



**Executive Board Meeting
AGENDA**
Friday, December 16, 2022 9:00 AM - 12:30 PM (PDT)

To attend the meeting via Zoom or submit a comment
please [request access](#).

Agenda Item	Time	Pages
ROLL CALL, INTRODUCTIONS, AND TELECONFERENCE ETIQUETTE	9:00 AM	
PUBLIC COMMENT Guidelines	9:05 AM	
CONSIDERATION TO TAKE AGENDA ITEMS OUT OF ORDER		
CONSENT CALENDAR	9:15 AM	
1 Resolution to continue teleconferencing Executive Board meetings (AB361)		3-4
2 November 18, 2022 BACWA Executive Board meeting minutes		5-9
3 October 2022 Treasurer's Report		10-20
APPROVALS AND AUTHORIZATIONS	9:25 AM	
4 Authorization: EDAR Chemval contract		21-23
POLICY/STRATEGIC	9:30 AM	
5 <u>Presentation</u> : National Stewardship Action Council update		
6 <u>Discussion</u> : Nutrients		
a. Technical Work		
i. Upcoming NMS deliverables		
ii. Overview of HAB Event slides		
b. Regulatory		
i. 2022 GAR Preview Presentation		
ii. Nutrient reduction POTW meeting schedule		
iii. January 6, 2023 NST meeting		
iv. Engagement on solid waste contribution to nutrients		
c. Governance		
i. November 18 Planning Subcommittee minutes		25-27
ii. December 7 Planning Subcommittee minutes		28-30
iii. December 9 Steering Committee meeting - debrief		31-34
d. Communications and lobbying		
i. Communications steering committee debrief		35-36
ii. Nutrient FAQs		
BREAK		
7 <u>Discussion</u> : Engagement with BAAQMD on permit backlog and toxics monitoring - debrief		37-44
8 <u>Discussion</u> : SSS WDR adoption debrief and next steps		
9 <u>Informational</u> : Solano County Biosolids report		45-62
10 <u>Discussion</u> : Draft agenda for R2/BACWA joint meeting Jan 10		63
11 <u>Discussion</u> : Hg/PCB Watershed Permit Adoption		64-70
OPERATIONAL	11:45 AM	
12 <u>Discussion</u> : Meeting schedule for calendar year 2023		71
13 <u>Discussion</u> : Annual Meeting Speakers		
14 <u>Discussion</u> : FY24 Budget planning schedule		72
15 <u>Informational</u> : BACWA Executive Board designates		73
16 <u>Informational</u> : BACC Update		
REPORTS	12:20 PM	
17 Committee Reports		74
18 Member highlights		
19 Executive Director Report		75-76
20 Board Calendar and Action Items		77-78
21 Regulatory Program Manager Report		79
22 Other BACWA Representative Reports		
a. RMP Technical Review Committee		

Mary Lou Esparza, Yuyun Shang, Samantha Engelage

b. RMP Steering Committee	Karin North; Amanda Roa; Eric Dunlavey		
c. Summit Partners	Lorien Fono; Amit Mutsuddy		
d. ASC/SFEI	Lorien Fono; Amit Mutsuddy; Lori Schectel		
e. Nutrient Governance Steering Committee	Eric Dunlavey; alternates: Lori Schectel		
e.i Nutrient Planning Subgroup	Eric Dunlavey		
f. SWRCB Nutrient SAG	Lorien Fono		
h. BAIRWMP	Cheryl Munoz; Florence Wedington; Lorien Fono		
i. NACWA Emerging Contaminants	Karin North; Melody LaBella		
j. CASA State Legislative Committee	Lori Schectel		
k. CASA Regulatory Workgroup	Lorien Fono; Mary Cousins		
l. RMP Microplastics Liaison	Artem Dyachenko		
m. Bay Area Regional Reliability Project	Jackie Zipkin		
n. WaterReuse Working Group	Cheryl Munoz		
o. San Francisco Estuary Partnership	Lorien Fono; Jackie Zipkin		
p. CPSC Policy Education Advisory Committee	Colleen Henry		
q. California Ocean Protection Council	Lorien Fono		
r. Countywide Water Reuse Master Plan	Karin North, Pedro Hernandez		
s. CHARG - Coastal Hazards Adaptation Resiliency Group	Jackie Zipkin		
t. California Water Quality Monitoring Council	Lorien Fono		
23 SUGGESTIONS FOR FUTURE AGENDA ITEMS		12:29 PM	
NEXT MEETING			
The next meeting of the Board is scheduled for January 20, 2023			
ADJOURNMENT		12:30 PM	



**BAY AREA CLEAN WATER AGENCIES
RESOLUTION NO. R-23-06**

RESOLUTION AUTHORIZING REMOTE TELECONFERENCE MEETINGS PURSUANT TO AB 361

WHEREAS, all Bay Area Clean Water Agencies (BACWA) meetings are open and public, as required by the Ralph M. Brown Act (Cal. Gov. Code 54950 – 54963), so that any member of the public may attend, participate, and watch BACWA’s legislative bodies conduct their business; and

WHEREAS, on March 4, 2020, Governor Newsom declared a State of Emergency to make additional resources available, formalize emergency actions already underway across multiple state agencies and departments, and help the State prepare for an anticipated broader spread of the novel coronavirus disease 2019 (“COVID-19”); and

WHEREAS, On March 17, 2020, in response to the COVID-19 pandemic, Governor Newsom issued Executive Order N-29-20 suspending certain provisions of the Ralph M. Brown Act in order to allow local legislative bodies to conduct meetings telephonically or by other means; and

WHEREAS, as a result of Executive Order N-29-20, staff set up virtual meetings for all BACWA Executive Board meetings; and

WHEREAS, on June 11, 2021, Governor Newsom issued Executive Order N-08-21, which, effective September 30, 2021, repealed the provisions of Executive Order N29-20 that allowed local legislative bodies to conduct meetings telephonically or by other means; and

WHEREAS, on September 16, 2021, Governor Newsom signed AB 361 (2021), which allows for local legislative bodies and advisory bodies to continue to conduct meetings via teleconferencing under specified conditions and includes a requirement that the BACWA Executive Board make specified findings. AB 361 (2021) took effect immediately; and

WHEREAS, in order for legislative bodies to continue to conduct meetings via teleconferencing pursuant to AB 361 (2021), a proclaimed State of Emergency must exist; and

WHEREAS, AB 361 (2021) further requires that State or local officials have imposed or recommended measures to promote social distancing, or, requires that the legislative body determines that meeting in person would present imminent risks to the health and safety of attendees; and

WHEREAS, such conditions now exist in BACWA’s jurisdiction, specifically, Governor Newsom has declared a State of Emergency due to COVID-19; and

WHEREAS, the Centers for Disease Control and Prevention (“CDC”) continues to recommend physical distancing of at least 6 feet from others outside the household; and

WHEREAS, local county health jurisdictions continue to recommend physical and social distancing as a COVID-19 mitigation strategy and

WHEREAS, because of the prevalence of highly contagious variants of COVID-19, the BACWA Executive Board is concerned about the health and safety of all individuals who intend to attend BACWA Executive Board and Committee meetings; and

WHEREAS, the BACWA Executive Board desires to provide a way for Executive Boarders, staff, and members of the public to participate in meetings remotely, without having to attend meetings in person; and

WHEREAS, the BACWA Executive Board hereby finds that the presence of COVID-19 and the prevalence of cases due to the Omicron variant would present imminent risks to the health or safety of attendees, including the legislative bodies and staff, should BACWA’s legislative bodies hold in person meetings; and

WHEREAS, BACWA shall ensure that its meetings comply with the provisions required by AB 361 (2021) for holding teleconferenced meetings.



**BAY AREA CLEAN WATER AGENCIES
RESOLUTION NO. R-23-06**

NOW, THEREFORE, BE IT RESOLVED that the Executive Board of the Bay Area Clean Water Agencies hereby declares as follows:

1. The above recitals are true and correct, and incorporated into this Resolution.
2. In compliance with AB 361 (2021), and in order to continue to conduct teleconference meetings without complying with the usual teleconference meeting requirements of the Brown Act, the BACWA Executive Board makes the following findings:
 - a. The BACWA Executive Board has considered the circumstances of the State of Emergency; and
 - b. The State of Emergency, as declared by the Governor, continues to directly impact the ability of the BACWA Executive Board and BACWA's legislative bodies, as well as staff and members of the public, from meeting safely in person; and
 - c. The CDC continues to recommend physical distancing of at least six feet due to COVID-19 and as a result of the presence of highly contagious variants of COVID-19, meeting in person would present imminent risks to the health or safety of attendees, the legislative bodies and staff.
3. The BACWA Executive Board may continue to meet remotely in compliance with AB 361, in order to better ensure the health and safety of the public.
4. The BACWA Executive Board will revisit the need to conduct meetings remotely within thirty (30) days of the adoption of this resolution.

PASSED AND ADOPTED THIS 16th DAY OF DECEMBER, 2022.

Amit Mutsuddy
Chair of the Bay Area Clean Water Agencies Executive Board

ATTEST:

Lorien J. Fono
Executive Director, Bay Area Clean Water Agencies



BACWA Executive Board Meeting Minutes

November 18, 2022

ROLL CALL AND INTRODUCTIONS

Executive Board Representatives: Amy Chastain (San Francisco Public Utilities Commission); Alicia Chakrabarti (East Bay Municipal Utility District); Jackie Zipkin (East Bay Dischargers Authority); Lori Schectel (Central Contra Costa Sanitary District); Amit Mutsuddy (City of San Jose).

Other Attendees and Guests:

Name	Agency/Company
Amanda Roa	Delta Diablo
Andrew Damron	Napa San
Azalea Mitch	City of San Mateo
Blake Brown	Central Contra Costa Sanitary District
Dave Richardson	Woodard & Curran
David Donovan	City of Hayward, EBDA
Don Gray	EBMUD
Eric Dunlavey	City of San Jose
Jennifer Dymant	BACWA
Jennifer Voccola-Brown	City of San Jose
Karin North	City of Palo Alto
Lorien Fono	BACWA
Mary Cousins	BACWA
Meg Herston	FSSD
Milk Falk	HDR
Stephanie Hughes	Consultant
Steve Moore	RVSD
Talyon Sortor	FSSD
Teresa Herrera	Silicon Valley Clean Water
Tom Hall	EOA

Amit started meeting at 9:03am

ROLL CALL, INTRODUCTIONS, AND TELECONFERENCE ETIQUETTE

PUBLIC COMMENT

CONSIDERATION TO TAKE AGENDA ITEMS OUT OF ORDER - None

CONSENT CALENDAR

- 1 Resolution to continue teleconferencing Executive Board meetings (AB361)**
- 2 October 21, 2022 BACWA Executive Board meeting minutes**
- 3 September 29, 2022 Special Board Meeting/NST minutes**
- 4 October 19, 2022 Special Board Meeting/NST minutes**
- 5 September 2022 Treasurer's Report**

Consent Calendar Items 1 thru 5: A motion to approve was made by Amy Chastain (San Francisco Public Utilities Commission) and seconded by Lori Schectel (Central Contra Costa Sanitary District). The motion was approved unanimously.

APPROVALS AND AUTHORIZATIONS

- 6 Approval: FY22 Audit Report**

Item 6: A motion to approve was made by Jackie Zipkin (East Bay Dischargers Authority) and seconded by Lori Schectel (Central Contra Costa Sanitary District). The motion was approved unanimously.

- 7 Approval: BACWA Chair for remainder of FY23**

Item 7: A motion to approve was made by Jackie Zipkin (East Bay Dischargers Authority) and seconded by Amy Chastain (San Francisco Public Utilities Commission). The motion was approved unanimously.

- 8 Authorization: CAR Contract extension for Rich Cunningham SSS WDR support**

POLICY/STRATEGIC

- 9 Discussion: Nutrients**

a. Technical Work

i. SCCWRP OAH Update 9/9 SCCWRP Commission meeting slides - BACWA ED discussed preliminary findings from a September 2022 meeting on SCCWRP's ROMS BEC model that showed the effects of nitrogen removal on algal production that translates to improvement in oxygen and pH loss. Also shared that water recycling could cause more intense localized blooms and oxygen and pH loss within a smaller footprint of effect. The group also discussed SCCWRP's nine options for ocean modeling uncertainty analysis, and the development of a stakeholder steering committee for an independent peer review. Group discussion followed.

b. Regulatory

i. NST meeting 12/2 - Engagement with individual agencies - BACWA ED shared that regular NST Meetings will be the first Friday of every month for now. BACWA ED shared the agenda of the December 2, 2022, meeting which includes: a review of a new nutrient FAQ document, review of a draft

nutrient PowerPoint, questions for individual plant meetings, update on communications initiative and funding information. Each agenda item was discussed by the meeting attendees.

c. Governance

i. December 9 Steering Committee meeting - BACWA ED summarized the NMS Steering Committee meeting agenda. BACWA ED encouraged people to attend.

d. Communications and lobbying

i. Communications steering committee debrief - BACWA ED shared goals & scope of communications steering committee. The goals: regional incident response capability and a public understanding of the value of wastewater service. The next meeting is on November 29, 2022.

ii. Nutrient FAQs - BACWA ED circulated a nutrient FAQ for review. BACWA ED shared the draft pdf. BACWA ED would like to get final approval on the document in the next couple weeks and share it with agencies.

Action Item: *BACWA ED to circulate FAQ document to members for additional review, and incorporate additional requested edits.*

iii. Nutrient PowerPoint guide - BACWA ED shared draft presentation for non-scientists that Individual agencies can use. A completed presentation will be circulated to the NST for comment.

10 Discussion: Engagement with BAAQMD Board - BACWA ED shared that a meeting with a BAAQMD Board member took place to address the permitting backlog. Additional meetings with BAAQMD staff and the Board chair are being planned to discuss how to expedite wastewater agency permitting.

Action item: *BACWA ED to notify group of the next meeting date.*

11 Discussion: SSS WDR - BACWA engagement with State Water Board - BACWA RPM shared general overview of revised draft of SSS WDR. RPM shared the two main goals of the meeting: to reduce cost of compliance for requirements with limited or no water quality impact and provide direction on significant new requirements and three main topics: exfiltration, spill reporting and due dates. General discussion followed. The group thanked RPM for her efforts around this permitting process.

Action Items: *BACWA RPM to produce a high-level summary of differences between the current permit and new permit once adopted.*

BREAK 10:45 AM

12 Informational: BAPPG Pesticides Update - BACWA RPM welcomed Stephanie Hughes who gave an update on the BAPPG pesticides regulatory contract. Stephanie summarized BACWA Pesticide workgroup members and their proactive efforts around pesticides (monitoring, advocating for POTWs, engaging professional & community). Stephanie summarized the key monitoring and regulatory outcomes for FY2021-22 with DPR and EPA agencies. Stephanie shared slides, which were also shared with the EPA, that demonstrate high urban pesticide usage overlap with endangered species habitat. Stephanie shared a slide on key professional and community engagement efforts

regarding indoor flea / tick treatments. Stephanie also shared recommended FY2022-23 priorities around their main efforts. The slides are posted [here](#). Group discussion followed.

13 Discussion: Hg/PCB Watershed Permit Tentative Order BACWA Comments - BACWA ED and BACWA RPM shared that the BACWA comment letter submitted on November 14, 2022, is in the packet. Comments were minor and RPM expected that most of the comments would be accepted. The order is expected to be adopted in December and BACWA will assist agencies in completing the risk reduction activities required by the reissued permit.

OPERATIONAL

14 Discussion: Teleconferencing per AB 361 - BACWA ED started the discussion regarding in person and remote meetings after February 28, 2022. Meeting attendees shared what their individual agencies are doing. The consensus was that starting in March 2023, board members attend in person and BACWA members and public attend in person or remotely.

Action items: *BACWA staff to investigate hardware to improve hybrid meetings. BACWA staff determine meeting dates and locations for remainder of FY23.*

15 Discussion: Holiday lunch and committee leadership recognition - BACWA ED asked if Board Members wanted to meet in person in December and host a holiday luncheon. The group decided against meeting in person in December due to concerns about transmissible illness before the holidays. Committee chairs will be thanked with a gift in lieu of an invitation to the luncheon.

16 Informational: BACC Update - BACWA AED shared that FY2023-24 BACC bid is underway. BACWA Executive Board member asked that a BACC link be placed on the BACC main website.

Action Item: *BACWA AED to add public BACC page to website.*

REPORTS

17 Committee Reports - In the packet.

18 Member highlights - City of San Jose shared that the Deputy Director for Wastewater Management position is now open for recruitment. SFPUC shared information about a recently completed research project related to extreme precipitation that is producing technical guidance to City managers, policy-makers, and practitioners. Central Sanitation shared a job opening at their agency.

