3,467,500 \$4,305,220 -\$1,145,277 \$1,145,277	\$26,559 \$2,600,000 \$30,000 \$63,960 \$136,696 \$74,644 \$0 \$72,437 \$13,080 \$0 \$2,990,817 \$3,718,490 -\$475,616	93% 0% 64% 68% 124% 0% 29% 26% 0% 86%	\$26,559  -\$200,000 \$30,000 -\$36,040 -\$63,304 \$14,644 \$0 -\$177,563 -\$36,920 -\$7,500 -\$476,683  -\$586,730	Advance funding for 2nd Watershed Permit Science Studies. SFEI  SFEI \ City of Palo Alto 2017 Lower South Bay modeling Includes HDR PO for \$225k spread out over FY20-24.  New Line item in FY20. SFEI  HDR PO for \$154K FY20-24  Pilot Studies/Plant Review/InDecative Technologies  AB617 emission factors, nutrient technical review, other nutrient support, PFAS  Support for studies through RMP (PFAS in FY21). SFEI  \$50,000 over 5 years (FY19-FY23) 2 Contracts for \$25,000 each over FY19, 20, & 21
Tech Support	Technical Support  Nutrients  Watershed  NMS Voluntary Contributions  Additional work under permit  Regional Study on Nature based systems  Regional Recycling Evaluation  Nutrient Workshop(s)  General Tech Support  CEC Investigations  Risk Reduction  Total  TOTAL EXPENSES  NET INCOME BEFORE TRANSFERS  TRANSFERS FROM RESERVES	\$2,800,000 \$100,000 \$200,000 \$60,000 \$50,000 \$7,500 \$3,467,500 \$4,305,220 -\$1,145,277 \$1,145,277	\$26,559 \$2,600,000 \$30,000 \$63,960 \$136,696 \$74,644 \$0 \$72,437 \$13,080 \$0 \$2,990,817 \$3,718,490 -\$475,616 \$475,616	93% 0% 64% 68% 124% 0% 29% 26% 0% 86%	\$26,559  -\$200,000 \$30,000 -\$36,040 -\$63,304 \$14,644 \$0 -\$177,563 -\$36,920 -\$7,500 -\$476,683  -\$586,730	Advance funding for 2nd Watershed Permit Science Studies. SFEI  SFEI \ City of Palo Alto 2017 Lower South Bay modeling Includes HDR PO for \$225k spread out over FY20-24.  New Line item in FY20. SFEI  HDR PO for \$154K FY20-24  Pilot Studies/Plant Review/InDecative Technologies  AB617 emission factors, nutrient technical review, other nutrient support, PFAS  Support for studies through RMP (PFAS in FY21). SFEI  \$50,000 over 5 years (FY19-FY23) 2 Contracts for \$25,000 each over FY19, 20, & 21

### **BACWA Fund Report as of June 30, 2021**

		BACWA	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	1,195,233	854,113	729,018	1,320,328	15,001	1,305,327					
804	LEGAL RSRV	300,000	-	-	300,000	-	300,000					
805	CBC	1,772,881	2,390,074	2,990,817	1,172,138	582,517	589,621					
	SUBTOTAL 1	3,268,114	3,244,187	3,719,835	2,792,466	597,518	2,194,948					
802	BABC	216,514	93,250	197,027	112,737	10,321	102,416					
806	BACC	(1,563)	66,745	43,036	22,146	145	22,001					
810	WOT	276,164	-	1,021	275,143	-	275,143					
	SUBTOTAL 2	491,115	159,995	241,084	410,026	10,466	399,560					
*811	PRP84	196,806	-	196,806	-	-	-					
	SUBTOTAL 3	196,806	-	196,806	-	-	-					
	<b>GRAND TOTAL</b>	3,956,035	3,404,182	4,157,725	3,202,492	607,984	2,594,508					

Top Chart:
Bottom Chart:
Allocations:

nart: Reflects CASH on the Books in Chart: Reflects CASH in the Bank Includes Encumbrances

Includes Payables (bills received but not paid)

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	I ALTERNATIVE INVESTMENT	
800	BACWA	1,195,233	854,113	729,018	1,320,328	198,104	1,518,432	727,970	790,462	35%	-		priority # 3 for allocation	
804	LEGAL RSRV	300,000	-	-	300,000	-	300,000	-	300,000	13%	-		priority # 1 for allocation	
805	CBC	1,772,881	2,390,074	2,990,817	1,172,138	-	1,172,138	-	1,172,138	52%	-		priority # 2 for allocation	
	SUBTOTAL 1	3,268,114	3,244,187	3,719,835	2,792,466	198,104	2,990,570	727,970	2,262,600	100%	-			
		_						_	_	_	_			
000	DADC	246 544	02.250	107.027	112 727		112 727	442 727		00/			and the second founds and allocations	

802	BABC	216,514	93,250	197,027	112,737	-	112,737	112,737	-	0%	1	pass-through funds, no allocation
806	BACC	(1,563)	66,745	43,036	22,146	•	22,146	22,146	-	0%	•	
810	WOT	276,164	-	1,021	275,143	-	275,143	275,143	-	0%	-	pass-through funds, no allocation
	SUBTOTAL 2	491,115	159,995	241,084	410,026	-	410,026	410,026	-	0%	-	
811	PRP84	196,806	-	196,806	1	-	-	-	-	0%	-	pass-through funds, no allocation
	SUBTOTAL 3	196,806	-	196,806	1	-	-	-	-	0%	-	
	GRAND TOTAL	3,956,035	3,404,182	4,157,725	3,202,492	198,104	3,400,596	1,137,996	2,262,600	-		

<sup>\*</sup>Org 811 beg balance adjusted to reflect disbursement (147.7K) accrued after June 2020 TR published.

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

Per Report above:		STB	1493	2,262,600
General	3,244,187	STB	1505	1,137,996
WOT	159,995			3,400,596
PROP	-	STB	2135	(198,104)
subtotal	3,404,182			3,202,492

### Billings-Pending Receipts

4686	Mem Contrib	21,627
4687	Transfer	_
4690	Assoc Contrib	(17,107)
4696	Other	(21,480)
4731	State Grant	_
4732	Grant Retention	_
subtotal		(16,960)

#### <u>Trial Balance Revenue Accounts</u> 4411 Interest

Differen	nce	(0)
subtota	I	(3,387,222)
1732	Grant Retention_	-
1731	State Grant	-
1696	Other	(1,692,119)
1690	Assoc Contrib	(189,997)
1687	Transfer	(127,130)
1686	Mem Contrib	(1,358,850)
1411	Interest	(19,126)

3,202,492

### BACWA Revenue Report as of June 30, 2021

					CI	URRENT PERIO	OD		YEAR TO	DATE		
							Interest,			Interest,		
FUND	DED 4 DT445 VIT	IOB	DEVENUE TVDE	AMENDED	Admin & General	Contributons	Transfers,Ot hers	Admin & General	Contributons	Transfers,Ot hers	ACTUAL	
<b>#</b> 800	<b>DEPARTMENT</b> Bay Area Clean Water Agencies	<b>JOB</b> 0408511	REVENUE TYPE Administrative & General	BUDGET	Ceneral	Contributoris	11013	General	Contributions	-	AOTOAL	UNOBLIGATED
800	Bay Area Clean Water Agencies	1011099	BDO Member Contributions	516,909	_				516,910	_	516,910	(1)
800	Bay Area Clean Water Agencies	10111033	BDO Other Receipts	310,909					510,510	_	510,510	(1)
800	Bay Area Clean Water Agencies	1011100	BDO Fund Transfers	5,202			121,117			1,000	1,000	4,202
800	Bay Area Clean Water Agencies	10111103	BDO- Interest Income from LAIF	20,000			121,117			4,772	4,772	15,228
800	Bay Area Clean Water Agencies	1011117	BDO Assoc.&Affiliate Contr	187,793	_	_			112,615	-,//2	112,615	75,178
800	Bay Area Clean Water Agencies	1011133	BDO Non-Member Contr BAPPG	3,954	_				3,953	_	3,953	73,176
800	Bay Area Clean Water Agencies	1014251	BDO Non-Member Contr BALLA  BDO Non-Member Contr AIR	7,075	_	_			7,075	_	7,075	
800	Bay Area Clean Water Agencies	1014232	BDO-Alternative Investment Inc	18,000					1,015	_	-	18,000
800	Bay Area Clean Water Agencies	1014511	BACC - AED Support	20,010	_		1,312		_	30,992	30,992	(10,982)
800	Bay Area Clean Water Agencies	1015568	BABC - AED and RPM Support	6,000	_		2,428			4,701	4,701	1,299
800	Bay Area Clean Water Agencies	1015366	BDO Other Receipts (Misc)	0,000	_		2,420		2,601	90,437	93,038	(93,038)
	Bay Area Clean Water Agencies	1015265	BDO Offiel Receipts (Misc)  BDO Affiliate/Associate Dues	-	-	-	-	-	41,004	30,437	41,004	(41,004)
800 800	Bay Area Clean Water Agencies	1015266	BDO Affil/CS/Assoc Dues	-	-	1,709	-	-	38,053	-	38,053	
800	,	1015207	BDO AIII/CS/ASSOC Dues	704.042			404.057	<u>-</u>				(38,053)
005	BACWA TOTAL	1011099	BDO Member Contributions	<b>784,943</b> 675,000	-	1,709	124,857	-	<b>722,211</b> 675,750	131,902	854,113	(69,170)
805	WQA-CBC				-	-	-	-		-	675,750	(750)
805	WQA-CBC	1011108	BDO Other Receipts	1,700,000	-	-		-	1,699,970	14354	1,699,970	30
805	WQA-CBC	1011117	BDO- Interest Income from LAIF	-	-	-	-	-	-	14,354	14,354	(14,354)
805	WQA-CBC	1014528	BDO-Voluntary Nutrient Contrib		-	-	-	-		- 44.054		(45.074)
	WQA CBC TOTAL			2,375,000	-	-	-	-	2,375,720	14,354	2,390,074	(15,074)
	TOTAL			3,159,943	-	1,709	124,857	-	3,097,931	146,256	3,244,187	(84,244)
		1	1		CI	URRENT PERIO	חח		YEAR TO	DATE		
							Interest,		Interest,			
				AMENDED	Admin &		Transfers,	Admin &		Transfers,		
	DEPARTMENT	JOB	REVENUE TYPE	BUDGET	General	Contributons	Others	General	Contributons	Others	ACTUAL	UNOBLIGATED
802	BABC	1011099	BDO Member Contributions	-	-	-	-	-	93,250	-	93,250	(93,250)
802	BABC	1011109	BDO Fund Transfers	-	-	-	-	-	-	-	-	-
	BABC TOTAL			-	-	-	-	•	93,250	-	93,250	(93,250)
806	BACC	1011099	BDO Member Contributions	_	_	15,432	_	_	66,745	_	66,745	(66,745)
	WOT TOTAL			-	-	15,432	-	-	66,745	-	66,745	(66,745)
040	WOT	4044447	PPO 11 11 ( 1415									
810	WOT TOTAL	1011117	BDO- Interest Income from LAIF	-	-	-	-	-	-	-	-	-
	WOTTOTAL			-	-		-	-	-	-	-	
		1			CURRENT PERIOD		YEAR TO DATE					
							Interest,			Interest,		
		1		AMENDED	Admin &	0 4 11 4	Transfers,	Admin &	0 4 15 14	Transfers,	AOTHAL	
044	DEPARTMENT	JOB	REVENUE TYPE	BUDGET	General	Contributons	Others	General	Contributons	Others	ACTUAL	UNOBLIGATED
811	PROP 84	1011142	Administrative Support	-	-	-	-	-	-	-		-
	PROP TOTAL			-	-	-	-	-	-	-	-	-
	Grand Total			3,159,943		17,141	124,857		3,257,926	146,256	3,404,182	(244,239)
	· - · · · · · · · · · · · · · ·			5,.55,546		,	. = +,007		0,201,020	,	=, . ==, . ==	(=++,=00 <i>)</i>