19 Executive Director Report - BACWA ED shared that report was in the packet and shared summary of the meeting between BACWWE and the O&M committee November 10, 2022. ED also shared that Bay Area One Water Network is planning another workshop on alternative water supplies such as brackish water or dewatering potable water projects. BACWA ED will share meeting invitation with BACWA members who may accept RO concentrate from such projects.

20 Board Calendar and Action Items -BACWA ED summarized a couple months of anticipated board calendar items.

21 Regulatory Program Manager Report - In the 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
- c. Summit Partners Lorien Fono; Amit Mutsuddy
- d. ASC/SFEI Lorien Fono; Amit Mutsuddy; Lori Schectel
- e. Nutrient Governance Steering Committee Eric Dunlavey, Jackie Zipkin alternates: Lori Schectel, 1 alternate needed
 - e.i Nutrient Planning Subgroup Eric Dunlavey
- f. SWRCB Nutrient SAG Lorien Fono
- h. BAIRWMP Cheryl Munoz; Florence Wedington; Lorien Fono
- i. NACWA Emerging Contaminants Karin North; Melody LaBella
- j. CASA State Legislative Committee Lori Schectel
- k. CASA Regulatory Workgroup Lorien Fono; Mary Cousins
- l. RMP Microplastics Liaison Artem Dyachenko
- m. Bay Area Regional Reliability Project Jackie Zipkin
- n. WaterReuse Working Group Cheryl Munoz
- o. San Francisco Estuary Partnership Lorien Fono; Jackie Zipkin
- p. CPSC Policy Education Advisory Committee Colleen Henry
- q. California Ocean Protection Council Lorien Fono
- r. Countywide Water Reuse Master Plan Karin North, Pedro Hernandez
- s. CHARG - Coastal Hazards Adaptation Resiliency Group Jackie Zipkin
- t. California Water Quality Monitoring Council Lorien Fono

24 SUGGESTIONS FOR FUTURE AGENDA ITEMS

NEXT MEETING The next meeting of the Board is scheduled for December 16, 2022

ADJOURNMENT **12:13 PM**



Bay Area Clean Water Agencies

A Joint Powers Public Agency

Leading the Way to Protect our Bay

November 18, 2022

MEMO TO: Bay Area Clean Water Agencies Executive Board
MEMO FROM: Samuel Feldman-Crough, Treasurer, East Bay Municipal Utility District
SUBJECT: Fourth Month FY 2023 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, 2022 through October 31, 2022** (Four months of Fiscal Year 2023). 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),

Houck, Matt

From: Feldman, Samuel
Sent: Tuesday, November 29, 2022 5:48 PM
To: Houck, Matt
Subject: RE: October 2022 Treasurer's Report

Approved, thank you!

Sam Feldman (he/him/his)
Manager of Budget
office: (510) 287-0441
mobile: (510) 882-6860

From: Houck, Matt <matt.houck@ebmud.com>
Sent: Tuesday, November 29, 2022 8:29 AM
To: Feldman, Samuel <samuel.feldman@ebmud.com>
Subject: October 2022 Treasurer's Report

Hi Samuel,

Please approve BACWA - October 2022 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



MONTHLY FINANCIAL SUMMARY REPORT

October 2022

Fund Balances

In FY23 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). As of October 31st, 2021, revenues are recognized when billed, not when payments are received.

BACWA Fund: This fund provides resources for BACWA staff, its committees, and other administrative needs. The ending fund balance on October 31, 2022, was \$941,600 which is significantly higher than the target reserve of \$229,098 which is intended to cover 3 months of normal operating expenses based on the BACWA FY22 budget. \$546,642 of the ending fund balance is shown on the BACWA Fund & Investments Balance Report October 31, 2022, 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 an actual unencumbered reserve of \$165,860 (i.e., actual fund balance of \$394,958 less target reserves) as of October 31, 2022.

CBC Fund: This fund provides the resources for completing special investigations as well as meeting regulatory requirements. The ending fund balance on October 31, 2022, was \$3,134,781 which is higher than the target reserve of \$1,000,000. \$619,429 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 reserve balance of \$1,515,352 (i.e., actual fund balance of \$2,515,352 less target reserves) as of October 31, 2022. 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.

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


Budget to Actual

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

Revenues as of October 31, 2022 (33% of the FY) are at 99%

Expenses as of October 31, 2022 (33% of the FY) are at 36%

FY 2023
BACWA BUDGET to ACTUAL

							
<u>BACWA FY23 BUDGET</u>	<u>Line Item Description</u>	<u>FY 2023 Budget</u>	<u>Projected Revenue as of Oct 2023 Changes from budget in blue</u>	<u>Actual Oct 2023</u>	<u>Actual % of Budget Oct 2023</u>	<u>Variance</u>	<u>NOTES</u>
REVENUES & FUNDING							
Dues	Principals' Contributions	\$527,250	\$527,250	\$527,250	100%	\$0	FY23: 2% increase 5 @ \$105,450
	Associate & Affiliate Contributions	\$187,793	\$187,793	\$186,845	99%	-\$948	FY23: 2% increase. 12 Assoc: \$8702; 47 Affiliate: \$1743
Fees	Clean Bay Collaborative	\$675,000	\$675,000	\$674,250	100%	-\$750	Prin: \$450,000; Assoc/Affil: \$225,000
	Nutrient Surcharge	\$1,400,000	\$1,400,000	\$1,399,980	100%	-\$20	See Nutrient Surcharge Spreadsheet
	Voluntary Nutrient Contributions			\$0	0%	\$0	
Other Receipts	AIR Non-Member	\$7,217	\$7,217	\$7,217	100%	\$0	2% increase (Santa Rosa)
	BAPPG Non-Members	\$4,033	\$4,033	\$4,033	100%	\$0	2% increase (Sta Rosa, Sac Reg'l, Vacaville) \$1,344/each
	Other			\$2,653		\$2,653	
Fund Transfer	Special Program Admin Fees (WOT)	\$5,202	\$5,202	\$0	0%	-\$5,202	
	Special Program Admin Fees (BACC)	\$36,000	\$36,000	\$0	0%	-\$36,000	400 hours of AED support \$90/hr
	Special Program Admin Fees (BABC)	\$6,000	\$6,000	\$0	0%	-\$6,000	ED, AED and RPM support
Interest Income	LAIF	\$4,000	\$4,000	\$12,151	304%	\$8,151	BACWA, Legal, & CBC Funds invested in LAIF
	Higher Yield Investments						
	Total Revenue	\$2,852,495	\$2,852,495	\$2,814,379	98.66%	-\$38,116	
BACWA FY23 BUDGET							
<u>BACWA FY23 BUDGET</u>	<u>Line Item Description</u>	<u>FY 2023 Budget</u>	<u>Projected Expense as of Oct 2023 Changes from budget in blue</u>	<u>Actual Oct 2023</u>	<u>Actual % of Budget Oct 2023</u>	<u>Variance</u>	<u>NOTES</u>
EXPENSES							
Labor							
	Executive Director	\$204,250	\$204,250	\$34,042	17%	-\$170,208	7.5% increase (flat in FY22)
	Assistant Executive Director	\$86,004	\$86,004	\$24,665	29%	-\$61,339	7.5% over FY21; \$71.67/hour; Reflects 1200 hours
	BACC Administrator	\$36,000	\$36,000	\$5,740	16%	-\$30,260	400 hrs AED support at \$90 per hr
	Regulatory Program Manager	\$142,223	\$142,223	\$36,612	26%	-\$105,611	7.5% increase (flat in FY22); \$103.35/hour, Reflects 1350 hours
	Total	\$468,477	\$468,477	\$101,059	22%	-\$367,418	
Administration							
	EBMUD Financial Services	\$43,297	\$43,297	\$0	0%	-\$43,297	2% increase
	Auditing Services	\$5,452	\$5,452	\$0	0%	-\$5,452	Financial Auditors through EBMUD; per auditor rate schedule
	Administrative Expenses	\$8,118	\$8,118	\$0	0%	-\$8,118	2% increase over FY22
	Insurance	\$8,132	\$8,132	\$7,571	93%	-\$561	15% increase over FY22 actual
	Total	\$64,999	\$64,999	\$7,571	12%	-\$57,428	
Meetings							
	EB Meetings	\$2,706	\$2,706	\$0	0%	-\$2,706	2% increase from FY22
	Annual Meeting	\$14,369	\$14,369	\$0	0%	-\$14,369	2% increase from FY22
	Pardee	\$6,668	\$6,668	\$3,332	50%	-\$3,336	2% increase from FY22
	Misc. Meetings	\$5,412	\$5,412	\$2,639	49%	-\$2,773	2% increase from FY22
	Total	\$29,155	\$29,155	\$5,971	20%	-\$23,184	
Communication							
	Website Hosting	\$714	\$714	\$0	0%	-\$714	2% increase from FY22, Go Daddy website hosting and domain registration
	File Storage	\$780	\$780	\$0	0%	-\$780	2% increase from FY22, box.net
	Website Development/Maintenance	\$1,561	\$1,561	\$0	0%	-\$1,561	2% increase from FY22
	IT Support	\$2,705	\$2,705	\$0	0%	-\$2,705	2% increase from FY22
	Other Commun	\$1,821	\$1,821	\$404	22%	-\$1,417	2% increase from FY22; MS Exchange, Survey Monkey, PollEv, Zoom, Netfile
	Total	\$7,581	\$7,581	\$404	5%	13 -\$7,177	

FY 2023
BACWA BUDGET to ACTUAL

EXPENSES							
Legal							
Regulatory Support	\$2,871	\$2,871	\$0	0%	-\$2,871	2% increase from FY22, Downey Brand LLP	
Executive Board Support	\$2,309	\$2,309	\$0	0%	-\$2,309	2% increase from FY22, Day Carter & Murphy LLP	
Total	\$5,181	\$5,181	\$0	0%	-\$5,181		
Committees							
AIR	\$96,000	\$96,000	\$26,164		-\$69,837	\$75k consulting support, \$20k support for ACE, \$1k misc expenses. Carollo Engineers	
BAPPG	\$130,600	\$130,600	\$27,972	21%	-\$102,628	Includes CPSC @ \$10,000, OWOW @ \$10,000, and Pest. Reg Spt. @ \$60,000	
Biosolids Committee	\$0	\$0			\$0		
Collections System	\$1,000	\$1,000	\$0	0%	-\$1,000	Same as FY23	
InfoShare Groups	\$1,000	\$1,000	\$0	0%	-\$1,000		
Laboratory Committee	\$6,400	\$6,400	\$1,511	24%	-\$4,889	TNI standard training and meetings	
Permits Committee	\$1,000	\$1,000	\$0	0%	-\$1,000		
Pretreatment	\$1,000	\$1,000	\$0	0%	-\$1,000		
Recycled Water Committee	\$20,000	\$20,000	\$0	0%	-\$20,000		
Misc Committee Support	\$45,000	\$45,000	\$0	0%	-\$45,000		
Manager's Roundtable	\$1,000	\$1,000	\$0	0%	-\$1,000		
Total	\$303,000	\$303,000	\$55,646	18%	-\$247,354		
Collaboratives							
Collaboratives							
State of the Estuary (SFEP-biennial)	\$20,000	\$20,000	\$0	0%	-\$20,000	Biennial in Odd Fiscal Years. (Paid biennially in odd years for even year conference)	
Arleen Navarret Award	\$2,500	\$2,500	\$0	0%	-\$2,500	Biennial in Even Fiscal Years. Increase in FY20. 2022 Award to be paid in FY23	
BayCAN	\$5,000	\$5,000	\$0	0%	-\$5,000		
Bay Area One Water Network	\$5,000	\$5,000	\$0	0%		New for FY23	
Bruce Wolf Scholarship	\$4,000	\$4,000	\$0	0%		FY22, FY23, FY24, FY25 FY26	
Misc	\$1,500	\$1,500	\$0	0%	-\$1,500	NBWA	
Total	\$38,000	\$38,000	\$0	0%	-\$38,000		
Other							
Unbudgeted Items							
Other	\$0	\$0	\$0	0%	\$0		
	\$0		\$0	0%	\$0		
Tech Support							
Technical Support							
Nutrients							
Watershed	\$1,800,000	\$1,800,000	\$1,000,000	56%	-\$800,000	Advance funding for 2nd Watershed Permit Sciece Studies; Final \$ TBD	
NMS Voluntary Contributions	\$0	\$0	\$0	0%	\$0		
Additional work under permit	\$100,000	\$100,000	\$48,040	48%	-\$51,960	Includes HDR PO for \$225k spread out over FY20-24.	
Regional Study on Nature based systems	\$248,811	\$248,811	\$16,721	7%	-\$232,090	SFEI \$500K, expires 06/30/2023	
Regional Recycling Evaluation	\$63,525	\$63,525	\$0	0%	-\$63,525	HDR \$154K, expires 12/31/2023	
Nutrient Workshop(s)	\$0	\$0	\$0	0%	\$0	Pilot Studies/Plant Review/Innovative Technologies	
NMS Reviewer	\$50,000	\$50,000	\$0	0%	-\$50,000	M. Connor Contract	
General Tech Support	\$100,000	\$100,000	\$0	0%	-\$100,000	AB617 emissions factors, PFAS, other nutrient support	
CEC Investigations	\$140,000	\$140,000	\$0	0%	-\$140,000	PFAS Study Phase II	
Risk Reduction	\$12,500	\$12,500	\$0	0%	-\$12,500	APA FSS completed \$12,500 contract in FY20, CIEA will complete \$12,500 contract in FY23	
Total	\$2,514,836	\$2,514,836	\$1,064,761	42%	-\$1,450,075		
TOTAL EXPENSES	\$3,431,228	\$3,431,228	\$1,235,413	36.00%	-\$2,195,816		
PROJECTED EXPENSE DEVIATION FROM BUDGET		\$0					
NET INCOME BEFORE TRANSFERS	-\$578,733						
TRANSFERS FROM RESERVES	\$578,733					aligns with strategy of drawing down reserves to lessen impact of Nutrient Surcharge	
NET INCOME AFTER TRANSFERS	\$0						
TOTAL OPERATING BUDGET	\$916,392						

FY 2023
BACWA BUDGET to ACTUAL

<u>EXPENSES</u>							
	OPERATING RESERVE	\$229,098					

BACWA Fund Report as of October 31, 2022

BACWA FUND BALANCES - DATA PROVIDED BY ACCOUNTING DEPT.							
DEPTID	DESCRIPTION	FISCAL YEAR BEGINNING FUND BALANCE	TOTAL BILLED REVENUE TO-DATE	TOTAL DISBURSEMENTS TO-DATE	MONTH-ENDING FUND BALANCE	OUTSTANDING ENCUMBRANCES	MONTH-END UNOBLIGATED FUND BALANCE
600	BACWA	376,500	729,577	164,477	941,600	546,642	394,958
604	LEGAL RSRV	300,000	-	-	300,000	-	300,000
605	CBC	2,114,741	2,084,801	1,064,761	3,134,781	619,429	2,515,352
	SUBTOTAL 1	2,791,241	2,814,378	1,229,238	4,376,381	1,166,071	3,210,310
602	BABC	176,260	176,600	28,779	324,081	91,510	232,571
606	BACC	29,810	-	35,740	(5,930)	29,970	(35,900)
607	BACC LEGAL RSRV	30,000	30,000	-	60,000	-	60,000
610	WOT	270,974	-	-	270,974	-	270,974
	SUBTOTAL 2	507,044	206,600	64,519	649,125	121,480	527,645
	GRAND TOTAL	3,298,285	3,020,978	1,293,757	5,025,506	1,287,551	3,737,955

*Beginning fund balance adjusted October 2021 due to change in reported accounting basis.

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

BACWA INVESTMENTS BALANCES - DATA PROVIDED BY TREASURY DEPT.														
DEPTID	DESCRIPTION	FISCAL YEAR BEGINNING FUND BALANCE	TOTAL BILLED REVENUE TO-DATE	TOTAL DISBURSEMENTS TO-DATE	MONTH-ENDING FUND BALANCE	RECONCILIATION TO FINANCIAL STATEMENTS A/R	RECONCILIATION TO FINANCIAL STATEMENTS A/P	MONTH-END RECONCILED FUND BALANCE	UNINVESTED CASH BALANCES	LAIF INVESTMENTS AMOUNTS	LAIF INVESTMENTS PERCENTAGE	ALTERNATIVE INVESTMENTS AMOUNTS	ALTERNATIVE INVESTMENTS IDENTIFIERS	ALTERNATIVE INVESTMENT INSTRUCTIONS AND NOTES
800	BACWA	376,500	729,577	164,477	941,600	(353,572)	-	588,028	588,028	-	0%	-		priority # 3 for allocation
804	LEGAL RSRV	300,000	-	-	300,000	-	-	300,000	-	300,000	13%	-		priority # 1 for allocation
805	CBC	2,114,741	2,084,801	1,064,761	3,134,781	(475,754)	-	2,659,027	684,276	1,974,751	87%	-		priority # 2 for allocation
	SUBTOTAL 1	2,791,241	2,814,378	1,229,238	4,376,381	(829,326)	-	3,547,055	1,272,304	2,274,751	100%	-		
802	BABC	176,260	176,600	28,779	324,081	(26,150)	-	297,931	297,931	-	0%	-		pass-through funds, no allocation
806	BACC	29,810	-	35,740	(5,930)	-	-	(5,930)	(5,930)	-	0%	-		
807	BACC LEGAL RSRV	30,000	30,000	-	60,000	-	-	60,000	60,000	-	0%	-		
810	WOT	270,974	-	-	270,974	-	-	270,974	270,974	-	0%	-		pass-through funds, no allocation
	SUBTOTAL 2	507,044	206,600	64,519	649,125	(26,150)	-	622,975	622,975	-	0%	-		
	GRAND TOTAL	3,298,285	3,020,978	1,293,757	5,025,506	(855,476)	-	4,170,030	1,895,279	2,274,751	-	-		

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

Reconciliation to Trial Balance

Per Report above:

General	2,814,378	STB	14930	2,274,751
WOT, BABC, & BACC	206,600	STB	15050	1,895,279
PROP	-	STB	16300	855,476
subtotal	3,020,978	STB	21350	-
				5,025,506

Trial Balance Revenue Accounts

40100	Interest	(12,151)
40101	Mem Contrib	(1,378,100)
40102	Transfer	(30,000)
40103	Assoc Contrib	(186,845)
40104	Other	(1,413,882)
47310	State Grant	-
47320	Grant Retention	-
subtotal		(3,020,978)
Difference		-

BACWA Revenue Report as of October 31, 2022

Cost Center Code	Cost Center Description	Program Segment Description	Program Segment Value	Amended Budget	Current Period	FY23 - Year to Date	Unobligated
600	Bay Area Clean Water Agencies	BABC - AED and RPM Support	6200	(6,000.00)	-	-	6,000.00
		BACC - AED Support	6199	(36,000.00)	-	-	36,000.00
		BDO Affil/CS/Assoc Dues	6104	-	-	(38,846.00)	(38,846.00)
		BDO Affiliate/Associate Dues	6103	-	-	(43,575.00)	(43,575.00)
		BDO Assoc.&Affiliate Contr	6102	(187,793.00)	-	(104,424.00)	83,369.00
		BDO Fund Transfers	6141	(5,202.00)	-	-	5,202.00
		BDO Member Contributions	6101	(527,250.00)	-	(527,250.00)	-
		BDO Non-Member Contr AIR	6136	(7,217.00)	-	(1,344.00)	5,873.00
		BDO Non-Member Contr BAPPG	6135	(4,033.00)	-	(9,905.00)	(5,872.00)
		BDO Other Receipts	6105	-	-	-	-
		BDO Other Receipts (Misc)	6140	-	-	(2,653.00)	(2,653.00)
		BDO- Interest Income from LAIF	6142	(4,000.00)	(1,002.75)	(1,579.60)	2,420.40
		BDO-Alternative Investment Inc	6143	-	-	-	-
600 Total				(777,495.00)	(1,002.75)	(729,576.60)	47,918.40
602	Bay Area Biosolids Coalition	BDO Fund Transfers	6141	-	-	-	-
		BDO Member Contributions	6101	-	-	(176,600.00)	(176,600.00)
602 Total				-	-	(176,600.00)	(176,600.00)
605	Clean Bay Collaborative	BDO Fund Transfers	6141	-	-	-	-
		BDO Member Contributions	6101	(675,000.00)	-	(674,250.00)	750.00
		BDO Other Receipts	6105	(1,400,000.00)	-	(1,399,980.00)	20.00
		BDO- Interest Income from LAIF	6142	-	(6,710.71)	(10,571.17)	(10,571.17)
605 Total				(2,075,000.00)	(6,710.71)	(2,084,801.17)	(9,801.17)
606	Bay Area Chemical Consortium	BDO Member Contributions	6101	-	-	-	-
606 Total				-	-	-	-
607	BACC Legal RSRV	BDO Fund Transfers	6141	-	-	(30,000.00)	(30,000.00)
607 Total				-	-	(30,000.00)	(30,000.00)
Grand Total				(2,852,495.00)	(7,713.46)	(3,020,977.77)	(168,482.77)

BACWA Expense Detail Report for October 31, 2022

Cost Center Code	Program Segment Description	Program Segment Value	Balance Type	Current Period Activity	FY23 - Year to Date
600	AIR-Air Issues&Regulation Grp	6153	Actual	15,018.75	26,163.50
			Encumbrance	(15,018.75)	68,836.50
			Obligated	-	95,000.00
	AS-Assistant Executive Directo	6175	Actual	-	24,665.23
			Encumbrance	-	61,338.77
			Obligated	-	86,004.00
	AS-Audit Services	6180	Actual	-	(534.00)
			Encumbrance	-	534.00
			Obligated	-	-
	AS-BACWA Admin Expense	6173	Actual	-	-
			Obligated	-	-
	AS-EBMUD Financial Services	6176	Actual	-	-
			Encumbrance	-	43,297.00
			Obligated	-	43,297.00
	AS-Executive Director	6174	Actual	17,020.83	34,041.66
			Encumbrance	(17,020.83)	170,208.34
			Obligated	-	204,250.00
	AS-Insurance	6177	Actual	-	7,571.20
			Obligated	-	7,571.20
	AS-Regulatory Program Manager	6179	Actual	-	36,611.74
			Encumbrance	-	105,611.26
			Obligated	-	142,223.00
	Administrative Support	6178	Actual	-	-
			Obligated	-	-
	BC-BAPPG	6152	Actual	16,508.28	27,971.71
			Encumbrance	(16,508.28)	78,297.87
			Obligated	-	106,269.58
	BC-InfoShare Groups	6148	Actual	-	-
			Obligated	-	-
	BC-Laboratory Committee	6149	Actual	780.00	1,511.25
			Encumbrance	(780.00)	3,688.75
			Obligated	-	5,200.00
	BC-Manager's Roundtable	6154	Actual	-	-
			Obligated	-	-
	BC-Miscellaneous Committee Sup	6150	Actual	-	-
			Encumbrance	-	-
			Obligated	-	-
	BC-Permit Committee	6145	Actual	-	-
			Obligated	-	-
	BC-Pretreatment Committee	6151	Actual	-	-
			Obligated	-	-
	BC-Water Recycling Committee	6146	Actual	-	-
			Encumbrance	-	9,650.00
			Obligated	-	9,650.00
	CAR-BACWA File Storage	6165	Actual	-	-
			Obligated	-	-
	CAR-BACWA IT Software	6167	Actual	-	403.64
			Obligated	-	403.64
	CAR-BACWA IT Support	6166	Actual	-	-
			Encumbrance	-	-
			Obligated	-	-
	CAR-BACWA Website Dev/Maint	6163	Actual	-	-
			Obligated	-	-
	CAR-BACWA Website Hosting	6164	Actual	-	-
			Obligated	-	-
	CAS-Arleen Navaret Award	6160	Actual	-	-

Cost Center Code	Program Segment Description	Program Segment Value	Balance Type	Current Period Activity	FY23 - Year to Date
			Obligated	-	-
	CAS-BayCAN	6204	Actual	-	-
			Obligated	-	-
	CAS-Misc Collaborative Sup	6162	Actual	-	-
			Obligated	-	-
	CAS-Stanford ERC	6159	Actual	-	-
			Obligated	-	-
	GBS-Meeting Support-Annual	6170	Actual	-	-
			Obligated	-	-
	GBS-Meeting Support-Exec Bd	6169	Actual	-	-
			Obligated	-	-
	GBS-Meeting Support-Misc	6172	Actual	675.00	2,639.15
			Obligated	675.00	2,639.15
	GBS-Meeting Support-Pardee	6171	Actual	100.00	3,432.19
			Obligated	100.00	3,432.19
	LS-Executive Board Support	6156	Actual	-	-
			Encumbrance	-	2,309.00
			Obligated	-	2,309.00
	LS-Regulatory Support	6155	Actual	-	-
			Encumbrance	-	2,871.00
			Obligated	-	2,871.00
	WQA-CE-Nature Based Solutions	6196	Actual	-	-
			Obligated	-	-
	Write-Off Doubtful Accounts	6208	Actual	-	-
			Obligated	-	-
600 Total			Actual	50,102.86	164,477.27
600 Total			Encumbrance	(49,327.86)	546,642.49
600 Total			Obligated	775.00	711,119.76
602	AS-Assistant Executive Directo	6175	Actual	-	-
			Obligated	-	-
	AS-Regulatory Program Manager	6179	Actual	-	-
			Obligated	-	-
	Academia Research & Development	6203	Actual	-	-
			Obligated	-	-
	Administrative Support	6178	Actual	-	289.88
			Obligated	-	289.88
	BDO Contract Expenses	6186	Actual	-	-
			Obligated	-	-
	Collateral Development	6197	Actual	-	-
			Obligated	-	-
	Program Manager Expense	6202	Actual	8,837.75	28,490.04
			Encumbrance	(8,837.75)	91,509.96
			Obligated	-	120,000.00
	Technology Research & Development	6206	Actual	-	-
			Obligated	-	-
602 Total			Actual	8,837.75	28,779.92
602 Total			Encumbrance	(8,837.75)	91,509.96
602 Total			Obligated	-	120,289.88
605	Recycled Water Evaluation	6198	Actual	-	-
			Encumbrance	-	23,992.35
			Obligated	-	23,992.35
	WQA - CEC Investigations	6201	Actual	-	-
			Encumbrance	-	260,626.00
			Obligated	-	260,626.00
	WQA-CE Addl Work Under Permit	6191	Actual	-	48,040.00
			Encumbrance	-	43,398.00
			Obligated	-	91,438.00
	WQA-CE Risk Reduction	6190	Actual	-	-
			Encumbrance	-	-

Cost Center Code	Program Segment Description	Program Segment Value	Balance Type	Current Period Activity	FY23 - Year to Date
			Obligated	-	-
	WQA-CE Voluntary Nutr Contrib	6193	Actual	-	-
			Obligated	-	-
	WQA-CE-Nature Based Solutions	6196	Actual	-	16,721.17
			Encumbrance	-	241,412.33
			Obligated	-	258,133.50
	WQA-CE-Nutrient WS Permit Comm	6188	Actual	-	1,000,000.00
			Obligated	-	1,000,000.00
	WQA-CE-Technical Support	6181	Actual	-	-
			Obligated	-	-
	WQA-NMSReviewer	6205	Actual	-	-
			Encumbrance	-	50,000.00
			Obligated	-	50,000.00
605 Total			Actual	-	1,064,761.17
605 Total			Encumbrance	-	619,428.68
605 Total			Obligated	-	1,684,189.85
606	Administrative Support	6178	Actual	-	5,740.12
			Encumbrance	-	29,970.00
			Obligated	-	35,710.12
	BDO Fund Transfers	6141	Actual	-	30,000.00
			Obligated	-	30,000.00
606 Total			Actual	-	35,740.12
606 Total			Encumbrance	-	29,970.00
606 Total			Obligated	-	65,710.12
610	Administrative Support	6178	Actual	-	-
			Obligated	-	-
	BDO Contract Expenses	6186	Actual	-	-
			Obligated	-	-
610 Total			Actual	-	-
610 Total			Encumbrance	-	-
610 Total			Obligated	-	-
Grand Total Actual				58,940.61	1,293,758.48
Grand Total Encumbrance				(58,165.61)	1,287,551.13
Grand Total Obligated				775.00	2,581,309.61



EXECUTIVE DIRECTOR AUTHORIZATION REQUEST

AGENDA NO.:

DATE: December 16, 2022

TITLE: Executive Director Authorization for FY23 Contract with ChemVal for TNI Training.

RECOMMENDED ACTION

BACWA Executive Director authorization for \$4,000 FY23 Contract with ChemVal Consulting, Inc., to provide two TNI training sessions to the BACWA Laboratory Committee.

SUMMARY

In May 2020, the State Water Board adopted new comprehensive regulations for the Environmental Laboratory Accreditation Program, which became effective on January 1, 2021 and with compliance required beginning January 1, 2024. The new ELAP regulations replace the previous state-specific accreditation standards with a national laboratory standard established by The NELAC Institute (TNI). Adoption of TNI standards poses a challenge since there are more than 1,000 individual requirements. BACWA's laboratory committee is committed to supporting its members by providing trainings and sharing information on the TNI transition.

Laboratory Committee leadership solicited ChemVal Consulting, Inc., a small firm with expertise in TNI audits, to offer two webinar training sessions on microbiology and toxicity testing requirements. The training sessions will each be 2 hours long, and ChemVal will provide 3 hours of post-presentation time to answer additional questions that could not be addressed during the presentation. The sessions will provide participants guidance on understanding and implementing microbiology and toxicity testing requirements for the TNI 2016 Standard, Rev 2.1.

FISCAL IMPACT

The not-to-exceed \$4,000 contract would be funded through the Miscellaneous Committee Support line item in BACWA's approved FY23 Budget.

ALTERNATIVES

Do not authorize contract. This alternative is not recommended, since the BACWA Laboratory Committee leadership has recommended these trainings as an important service to support our members during this transition.

Attachment: Contract with ChemVal Consulting, Inc.

Approved:

Date:

December 4, 2022

Lorien Fono
Executive Director, BACWA

Date: 12/5/22

BAY AREA CLEAN WATER AGENCIES

CONSULTING AGREEMENT

TO:	John Gumpfer ChemVal Consulting, Inc. 2940 E Oakridge Dr. Salt Lake City, UT 84109	jgumpfer@chemval.com Phone: 801-274-8480
FROM:	Lorien Fono, Executive Director BACWA PO Box 24055, MS702 Oakland, CA 94623	lfono@bacwa.org Phone: 510-684-2993

RE: BACWA Agreement for FY23 TNI Training Sessions for BACWA Laboratory Committee

This Agreement covers professional services to be performed by ChemVal Consulting, Inc. to provide two virtual training sessions for the BACWA Laboratory Committee. This work is described in the attached Scope of Work (Exhibit A) and will be performed under the direction of Samantha Bialorucki, BACWA Laboratory Committee Chair. The total cost of professional services to be performed by ChemVal Consulting, Inc. is not to exceed \$4,000. This contract will be funded by the BACWA Budget under the Miscellaneous Committee line item.

This Agreement may be terminated by either party at any time for convenience with 30 day's notice. In the event of termination by BACWA, BACWA shall pay ChemVal Consulting, Inc. for professional and competent services rendered to the date of termination upon delivery of assigned work products to BACWA. The term of this agreement shall extend through June 30, 2023.

ChemVal Consulting, Inc. shall submit invoices to the BACWA Assistant Executive Director via e-mail. Invoices will be paid within thirty (30) days of receipt.

BACWA Assistant Executive Director E-mail: Jennifer Dymant jdymant@bacwa.org

Approved:

By _____
Lorien Fono
Executive Director, BACWA

By _____
John Gumpfer, ChemVal Consulting, Inc.

Date _____

Date _____

BACWA EIN: 94-3389334

Tax ID: _____

EXHIBIT A

Proposal from ChemVal Consulting, Inc.

ChemVal Consulting, Inc. (ChemVal) will prepare two training sessions for BACWA, one each for TNI 2016 EL1 V1M5 (Quality Systems for Microbiological Testing) and V1M7 (Quality Systems for Toxicity Testing).

The virtual training sessions will be presented in January and February 2023, or upon other mutually agreeable dates in FY23. The training sessions will be recorded by BACWA and will be made available to BACWA members for up to one year after the date of each training session. After that, BACWA will delete the recording or otherwise render it unusable and unretrievable.

Each presentation will be 2 hours long, including an hour of post-presentation questions. Additionally, ChemVal will provide 3 hours of post-presentation time to answer additional questions that could not be addressed during the presentation.

The cost estimate for each presentation is \$2,000.

Upcoming NMS Deliverables

List of work products below, along with when they will be available. Dec 2022 indicates that they will be included in a shared folder by end of this week

- HAB synthesis
early/mid-January 2023
- Delta Net ecosystem metabolism technical report/manuscript
Dec 2022
- Delta biogeochemistry (project update)
Dec 2022
- South Bay sediment biogeochemistry technical report
Dec 2022
- Water Quality Trends, CB and SB
mid-Jan 2023
- South Bay shoal synth #1
mid-Jan 2023
- Factors regulating major events in South Bay
mid-Jan 2023
- LSB Dissolved oxygen, VPA draft report
Dec 2022
- Phytoplankton/HABs data viewer (IFCB)
Dec 2022 <https://sfeinms.shinyapps.io/IFCBviewer/>
- Phytoplankton/HABs data viewer (sequencing)
Dec 2022 <https://sfeinms.shinyapps.io/MolecularViewer/>
- LSB metabolism, journal article
Dec 2022

Planning Subcommittee (PSC) Meeting No. 71
November 18, 2022
1 pm – 3 pm
Teleconference
Chair: Eric Dunlavey
Meeting Notes

Attendees: Eric Dunlavey, Dave Senn, Kevin Lunde, Ian Wren, Richard Looker, Ariella Chelsky, Lorien Fono.