### BACWA Expense Detail Report for June 30, 2021

				CURRENT PER				YEAR TO				
EXPENSE TYPE	JOB	AMENDED BUDGET	ENC	PV	DA	JV	ENC	PV	DA	JV	OBLIGATED	UNOBLIGATE
ABOR	40444==					-						
AS-Executive Director	1011123	190,000	(31,666)	15,833	-	15,833	-	174,167	-	15,833	190,000	-
AS-Assistant Executive Directo	1011124	102,551	(7,137)	7,137	-	-	55	102,496	-	-	102,551	-
AS-Regulatory Program Manager	1011149	141,170	(9,996)	9,996	-	-	-	139,597		-	139,597	1,5
ADMINISTRATION												
AS-EBMUD Financial Services	1011125	42,448	(10,690)	10,690	-	-	47	42,401	-	-	42,448	-
AS-Audit Services	1014512	5,345	(5,240)	-	-	5,240	5,240	5,240	-	-	10,480	(5,1
BDO Other Receipts	1011108	-	-	-	-	-	-	-	26,559	-	26,559	(26,5
AS-BACWA Admin Expense	1011118	7,959	-	-	-	-	-	-	194	-	194	7,7
AS-Insurance	1011126	4,776	-	-	-	-	-	-	4,971	-	4,971	(1
MEETINGS												
GBS-Meeting Support-Annual	1014514	14,369	-	-	-	-	-	-	2,519	-	2,519	11,8
GBS-Meeting Support-Exec Bd	1014513	2,653	-	-	-	-	2,653	-	257	-	2,910	(2
GBS-Meeting Support-Misc	1014516	5,306	-	-	-	-	-	-	571	-	571	4,7
GBS-Meeting Support-Pardee	1014515	6,367	-	-	-	-	-	-	-	-	-	6,3
COMMUNICATION												
CAR-BACWA File Storage	1014518	765	-	-	-	-	-	-	720	-	720	
CAR-BACWA IT Software	1014520	1,785	-	-	64	-	-	-	1,949	-	1,949	(1
CAR-BACWA IT Support	1014519	2,652	-	-	-	-	2,652	-	-	-	2,652	-
CAR-BACWA Website Dev/Maint	1011116	612	-	-	-	-	-	-	57	-	57	5
CAR-BACWA Website Hosting	1014517	1,530	-	-	-	-	-	-	415	-	415	1,1
EGAL												
S-Executive Board Support	1011110	2,176	-	-	-	-	1,090	1,166	-	-	2,256	(
S-Regulatory Support	1011107	2,706					2,466				2,466	2
COMMITTEES												
IR-Air Issues&Regulation Grp	1014253	76,000	(21,014)	21,014	-	-	18	74,982	-	-	75,000	1,0
SC-BAPPG	1011147	130,000	(8,570)	21,764	-	-	780	109,688	25,601	(2,025)	134,044	(4,0
BC-Biosolids Committee	1011101	1,000	-	-	-	-	-	-	-	-	-	1,0
C-Collections System	1011097	1,000	-	-	-	-	-	-	-	-	-	1,0
3C-InfoShare Groups	1011102	1,750	_	_	_	_	_	-	_	_	-	1,7
BC-Laboratory Committee	1011103	1,000	_	_		_		_	_		_	1,0
BC-Permit Committee	1011103		-	-	_	_	_	-	-	_	_	1,3
		1,300	-	-	-	-	-	-	-	-	-	
SC-Pretreatment Committee	1011146	1,000	-	-	-	-	-	-	-	-	-	1,0
BC-Water Recycling Committee	1011100	1,000	-	-	-	-	-	160	-	-	160	8
BC-Manager's Roundtable	1014777	1,000	-	-	-	-	-	-	-	-	-	1,0
BC-Miscellaneous Committee Sup	1011104	45,000	-	-	-	-	-	-	-	-	-	45,0
COLLABORATIVES												
CAS-Arleen Navaret Award	1012201	-	-	-	-	-	-	-	-	-	-	
CAS-FWQC	1012202	7,500	-	-	-	-	-	-	-	-	-	7,5
CAS-Misc Collaborative Sup	1014521	5,000	_	_	_	_	_	_	1,500	_	1,500	3,5
CAS-PSSEP	1011112	20,000	_	_	_	_	_	_	-	_	-	20,0
CAS-Stanford ERC	1011969	10,000	_	_	_	_	_	_	_	_	_	10,0
BACWA TOTAL	1011000	837,720	(94,313)	86,434	64	21,073	15,001	649,897	65,313	13,808	744,019	93,7
SACWA TOTAL		037,720	(34,313)	60,434	04	21,073	13,001	049,897	03,313	13,808	744,013	93,7
ECH SUPPORT												
VQA-CE-Technical Support	1011127	250,000					42.005	72 427	2 5 4 0	(2.540)	114 522	135,4
VQA-CE-Nutrient WS Permit Comm	1011127		-	-	-	-	42,095	72,437	3,548	(3,548)	114,532	
VQA-CE Risk Reduction	1014021	2,800,000	-	-	-	-	-	-	2,600,000	-	2,600,000	200,0
		7,500	(20, 460)	-	-	-	-	-	-	-	102.000	7,5
VQA-CE Addl Work Under Permit	1014254	100,000	(29,460)	29,460	-	-	118,040	63,960	-	-	182,000	(82,0
VQA-CE Voluntary Nutr Contrib	1014529	-	-	-	-	-	-	-	30,000	-	30,000	(30,0
Nutrient Workshops	1015015	200 200	(42.000)	-	-	-	-	426.666	-	-	405.000	/225
WQA-CE-Nature Based Solutions	1015367	200,000	(12,663)	12,663	-	-	299,224	136,696	-	-	435,920	(235,9
Recycled Water Evaluation	1015566	60,000	(28,098)	28,098	-	4.0.00	67,190	74,644	-		141,834	(81,8
WQA - CEC Investigations	1015569	50,000	- (70.004)	-	-	4,048	55,968	9,032	-	4,048	69,048	(19,0
ECH SUPPORT (CBC) TOTAL		3,467,500	(70,221)	70,221		4,048	582,517	356,769	2,633,548	500	3,573,334	(105,8
GRAND TOTAL		4,305,220	(164,534)	156,655	64	25,121	597,518	1,006,666	2,698,861	14,308	4,317,353	(12,1
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BABC												
S-Assistant Executive Directo	1011124	-	-	-	-	-	-	-	-	-	-	
Administrative Support	1011142	-	-	-	-	2,428	-	-	-	4,702	4,702	(4,7
BDO Contract Expenses	1011143	-	-	-	-	-	-	-	4,621	-	4,621	(4,0
AS-Regulatory Program Manager	1011149	-	-	-	-	-	-	-	-	-	-	
echnology Research & Developm	1015372	-	-	-	-	-	-	-	5,000	-	5,000	(5,0
Academia Research & Developmen	1015373	-	-	-	-	-	-	64,500	-	-	64,500	(64,
Collateral Development	1015374	-	-	-	-	-	-	1,125	37,400	-	38,525	(38,
Program Manager Expense	1015376	-	(14,399)	14,399	-	-	10,321	79,679	-	-	90,000	(90,0
BABC TOTAL		-	(14,399)	14,399	-	2,428	10,321	145,304	47,021	4,702	207,348	(207,3
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BACC												
Administrative Support	1011142	_	_	_	_	30,992	145	11,230	814	30,992	43,181	(43,1
BACC TOTAL	1011142			<u>-</u>	<u>-</u>	30,992	145 145	11,230	814	30,992	43,181	(43,1
AGG TOTAL		-	-	-	-	30,332	140	11,230	014	30,332	43,101	(43,
VOT												
VOT	40444.5								-	, =		
Administrative Support	1011142	-	-	-	-	1,000	-	-	21	1,000	1,021	(1,0
BDO Contract Expenses	1011143	-	-	-	-	-	-	-	-	-	-	
DO Contract Expenses						4 000						7.7.0
250 Gorilladi Experioco		-	-	-	-	1,000	-	-	21	1,000	1,021	(1,0
DO Contract Expenses		-	-	-	- 17	1,000	-	-	21	1,000	1,021	(1,0



#### BACWA EXECUTIVE BOARD AUTHORIZATION REQUEST

AGENDA NO.: 3 MEETING DATE : August 20, 2021

TITLE: 2<sup>nd</sup> Watershed Permit FY22 funding commitment - first installment of \$1,000,000

 $\square$  RECEIPT  $\square$  DISCUSSION  $\square$  RESOLUTION  $\boxtimes$  APPROVAL

#### RECOMMENDED ACTION

Authorize first installment of payment in the amount of \$1,000,000 to San Francisco Estuary Institute (SFEI) in order to comply with the provisions of the 2<sup>nd</sup> Watershed Permit for FY22, to be paid from the BACWA fund.

#### **SUMMARY**

The Watershed Permit for Nutrients from Municipal Wastewater Dischargers to San Francisco Bay, NPDES Permit No. CA 0038873 adopted May 8, 2019, requires the commitment of \$2,200,000 per year from POTW Dischargers as a collective effort to fund needed scientific studies as part of the implementation of the Regional Water Quality Control Board's Nutrient Management Strategy. The commitment is on a fiscal year basis and began July 1, 2019. BACWA's role in meeting this commitment is to collect the needed funds from its membership and provide those funds for the undertaking of the scientific studies. The identification of the studies to be undertaken is through a stakeholder governance Steering Committee on which BACWA holds two seats. Several studies are ongoing as a result of approvals of programs and projects by the Steering Committee.

This authorization of payment in the amount of \$1,000,000 to SFEI will partially meet the obligation for the third year of the Discharger's annual obligation under the five-year Watershed Permit per the above schedule. The purpose of delivering the payment in two installments is to ensure continuity in the Science Program in FY22. The first installment draws on BACWA's reserves. The second installment of \$1,200,000 will be brought to the Executive Board for approval after the FY22 nutrient surcharge revenues are received from member agencies.

#### FISCAL IMPACT

This and other payments to fund the scientific studies are collected from the BACWA membership through a Nutrient Surcharge that is included on the annual dues invoices to the BACWA members, as well as a drawdown of BACWA reserves, as authorized by BACWA's Executive Board. As BACWA currently has well over \$1,000,000 in excess reserves in its BACWA fund, that fund will be used for this purpose for this payment. This payment was included in BACWA's FY22 Budget, approved on April 16, 2021.

#### **ALTERNATIVES**

- 1. Do not fund the Commitment. This alternative is not recommended since the payment is a regulatory requirement. BACWA members who do not participate in the payment of the Nutrient Surcharge will have individual permits issued by the Water Board.
- 2. Wait until later in the fiscal year and pay the entirety of BACWA's obligation to SFEI. This alternative is not recommended since SFEI may not have the reserves to support the nutrient science program continuously until BACWA collects the FY21 Nutrient Surcharge from its members.

Approved:	Date: 8/20/21
Amit Mutsuddy, Chair	
BACWA Executive Board	

## PRELIMINARY AGENDA BACWA Nutrient Strategy Team Meetings August 25, 2021, 12-2pm

- 1. Introductions
- 2. Presentation HDR data analysis
- 3. Discussion of load cap calculation
  - a) Preferred approach for subembayment groupings1
  - b) Load cap compliance calculations
  - c) Revisit baseline/cap calculations
- 4. Review consensus positions and discuss next steps
- 5. Status update on trading evaluation
- 6. Adjourn

Planning Subcommittee Meeting No. 59
July 19, 2021
1:00 pm – 4:00 pm
Teleconference
Chair: lan Wren
Meeting Notes

Attendees: Tom Mumley, Dave Senn, Eric Dunlavey, Lisa Hunt, Ian Wren, Robert Schlipf, Lorien Fono, Derek Roberts, Kevin Lunde.

Agenda Modifications
 None

#### 2. Review Outstanding Action items

- Water Board to develop outline of science needs to support a Standards Action by July
   19 Now expected by Fall 2021. This will outline the definite needs to support regulatory decisions. Tom will work with R2 Staff to determine scope and level of effort.
- Group to review Google Doc memo on science needs provided by lan by July 19 Now expected Fall 2021, see above.
- Members to collaborate on development of NMS status document/fact sheet that pulls together planning, permitting, and science – Ongoing. This will include updating the NMS website. Dave is working on summaries of recent deliverables, as well as a "State of the Science" document. Tom suggested that we target early 2022 to develop status document.
- SFEI to develop list of SEP projects Completed. Shared three project descriptions with RMP TRC and presented to the Steering Committee. This list will be updated annually at a minimum, but projects can be added in the interim as needed.