1. Previous Action items from the planning subcommittee:

- Water Board to synthesize Lake Merritt Monitoring data (approx. 2 months)
- BACWA to deliver short term scenarios to the NMS for testing by the end of March
- SFEI to circulate updated FY23 funding proposal with reallocations to Steering Committee – This will be a general overview of funding reallocations and shortfalls. The Planning Subcommittee we determine how to make up the shortfall.
- SFEI to compile list of other unfunded program needs to respond to HAB

Steering committee action items

- Develop high level synthesis material to communicate nutrient science program to decision makers – ongoing
- Tom will communicate about the SEP fund allocation once the settlement is finalized - \$185K was received and directed toward shoal mapping work and do interpretation of two years worth of shoal data analysis.

2. Science Program Update

NOAA put out an RFP for their HAB program, MERHAB. SFEI will be proposing to take methods that have been established in the technical world and making them operational – for example using molecular techniques. They will be teaming with researchers from the Delta, but focusing the proposal on marine systems. This would result in an integrated detection program baywide. The team was invited to submit a full proposal. Dave asked for Water Board and Baykeeper participation in this project. A key aim of this group will be to provide a bridge to the management questions. Baykeeper would manage a citizen science effort.

Dave has been asked to present on work completed regarding the algal boom to the RMP. This will not explicitly be connected to the funding shortfall, but it should be implicit in the presentation, and educate the TRC about what is needed for minimum event response. Richard noted that the SC discussed the need to plan for monitoring associated with special events (fires, HABs, oil spills, etc.), but RMP staff recognized there was no

bandwidth to do that. So, as a possible suggestion for how to make overtures for allocating available RMP resources would be: "hey, there is bandwidth within NMS to do planning around HABs, but no money. RMP has money but no bandwidth!" that work for planning for monitoring for future HAB event is a broad enough mandate to cover work that would meet needs of NMS and RMP most likely. Tom proposed that the NMS should develop a minimum event response.

There was a discussion about the use of remote imaging, and how we could collaborate with the State Water Board. Tom will work with Dave to engage with them and make connections with the right staff.

3. *Priority Updates*

4. *Discussion/Planning Topics*

12/9 Steering committee agenda

There is 1.5 hours allocated for discussion about the summer 2022 algal bloom, including two presentations on modeling efforts. The Steering committee will be asked for a decision regarding scope and budget modifications as a result of the bloom.

Dave shared priorities for new funds needed this fiscal year. Imaging flow cytobots have been deployed on all the cruises. The team has started working on a shinyapp to show five priority HAB species from 2020 to the present. This effort is somewhat held up by the public university strike.

The discussion around the SC will focus on reprioritization, what an early warning system would look like, and how to respond to it, and what elements could be funded in the future.

We're not sure who will be replacing Terry from EBMUD. Now that Eileen, who was previously a BACWA voting member has left EBMUD, the two voting members from BACWA are Eric Dunlavey and Jackie Zipkin.

Participation in advisory groups

There was a discussion about how to frame the issue of advisory groups participation by stakeholders. Since there is a difference in opinion among the planning subcommittee, Dave is proposing to solicit feedback from the Steering Committee, but not at this week's meeting.

5. Upcoming schedule:

December 9 SC. The next steering committee will be in February. We will decide whether to schedule an NTW meeting in early 2023.

6. Action items:

- Water Board to synthesize Lake Merritt Monitoring data (approx. 2 months)
- BACWA to deliver short term scenarios to the NMS for testing by the end of March
- Restart action item table

Planning Subcommittee (PSC) Meeting No. 72
December 7, 2022
9:30 am – 12 pm
Teleconference
Chair: Ian Wren
Meeting Notes

Attendees: Eric Dunlavey, Dave Senn, Kevin Lunde, Ian Wren, Richard Looker, Ariella Chelsky, Lorien Fono.

1. Previous Action items from the planning subcommittee:

- Water Board to synthesize Lake Merritt Monitoring data (approx. 2 months)
- BACWA to deliver short term scenarios to the NMS for testing by the end of March
- SFEI to circulate updated FY23 funding proposal with reallocations to Steering Committee – This will be a general overview of funding reallocations and shortfalls. The Planning Subcommittee we determine how to make up the shortfall.
- SFEI to compile list of other unfunded program needs to respond to HAB – to be discussed later in the agenda.

Steering committee action items

- Develop high level synthesis material to communicate nutrient science program to decision makers – ongoing
- Tom will communicate about the SEP fund allocation once the settlement is finalized - \$185K was received and directed toward shoal mapping work and do interpretation of two years' worth of shoal data analysis.

2. Science Program Update

NOAA put out an RFP for their HAB program, MERHAB. SFEI will be proposing to take methods that have been established in the technical world and making them operational – for example using molecular techniques. They will be teaming with researchers from the Delta, but focusing the proposal on marine systems. This would result in an integrated detection program baywide. The team was invited to submit a full proposal. Dave asked for Water Board and Baykeeper participation in this project. A key aim of this group will be to provide a bridge to the management questions. Baykeeper would manage a citizen science effort.

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with special events (fires, HABs, oil spills, etc.), but RMP staff recognized there was no bandwidth to do that, which there is bandwidth within NMS to do planning around HABs, but no money. Work for planning for monitoring for future HAB event is a broad enough mandate to cover work that would meet needs of NMS and RMP most likely. Tom proposed that the NMS should develop a minimum event response.

There was a discussion about the use of remote imaging, and how we could collaborate with the State Water Board. Tom will work with Dave to engage with them and make connections with the right staff.

3. *Priority Updates*

N/A

4. *Discussion/Planning Topics*

12/9 Steering committee agenda

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Participation in advisory groups

There was a discussion about how to frame the issue of advisory groups participation by stakeholders. Since there is a difference in opinion among the planning subcommittee, Dave is proposing to solicit feedback from the Steering Committee, but not at this week's meeting. He also noted that we have two expert working meetings planned: One in Feb (MAG) and one Jan-Feb (AF experts).

5. Upcoming schedule:

December 9 SC. The next steering committee will be in February.

6. Action items:

- Water Board to synthesize Lake Merritt Monitoring data (approx. 2 months)
- BACWA to deliver short term scenarios to the NMS for testing by the end of March
- Restart steering committee action item table

DRAFT

To: NMS Steering Committee

12/9/2022

Re: Aug2022 HAB event, effects on FY2023 Program Plan workflow and priorities

San Francisco Bay experienced a major harmful algal bloom HAB event in Aug 2022. SFEI and regional collaborators (USGS Water Science Center, Baykeeper, UCSC, and others) conducted intensive field studies during Aug-Sep 2022 to investigate the bloom and monitor the impacts to water quality and biota. (see emails and [briefings](#) shared with NMS-SC in Aug-Sep 2022).

SFEI staff were in frequent communication with the NMS Planning Subcommittee (NMS-PS) throughout the HAB-event to plan the NMS response. Recognizing the HAB-event's severity and its relevance to nutrient management decisions in SFB, the NMS-PS authorized SFEI to pause some [FY2023 Program Plan](#) work and redirect effort toward investigating the in-progress HAB event.

This memo summarizes:

1. Proposed changes to FY2023 projects that were impacted by the HAB-response, including: projects with timelines that have been delayed but their scopes remain unchanged; and projects for which changes are recommended to both scope and timeline.
2. Proposed allocation of funding from NMS reserves to support the HAB-response field work, and to support the related analysis/synthesis of data and report preparation.

1. Proposed Changes to FY2023 Projects (focusing primarily on scope changes)

Projects that received FY2023 funding are shown in Table 1, with status or proposed change indicated in the column 'change?' as follows:

- *Dark green*: not appreciably impacted by the HAB-event, no recommended changes to scope or timeline.
- *Light green, yellow*: no proposed scope changes, but timeline delays, minor/moderate delay (light green, delay ~ 3-5 months) and moderate/major delay (yellow, delay ~ 6-9 months).
- *Red*: Delay and proposed scope change

Table 1 NMS Projects receiving FY2023 funds

		Total FY23 Budget	change?
Core Program			
C1	Monitor: ship-based sampling	\$400,000	
C2	Monitor: moored sensor network	\$450,000	
C3	Core Modeling	\$500,000	delay; scope change
C4	Science Program Coord. & Program Mngmnt	\$700,000	delay; scope change
Projects			
P1	Biogeochemistry Rate Measurements: South Bay	\$60,000	
P2	Assessment Framework OpenBay (chl, DO, HABs)	\$150,000	delay, possible scope change
P3	Assessment Framework LSB slough/creek DO	\$115,000	
P4	Model Advisory Group	\$25,000	
P5	Developing High-level Synthesis Products	\$30,000	delay, no scope change
P6	Multiyear report	\$65,000	delay, no scope change
P7	Technical Synthesis	\$50,000	delay, no scope change
P8	Shoal Mapping, fieldwork	\$130,000	
P9	Shoal Mapping, data analysis/synthesis	\$55,000	delay, no scope change

Proposed Changes to Project Scopes

C3 Core Modeling:

- During Jul-Aug, C3 work focused on the projects identified in the FY2023 Program Plan; work proceeded well.
- Beginning in late Aug, work shifted to modeling related to the HAB event, including numerical experiments to evaluate key processes or forcings, and/or model development to simulate the HAB event (e.g., hydrodynamics for May-Sep 2022; tracer studies and other numerical experiments, hypothesis testing, including evaluating the importance of phytoplankton-swimming; testing/implementing refinements to simulate event: capture key features of the HAB event and water quality responses. (~2-3 months of 2 FTEs, Sep-Dec 2022).

- For Jan-Dec2023, an increasing portion of the modeling team's effort will return to pursuing the original FY2023 work (25-50%).
- Further proposed changes to the FY2023 Core Modeling scope include:
 - continued HAB-event modeling work to increase understanding of the event
 - continued model development toward predictive-mechanistic model
 - apply model to assess whether any future events, in the near-term, could be mitigated with emergency management actions
- *Proposed change in scope and timeline:* Authorization to invest C3 effort on HAB event interpretation, and HAB model development for the Aug-2022 event.

C4 Program Coordination:

- The primary changes to C4's scope stem from DS's time being shifted primarily to working on the HAB event from Aug-Dec 2023:
 - this impacted engagement on other projects, i.e., initiating synthesis work, making technical contributions to on-going projects, etc., which led to some of the delays in other projects in Table 1;
 - putting other program management activities on the back-burner (e.g, website content, recruiting a program manager, etc.).
- *Proposed change in scope and timeline:* Authorization to invest C4 effort on HAB event interpretation.

P2 Deep Subtidal AF Development

- Although some work moved ahead on this project in July and August 2022, work was paused by mid-August, resulting in P2 being 4-5 months behind the schedule proposed in the FY2023 Program Plan.
- In addition, the management implications of the HAB event may change the approach or focus of the Deep Subtidal AF development. Through discussions with WB staff it is clear that, at a minimum, it is necessary to reevaluate and potential rescope
- *Proposed change in scope and timeline:* Jan-Feb 2023: Convene 3-4 meetings with WB staff to : assess how/if the HAB event affects the focus or approach to AF development, in particular in terms of WB needs related to decisions for Permit #3; develop a revised approach and timeline by end of Feb 2023; Mar 2023: begin implementing revised plan.

2. HAB-response Project: field studies, data analysis/synthesis, report preparation

- *Field Work, Sample Analysis, and Aug-Sep data management and analysis:*
 - 5 mapping surveys (including additional staffing); discrete sample analysis (nutrients, chl-a, 18s/16s sequencing, viruses, microscopy, and processing of analysis if IFCB and molecular data for quantifying protists/grazers)
 - Estimated Cost: \$135,000
- *Data Analysis/Synthesis, and technical report/manuscript preparation*
 - Estimated Cost: \$100,000
- *Total: \$235,000*
- *Source of funds:* We are continuing to evaluate options (including fundraising), and will update the NMS-SC at the Feb/Mar 2023 meeting. [Worst case scenario: use funds from FY2024 to cover any remaining funding shortfalls]



NUTRIENTS IN SAN FRANCISCO BAY REGION WASTEWATER

A harmful algae bloom event occurred in San Francisco Bay (SF Bay), beginning in late July 2022. Discolored waters in the Oakland estuary were an early indication of the presence of the algae species *Heterosigma akashiwo*. This species of algae may produce substances that are toxic to fish, but has not been shown to be harmful to humans. The algae bloom subsequently spread between the Bay Bridge and the Dumbarton Bridge, and extended into other regions of the Bay.

The bloom peaked in late August and began to die off by August 31, which caused substantial decreases in the amount of dissolved oxygen in the water. As oxygen levels declined, a significant fish die-off was observed in multiple locations around the Bay.

Since algae need nutrients to grow, regulators, wastewater agencies, and scientists are continuing to examine how nutrients are managed in the SF Bay region. **Below are answers to frequently asked questions about nutrients in the SF Bay.**

What are “nutrients” and why are they in wastewater?

Nutrients, along with light exposure, are essential to the process of photosynthesis which is how plants like algae grow. In the San Francisco Bay ecosystem, nitrogen is the primary nutrient of concern since decreasing nitrogen can limit algal growth. Nitrogen in wastewater mostly comes from human urine.

What role did nutrients play in the 2022 algal bloom?

We don't know what started the algal bloom, but once it began, the algae were able to use nutrients in the SF Bay to grow and extend throughout much of the region. In recent years, wastewater treatment plants have decreased the amount of nitrogen they add to the SF Bay, so we know that the bloom was not triggered by an increase in nitrogen in 2022.

What role do nutrients play in nature?

Nutrients are necessary for healthy ecosystems to produce algae, which are necessary to support life in all water bodies. However, under certain conditions, over-enrichment of nutrients can lead to too much algal growth. As the algae die off and decompose, oxygen in the water is depleted, causing harm to fish and wildlife. In addition, some algal species can produce toxins that directly harm aquatic life.

What fraction of nutrient loads to the SF Bay are from wastewater treatment plants?

Approximately 2/3 of the nutrients that are added to the SF Bay come from the 37 wastewater treatment plants in our region that discharge to SF Bay. The remaining 1/3 comes from the Sacramento River Delta and stormwater runoff.

What role did climate change play in the 2022 SF Bay algal bloom?

Algae are plants, and need light to grow.

During Summer 2022, there were two unusual conditions in the SF Bay – less fog and clearer water than usual.

These two factors are linked to climate change and increased the amount of sunlight available to the algae, potentially contributing to the start of, and growth, of the bloom.



NUTRIENTS IN SAN FRANCISCO BAY REGION WASTEWATER

Why don't wastewater treatment plants around the SF Bay remove nutrients?

14 of the 37 wastewater treatment plants in the region have enhanced nutrient removal, and several more are in the process of implementing upgrades to further reduce nutrients. Enhanced nutrient removal is very costly and has not historically been required in the SF Bay, because the ecosystem had been considered resilient to harmful algae blooms. This resilience has been attributed to tidal mixing, low water clarity which limits algal growth, and a large population of organisms, such as clams, that feed on algae. With water clarity increasing due to upstream dams capturing sediment, and a decrease in clam populations, this resiliency may be decreasing, as shown by the 2022 algal bloom.

What will it cost to reduce nutrient loads from wastewater treatment plants?

Upgrading all wastewater treatment plants to remove nutrients to the lowest levels feasible could cost the region over twelve billion dollars.

Unless significant federal or state infrastructure grants become available to our region for nutrient removal, ratepayers would need to pay for these upgrades through increases in their wastewater bills.

How are nutrients in wastewater regulated in the SF Bay Area?

Nutrients are regulated via a Watershed Permit, which is administered by the San Francisco Regional Water Quality Control Board.

The current Watershed Permit requires wastewater treatment plants to:

1. Measure and report the amount of nutrients they discharge to the SF Bay;
2. Provide financial support to a Nutrient Management Strategy (NMS) Science Program to understand the impacts of nutrients on the SF Bay water quality; and
3. Investigate alternatives for reducing nutrients in wastewater discharge.

The next Watershed Permit, which will be adopted in 2024, is currently under development and will further address nutrient management in the SF Bay region.

How can the investments that SF Bay Area wastewater agencies have made in the NMS Science Program help us understand the bloom, and plan our next steps?

Over the past decade, wastewater agencies have invested more than \$14 million dollars in science programs to study the impacts of nutrients in the SF Bay. The scientists involved with the NMS, a science program housed at the San Francisco Estuary Institute, have:

1. Developed a monitoring network to observe impacts that may be linked to nutrients;
2. Performed studies to better understand the biological and chemical processes affecting nutrients in the SF Bay; and
3. Built a numerical model to better understand and predict the impacts of nutrients on biological and chemical processes in the SF Bay.