#### 3. Program update

<u>Recent updates-</u> Since mid-June, detailed planning for FY22 has been underway with staff time allocations. Pilot field work has commenced in LSB salt ponds and sloughs, being run by two CSMA interns. Bay and Delta modeling work is ongoing. Continued mooring and mapping fieldworks and biogeochemical field studies are ongoing. Technical reports from last year's work are forthcoming.

<u>Staffing</u> – The managers are engaged in succession planning to replace junior scientists that are moving on to grad school. They are planning to hire another environmental analyst position and have just completed interviews. This position would focus on field work. Another environmental analyst/scientist position will be open later this year.

<u>Science priorities to inform Permts 2 and 3-</u>Report-out is planned for the September meeting. Additionally, a 3-pg summary of recent work is being developed for BACWA. The discussions about science needs will continue into the Fall, along with the Water Board's

plans for a document to outline what is needed for a Standards action. We need to have some certainty about level of effort required for the near and long term to ensure that the correct level of staffing is retained. The goal is to have a general agreement by early 2022 about what we need to do from a science and permitting standpoint. Water Board staff will meet with Terry Fleming to better understand EPA's expectations on what would be included in a nutrient standards action. At the September PSC meeting we will aim to have a memo on science needs to discuss. As an aside, it's possible that some funding will become available at the Federal level.

#### Budget update

End of FY21, a little more funding for most tasks is remaining that was originally planned. The accounting department is working on a more precise estimate of reserves.

#### 4. Priority Updates

<u>NMS Calendar Review</u> – The next Steering Committee meeting is September 10. The next PSC meeting will be canceled or moved later to accommodate vacations.

#### 5. Other Updates

<u>Model Advisory Group process</u> – An incremental approach to the modeling advisory group is proposed, starting with the development of planning and charge questions. Dave asked whether the source apportionment work should be brought into the review. The goal would be to reconvene the group on an ongoing basis to take advantage of previous engagement and history by this group.

The charge for the model advisors would be.

- Independent review
- Recommendations for model development
- Potential recommendation for refinements to science/management questions

#### Timeline:

- Pre-engagement planning though Fall 2021
- First workshop (late Nov)
  - Science and management questions
  - o Role of modeling
  - Model development efforts to tdate
  - o Input on priorities
- Mid-year check-in (e.g. March 2022) focus on:
  - Response to peer review feedback
  - Modeling approach for source apportionment
  - Modeling approach and interpretations of science questions
- Subsequent meetings could occur at 6-12 month intervals, alternating workshops and check-ins in the following general focus areas:
  - Model applications including source apportionment scenario results and science
  - Model uncertainty evaluation approach and results

<u>Estuary Blueprint</u> – Ian and Lorien met with Liz Juvera to confirm nutrient actions in Estuary Blueprint.

<u>Biosolids use</u> - Region 2 is looking at its tools for regulating biosolids, and whether to expand the reporting requirements of the State General Order or deliver a Region 2 General Order. The focus will be on the fate of land application sites under climate change. Not looking at biosolids through nature-based solutions, but general land application practices.

#### 6. Action items:

- Water Board to develop outline of science needs to support a Standards Action by late Fall 2021. September meeting will focus on discussion of memo.
- Water Board to reach out to EPA to discuss their expectations on permitting and standards action.
- Members to collaborate on development of NMS status document/fact sheet that pulls together planning, permitting, and science – Ongoing, aiming for early 2022.

#### Parking Lot of Identified PS Future Agenda Items

- a. Modeling
- b. Outreach to resource agencies re: DO objectives
- c. Brainstorming on future priorities for the PS (ALL)
- d. EPA nutrient criteria discussion
- e. Discuss concept of holding an annual forum on nutrients
- f. Finish



#### **PFAS Fact Sheet**

#### San Francisco Bay Region Phase I Study Results

Per- and polyfluoroalkyl substances (PFAS) are a large group of human-made compounds that are very resistant to heat, water, and oil. Common PFAS-containing products are non-stick cookware, cardboard/paper food packaging, water-resistant clothing, carpets, personal care products, and fire-fighting foam. All PFAS are persistent in the environment, can accumulate within the human body, and have demonstrated toxicity at relatively low concentrations.

Publicly owned treatment works (POTWs) are receivers of PFAS from residential and industrial customers in their sewershed. PFAS in influent are transformed to other PFAS species, but are not destroyed during treatment. PFAS received in POTW influent ultimately partition into effluent or biosolids depending on the individual compound's chemical characteristics.

#### **KEY POINTS**

- PFAS are ubiquitous in numerous everyday products and in the environment
- The State Water Board is investigating the sources that could impact drinking water supplies
- We expect to measure low levels of PFAS in wastewater and from landfills as long as we continue to utilize these chemicals in common products

#### Region 2 PFAS Study - Phase I

In 2019, the State Water Board developed a phased investigation action plan requiring testing of drinking water systems and site investigations at high-risk locations for PFAS<sup>i</sup>. Investigative orders were issued as follows:

- Mar/Apr 2019 Landfills and airports and adjacent public water systems
- Oct 2019 Industrial Chrome-platers
- July 2020 POTWs
- March 2021 Refineries & bulk terminals

The July 2020 State Water Board Investigative Order for POTWs is not applicable to Water Board Region 2 (San Francisco Bay Area) agencies. Instead, the Bay Area Clean Water Agencies (BACWA) worked with Water Board staff and obtained approval to fund and conduct a regional study through the Regional Monitoring Program at the San Francisco Estuary Institute (SFEI)<sup>ii</sup>. SFEI is conducting this study in two phases:

• In Phase 1, fourteen representative facilities collected influent, effluent, and biosolids samples in Fall of 2020. SFEI is currently continuing to analyze the data and will issue a technical memorandum in September 2021.



 Phase 2 will be conducted in Fall 2021 and will be designed based on recommendations from Phase 1 technical memorandum.

The facilities participating in Phase 1 were selected based on their size, location, level of industry in their service area, treatment technology, and whether they had participated in previous SFEI PFAS studies, so that trends in individual PFAS compounds could be tracked over time. While the Water Board's Investigative Orders required 31 individual PFAS analytes to be measured, the SFEI study is looking at 40 individual analytes, as well as performing a total organic precursor (TOP) analysis on influent and biosolid samples. The TOP analysis involves oxidizing the sample to convert PFAS to their terminal transformation products, then measuring those products. The advantage of the TOP analysis is that it gives a better estimate of the total PFAS in a sample, and not just the individual analytes that are being targeted by a specific analytical method.

#### Phase I Results

In the Phase I data, total PFAS levels were generally comparable across all agencies treating municipal wastewater, although the levels of individual compounds differed. This result confirms that using a representative selection of POTWs is an appropriate strategy for this

investigation.

In recent years new PFAS compounds, such as GenX and ADONA, have been introduced to replace other compounds, such as perfluorooctane sulfonic acid (PFOS) and perfluorooctanoic acid (PFOA), that have been phased out in the United States. Some of these shorter chain replacement chemicals have been detected and others have not.

#### **KEY POINTS**

- Levels detected in wastewater effluent and biosolids from Bay Area agencies are lower than in other household products
- We are supporting research to understand if even these very, very low levels in land-applied biosolids could impact plants
- Maximum concentrations of individual PFAS in effluent are well below DDW drinking water response levels
- We can reduce PFAS in the environment by utilizing products that are PFAS-free

The median sum of the analytes as well as the results of the TOP analysis across all participating agencies are presented in Figures 1 and 2 below. There is a significant presence of non-targeted PFAS precursors in influent and biosolids. As expected based on data collected in other regions, the sum of effluent PFAS concentrations are higher than influent concentrations. This is not because POTWs are adding, making, or concentrating PFAS, but because of the transformation of precursors during biological treatment. These results highlight the need to consider PFAS as a class rather than as a sum of individual compounds, since there are more PFAS than are being measured by individual analytical methods, and the specific compounds are changing over time as industries shift to different PFAS mixtures.



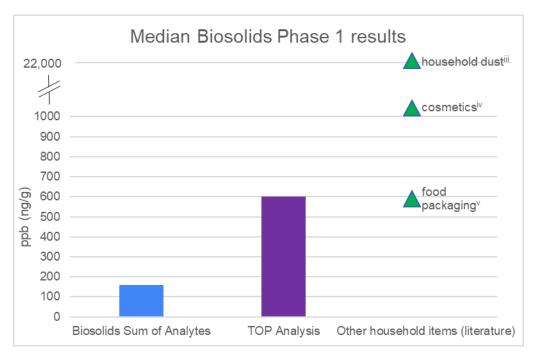


Figure 1: Median biosolids concentrations (ng/g) as measured as the sum of individual analytes, as well as total organic precursors (TOP) shown with typical concentrations found in other sources.

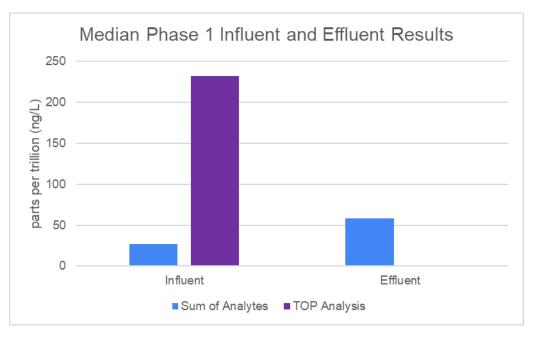


Figure 2: Median influent and effluent concentrations (ng/l) or parts per trillion as measured as the sum of individual analytes, as well as total organic precursors (TOP), which was only performed on influent samples



#### What does it mean?

#### Levels of PFAS in Biosolids

Biosolids concentrations, while detectable, are lower than concentrations in common consumer products and in household dust. Levels in some of these other matrices are listed below, although a true apples-to-apples comparison isn't possible since different studies look at different individual PFAS analytes.

- Median sum of analytes in biosolids = 178 ng/g
- Median TOP analysis in biosolids = 594 ng/g
- Average sum of analytes in household dust = 22,000 ng/g<sup>iii</sup>
- Median sum of analytes in cosmetics = 1,050 ng/g<sup>iv</sup>
- Median sum of analytes in takeout food packaging > 580 ng/ $g^{v}$

The Bay Area Biosolids Coalition (BABC), a project of Special Benefit of BACWA, is currently sponsoring research through UC Davis to investigate plant uptake rates of PFAS from fields amended with biosolids. This study will add to the existing body of research investigating if there is a health concern related to these levels of PFAS in biosolids. This study is unique in that it will include fields that are amended with food waste compost in addition to control fields that have not received any amendment.

#### Levels of PFOA, PFOS, and PFBS in Effluent

Most PFAS compound do not have a regulatory threshold. PFOS and PFOA are two types of PFAS that are no longer manufactured in the US although they still are measured in the environment, and have been found in the blood of nearly all people tested in several national surveys. The State Water Board's Division of Drinking Water (DDW) has set notification and response levels for PFOA, PFOS, and perfluorobutane sulfonic acid (PFBS). A response level is the level at which DDW recommends removal of a drinking water source from service. Although no major Bay Area POTW's effluent contributes to a drinking water supply, the median maximum levels of these compounds were compared to the drinking water response levels to provide context (Table 1). Maximum levels in effluent are below drinking water response levels.



Analyte Abbrev.	Level (ppt or		Max Observed in Effluent (ng/L)
PFOS	40	5.6	9.7
PFOA	10	6.3	9.1
PFBS	5,000	4.1	4.8

Table 1. Bay Area POTW concentrations compared to drinking water response levels.

#### Phase II and other next steps

BACWA and its members are continuing to work with SFEI and the Water Board to make recommendations on the best use of resources for Phase 2 of the study. BACWA and its members are particularly interested in developing actionable data that will inform future source control or other management efforts. To this end, analysis may focus on the fate and transport within treatment processes or work to identify specific sources within sewersheds.

#### References

https://www.waterboards.ca.gov/board\_decisions/adopted\_orders/water\_quality/2020/wqo2 020 0015 dwq.pdf

https://bacwa.org/wp-content/uploads/2020/12/SFEI-Final-PFAS-SAP-Phase-1-2020-11-23.pdf

<sup>&</sup>lt;sup>i</sup> SWRCB Investigative Order for POTWs:

ii Region 2 PFAS Study Phase 1 Sampling Plan:

Hall, S. et al., 2020, Per- and Polyfluoroalkyl Substances in Dust Collected from Residential Homes and Fire Stations in North America, *Ecotoxicology and Public Health;* Available at <a href="https://pubs.acs.org/doi/pdf/10.1021/acs.est.0c04869">https://pubs.acs.org/doi/pdf/10.1021/acs.est.0c04869</a>

Whitehead et al., 2021, Fluorinated Compounds in North American Cosmetics, *Ecotoxicology* and *Public Health;* Available at: <a href="https://pubs.acs.org/doi/10.1021/acs.estlett.1c00240?ref=pdf">https://pubs.acs.org/doi/10.1021/acs.estlett.1c00240?ref=pdf</a> Strakova et al., 2021Throwaway Packaging, Forever ChemicalsEuropean wide survey of PFAS in disposable food packaging and tableware; Available at <a href="https://www.env-health.org/wp-content/uploads/2021/05/FINAL">https://www.env-health.org/wp-content/uploads/2021/05/FINAL</a> pfas fcm study web.pdf





#### San Francisco Bay Regional Water Quality Control Board

August 2, 2021

**To:** Municipal Wastewater Dischargers (see Attachment A)

Subject: Water Code Section 13383 Technical Report Order -

Requirement to Complete and Submit Climate Change Questionnaire

Pursuant to Water Code section 13383, this letter requires your agency to complete and submit the attached climate change questionnaire by **September 1, 2021**.

#### **Background**

On April 14, 2021, we sent all municipal wastewater dischargers in the region a questionnaire to obtain information about how they will ensure their facility operations are not disrupted by existing and future climate conditions. We requested responses by July 1, 2021. However, we have not received a response from your agency.

Climate change is shifting precipitation and temperature patterns, exacerbating extreme weather events, and causing sea level rise and groundwater rise. These conditions have significant implications for wastewater collection, treatment, and discharge operations. Your response to the questionnaire is vital to informing our efforts to ensure that effective climate change planning is underway throughout the region.

#### **Authority**

We require this information under Water Code section 13383 and your NPDES permit. Water Code section 13383(a) authorizes the Regional Water Board to establish reporting and recordkeeping requirements as authorized by Water Code sections 13160, 13376, or 13377, for any person who discharges to navigable waters or owns or operates a publicly owned treatment works or other treatment works treating domestic sewage. Water Code section 13383(b) further authorizes the Regional Water Board to require "any person subject to this section" to provide reasonably required information. Your NPDES permit (Attachment D, Provision V.A) implements 40 Code of Federal Regulations part 122.41(h) and requires your agency to furnish any information the Regional Water Board requests to determine permit compliance or whether cause exists to modify the permit.

JIM McGrath, CHAIR | MICHAEL MONTGOMERY, EXECUTIVE OFFICER

Your agency's response to the climate change questionnaire is needed to prevent disruptions of facility operations by existing and future climate conditions. This information is also necessary to determine whether your agency's contingency plan, spill prevention plan, operation and maintenance manual, and wastewater facilities status report are up-to-date as required by your NPDES permit (Attachment G, sections I.C and I.D) and to inform permit reissuance.

Failure to comply with the requirement in this letter could subject your agency to administrative civil liability of up to \$10,000 per day of violation pursuant to Water Code section 13385.

Any person aggrieved by this action may file a petition with the State Water Resources Control Board in accordance with Water Code section 13320 and California Code of Regulations, title 23, section 2050. The State Water Resources Control Board must receive the petition within 30 days of the date of this letter. Copies of the law and regulations that apply to water quality petitions may be found at <a href="http://www.waterboards.ca.gov/public\_notices/petitions/water\_quality">http://www.waterboards.ca.gov/public\_notices/petitions/water\_quality</a>. Any extension in the above deadline must be confirmed in writing by Regional Water Board staff.

If you have any questions regarding this letter, please contact James Parrish at james.parrish@waterboards.ca.gov.

Sincerely,

Digitally signed by Michael

Montgomery

Date: 2021.07.29 13:17:50

-07'00'

Michael Montgomery Executive Officer

Attachments:

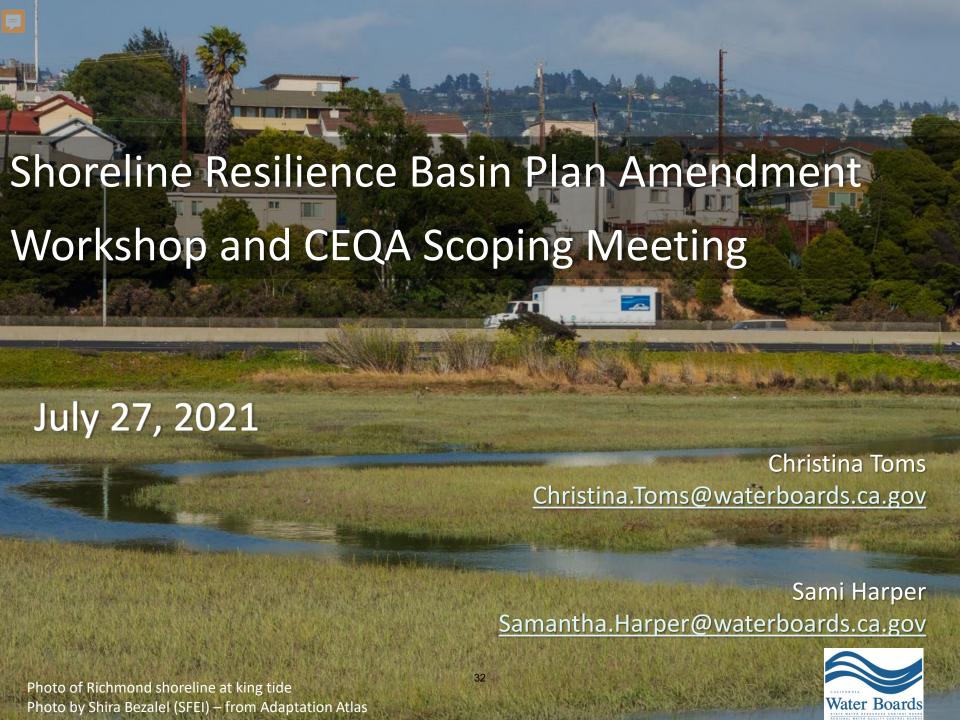
A. Address List

B. Climate Change Questionnaire



## Phone Audio Instructions

- Locate your participant ID
- On your phone, dial "# [Participant ID] #"
- Your phone number will be merged with your name
- Mute your computer speaker
- \*6 Toggle mute/unmute
- \*9 Raise Hand
- Tech Support: Guy Gutterman (guy.gutterman@waterboards.ca.gov)





## Meeting Logistics

- The meeting is being recorded
- Please stay muted until prompted
- Sign in using the link provided in the chat
- Type your questions or comments in the chat anytime



## Purpose of Meeting

- Hear your comments on the scope of environmental analysis
- Do you foresee any significant adverse environmental impacts from this project?
- Your comments are important, please provide them:
  - Verbally or via chat in today's meeting
  - In writing by August 13, 2021 to Samantha.Harper@waterboards.ca.gov

## Agenda

## Workshop

- Present the Project
- Q&A on Project Description

### **CEQA Scoping**

- Summary of CEQA Process
- Types of Environmental Impacts to be Considered
- Comments on Environmental Impacts to Consider



## **Project Description**

- Chapter 1: Introduction
  - Introduce the challenge of climate change
- Chapter 4: Implementation Plans
  - Clarify designation of beneficial uses of wetlands
  - Clarify Wetland Dredge and Fill Policy
  - Introduce a new section: Climate Change and Aquatic Habitat Protection, Management, and Restoration
  - Describe preferred strategies for climate change adaptation along the shoreline



# Chapter 1: Introduction

- Climate change will impact water quality, water quantity, and beneficial uses
- Climate change adaptation must be planned within a long-term, landscape-scale, crossjurisdictional framework



# Climate Change Impacts

- Higher temperatures
- Rising sea and nearshore groundwater levels
- Changes in the timing, frequency, intensity, and duration of precipitation and runoff
- More frequent and severe storm surges, floods, and droughts
- Drowning and downshifting of wetlands
- Increased risk of catastrophic wildfires



### Chapter 4: Implementation Plans

- Proposed revisions:
  - Update references for how to identify beneficial uses of wetlands
  - Clarify application of the California Wetlands Conservation
     Policy to projects that impact coastal waters
  - New section: Climate Change and Aquatic Habitat Protection,
     Management, and Restoration
- Coastal waters: Includes shoreline, estuarine, bayland, and nearshore Waters of the State (including wetlands) around San Francisco Estuary and along the Pacific coast



### Identifying Beneficial Uses of Wetlands

- Proposed revision: Update references for beneficial uses
  - Bay Area Aquatic Resource Inventory (BAARI) (SFEI)
  - National Wetlands Inventory (NWI) (USFWS)
  - Baylands Ecosystem Habitat Goals (Habitat Goals) reports
  - Scientific literature regarding the region's different wetland types
- Purpose and Need: Incorporate up-to-date science to support beneficial uses of the region's coastal waters



### Wetland Dredge & Fill Policy

- Proposed revision: Clarify application of California Wetlands Conservation Policy to ensure that implementation of permitted projects will result in no long-term, cumulative net loss of wetland acreage and function
- Purpose and need:
  - Improve certainty in project planning and permitting
  - Include climate change in considerations about the longterm impacts and benefits of projects that dredge and/or fill Waters of the State (including wetlands)



# Climate Change and Aquatic Habitat Protection, Management, and Restoration

- Proposed new section in Chapter 4 to clarify preferred approaches for projects in coastal waters:
  - Are developed within a long-term, landscape-scale (cross-jurisdictional) framework
  - Utilize natural and/or nature-based design approaches where practicable
  - Are based on the most recent science describing climate change, its potential impacts in the region, and the potential benefits of natural and nature-based approaches to climate change adaptation



# Climate Change and Aquatic Habitat Protection, Management, and Restoration (cont.)

- Purpose and Need:
  - Support long-term, landscape-scale health, diversity, and resilience of the region's coastal waters
  - Improve certainty in planning and permitting of naturebased climate change adaptation solutions, to support beneficial uses now and in future
  - Help Water Board staff identify the Least Environmentally Damaging Practicable Alternative during alternatives analysis



### Preferred Natural and Nature-based Approaches for Projects in Coastal Waters

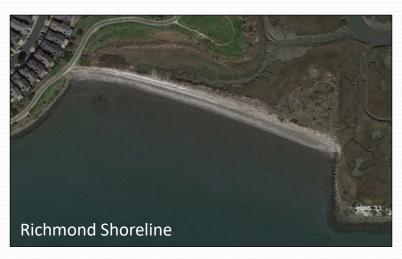
- Estuarine wetland protection, enhancement, and restoration
- Living shorelines (e.g. oyster reefs, eelgrass beds)
- Beaches
- Ecotone levees, including systems with a treated wastewater component ("horizontal levees")
- Estuary watershed reconnection through natural and/or artificial means (e.g. strategic sediment placement)
- Migration space preparation



# Other Preferred Strategies for Projects in Coastal Waters

- Combinations of naturebased approaches
  - E.g., beaches in front of wetlands
- Combinations of traditional and naturebased approaches
  - E.g., pocket beaches held in place by artificial headlands (groins)