As wastewater agencies move to implement projects that will reduce nutrients in the SF Bay, they will work closely with the NMS science program and use the tools and monitoring stations in place to understand how these changes will benefit water quality in the SF Bay.



AIR ISSUES & REGULATIONS COMMITTEE
A Committee of the Bay Area Clean Water Agencies

BAAQMD-BACWA Statewide Two-Step Process: Air Toxics

December 7, 2022

1

Meeting Objectives

- Provide overview of CARB statewide Two-Step Process, timeline, and budget estimate
- Understand linkages between the statewide Two-Step Process and BAAQMD regulations (e.g., Rule 11-18)
- Engage BAAQMD staff in statewide Two-Step Process
- Receive input from BAAQMD (throughout the Two-Step Process)



AIR ISSUES & REGULATIONS COMMITTEE
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2

Criteria Pollutants & Toxics Reporting and Air Toxics “Hot Spots” Program Updates

- AB 617 gave CARB authority to harmonize air monitoring, reporting, & emission reductions from stationary sources
- AB 2588 Hot Spots compound list expanded from >500 to >1,700 compounds
- Key Issues:
 - Many compounds have unknown toxicity levels
 - Many compounds have unknown emission factors
 - Many compounds are not relevant to WWTPs
- Phased compliance permits WWTPs to report business-as-usual through 2028 while...
- WWTPs perform a “two-step process” to determine shortlist of relevant compounds



How can WWTPs comply with the updated CTR and Air Toxics “Hot Spots” Programs?

- Wastewater Sector to perform Two-Step Process:
 1. Scan air space of treatment processes to determine detectable compounds
 2. Quantify emissions (Mimic 1990 Pooled Emissions Estimation Program)



First (scanning) step is complex, need air district input

- While 1990 PEEP focused on VOCs, this study considers several families of compounds
- GC-MS scanning captures VOCs, but will not capture all families of compounds in the AB 2588 list
- Working with Air Districts to determine an approvable and consistent approach for identifying compounds to move into the second (quantification) step

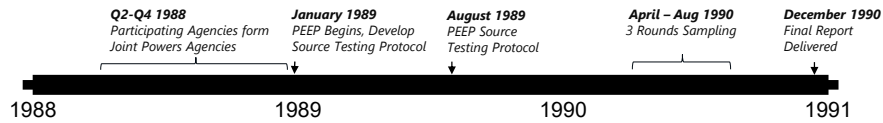


Second (quantification) step to mimic 1990 PEEP

- **1990 PEEP: Pooled Emissions Estimation Program**
- **Purpose:** Provide the wastewater sector a standard estimation methodology for determining air toxics emissions from respective facilities.
 - 25 CA POTWs formed a JPA
 - 18 processes (liquid, solid, gas)
 - 20 sites (managed as north and south)
 - 3 rounds of sampling over 11 months
 - Budget: ~\$2.5M (1990)
 - Project duration: ~2 years (1989-1990)
- **Result:** Short-list of VOCs and emissions factors.



1990 PEEP Timeline for Reference



Compounds targeted:

23 Volatile Organic Compounds (VOCs) for raw wastewater, non-combustion processes, and combustion processes.

Two-Step Process to look at a broader set of compounds and regions, therefore expect it to take ~4-5 years and cost \$5-10 M.

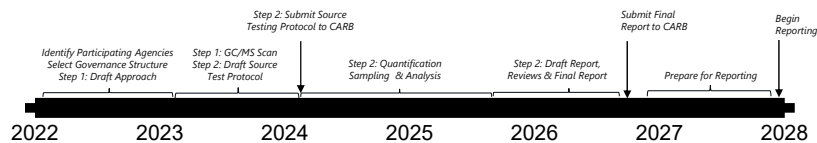
Processes targeted:

- Aerated Grit Chamber
- Primary Sedimentation Tanks
- Diffused Air Activated Sludge
- Mechanically-Mixed Air Activated Sludge
- Pure Oxygen Activated Sludge
- Trickling Filters
- Secondary Clarifiers
- Tertiary Filters
- Chlorine Contact Tank
- Dechlorination Facilities
- Dissolved Air Flotation Thickeners
- Gravity Sludge Thickeners
- Anaerobic Digesters
- IC Engines
- Digester Gas Fired Boilers
- Belt Filter Press
- Sludge Centrifuge
- Sludge Drying Beds

How can WWTPs comply with the updated CTR and Air Toxics "Hot Spots" Programs?

• Two-Step Process:

1. Scan air space of unit processes to determine detectable compounds
2. Quantify emissions (Mimic 1990 Pooled Emissions Estimation Program)

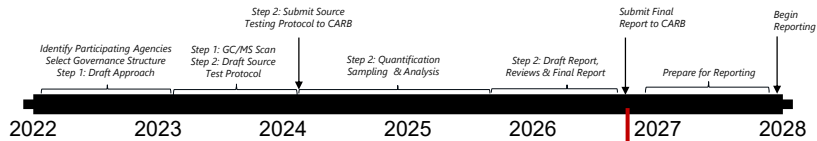


Result: Short-list of compounds and emissions factors (to inform Rule 11-18)

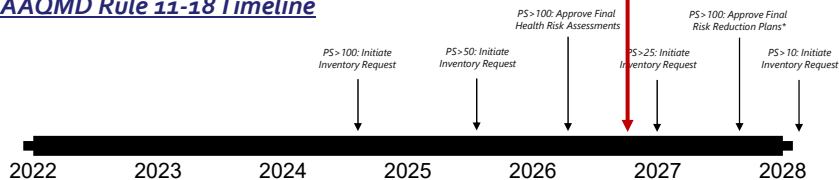


How can CARB's "Two-Step Process" inform BAAQMD's Rule 11-18 process?

CARB AB 617 Two-Step Process Timeline



BAAQMD Rule 11-18 Timeline



*If applicable.

Summary and Next Steps

- California Association of Sanitation Agencies (CASA) is supporting the wastewater sector in coordinating statewide process and eventually hiring a team to perform the Two-Step Process
- CASA outreach to Air Districts, CAPCOA, and CARB is underway – need to work together to develop an approvable approach for Steps 1 and 2
- Prioritize establishing approach for Step 1 and confirming POTWs participating in field scanning to:
 - Estimate budget and POTW contributions
 - Draft a schedule and support from POTW staff



THANK YOU!



11

Questions

- What data quality does BAAQMD need to modify or establish emission factors in the BAAQMD database?
- Is there any sample frequency, sample methods, etc. that are required/recommended by BAAQMD?
- What data do you need from this group to support the plan?



12

ADDITIONAL SLIDES



13

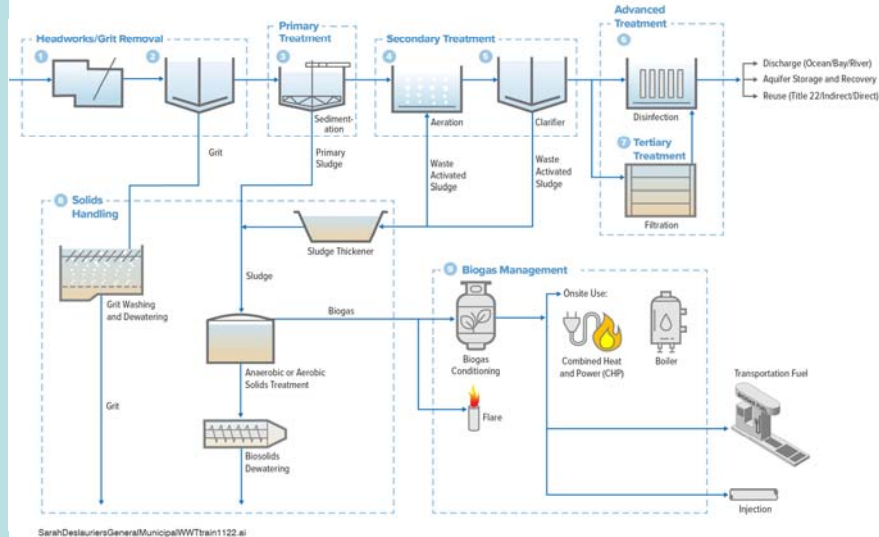
Two air toxics related regulatory programs were updated as of 2020...

- AB 617: Criteria Air Pollutant/Toxic Air Contaminant Reporting
 - Implements statewide annual reporting of criteria air pollutant and toxic air contaminant emissions data from facilities. It establishes new policies to improve emissions inventory data (which is critical to understanding the sources of emissions contributing to adverse health risks or other impacts at the local, regional, and statewide level).
- AB 2588: Air Toxics "Hot Spots" Program
 - Establishes a statewide program for the inventory of air toxics emissions from individual facilities, as well as requirements for risk assessment and public notification of potential health risks.



14

GENERAL MUNICIPAL Wastewater Treatment Train



1. Headworks

Wastewater first enters a WWTP through the Headworks, that may consist of bar screens, shredders, grinders, a wet well, and pumps. Larger objects, such as wood, metal fragments, and plastics, are removed at this stage of the treatment process.

2. Grit Removal

Grit (sand, coffee grounds, gravel, other small heavy material) settles to the bottom of grit chambers. Once settled, grit is removed, washed, dewatered, and sent to the landfill.

3. Primary Treatment (Sedimentation)

Wastewater is held in a sedimentation basin ("clarifier") in which the heavier solids (sludge) settle to the bottom and the lighter materials (scum) float to the surface.

4. Secondary Treatment (Aeration)

Wastewater is aerated in tanks where beneficial microorganisms ("bugs") break down and feed off organic material and wastes.

5. Secondary Treatment (Clarification)

Secondary clarifiers allow for separation of substances that settle or float that had not been removed by previous treatment processes. Some settled solids are fed back to the aeration tank for microbe reuse.

6. Advanced Treatment

Wastewater undergoes advanced treatment (following secondary treatment) with an objective of removing nutrients, such as phosphorus and nitrogen, and a higher percentage of suspended solids. Advanced treatment also includes disinfection to kill microorganisms in wastewater, such as pathogenic bacteria and viruses. Chlorination and UV systems are the most common disinfection processes.

7. Solids Handling

Sludge thickening followed by an EPA approved process for achieving use or disposal standards. Anaerobic digestion is the most common process used across the state. Anaerobic digesters contain microorganisms that break down sludge and other organics into biosolids and biogas. Biosolids are dewatered and transported to an end use/disposal.

8. Biogas Management

Biogas is conditioned for beneficial use or flared. Conditioned biogas can be used to produce energy/heat, transportation fuel, and/or pipeline grade renewable natural gas for pipeline injection.

LAND APPLICATION of BIOSOLIDS in SOLANO COUNTY



Photo Credit: Robin Scheswohl

Prepared by the BACWA Biosolids Committee
December 2022

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Introduction

With the 2022 application season recently completed, the Bay Area Clean Water Agencies (BACWA) Biosolids Committee is pleased to present its annual summary report on land application of biosolids in Solano County. BACWA wishes to express its sincere appreciation to the staff of the Environmental Health Services Division of the Department of Resource Management for the continuing support of the biosolids land application program. This program allows for the effective use of biosolids as an agricultural soil amendment in the County. We believe this partnership provides a valuable resource to Solano County agriculture and provides many Bay Area agencies with an opportunity to ensure their biosolids are put to their highest and best use by making a positive impact on the environment.

This report provides information on trends in the use of biosolids resources in California and the Bay Area, an update on regional biosolids programs, and specific information on projects from individual agencies currently applying biosolids in the County. It highlights each agency's compliance with the requirement in Solano County Code, Sec. 25-400¹ that "Class B biosolids may only be land applied provided that the generator of the Class B biosolids is individually or as part of a consortium having a portion of their biosolids produced as Class A Exceptional Quality biosolids, converting biosolids to energy, or otherwise diverting Class B biosolids away from land spreading or landfilling (as waste or as alternative daily cover)."

This report is intended as supplemental information to the report submitted by the County Department of Resource Management staff and by Synagro, contract haulers and applicers of biosolids. It has been prepared for the Solano County Board of Supervisors in response to the Board's request for an annual update on agency activities and progress towards compliance with the goals set forth in County Code, Chapter 25. The affected agencies have coordinated

¹ Source: *Solano County Code*. Available online at <https://www.codepublishing.com/CA/SolanoCounty/#!/SolanoCounty2500.html#25-400>. Accessed November 28, 2022.

the required reporting through BACWA to produce a single report for the Board.

We would like to acknowledge the assistance of your staff in working with BACWA member agencies throughout the year, particularly Edmond Strickland (Program Manager), Jeffrey Bell (Supervisor), Anthony Endow (Senior Inspector), Robert Liu (Civil Engineer) and Bob Swift (Inspector).

Municipal Agencies Applying Biosolids in Solano County

The use of biosolids as an amendment supplies valuable plant nutrients and carbon to soils, enhancing the productivity and financial resilience of local farms. Each agency that applies biosolids is required to meet strict standards and provides a report annually to the United States Environmental Protection Agency (USEPA) to demonstrate compliance. In 2022, the following Northern California agencies transported biosolids to agricultural land in Solano County under contract with Synagro:

- City of Calistoga
- Central Marin Sanitation Agency (San Rafael, Ross Valley, Larkspur, and Corte Madera)
- Delta Diablo (Antioch, Pittsburg, and Bay Point)
- Fort Bragg Municipal Improvement District No. 1
- City of Petaluma
- San Francisco Public Utilities Commission
 - Southeast Water Pollution Control Plant
 - Oceanside Water Pollution Control Plant
- Sonoma County Water Agency, Airport-Larkfield-Wikiup Sanitation Zone (ALWSZ)
- Union Sanitary District (Union City, Newark, and Fremont)
- Town of Windsor

A total of 7,874 dry tons were land applied on agricultural sites in Solano County in 2022. The portion from each agency is shown in **Figure 1**. The total quantity of biosolids applied to agricultural land in Solano County over the last decade is shown on the next page in **Figure 2**.

Trends in Biosolids Usage in California

Wastewater agencies in California are continuing to identify and evaluate new options for biosolids reuse and recycling, including emerging technologies as well as established practices such as composting and heat drying.

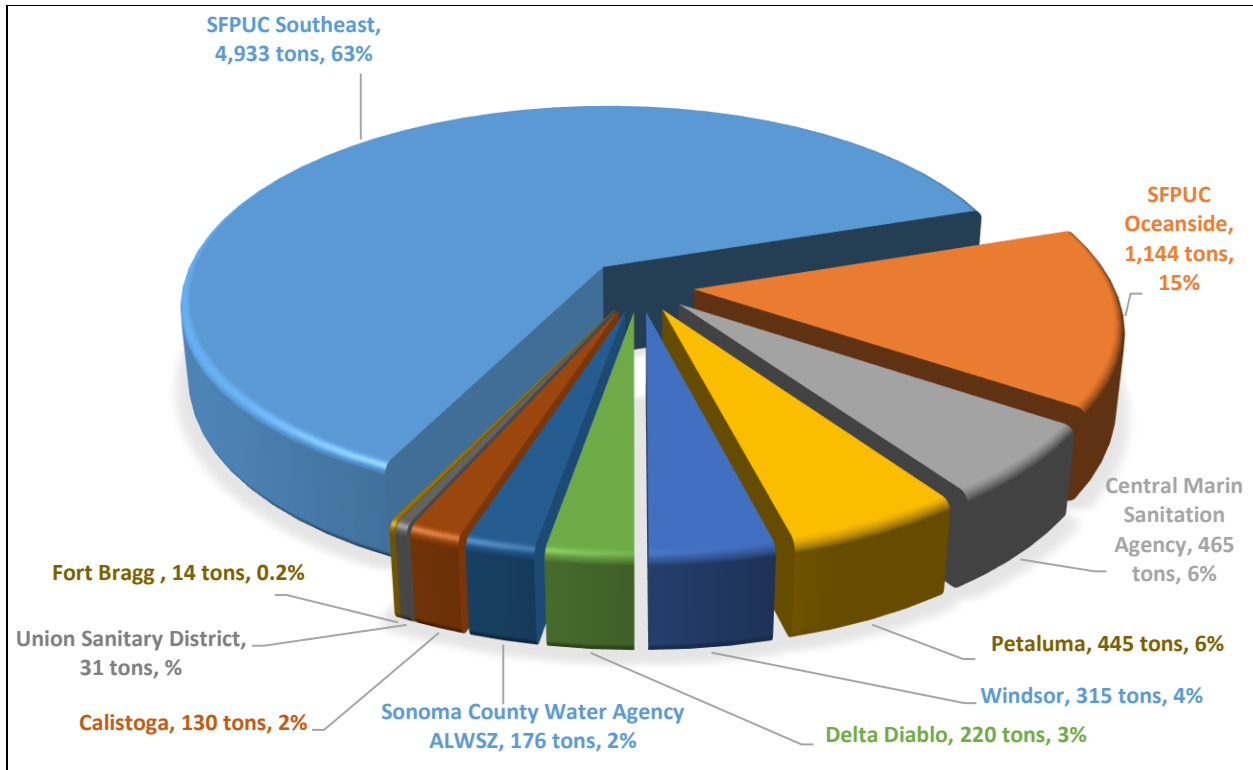


Figure 1. Biosolids (Dry Tons) Land Applied in Solano County by Each Agency, 2022
Data provided by Synagro