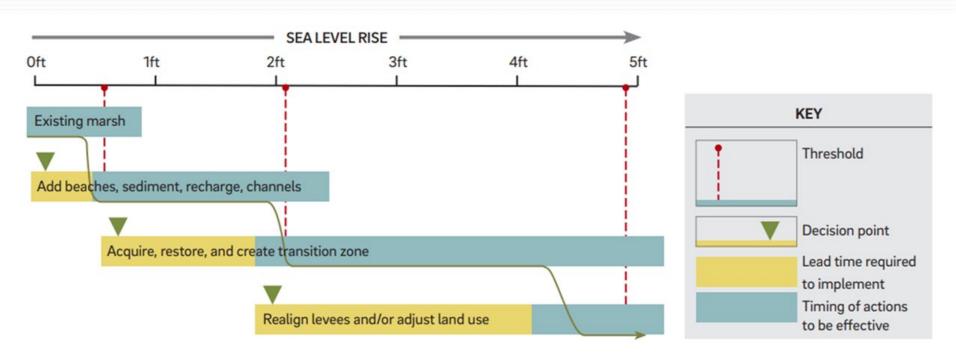






### Long-term Frameworks for Decision-Making

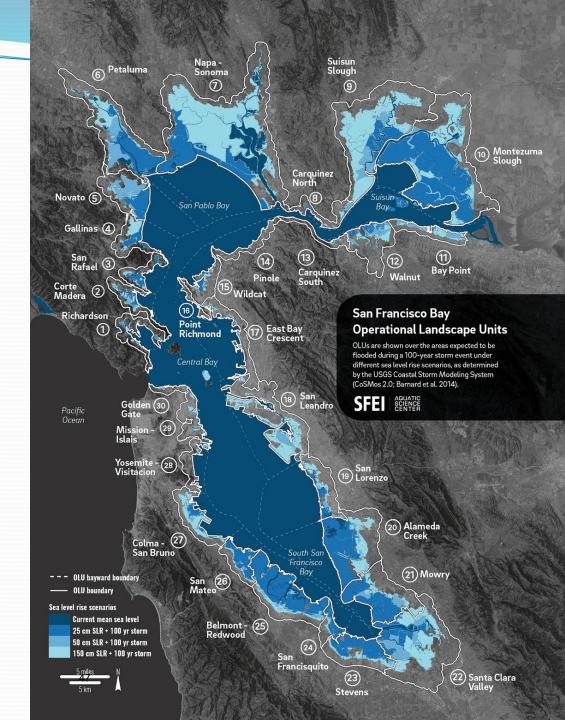
Phased adaptation pathways



Conceptual phasing of measures triggered by sea-level rise, rather than a chronological timeline (adapted from Goals Project 2015).

## Landscape-Scale Frameworks for Decision-Making

 Operational Landscape Units, or a similar crossjurisdictional unit





# Additional Potential Considerations for Project Planning and Permitting in Coastal Waters

- What are the drivers of beneficial uses at the site- and landscape-scales, and how are they likely to be affected by climate change?
- What are the near- and long-term impacts of no action?
- Do the proposed activities support landscapes consistent with natural processes at the site- and landscape-scales?
- How should we consider wetland type conversion in dynamic landscapes impacted by climate change?





## **Environmental Review Process**

- Project description:
  - Amendment of our Basin Plan to (1) introduce climate change and its impacts on our region and (2) clarify our planning and permitting processes for projects in coastal waters, including projects that result in dredging and fill in wetlands
- Water Board's Basin Planning Process is a "Certified Regulatory Program"
  - Exempt from EIR, Neg. Declaration, or Initial Study
  - Instead, we prepare an Environmental Checklist



## **CEQA** Requirements

- Identify potential adverse environmental impacts of actions taken in response to the project
- Discuss alternatives to the project
- Identify mitigation measures to reduce severity of potential impacts
- Provide full public disclosure of documents and decision-making process



### Effects to Consider Under CEQA

### Will Consider

- Direct and indirect physical changes in the environment
- Such as impacts from:
  - excavation & grading
  - minor construction
  - waste handling & disposal
- Short-term and long-term impacts

### Will NOT Consider

- Speculative changes
- Changes that would occur regardless of the BPA
- Changes with effects already considered



# **Environmental Checklist Topics**

- Aesthetics
- Agricultural resources
- Air quality
- Biological resources
- Cultural resources
- Geology/soils
- Greenhouse gas emissions
- Hazards & hazardous materials
- Water quality & hydrology

- Land use/planning
- Mineral resources
- Noise
- Population/housing
- Public services
- Recreation
- Transportation/traffic
- Tribal cultural resources
- Utilities/service delivery systems

### 厚

# Project Schedule

<b>Project Component</b>	Anticipated Deadline
CEQA Scoping Meeting	Today!
<b>CEQA Scoping Comments Due</b>	August 13, 2021
Draft Staff Report, Environmental Checklist	September 2021
Public Review and Comments	October/November 2021
Public Workshop and Testimony Hearing	October 13, 2021
Public Comments on Staff Report and Checklist Due	November 2021
Water Board Hearing	February 2022



### Comments? Questions?

Thank you for participating in the meeting!

Send questions/comments to:

Samantha.Harper@waterboards.ca.gov



## **CEQA** Analysis

- No Action
  - Not adding chlorine objectives based on best available scientific information.
  - Not allowing for reduction in excess chemical discharges into the bay.
- Proposed Basin Plan Amendment project objectives met
  - New water quality objectives based on science
  - Reasonable effluent limits to ensure WQOs are met and no do not result in unreasonable costs relative to their environmental benefits



DRAFT August 20, 2021

Robert Schlipf San Francisco Bay Regional Water Quality Control Board 1515 Clay Street, Suite 1400 Oakland, CA 94612

VIA EMAIL: Robert.Schlipf@waterboards.ca.gov

**Subject: Comments on Tentative Order Amending Waste Discharge Requirements to** Update Total Residual Chlorine and Oil & Grease Requirements for Municipal

**Wastewater Dischargers** 

Dear Robert Schlipf:

The Bay Area Clean Water Agencies (BACWA) appreciate the opportunity to provide comments on the San Francisco Bay Regional Water Quality Control Board's (Regional Water Board's) Tentative Order amending Waste Discharge Requirements to update Total Residual Chlorine and Oil & Grease requirements for municipal wastewater dischargers.

BACWA is a joint powers agency whose members own and operate publicly-owned treatment works and sanitary sewer systems that collectively provide sanitary services to over 7.1 million people in the nine-county San Francisco Bay Area. BACWA members are public agencies, governed by elected officials and managed by professionals who protect the environment and public health. BACWA closely collaborated with Regional Water Board staff during development of the Basin Plan Amendment (Resolution R2-2020-0031) now being implemented by the Tentative Order, and strongly supports its adoption.

The proposed permit amendment will reduce the need for BACWA members to dose effluent with dechlorinating agents such as sodium bisulfite prior to discharging to receiving waters, providing an environmental benefit. Historically, BACWA members have used an overdosing strategy to guarantee compliance with effluent limitations for chlorine, which were expressed as an instantaneous maximum. The previous limitations did not allow consideration of time averaging or dilution in the receiving water. The new proposed WQBELs allow consideration of both factors, allowing BACWA members to save up to \$1.2M per year on sodium bisulfite purchases. The change will also allow BACWA members to reduce loading of sodium bisulfite into San Francisco Bay and its tributaries, benefiting water quality and the environment.

BACWA has three minor comments on the Fact Sheet of the Tentative Order, as outlined below:

1. Modify the Facility Contact description for Sewerage Agency of Southern Marin within Table F-1, as indicated below:

[Page F-2]

**Table F-1. Facility Information** 

Discharger	Facility Contact	Mailing Address	Effluent Description	Facility Design Flow (MGD)
Sewerage Agency of Southern Marin	Mark Grushayev, General- Manager Wastewater Treatment Plant Director, (415) 384-4825	26 Corte Madera Avenue Mill Valley, CA 94941	Secondary	3.6

2. Correct the dilution factors for Dublin San Ramon Services District and the City of Livermore listed in Table F-4, as shown below. The dilution factors should be 74 for all agencies using the East Bay Dischargers Authority deep water outfall, as noted on page F-9 of the Tentative Order. This group of dischargers shares the same outfall, so dilution conditions are identical among them.

[Pages F-6 and F-7]

Table F-4. Water Quality Based Effluent Limits for Total Residual Chlorine

Discharger	Receiving Water Type	Water Quality Objective (mg/L)	Dilution Factor	Effluent Limit (one-hour average, mg/L)
East Bay Dischargers Authority	Marine	0.013	74	0.98
Dublin San Ramon Services District	Marine	0.013	<del>78</del> <u>74</u>	0.98
Livermore, City of	Marine	0.013	<del>78</del> <u>74</u>	0.98

3. Correct the dilution factors and chlorine effluent limitations for the City of Millbrae in Table 2 and Table F-4, as shown below. The dilution factors and chlorine effluent limitations for the City of Millbrae should be the same as those listed for the other North Bayside System Unit dischargers, as noted on pages F-8 and F-9 of the Tentative Order. This group of dischargers shares the same outfall, so dilution conditions are identical among them.

[Page 3]

**Table 2. Total Residual Chlorine Effluent Limits** 

Discharger	One-hour Average (mg/L)
Burlingame, City of, and North Bayside System Unit	0.48
Millbrae, City of, and North Bayside System Unit	<del>0.47</del> <u>0.48</u>
San Francisco, City and County of (San Francisco International Airport), and North Bayside System Unit	0.48
South San Francisco and San Bruno, cities of, and North Bayside System Unit	0.48

[Pages F-6 to F-8]

Table F-4. Water Quality Based Effluent Limits for Total Residual Chlorine

Discharger	Receiving Water Type	Water Quality Objective (mg/L)	Dilution Factor	Effluent Limit (one-hour average, mg/L)
Burlingame, City of, and North Bayside System Unit	Marine	0.013	36	0.48
Millbrae, City of, and North Bayside System Unit	Marine	0.013	<del>35</del> <u>36</u>	<del>0.47</del> <u>0.48</u>
San Francisco, City and County of (San Francisco International Airport), and North Bayside System Unit	Marine	0.013	36	0.48
South San Francisco and San Bruno, Cities of, and North Bayside System Unit	Marine	0.013	36	0.48

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

Respectfully Submitted,

BACWA Comments on the Tentative Order for Chlorine and Oil & Grease August 20, 2021 Page 4 of 4 **DRAFT** 

#### [Insert Signature]

Lorien Fono, Ph.D., P.E. Executive Director Bay Area Clean Water Agencies

cc: BACWA Executive Board



### Executive Board Special Meeting Agenda

SF Bay Regional Water Board /
BACWA Executive Board Joint Meeting
Tuesday, August 31, 2021, 2 – 4 PM
Zoom Meeting

### **ROLL CALL AND INTRODUCTIONS** – 2 PM

### **PUBLIC COMMENT** – 2:03 PM

#### **DISCUSSION/OTHER BUSINESS-** 2:05 PM

Topic	Goal	Time
1. Agency Updates	Roundtable from BACWA and Regulators about COVID-19 impacts, drought emergency impacts, and other important updates	
2. Nutrients	<ul> <li>Update on planning for 3<sup>rd</sup> Watershed Permit – load cap calculations and compliance</li> <li>Science needs to inform 3<sup>rd</sup> Watershed Permit – update on process</li> <li>Preview of HDR WEFTEC presentation</li> </ul>	2:15
3. PFAS Regional Study, Phase 2	<ul> <li>Objectives and draft sampling strategy for Phase 2</li> <li>Process and schedule</li> </ul>	2:40
3. Biosolids	<ul> <li>Potential modifications to permitting approach for land application and land disposal in Region 2</li> <li>Use of biosolids in Baylands</li> </ul>	2:55
4. CECs and Alternate Monitoring Requirements overhaul	<ul> <li>Discussion of elements to be included in proposed blanket permit amendment updating the 2016 Order</li> <li>Process and schedule</li> </ul>	3:15
5. Chlorine Residual Blanket Permit Amendment	Update on schedule	3:35
7. Climate Change	<ul> <li>Shoreline Resilience Basin Plan Amendment</li> <li>Processing of Questionnaire results</li> </ul>	3:40
8. Retreat Planning	• Logistics	3:50

#### **ADJOURNMENT**

From: Bellingham, Gina <gina.bellingham@ebmud.com>

Sent: Friday, August 13, 2021 12:59 PM
To: Jennifer Dyment < idyment@bacwa.org >
Subject: RE: Pardee \ September 2021

#### Jennifer,

I apologize for the delay in response, but some new COVID-19 requirements were just added in the last couple days. As event coordinator, I want to ensure you are aware of all of these, so I've summarized them below.

The following COVID-19 requirements are currently in place for ALL employees and visitors using Pardee Center facilities for retreats and lodging:

#### **Vaccinations**

Prior to or upon arrival to Pardee Center, ALL employees and visitors must provide proof of being fully vaccinated OR proof of a negative COVID test taken within the last 72-hours. The event coordinator will be responsible for ensuring this requirement is met and will notify me that everyone attending the event has met this requirement.

#### **Daily Self-Check Form**

All employees and visitors must complete the Daily Self-Check Form every day when visiting Pardee Center. Forms for visitors will be provided upon arrival. The event coordinator will be responsible for ensuring this requirement is met and will notify me that everyone attending the event has met this requirement.

#### **Maximum Occupancy**

In-person gatherings are limited to 20 people. Larger groups may be accommodated but require approval by the Manager of Water Supply Division.

The Manager of Water Supply has already approved a larger group meeting as we know you usually have 25 or so attendees

#### **Lodging Capacity**

Only one person per bedroom is allowed which limits overnight stays to 12 people.

#### **Face Coverings**

Indoors:

- Required regardless of vaccination status.
- Not required when alone indoors in your own personal space that is completely enclosed providing separation between you and others. (e.g., bedroom and bathroom)

Outdoors: Face coverings are **not required** outdoors if you are fully vaccinated. Face coverings are required if you are not fully vaccinated and within six feet of others.

#### Meals

Meals and drinks must be pre-packaged and must be consumed outdoors.

Please let me know if you have any other questions. Please also let me know the status of the event once you've spoken to you boss.

Thank you, Gina

#### **Gina Bellingham**

Administrative Assistant Water Supply Division Pardee Office: (209) 772-8247

Stockton Office: (209) 946-8004

EAST BAY
MUNICIPAL UTILITY DISTRICT
stewardship integrity respect teamwork



# Executive Board Meeting PRELIMINARY AGENDA Fri, Septermber 17, 2021 9:00 AM - 12:30 PM (PDT)

To attend the meeting via Zoom or submit a comment please request access.

<u>.</u>	Agenda Item		<u>Time</u>	<u>Pages</u>
ROLL	CALL, INTRODUCTIONS, AND TELECONFERENCE ETIQUETTE			
PUBL	IC COMMENT	Guidelines		
CONS	SIDERATION TO TAKE AGENDA ITEMS OUT OF ORDER			
CON	SENT CALENDAR			
00111	August 20, 2021 BACWA Executive Board meeting minutes			
	July 2021 Treasurers Report			
ΔΡΡΒΟ	VALS AND AUTHORIZATIONS			
7.11.10	Approval: SFEI Contract for Phase 2 PFAS Study			
POLICY	//STRATEGIC			
	<u>Discussion</u> : Nutrients			
	a. Regulatory			
	i. Trading legal review			
	ii. August 25 NST meeting debrief and discussion of next steps			
	iii. Review of draft Key Tenets			
	b. Technical Work			
	i. FY21 Science Program Overview			
	ii. FY22 Science Program and recent work products			
	c. Governance Structure			
	i. September 10, 2021 NMS Steering Committee notes			
	<u>Discussion:</u> Biosolids and climate change issues			
	BREAK (10min)			
	Discussion: AMR Admin Draft Update			
	<u>Discussion</u> : Biosolids regulation and collaboration on biosolids white paper			
	Discussion: AMR Admin Draft Schedule Update			
	Informational: Chlorine Residual Blanket Permit Amendment			
	<u>Discussion: PFAS Special Study Phase 2 update</u>			
OPER#	TIONAL			
	<u>Discussion:</u> FY23 Nutrient Surcharge Allocation			
	<u>Informational</u> : BACC Update			
	<u>Discussion:</u> Program for Pardee			
REPC	RTS			
17	Committee Reports			
18	Member highlights			
19	Executive Director Report			
20	Board Calendar and Action Items			
21	Regulatory Program Manager Report			
22	Other BACWA Representative Reports			
		Mary Lou Esparza, Yuyun Shang, Samantha		
	a. RMP Technical Committee	Engelage		
	b. RMP Steering Committee	Karin North; Amanda Roa; Eric Dunlavey		
	c. Summit Partners	Lorien Fono; Lori Schectel		
	d. ASC/SFEI	Lorien Fono; Eileen White		
	e. Nutrient Governance Steering Committee	Eric Dunlavey; Eileen White; Lori Schectel		
	e.i Nutrient Planning Subgroup	Eric Dunlavey		
	e.ii NMS Technical Workgroup	Eric Dunlavey		
	f. SWRCB Nutrient SAG	Lorien Fono		
	g. NACWA Taskforce on Dental Amalgam	Tim Potter		

h. BAIRWMP	Cheryl Munoz; Florence Wedington	
i. NACWA Emerging Contaminants	Karin North; Melody LaBella	
j. CASA State Legislative Committee	Lori Schectel	
k. CASA Regulatory Workgroup	Lorien Fono; Mary Cousins	
l. ReNUWIt	Jackie Zipkin; Karin North	
m. ReNUWIt One Water	Jackie Zipkin, Eric Hansen	
n. RMP Microplastics Liaison	Artem Dyachenko	
o. Bay Area Regional Reliability Project	Eileen White	
p. WateReuse Working Group	Cheryl Munoz	
q. San Francisco Estuary Partnership	Eileen White; Lorien Fono	
r. CPSC Policy Education Advisory Committee	Colleen Henry	
s. California Ocean Protection Council	Lorien Fono	
t. Countywide Water Reuse Master Plan	Karin North, Pedro Hernandez	
u. CHARG - Coastal Hazards Adaptation Resiliency Group	Jackie Zipkin	

u. CHARG - Coastal Hazards Adaptation Resiliency Group	Jackie Zipkin		
23 SUGGESTIONS FOR FUTURE AGENDA ITEMS			
NEXT MEETING			
The next meeting of the Board is scheduled for August 20, 2021			
•		•	-
ADJOURNMENT			

### DRAFT PROGRAM BACWA ANNUAL TECHNICAL SEMINAR

#### SPECIAL EXECUTIVE BOARD MEETING

Thursday October 28 and Friday October 29, 2021

Day	<u>Time</u>	<u>Theme</u>	<u>Topic</u>	<u>Desired Outcomes</u>
Thur	9:00 AM	Welcome and Introductions		
	9:05 AM	BACWA Operational	Financial	
			FY 21 Budget	Understanding of budget status
			5 Year Plan	Input on future level of reserves given anticipated cash flow
			-Assumptions for Future Dues/CBC/Nutrient Surcharges	Agree on dues increases, review nutrient surcharge calculations
			Meeting Planning	
			Annual Meeting planning	Seek input on structure of Annual Meeting
	10:30 AM		Break	
	10:45 AM	Regulatory topics	AIR Update (Sarah Deslauriers, Carollo)	Rule development and engagement with BAAQMD
			Topics for Friday - preview	
	12:00 PM		LUNCH BREAK	
	1:00 PM	Strategic Plan Reviw	Review and update of 2020 Strategic Plan	Review progress on objectives
				Update as strategies and objectives as necessary
	1:45 PM	Nutrients	3rd Watershed Permit Negotiations	
			Key Tenets document	discuss and update draft key tenets document
	4:00 PM		Adjorn	

<u>Day</u>	<u>Time</u>	<u>Theme</u>	<u>Topic</u>	<u>Desired Outcomes</u>
Wa	ter Board joins	3		
	9:00 AM	NMS Update	Update and Discussion	
			Discussion of Science needs to inform 3rd WSP	Discussion of science needs memo
				Discussion with Science manager of science timeline
	10:30 AM		Break	
	10:45 AM	2nd Watershed Permit	Update and Discussion	
			Status of NBS Study (Ian Wren, SFEI)	Understanding of status and resolution of identified issues

		Group Annual Report and Status of Recycled Water Report (Mike Falk, HDR)	<ul> <li>understanding of status and resolution of identified issues</li> <li>What is feasible for recycled water in the Region?</li> </ul>
12:00 PM		Lunch Break	
1:00 PM	3rd Watershed Permit	Update and Discussion	
		Discussion of proposed BACWA key tenets	Understanding of Water Board and BACWA positions on key issues
2:20 PM		Break	
2:30 PM	Regulatory Issues	Update and Discussion	
		CECs	Discuss AMR Update and permit amendment'
		PFAS	Update on Special Study Phase 2
		Climate change planning	Update on Shoreline resilence
		Biosolids	Regional Strategy
3:30 PM		<u>Adjorn</u>	

#### **Lorien Fono**

From: Richard G. Luthy < luthy@stanford.edu>
Sent: Monday, August 16, 2021 11:48 AM

To: Lorien Fono

Cc: Richard G. Luthy; Sasha Harris-Lovett; Kara Elizabeth Baker

**Subject:** BAOWN activities and support

Attachments: Bay Area One Water Network - Project summary 2021 - 2022.pdf

#### Dear Lorien:

Please see the following letter about continuing discussions on a Bay Area One Water Network (BAOWN) for 2021-22. This builds on our <u>successful gatherings and reports</u> on stormwater to augment water supplies and advancing water reuse in the Bay Area.

In the past several months we have been planning future efforts and we hope with support from you and others that we may continue to achieve the promise of more robust solutions to our water supply challenges. Pending support from Bay Area One Water Network partners, the attachment describes plans for the coming year to host additional workshops and publish reports on two new topics:

- 1) the opportunities and limits of water conservation in our region, and
- 2) the possible role of desalination in the Bay Area's future water supply portfolio.

We ask that you join with others to sustain this effort financially with a \$15k contribution. We received \$25k from the EPA to help facilitate the workshops for 2021-22.

The overarching goal for the BAOWN is to advance sustainable water supplies for the Bay Area and produce reports to help make sound decisions and help align the region. This information can be used to demonstrate our regional efforts in support of grants and eliminate the chance for duplication and disconnected efforts. The BAOWN supports diversification of local water supplies, technology sharing, and accelerating our efforts towards a regional strategy for Bay Area sustainable water supplies that is supported by everyone.

We hope BACWA can support this effort with a \$15k contribution. Please feel free to contact me or Sasha Harris-Lovett (<a href="mailto:sharrislovett@berkeley.edu">sharrislovett@berkeley.edu</a>) about the BAOWN, or Kara Baker (<a href="mailto:Kara.Baker@stanford.edu">Kara.Baker@stanford.edu</a>) on submitting your contribution.

Thank you and best wishes, Dick Luthy

Richard G. Luthy

Silas H. Palmer Professor, Department Civil and Environmental Engineering, and

Director, Engineering Research Center for Re-inventing the Nation's Urban Water Infrastructure [renuwit.org]

Street address: Room 191, Yang & Yamazaki Environment & Energy Building, 473 Via Ortega

Stanford University, Stanford, California 94305-4020

email: luthy@stanford.edu telephone: not in office during COVID

Research Group



#### Project Summary 2021 - 2022

#### **Previous Year Successes**

In 2019, the Bay Area One Water Network held two in-person workshops: one focused on stormwater capture and use, and the other on water recycling. The participants were thought-leaders, decision-makers and knowledgeable experts from diverse stakeholder groups. The workshops were designed to identify regional challenges and opportunities, to synergize existing efforts, and to strengthen working relationships among the participants. We published two reports that documented the discussions and conclusions from each of the workshops: "Stormwater Capture to Augment Water Supplies in the San Francisco Bay Area: Challenges, Opportunities, and Next Steps" and "Advancing Water Reuse in the San Francisco Bay Area: Integrating Water Reuse into A Regional Approach to Water Management". In 2020 during the COVID-19 pandemic, we pivoted to an online format and held free, publicly accessible webinars reporting out on the 2019 workshops and reports to broaden their reach among practitioners. We also held an online webinar about next steps for the Bay Area One Water Network, which provided foundational information on potential workshop opportunities that would be particularly relevant in the Bay Area going forward.

#### **Future Opportunities**

We are currently collaborating with the San Francisco Estuary Partnership to plan a roundtable discussion and associated report on nature-based solutions for shoreline resilience, water quality improvement, and habitat enhancement in the Bay Area.