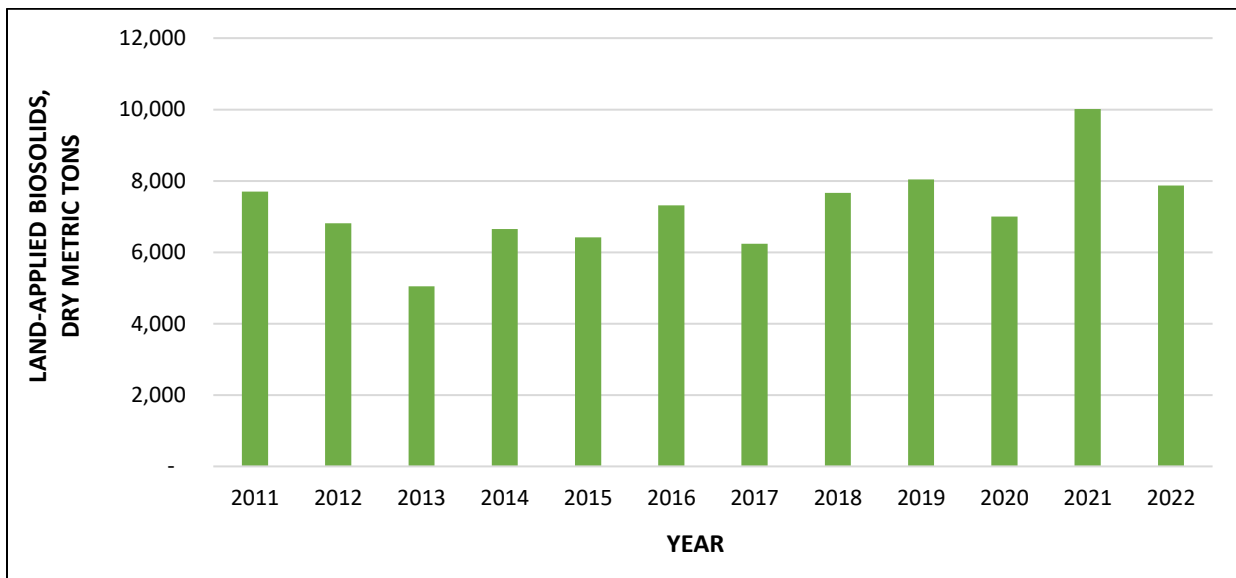


Figure 2. Biosolids (Dry Tons) Land Applied in Solano County, 2011-2022
Data provided by Synagro

Overall California Use Summary. The use of biosolids in California for calendar years 2009 through 2021 is summarized in **Figure 3**. Statewide data for 2022 are not yet available and will be included in the 2023 report. The number one use statewide continues to be land application for agriculture in the form of compost, Class B biosolids and Class A biosolids. The use of biosolids compost has increased steadily, growing from 20% of statewide biosolids use in 2011 to 29% in 2020. Land application of Class A and Class B biosolids has held steady, together accounting for 37% of all biosolids use in 2020. Biosolids have proven to be a safe, reliable, and nutrient-rich soil amendment that offers a more cost-effective alternative to chemical fertilizers, which are energy intensive and increasingly expensive to produce.

Landfill disposal and the beneficial use of biosolids at landfills are also common management practices for biosolids in California, accounting for 4% and 20% of statewide biosolids use, respectively. In recent years, a significant biosolids use has been backfilling of the H.M. Holloway gypsum mine in Kern County. In 2021, about 9% of all biosolids generated in California went to this purpose. This use is tracked as “landfill beneficial use” below in **Figure 3**.

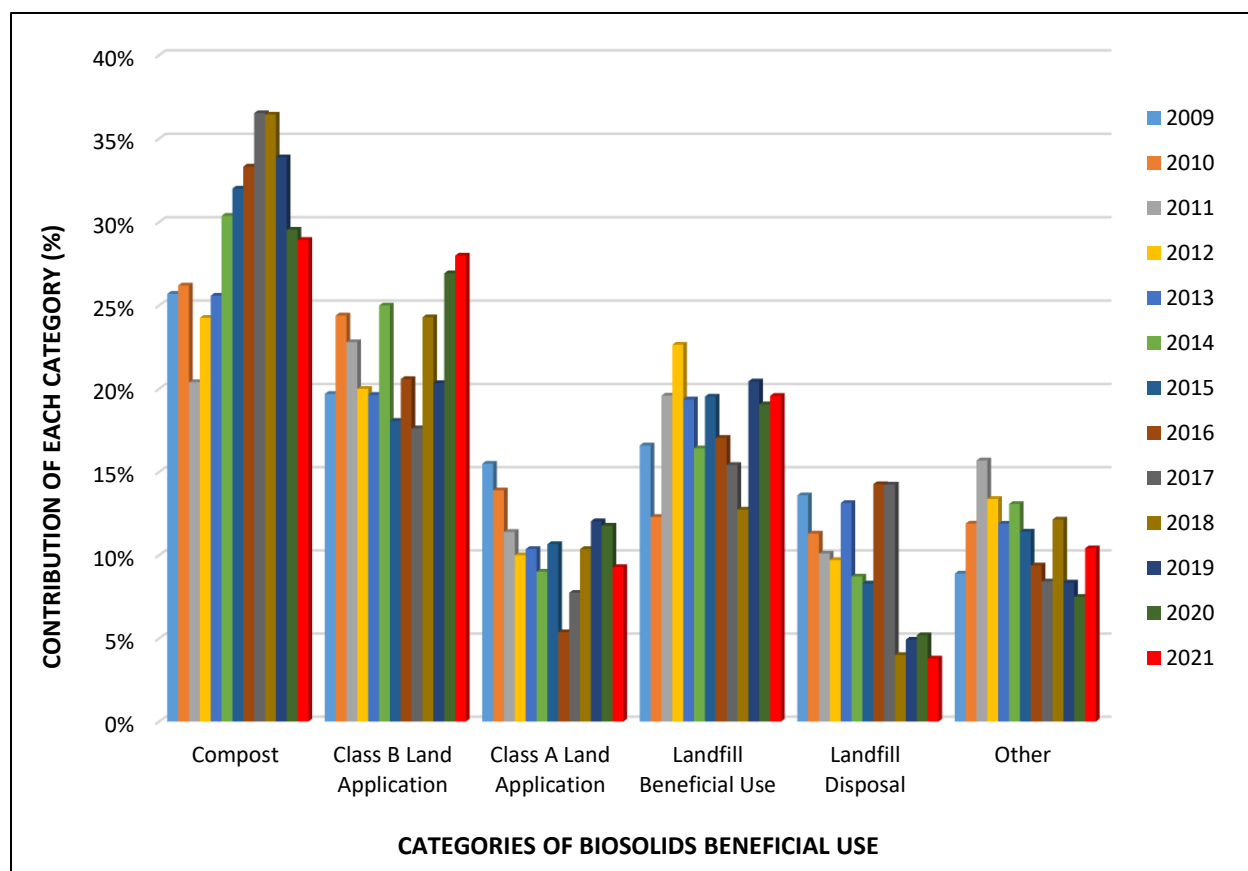


Figure 3. California Trends in Biosolids Uses, 2009-2021

Data provided by USEPA Region 9

Bay Area Trends. Looking solely at the nine county Bay Area, **Figure 4** illustrates end uses of biosolids in 2021. The primary uses continue to be landfill beneficial use, land application, and incineration, which together account for 79% of biosolids end uses in the Bay Area. Compost (5%) and surface disposal levels (2%) also remained similar to past years.

In 2021, there was a significant drop in landfill disposal of biosolids. Landfill disposal fell to just 1% of the total biosolids generated. By contrast, from 2017-2020 this value ranged from 4%-10%. The change occurred due to a biosolids upgrade project at West County Wastewater District.

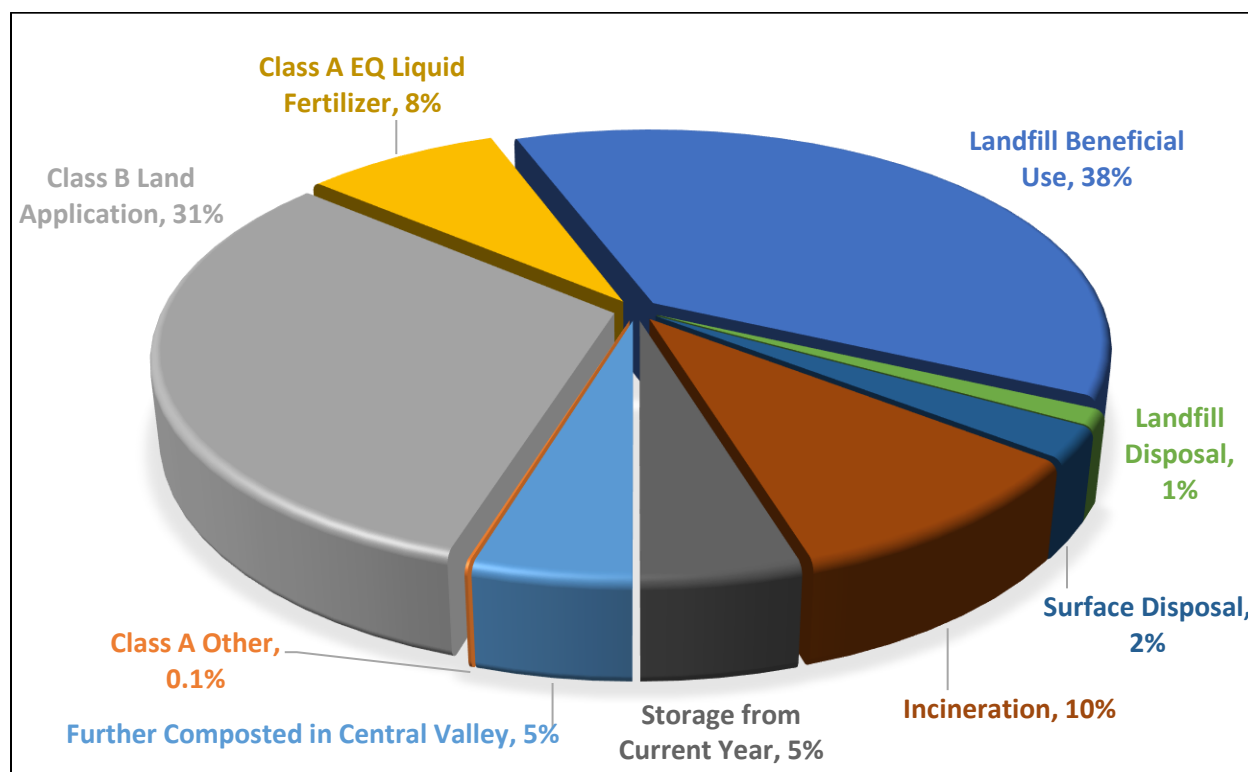


Figure 4. Bay Area Usage of Biosolids, 2021

Data Provided by USEPA Region 9

Tonnage for biosolids conveyed to the Lystek Organic Materials Recovery Center (OMRC) is categorized as Class A liquid fertilizer and has increased from representing 3.8% of Bay Area biosolids end uses in 2017 to 8% in 2021. The OMRC conducts further biosolids processing by utilizing LysteGro technology to create a Class A product. Lystek's hydrolysis process uses high speed shearing, low pressure steam and alkali in an enclosed reactor to transform organic residuals and biosolids into a liquid fertilizer. Lystek's fertilizer program in Solano County began in spring 2017. Thirteen Bay Area agencies and two industrial generators sent material to Lystek in 2022:

- Benicia, City of
- Blue Pacific Flavors of Fairfield
- Budweiser Brewery of Fairfield
- Central Marin Sanitation Agency
- Central Contra Costa Sanitary District
- Delta Diablo
- East Bay Municipal Utility District
- Fairfield-Suisun Sewer District
- Mt. View Sanitary District
- Palo Alto Regional Water Quality Control Plant
- Petaluma, City of
- San Francisco Public Utilities Commission
- Sanitary District No. 5 of Marin County
- Santa Rosa, City of
- Vallejo Flood & Wastewater District

LysteGro is used primarily in Solano County, and the product is registered as a fertilizer with the California Department of Food and Agriculture. As a Class A product, LysteGro can be used with no restrictions, and is not subject to the Solano County biosolids ordinance (Solano County Code, Sec. 25-400). Use of LysteGro is classified as “Class A Land Application” in **Figure 3**. LysteGro is also an approved commercial fertilizer for use in Colusa, Contra Costa, and Yolo Counties.

Counties where biosolids are land applied. Biosolids were predominantly applied to agricultural land in three Northern California counties in 2020 – Sacramento, Merced, and Solano – with Solano County ranking second. **Figure 5** illustrates the distribution of land-applied biosolids among counties in Northern California. Smaller amounts were also land applied in Sonoma, San Joaquin, Stanislaus, and Napa counties.

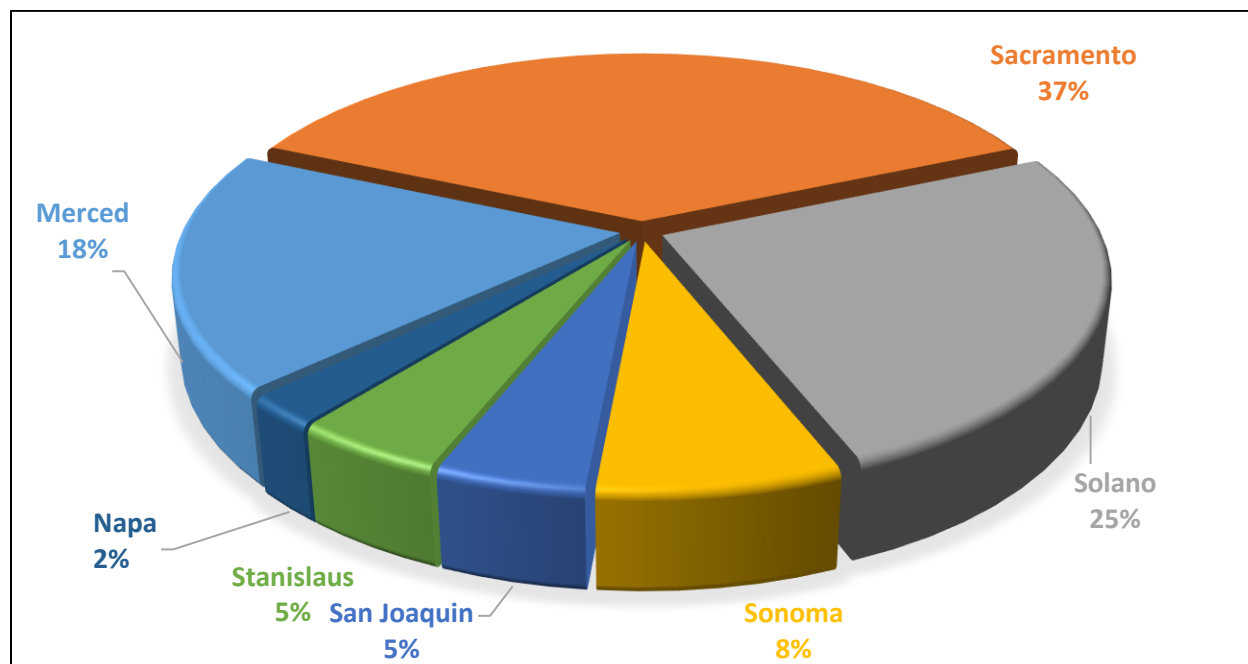


Figure 5. Distribution of Biosolids Land Application among Northern California Counties, 2021

Data provided by USEPA Region 9

Bay Area Regional Efforts

BACWA Biosolids Committee. The mission of the BACWA Biosolids Committee (The Committee) is to support the development and maintenance of cost-effective, sustainable biosolids management options for the approximately 150,000 dry metric tons of biosolids produced in the Bay Area annually. The Committee was formed to provide proactive support and information sharing to member agencies on regional biosolids issues, projects, and proposed regulations and legislation.

In 2021, the Committee completed the 2020 Biosolids Trends Survey Report, which is available at <https://bacwa.org/wp-content/uploads/2021/12/BACWA-2021-Biosolids-Trends-Survey-Report.pdf>.

Because of member agencies' level of engagement in the Bay Area Biosolids Coalition at the current time (see below), the Biosolids Committee was placed on hiatus in 2019. The email distribution list continues to be maintained so that the committee can meet again when there is interest. For example, committee members convened in November 2022 to discuss

implementation of the State's short-lived climate pollutant regulations (Senate Bill 1383). While meetings are on hiatus, the committee will continue to produce this Annual BACWA Report to Solano County, as well as the Biannual BACWA Biosolids Trends Survey.