Pending support from Bay Area One Water Network partners, we also hope to host additional workshops and publish reports on two new topics: 1.) the opportunities and limits of water conservation in our region, and 2.) the possible role of desalination in the Bay Area's future water supply portfolio.

#### **Opportunities and Limits of Conservation**

Conservation is touted by many stakeholders as one of the keys to stretching water supplies in the San Francisco Bay Area. Great strides in conservation have been made over the past few decades, and there are more opportunities for enhancing water use efficiency and reducing waste indoors, outdoors, and in the distribution system. Drawing together participants from water and wastewater agencies, environmental advocacy groups, urban planners, landscape architects, and regulatory agencies, this workshop would examine questions including, "How low can we go?" "What are the most attractive remaining approaches for conserving more water?" "At what point do the tradeoffs associated with conservation outweigh the benefits of using less water?" "How will conservation affect existing and planned water reuse or other infrastructure projects?" "How can demand-side water management be financed to produce the most equitable outcomes?" "How can public support for conservation be leveraged to produce meaningful water savings?"

#### Possible Role of Desalination

Over the past several decades discussion of investments in desalination have met with resistance in the Bay Area. Some of these concerns stemmed from a time when desalination was substantially more



energy intensive and expensive than it is today. Now that costs have fallen and California's electricity grid is decarbonizing it may be time to revisit the potential role of desalination in the region's future water supply portfolio. Building on the Bay Area One Water Network's academic connections with the National Alliance for Water Innovation (NAWI), a multi-year research effort headquartered at Lawrence Berkeley National Laboratory, this workshop would initiate a discussion of the latest developments in desalination technologies and their potential costs and benefits in relation to the Bay Area's water system. This workshop would bring together water supply agencies, regulators, environmental scientists, technologists and environmental advocacy groups to hash out the ways in which desalination may be part of the Bay Area's water supply portfolio. It would delineate the opportunities, drivers, and challenges associated with desalination in the Bay Area, and outline key research questions and next steps.

#### **About the Bay Area One Water Network**

The <u>Bay Area One Water Network</u> supports efforts to ensure safe and resilient water systems in the San Francisco Bay Area. We share information, build collaborative capacity, and highlight opportunities for increasing the sustainability of water supplies in the region.

Climate change poses major challenges to the Bay Area's water supplies. Less snowpack, more erratic precipitation, and rising seas expose the vulnerabilities of our current water infrastructure systems. The Bay Area One Water Network helps innovate solutions to these challenges by bringing together diverse regional stakeholders from water supply and wastewater agencies, stormwater groups, regulatory agencies, city and regional planning groups, businesses, universities, research organizations and environmental advocacy groups. Through focused workshop discussions and synthesis reports, we aim to provide decision-makers with the contextual information, tools, and research roadmaps that can support the development of 21st century water infrastructure.

#### **Partners**

The Bay Area One Water Network has been supported by a broad coalition of water and wastewater agencies, municipalities, the Berkeley Water Center at UC Berkeley, the Environmental Protection Agency, and the Engineering Research Center for Re-inventing the Nation's Urban Water Infrastructure (ReNUWIt).

Recycled Water Committee Meeting on: 07/20/2021

Executive Board Meeting Date: 08/20/2021 Committee Chairs: Stefanie Olson, Reena Thomas

#### **Committee Request for Board Action: none**

#### Detailed notes from meetings are posted online.

#### 27 attendees (all participating remotely) representing 11 member agencies

#### **Regional Recycled Water Evaluation Update**

HDR/Woodard & Curran has prepared about 1/3 of the complete drafts of individual plant reports, and continues to reach out to individual agencies with guestions.

As part of the Group Annual Report for the Nutrient Watershed Permit, HDR will ask agencies to provide monthly recycled water deliveries. This is essentially the same information as what is uploaded to Geotracker, but for a different time frame (Geotracker goes through December 2020; the Group Annual Report goes through September 2021). This approach will allow agencies to confirm data are correct.

#### **Bay Area Recycled Water Landscape Guide**

The Executive Director provided a brief overview of <u>Irrigating San Francisco Bay Area Landscapes with Recycled Water</u>, a 20-pg document that includes a list of <u>salt-tolerant plants</u> for the Bay Area. BACWA encourages recycled water producers to post on their websites and make it available to customers.

#### **Recycled Water Commercial Truck Fill Guide**

The group discussed the 2015 Recycled Water Commercial Truck Fill Guide and whether/how to update it. BACWA will kick off the update with the following approach: (1) Investigate whether the static map can easily be replaced with an online map. (2) Remove language specifying whether water can or cannot be used outside of agency service areas, noting instead that such use is allowable with agency-specific agreements (3) Provide pages from the 2015 version to individual agencies and request an update of agency-specific information.

There was also a related discussion about the reasons that barriers exist to greater use of commercial truck fill stations in the Bay Area. Redwood City only allows use outside of the City's service area if an agreement is in place with the water purveyor (e.g., if the use is approved by a nearby City). The group discussed that this is based mainly on liability and cross connection concerns, and to a lesser extent on concerns over competition. EBMUD further explained that collecting and transmitting information about permitted recycled water haulers to other Cities creates privacy concerns over personally identifiable information.

The group agreed to relay several questions to the State Water Board / DDW via Maggie Monahan (Regional Water Board) on the several issues related to agreements for cross-jurisdictional use of recycled water.

#### **Legislative and Funding Updates**

- WateReuse CA recently provided a <u>comment letter</u> regarding <u>proposed amendments</u> to the CA Plumbing Code. The letter supports requiring a licensed person to complete the design, opposes requiring recycled water systems have an operation and maintenance manual, and opposes language expanding the scope of "dual plumbed" to include an irrigation system connected to a dual plumbed building.
- WateReuse CA is working with state legislators regarding the Drought Package Bill. Legislators are still negotiating the drought bill and will introduce it sometime after they come back from summer recess and before the session ends in September.
- For BAIRWM Prop 1, the City of Calistoga has a fully executed funding agreement. The other funding
  agreements are still being worked on. The BAIRWMP Process and Planning Committee is working on how the
  group selects projects for funding, and has recommended regional criteria for the Coordinating Committee to
  consider for scoring projects in Round 2. The recommendations reflect the equity work ongoing in our region
  and project readiness.

**Next Meeting** – Tuesday, September 28, 2021, 10:30 am by Zoom (Moved to avoid conflict with WateReuse CA Annual Conference)

Laboratory committee meeting on: August 10, 2021 Executive Board Meeting Date: August 20, 2021

Committee Chair: Nicole Van Aken, Fairfield-Suisun Sewer District

#### Committee Request for Board Action: none

Regular meeting: 25 attendees (via teleconference only) representing 23 member agencies Joint meeting with Permits Committee: 55 attendees, including 2 guest speakers

#### **Tentative Order of Chlorine Blanket Permit Amendment**

The Regional Water Board has released a <u>Tentative Order</u> blanket permit amendment that will modify chlorine effluent limits and remove oil & grease monitoring requirements for BACWA members. Comments are due August 20<sup>th</sup>. The committee discussed whether any modifications are needed to the Tentative Order to accommodate changes to whole effluent toxicity testing, and determined that no changes need to be requested at this time. Laboratory staff should plan to dechlorinate samples prior to conducting toxicity testing (applicable only to agencies that plan to discharge residual chlorine after the permit amendment is effective).

#### **Training Opportunities (**<u>see flyer</u>)

- In July, the committee began the first in a series of monthly training sessions on the 2016 TNI Standard. The training sessions are being led by Diane Lawver of Quality Assurance Solutions, LLC. There were more than 60 participants at the first session, representing 22 BACWA member agencies and 12 CVCWA agencies. The next session will be held on Tuesday, August 17<sup>th</sup>.
- The committee plans to offer a Sampling Plan training session later in 2021 (likely Dec 14), and CVCWA is looking into co-sponsoring the event.

#### **Agency Updates**

Palo Alto recently had an ELAP audit and shared the following observations from the audit:

- Before an audit, analysts should know not to deviate from your agency's SOPs.
- Make sure your agency has a specific list of reasons to reject samples for analysis.
- The EPA 2021 Method Update Rule is not yet reflected in the ELAP field of accreditation tables. When ELAP incorporates the 2021 MUR, an announcement will be posted to ELAP's "lyris" email list. In the meantime, agencies should continue to follow the current standard method, because ELAP requires the method used in Proficiency Testing (PT) reports to match laboratory accreditation certificates. City of Petaluma staff noted that they are running PTs using both methods to streamline the transition once ELAP recognizes the new updated methods.

#### Results of PFAS Regional Study, Phase 1

Miguel Mendez and Diana Lin of SFEI presented the Phase 1 results of the PFAS Regional Study for twelve municipal wastewater dischargers. The slides are available <a href="here">here</a>. The following trends were noted:

- Results from grab and composite sampling were generally comparable to one another.
- Among the municipal dischargers, the sum of PFAS concentrations in influent, effluent, and biosolids were generally comparable for each matrix. By contrast, the industrial discharger included in Phase 1 had significantly higher concentrations than the municipal dischargers. This indicates the study approach of sampling representative POTWs (rather than all POTWs) is an appropriate way to characterize PFAS in municipal wastewater in the region.
- PFAS analytes were higher in effluent than in influent. This is due to the conversion of PFAS precursors to terminal PFAS products within the wastewater treatment process.
- PFAS precursors were quantified in influent and biosolids using Total Organic Precursor (TOP)
  analysis. In influent, PFAS precursors were about nine times higher than the sum of PFAS analytes.
  In biosolids, PFAS precursors were about five times higher than the sum of PFAS analytes. This
  means the influent and biosolids contain a significant presence of unknown PFAS precursors. TOP
  analysis was not performed on effluent samples in Phase 1, but this could be included in Phase 2.
- In September, SFEI, BACWA and the Regional Water Board will discuss and agree on the Phase 2 study objectives. The tentative plan for Phase 2 is to focus on PFAS entering sewer-sheds by sampling upstream in different service areas (residential, industrial, etc.), and to conduct sampling in a subset of the 12 agencies that participated in Phase 1.
- For Phase 2, committee members were interested in finding out more about biosolids
  concentrations and in groundwater underlying biosolids disposal or land application areas. SFPUC
  noted that some information on biosolids land application is available in this Pima County study.

Permits Committee Meeting on: August 10, 2021 Executive Board Meeting Date: August 20, 2021 Committee Chair: Chris Dembiczak, EBMUD

#### **Committee Request for Board Action:**

- Consideration of suggestions for Phase 2 of PFAS Regional Study (see pink text below)
- Approval of Chlorine Blanket Permit Amendment comment letter

Regular meeting: 31 attendees (via teleconference only) representing 19 member agencies Joint meeting with Lab Committee: 55 attendees, including 2 guest speakers

#### Results of PFAS Regional Study, Phase 1

Miguel Mendez and Diana Lin of SFEI presented the Phase 1 results of the PFAS Regional Study for twelve municipal wastewater dischargers. The slides are available <a href="https://example.com/here">here</a>. The following trends were noted:

- Results from grab and composite sampling were generally comparable to one another.
- Among the municipal dischargers, the sum of PFAS concentrations in influent, effluent, and biosolids were
  generally comparable for each matrix. By contrast, the industrial discharger included in Phase 1 had
  significantly higher concentrations than the municipal dischargers. This indicates the study approach of
  sampling representative POTWs (rather than all POTWs) is an appropriate way to characterize PFAS in
  municipal wastewater in the region.
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- PFAS precursors were quantified in influent and biosolids using Total Organic Precursor (TOP) analysis. In
  influent, PFAS precursors were about nine times higher than the sum of PFAS analytes. In biosolids, PFAS
  precursors were about five times higher than the sum of PFAS analytes. This means the influent and biosolids
  contain a significant presence of unknown PFAS precursors. TOP analysis was not performed on effluent
  samples in Phase 1, but this could be included in Phase 2.
- For the Phase 1 results, committee members were interested in finding out whether influent concentrations and biosolids concentrations are correlated.
- In September, SFEI, BACWA and the Regional Water Board will discuss and agree on the Phase 2 study objectives. The tentative plan for Phase 2 is to focus on PFAS entering sewersheds by sampling upstream in different service areas (residential, commercial, industrial, etc.), and to conduct sampling in a subset of the 12 agencies that participated in Phase 1.