Bay Area Biosolids Coalition. The members of the Bay Area Biosolids Coalition, originally formed in 2004, work together to advance research, expand land application and share new opportunities and information on biosolids. The Coalition is pursuing a multi-pronged approach that includes:

- Educating the public on biosolids management issues in California through public outreach efforts, including the creation of a public website and securing media coverage.
- Advancing the industry and legislative state of knowledge on biosolids as a valuable resource.
- Investigating viable, year-long (weather resilient) alternatives to land application that look beyond "biosolids to energy" and seek to responsibly recycle back value-added products of biosolids to the environment.
- Serving as a technology incubator - particularly for pre-commercial technologies.
- Supporting land application in the Bay Area by seeking to create more capacity for biosolids in the Bay Area marketplace.

The Coalition has established the following goals in support of achieving the above-mentioned objectives, for which associated strategies and key outcomes have been defined that will be pursued over the next one to two years:

- Communicate the value of biosolids for the purposes of increasing understanding, support, and market demand for biosolids.
- Advance independent scientific research on the safety and efficacy of biosolids to inform science-based regulations, guidelines and best management practices.
- Support and expand biosolids land application in the Bay Area.
- Support the development of diverse, cost-effective, and reliable all-weather biosolids projects for the San Francisco Bay Area.

Current Coalition members include the following public agencies:

Central Marin Sanitation Agency	East Bay Municipal Utility District
City of Millbrae	Ironhouse Sanitary District
City of Petaluma	North San Mateo County Sanitation District
City of San José	San Francisco Public Utilities Commission
City of Santa Rosa	Union Sanitary District
Delta Diablo	Vallejo Flood & Wastewater District
Dublin San Ramon Services District	West County Wastewater District

Individual Agency Programs. Individual BACWA agencies are responsible for their own biosolids

management programs and each develops its own plan in addition to participating in regional programs. Below are program descriptions from all agencies which sent biosolids to Solano County for agricultural use via land application. All agencies described below produce biosolids according to 40 CFR regulations.

All agencies that land applied Class B biosolids in Solano County in 2022 converted a portion of their biosolids to Class A, either through their own means or at a 3rd party conversion facility (e.g., compost facility or Lystek OMRC).

City of Calistoga. At the City's Dunawear Wastewater Treatment Facility, solids are processed by the treatment methods of thickening and application to drying beds. The material is picked up and land applied to various fields in Solano County by Synagro, and a portion of this material is diverted to produce Class A Biosolids at Synagro's Central Valley Compost site.

Central Marin Sanitation Agency. The Central Marin Sanitation Agency (CMSA) has a contract with Synagro for land application of its biosolids during the dry weather season in Solano County. CMSA also has contracts in place for sending the biosolids to Redwood Landfill for landfill beneficial use and to Lystek International for further processing to produce Class A (EQ) liquid fertilizer. CMSA is a member of the Bay Area Biosolids Coalition.

Delta Diablo. Diablo produces Class B biosolids and contracts with Synagro for biosolids management. Over 95% of the biosolids are land applied in either Solano, Sacramento, or Merced Counties. The remaining biosolids are either sent to Synagro's Central Valley Compost facility or to the Lystek facility at Fairfield Suisun Sewer District for further processing to Class A standards (2 truckloads per month). Delta Diablo is an active participant in the Bay Area Biosolids Coalition and continues to explore additional and alternative biosolids management options.

Fort Bragg Municipal Improvement District No. 1. The Fort Bragg Municipal Improvement District No. 1 Wastewater Treatment facility produces Class B biosolids and contracts with Synagro for biosolids management. Synagro transported a portion of the facility's biosolids to their Central Valley Compost site to be further processed into Class A Biosolids.

City of Petaluma. The City of Petaluma's Ellis Creek Water Recycling Facility produces Class B biosolids. Biosolids are no longer permitted for use as alternative daily cover at Potrero Hills Landfill and are now considered a solid waste. Biosolids produced at Ellis Creek are hauled to the landfill, applied to agricultural land in Solano County, or transferred to the Lystek OMRC for production of and subsequent reuse as Class A biosolids. The City of Petaluma is a member of the Bay Area Biosolids Coalition.

San Francisco Public Utilities Commission (Southeast and Oceanside Facilities). The San Francisco Public Utilities Commission (SFPUC) produces Class B biosolids at its two facilities. In addition to sending biosolids to Solano county for use as a fertilizer, the SFPUC also contracts with Synagro to use Class B biosolids as a fertilizer in Sacramento County and to produce compost

in Merced County and contracts with Lystek to produce a Class A EQ liquid fertilizer. The SFPUC's biosolids are now used as either a fertilizer or compost and are no longer used for alternative daily cover in landfills. The SFPUC is an active participant in the Bay Area Biosolids Coalition.

Sonoma County Water Agency. The Sonoma County Water Agency's (SCWA's) Airport-Larkfield-Wikiup Sanitation Zone treatment plant uses a pond treatment system without routine biosolids removal. Accumulated biosolids are periodically removed from the treatment ponds. In 2022, SCWA contracted with Synagro for a project to remove, dewater, transport, and use the accumulated biosolids. Class B Biosolids were land applied in Solano County and Sacramento County in 2022. A portion of SCWA biosolids were diverted to produce Class A Biosolids at Synagro's Central Valley Compost site.

Town of Windsor. The Town of Windsor Water Reclamation Facility contracts with Synagro to land apply biosolids to farmland in Solano and Sacramento Counties. As part of the Synagro contract, Synagro diverts a portion of its biosolids to its Merced County facility for composting. The Town of Windsor continues to investigate feasible and cost-effective Class A biosolids treatment and process options.

Union Sanitary District. Union Sanitary District (USD) beneficially used most of its biosolids in 2022 and met all USEPA regulations for the 29th consecutive year. USD continues to contract with Synagro for its biosolids management, with nearly 75 percent of USD's biosolids land applied to farmland in Sacramento, Merced and Solano Counties. Approximately 25 percent of biosolids production was delivered to Synagro's Liberty Composting Facility in Kern County for producing Class A compost.

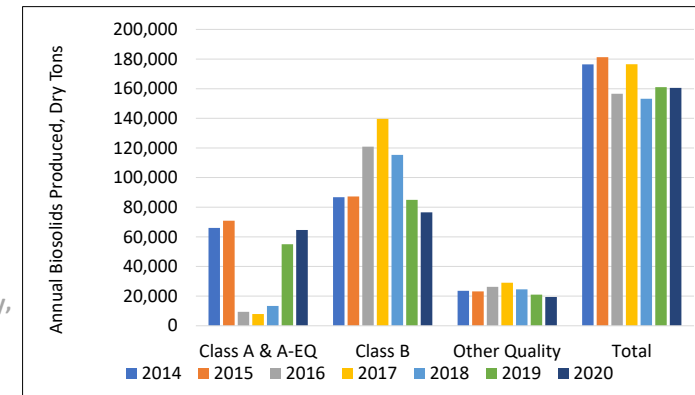
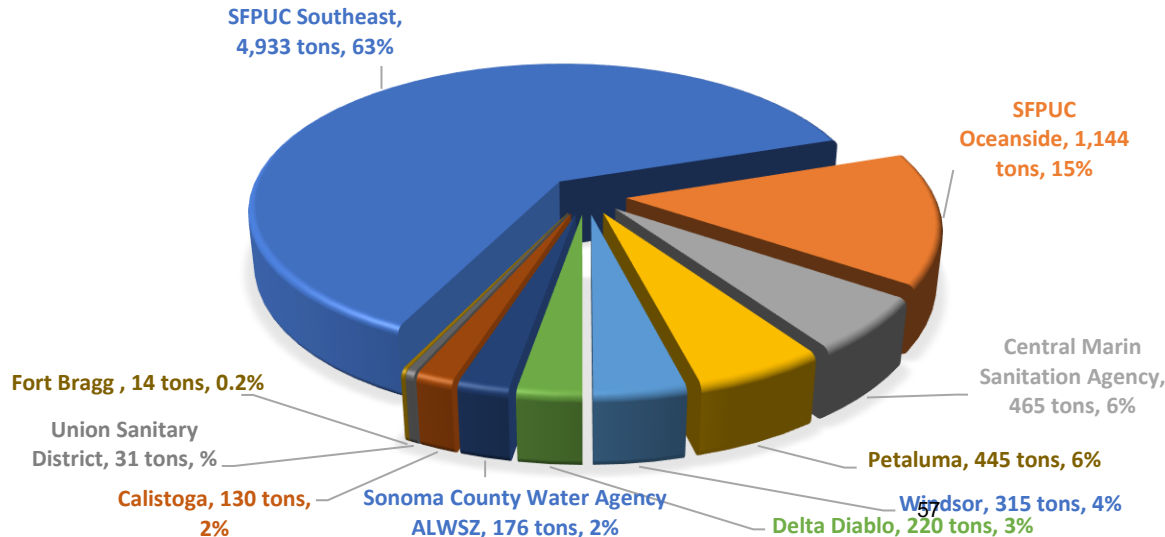


B A C W A
B A Y A R E A
C L E A N W A T E R
A G E N C I E S

Solano County Biosolids Report 2022

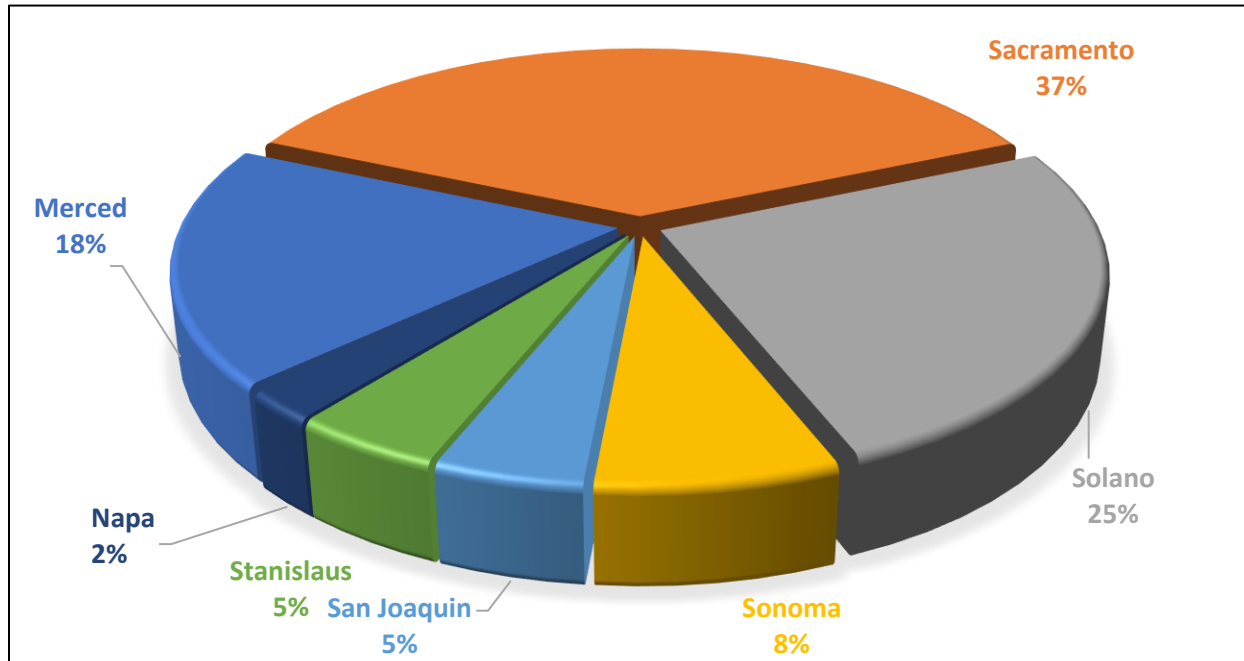
Solano County Biosolids Report

- Prepared annually for POTWs that send biosolids to land application in Solano County
- 10 Facilities land-applied biosolids in 2022, totaling 7,874 dry tons
- About 7,400 dry tons from BACWA Member Agencies = about 5% of region's biosolids



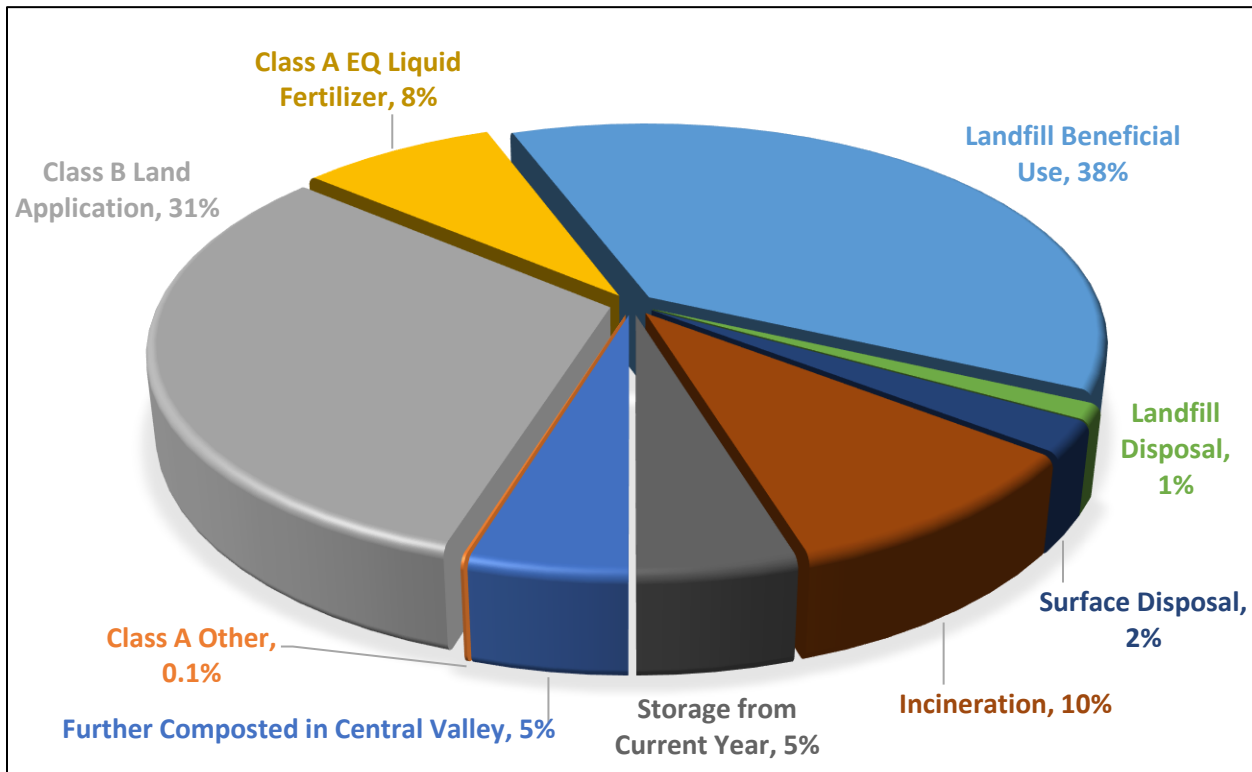
From 2021 Biosolids Survey Report

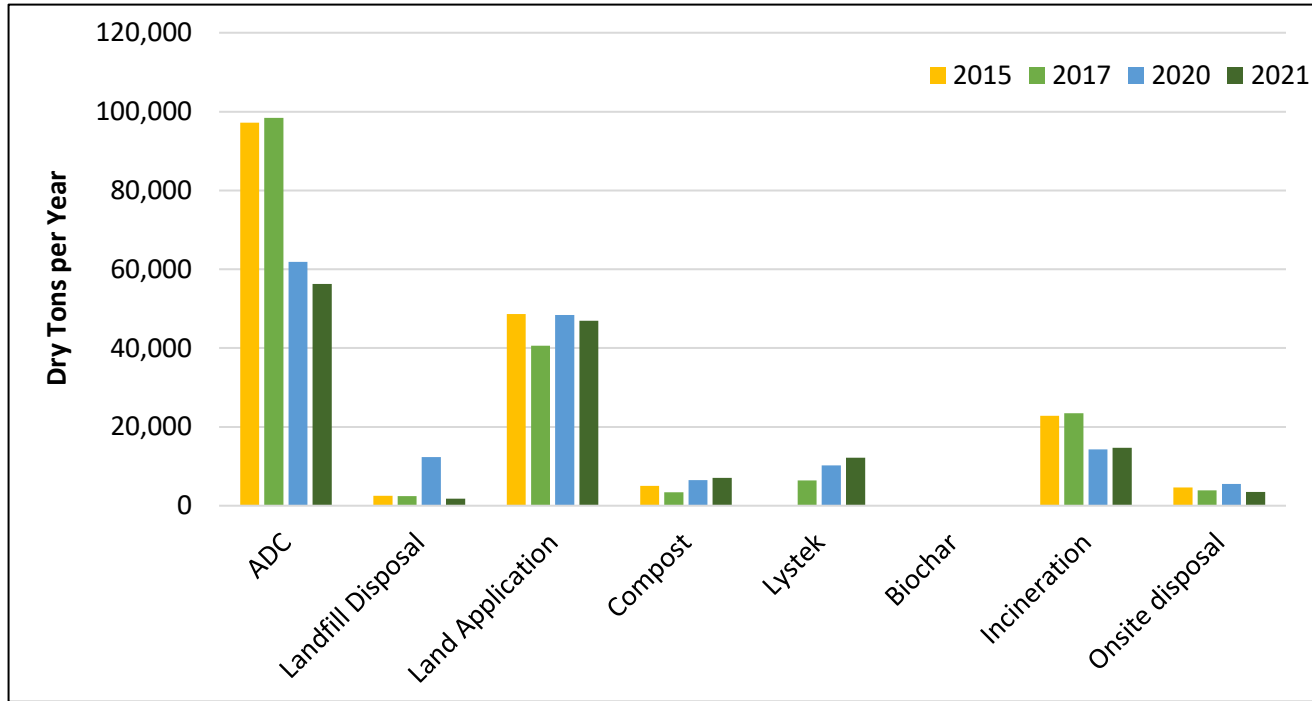
Distribution of Biosolids Land Application among Northern California Counties, 2021