For Phase 2, committee members were interested in finding out more about biosolids concentrations and in groundwater underlying biosolids disposal or land application areas, since biosolids use represents a theoretical nexus to drinking water supplies via groundwater. SFPUC noted that some information on biosolids land application is available in this <a href="Pima County study">Pima County study</a>.

#### **Tentative Order of Chlorine Blanket Permit Amendment**

The Regional Water Board has released a <u>Tentative Order</u> blanket permit amendment that will modify chlorine effluent limits and remove oil & grease monitoring requirements for BACWA members. Comments are due August 20<sup>th</sup>. A draft comment letter has been distributed to the Permits committee for review. The earliest possible effective date of the blanket permit amendment is November 1, pending OAL and EPA review.

The committee discussed whether any modifications are needed to the Tentative Order to accommodate changes to whole effluent toxicity testing. Laboratory staff should plan to dechlorinate samples prior to conducting toxicity testing (applicable only to agencies that plan to discharge residual chlorine after the permit amendment is effective). Moving the sampling location to upstream of disinfection is another possible compliance strategy. Mary Cousins will reach out to Regional Water Board staff to alert them to this unintended consequence of the blanket permit amendment. Toxicity test impacts will not be included in the comment letter

#### **Alternate Monitoring Requirements**

The Regional Water Board has made substantial progress on a blanket permit amendment to replace the 2016 Alternate Monitoring & Reporting Program, and a draft is expected to be available within the next two weeks. The

Permits Committee Meeting on: August 10, 2021 Executive Board Meeting Date: August 20, 2021 Committee Chair: Chris Dembiczak, EBMUD

committee plans to convene a special meeting to discuss the Regional Water Board's proposal, since feedback will be needed before the next regularly scheduled Permits committee meeting.

#### **Statewide Toxicity Policy**

• The State Water Board intends to rescind the December 2020 version of the statewide toxicity provisions and re-adopt as a state <u>policy</u>. The adoption hearing is on October 5<sup>th</sup>. The earliest possible effective date is in early 2022.

#### **Climate Change**

- By the end of July, nearly all Bay Area POTWs had completed the Climate Change Questionnaire issued by the Regional Water Board. Many (but not all) POTWs expect impacts from sea level rise and coastal flooding, including impacts to treatment plants, ponds, and collection systems. Many responses noted that power supply reliability improvements have already been completed.
- The Regional Water Board is beginning work on a Shoreline Resilience Basin Plan Amendment. The scope and schedule are identified in the <u>CEQA scoping materials</u> for the amendment. A draft Staff Report is expected in September 2021. This Basin Plan Amendment may address the use of wastewater in horizontal levees.

#### **Nutrients**

- The Regional Water Board is preparing a memo identifying science needs for the 3<sup>rd</sup> nutrient watershed permit, which will released for stakeholder community review this fall.
- The Nutrient Strategy Team continues to develop a document describing BACWA's key tenets for the 3<sup>rd</sup> watershed permit. The effort will be informed by results of nutrient loading data analysis regarding compliance feasibility being conducted by HDR, the results of which will be presented at the next Nutrient Strategy Team meeting scheduled for August 25<sup>th</sup>.

#### **Biosolids**

- Regional Water Board staff plan increased attention to biosolids permitting in Region 2.
- SF Bay Joint Venture is sponsoring a white paper regarding biosolids land application in the Baylands. SFEI is
  the lead author and the Bay Area Biosolids Coalition, Ducks Unlimited, and Sonoma Land Trust are assisting.
  The group plans to finalize the white paper by October.

Next BACWA Permits Committee Meeting: October 12, 2021, 12:30 PM via Zoom



### Executive Director's Report to the Board **July 2021**

#### **EXECUTIVE BOARD MEETING AND SUPPORT**

- Edited minutes and action items from 6/18 Executive Board meeting
- Worked with BACWA staff to plan and manage 7/16 Executive Board meeting
- Conducted the Executive Board meeting agenda review with the BACWA Chair
- Continued to track all action items to completion
- Began planning for Pardee Technical Seminar
- Worked with venue to plan 2022 Annual meeting

#### **COMMITTEES:**

- Discussed issues of concern with Managers Roundtable subgroup
- Attended 7/20 Recycled Water Committee Meeting
- Discussed potential signage with BAPPG leadership and CASA

#### **REGULATORY:**

- Attended SFEI PFAS Phase I workshop
- Developed draft BACWA PFAS Fact Sheet
- Attended Regional Water Board meeting on 7/14 for horizontal levee and biosolids discussion
- Contacted BAAQMD to report ferric chloride shortages and possible impacts on odors and H2S

#### **NUTRIENTS**:

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

- Discussed NMS issues with Science Manager
- Attended 7/19 Planning Subcommittee meeting, drafted and distributed meeting notes
- Attended 7/19 BACWA Data Steering committee meeting to discuss load cap calculations
- Met with Baykeeper and SFEP Estuary Blueprint actions on Nutrients 7/14
- Drafted Nutrient Trading Framework memo
- Discussed nutrient cap calculations with Board member and staff
- Reviewed legal reviews for trading programs in other jurisdictions

#### **FINANCE:**

- Reviewed the monthly BACWA financial reports, summary, and budget to actual tracking sheet for May 2021
- Began update of 5-year plan accounting for \$2.2 FY22 payment to NMS
- Reviewed FY22 contracts and extended FY21 POs where necessary
- Attended end-of-year meeting with EBMUD accounting staff
- Drafted FY22 Invoice cover letter
- Reviewed and approved invoices
- Reviewed FY20/21 BACWA MDA

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#### **COLLABORATIONS:**

- Commented on draft Estuary Blueprint actions for CECs and Recycled Water
- Attended 7/15 CASA RWG meeting
- Attended 7/21 CASA CS meeting
- Met with Summit Partners to discuss indoor water use target reduction surveys and distribution

#### **ASC**

Reviewed materials sent via email by ASC ED

#### BABC:

Attended meeting on 7/12 and developed meeting summary

#### BACC:

- Discussed FY22 BACC process with AED
- Met with DSRSD staff and AED to plan year-end meeting
- Distributed information about ferric chloride shortages

#### **BACCWE**

- Reviewed BACCWE email discussions
- Discussed implementation of BACCWE scholarship invoicing with AED
- Worked on BACCWE webpage

#### ADMINISTRATION:

- Planned for and conducted the monthly BACWA staff meeting to prepare for the Board Meeting and to coordinate and prioritize activities.
- Met with RPM to discuss progress on regulatory issues
- Signed off on invoices, reviewed correspondence, prepared for upcoming Board meetings, responded to inquiries on BACWA efforts, oversaw and participated in updating of web page and provided general direction to BACWA staff.
- Worked with the RPM in the preparation of the monthly BACWA Bulletin.
- Developed and responded to numerous emails and phone calls as part of the conduct of BACWA business on a day-to-day basis.
- Worked with AED and website consultant to fix broken calendar on website
- Began development of FY21 Performance Evaluation and FY22 Performance Plan

#### **MISCELLANEOUS MEETINGS/CALLS:**

• Worked with BACWA Chair and Committee Chairs on items that arose during the month

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- Other miscellaneous calls and inquiries regarding BACWA activities
- Responded to Board members requests for information



#### **Board Calendar**

Sept – Nov 2021 Meetings

**DATE** 

**AGENDA ITEMS** 

Sept 17, 2021

**Approvals & Authorizations:** 

• FY21 Annual Report

• PFAS Study Phase II SFEI contract

**Policy / Strategic Discussion:** 

• Climate change

• AMR Discussion

**Operational:** 

• Nutrient Surcharge Allocation Discussion

October – 28 & 29<sup>th</sup> 2021, Pardee or Orinda Watershed HQ

November 19, 2021

**Approvals & Authorizations:** 

**Policy / Strategic Discussion:** 

• Sean McNeil – R1 program

**Operational:** 

December 17, 2021

January 21, 2022

February 10, 2022 – Annual Meeting



### **BACWA ACTION ITEMS**

Number	Subject	Task	Responsibiity	Deadline	Status
	Action Items from July 2021 BACWA Executive Board Meeting		resp.	deadline	status
	Action rems from July 2021 BACWA Executive Board Weeting	BACWA ED to explore other trading groups regarding legal review and explore potential presentation at	Tesp.	8/16/2021	
2022.7.1	Nutrient Trading Memo	BACWA meeting.	ED/AED	0,10,2021	Complete
2022.7.2	WEFTEC	BACWA ED to invite HDR to come to August 31st meeting with RWB for a dry run of presentation	ED	8/16/2021	complete
		Include biosolids planning in agenda for next joing meeting with R2, following discussion of climate change		8/16/2021	complete
2022.7.3	Sonoma Land Trust \ BABC biosolids collaboration	adaptation	ED/AED		
022.7.4	PFAS Study I data discussion	Provide summary of PFAS study findings to RWB	ED/RPM	8/16/2021	complete
022.7.5	Pardee / Orinda planning	Provide update on COVID restriction	ED/AED	8/16/2021	complete
2022.7.6	FY22 NMS funding	Provide report and BAR to move funds from BACWA to CBC and provide timing of first payment to SFEI	ED/AED	8/16/2021	complete
2022.7.7	Scholarship funding	Include discussion of potential scholarship on August meeting agenda	ED/AED	8/16/2021	complete

Action Items Remaining from Previous BACWA Executive Board Meetings						
BAAQMD Engagement	Prepare draft letter for BAAQMD Board of Directors regarding BACT determination	RPM \ ED	5/21/2021 pending			
PFAS Study Schedule	BACWA staff to bring draft PFAS fact sheet to July Executive Board Meeting	RPM \ ED	7/16/2021 pending			

FY22: 7 of 7 Action items are completed
FY21: 49 of 51 Action items completed
FY20: 70 of 70 Action Items completed
FY19: 110 of 110 action Items completed
FY18: 66 of 66 Action Items completed
FY17: 90 of 90 Action Items completed



### Regulatory Program Manager's Report to the Executive Board

**July 2021** 

**BACWA BULLETIN**: Completed and circulated July 2021 Bulletin

**CECs:** Participated in review and discussion of results from Phase 1 of the PFAS Regional Study.

**CLIMATE:** Conducted outreach to BACWA member agencies regarding completion of the Regional Water Board's climate change questionnaire.

**NUTRIENTS:** Participated in data analysis steering committee meeting.

**REGULATORY MATRIX:** Prepared July 2021 version of Key Regulatory Issues summary.

#### **COMMITTEE SUPPORT:**

#### AIR

Finalized and circulated methane management survey to BACWA members.
 Coordinated with consultant team regarding outreach to member agencies to encourage participation.

#### **BAPPG**

- Submitted comment letter to EPA regarding minimum risk pesticides.
- o Participated in pesticide subcommittee meeting.
- Discussed strategic direction of Regional Water Board's participation in BAPPG with committee leadership and Regional Water Board staff.

#### **Biosolids**

- Finalized and circulated 2021 Biosolids Survey to BACWA members.
- o Discussed biosolids permitting issues with Regional Water Board staff.

#### Laboratory

o Assisted with planning for TNI training series led by Diane Lawver; which began in July.

#### **Permits**

- Began review of Tentative Order (public review draft) of chlorine residual blanket permit amendment; circulated for review by BACWA committees; compiled comments and corresponded with Regional Water Board staff about potential typographical errors.
- o Prepared draft agenda for August meeting.

#### **Recycled Water**

- o Prepared draft agenda for July meeting.
- Attended and prepared meeting notes for July meeting; circulated to committee members.
- Attended WateReuse webinar regarding multi-agency recycled water projects.

**ADMINISTRATION/STAFF MEETING –** Participated in monthly staff meeting.

#### **BACWA MEETINGS ATTENDED:**

Bay Area Biosolids Coalition (7/12) Executive Board (7/16) BAPPG Pesticides Committee (7/20) Recycled Water Committee (7/20)

#### **EXTERNAL EVENTS ATTENDED:**

CASA Regulatory Workgroup (7/15) CASA Collection System Workgroup (7/21)