Data provided by USEPA Region 9

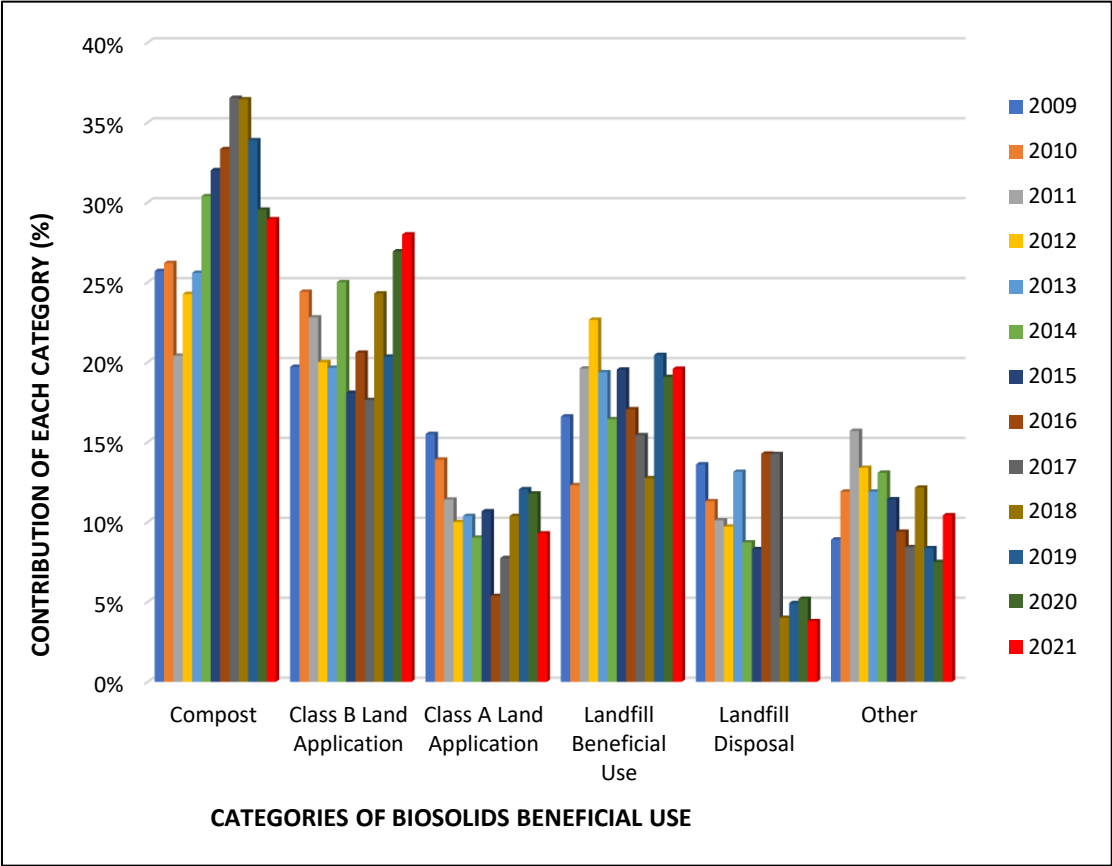
Bay Area Usage of Biosolids, 2021





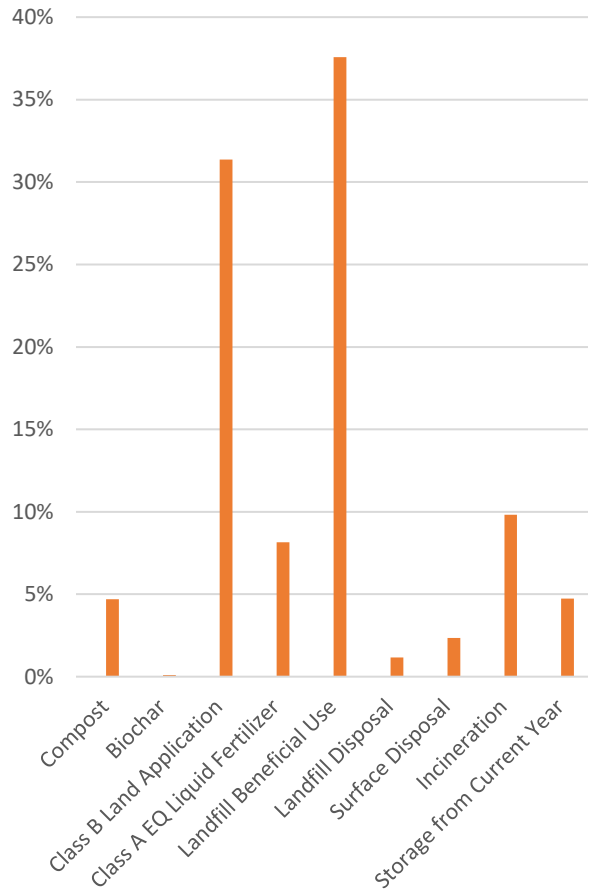
Data for 2015-2020 is from BACWA Biosolids Surveys. Data for 2021 provided by USEPA Region 9

California Trends in Biosolids Uses, 2009-2021



Data provided by USEPA Region 9

Bay Area Biosolids Uses, 2021



November Biosolids Roundtable with



Changes planned or being studied at:

- San Jose - Planning to go to 100% beneficial reuse
- West County – Building new anaerobic digesters; Developing Class A product for land application; may partner with landfill on H₂
- Union Sanitary District – Looking at different dryer technologies with expected limited space for land application.
- Hayward – Currently produce Class A, going to Altamont landfill. Working with EBDA for various potential uses; doing research.
- Santa Rosa – Closed down composting facility; hauling biosolids to Lystek; concerned about space for land application
- Ironhouse – Currently Class B land application and sending biosolids to Synagro; piloting solar drying and dry vac

No major changes currently planned by:

- Livermore (Class B Biosolids Land-applied in Merced County)
- DSRSD (Dedicated land disposal site)
- Novato (Dedicated land disposal site)
- Vallejo (Land application at Tubbs Island + 1 load per week to Lystek)



Executive Board Special Meeting Agenda

SF Bay Regional Water Board /
BACWA Executive Board Joint Meeting
Tuesday, January 10, 2023, 1 PM – 3 PM

<https://us06web.zoom.us/j/88345127094?pwd=MXpHQmhMYs9uUORhR01jbzg1QINiZz09>

ROLL CALL AND INTRODUCTIONS – 1 p.m.

PUBLIC COMMENT – 1:03 p.m.

DISCUSSION/OTHER BUSINESS- 1:05 p.m.

Topic	Goal	Time
1. Agency Updates	<ul style="list-style-type: none"> • Roundtable from BACWA and Regulators about COVID-19 impacts, staffing, and other updates 	1:05
2. Nutrients	<ul style="list-style-type: none"> • Update on planning for 3rd Watershed Permit <ul style="list-style-type: none"> ○ Water Board expectations for nutrient reduction scenario testing ○ Early actors definition and treatment under the 3rds WSP ○ Discussion on how limits will be implemented ○ Schedule for agreement on key tenets • Agency approvals for Recycled Water and NBS Evaluations 	1:40
3. Air permitting	<ul style="list-style-type: none"> • Update on engagement with BAAQMD 	2:05
4. Climate Change Resiliency	<ul style="list-style-type: none"> • Coordination on keeping up-to-date information on adaptation planning for each agency • BCDC Regional Shoreline Adaptation process 	2:20
5. Miscellaneous Coordination	<ul style="list-style-type: none"> • PFAS Regional Study • EPA and state PFAS initiatives • Statewide CECs monitoring strategy • Biosolids monitoring at Baylands land application sites • Rollout of new SSS-WDR (effective June 2023) • Mercury and PCBs Watershed Permit Implementation (Risk Reduction) • Toxicity Policy implementation • Diversity, Equity, and Inclusion initiatives – SFEP wastewater workshop update • Chlorine Basin Plan Amendment 	2:30
6. Annual Events	<ul style="list-style-type: none"> • BACWA Annual Meeting – May 5, 2023 • Pardee Technical Seminar – Sept 8, 2023 	2:50
7. Future meetings	<ul style="list-style-type: none"> • Transition to in-person joint meetings 	2:55

ADJOURNMENT

San Francisco Bay Regional Water Quality Control Board

AGENDA

December 14, 2022
9:00 a.m.

Elihu M. Harris Building
First Floor Auditorium
1515 Clay Street Oakland, CA 94612
and via Video and Teleconference

Video and Teleconference Option: *This meeting will occur with both a physical meeting location and an option to participate from a remote location. Pursuant to Government Code section 11133, one or more board members may participate remotely.*

For those who wish to comment on an agenda item or are presenting to the Board, additional information about participating telephonically or via the remote meeting solution is available here: (https://www.waterboards.ca.gov/sanfranciscobay/board_info/remote_meeting/)

For those who only wish to watch the meeting, the customary webcast remains available at: <https://cal-span.org/> and should be used UNLESS you intend to comment.

Items are numbered for identification purposes only and may not be considered in order. Items scheduled for the first day of a multi-day meeting may be delayed or continued to the next day of the meeting. Closed session items may be considered on either or both days.

1. Roll Call and Introductions

2. Public Forum

Any person may address the Water Board regarding a matter within the Board's jurisdiction that is not related to an item on this meeting agenda. Comments will generally be limited to three minutes, unless otherwise directed by the Chair. Comments regarding pending adjudicatory matters will not be allowed. The public is encouraged to visit the Board website [www.waterboards.ca.gov/sanfranciscobay/public_notices] and contact Board staff to determine whether a matter is a pending adjudicatory matter.

3. [Minutes of November 9, 2022, Board Meeting](#)

4. [Chair's, Board Members', and Executive Officer's Reports](#)

JAYNE BATTEY, CHAIR | EILEEN WHITE, EXECUTIVE OFFICER

1515 Clay St., Suite 1400, Oakland, CA 94612 | www.waterboards.ca.gov/sanfranciscobay

5. Uncontested Items

- A. North San Mateo County Sanitation District, Wastewater Treatment Plant and Wastewater Collection System, Daly City, San Mateo County** – Reissuance of NPDES Permit [Will Burrell 622-2317, will.burrell@waterboards.ca.gov]

[Staff Summary Report](#)
[Tentative Order](#)

- B. Rodeo Sanitary District, Rodeo Sanitary District Water Pollution Control Facility and Wastewater Collection System, Rodeo, Contra Costa County** – Reissuance of NPDES Permit [Sam Plummer, 510-622-2485, sam.plummer@waterboards.ca.gov]

[Staff Summary Report](#)
[Tentative Order](#)

- C. Waste Discharge Requirements for Mercury and PCBs from Municipal and Industrial Wastewater Discharges to San Francisco Bay** – Reissuance of NPDES Permit [James Parrish, 622-2381, james.parrish@waterboards.ca.gov]

[Staff Summary Report](#)
[Revised Tentative Order](#)
[Response to Written Comments](#)

Informational Item

- 6. California Department of Transportation, Update on Compliance with Cease and Desist Order No. R2-2019-0007, Implementing Trash Discharge Reduction Requirements** – [Derek Beauduy, 510-622-2348, derek.beauduy@waterboards.ca.gov]

[Staff Summary Report](#)

7. **Closed Session – Personnel**

The Board may meet in closed session to discuss personnel matters.
 [Authority: Government Code section 11126(a)]

8. **Closed Session – Litigation**

The Board may meet in closed session to discuss litigation. The Board also may meet to discuss whether or not to initiate litigation.

[Authority: Government Code sections 11126(e)(1) and 11126(e)(2)(A)-(C)]

Items the Board may discuss include the following:

- Sweeney et al. v. California Regional Water Quality Control Board, San Francisco Bay Region, et al. (Solano County Superior Court; Case Nos. FCS048136 and FCS048861); Sweeney v. Superior Court of Solano County, et al. (Court of Appeal, First Appellate District, Division 3, Case No. A166041)

- City and County of San Francisco v. State Water Resources Control Board and California Regional Water Quality Control Board, San Francisco Bay Region (Alameda County Superior Court; Case No. RG19042575)
- People of the State of California ex rel. Regional Water Quality Control Board, San Francisco Bay Region v. Dhillon (Solano County Superior Court; Case No. FCS057779)

9. Closed Session – Deliberation

The Board may meet in closed session to consider evidence received in an adjudicatory hearing and deliberate on a decision to be reached based on that evidence.

[Authority: Government Code section 11126(c)(3)]

10. Adjournment to the Next Board Meeting – February 8, 2023

NOTES ON WATER BOARD AGENDA

Agenda Annotations – Uncontested Items are expected to be routine and non-controversial. Recommended action will be taken at the beginning of the meeting without discussion. Any interested party, Board member, or the Executive Officer may request that an item be removed from the Consideration of Uncontested Items, and it will be taken up in the order indicated by the agenda.

Availability of Agenda Items – Tentative orders and their accompanying materials are available one week before the meeting at www.waterboards.ca.gov/sanfranciscobay. Copies of agenda items may be obtained at the Board's office after 9 a.m. on the Thursday preceding the Board meeting from the staff member indicated on the agenda.

Conduct of Board Meetings – Items may not be considered in numerical order. Board meetings are accessible to people with disabilities or who need interpreter services. Individuals who require special accommodations or need interpreter services should contact the Executive Assistant at 510-622-2399 at least 10 working days before the meeting. TTY users may contact the California Relay Service at 800-735-2929 or voice line at 800-735-2922.

Anyone intending to make a presentation using slides, overheads, computer graphics, or other media must coordinate with the staff member for the agenda item in advance of the meeting. Presentation materials must be consistent with and not extend beyond the scope of oral testimony. Power point slides will not be made part of the record unless the Board views them during its meeting. All those addressing the Board should identify themselves for the record.

At any time during the regular session, the Board may adjourn to a closed session to consider litigation, personnel matters, or to deliberate on a decision to be reached based on evidence introduced in a hearing. [Government Code section 11126(a), (c), and (e)]

Administrative Civil Liabilities and Mandatory Minimum Penalties – A discharger may waive the right to a hearing on an agenda item for an ACL or MMP. If there is a waiver, no hearing will be held unless new, substantial information is made available that was not considered during the public comment period.

Petition of Board Actions – Certain Water Board actions or failures to act may be petitioned to the State Water Resources Control Board under Water Code section 13320. Any such petition shall be limited to those substantive issues or objections that were raised before the Water Board, if there was notice and an opportunity to comment. A petition must be received by the State Water Board within 30 days of the Water Board action or failure to act. See Title 23, California Code of Regulations, sections 2050-2068 for regulations governing petitions.

Contributions to Board Members – All persons who actively support or oppose the adoption of waste discharge requirements or an NPDES permit before the Board must submit a statement to the Board disclosing any contribution of \$250 or more to be used in a State, federal, or local election, made by the action supporter or opponent or his or her agent, to any Board member within the past 12 months.

All permit applicants and all persons who actively support or oppose adoption of waste discharge requirements or an NPDES permit pending before the Board are prohibited from making a contribution of \$250 or more to any Board member for 3 months following a Board decision on a permit application.

Water Quality Certification – Information regarding pending section 401 Water Quality Certification applications is available at www.waterboards.ca.gov/sanfranciscobay/public_notices/#section401.

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD**San Francisco Bay Region**

1515 Clay Street, Suite 1400, Oakland, CA 94612

(510) 622-2300 • Fax (510) 622-2460

www.waterboards.ca.gov/sanfranciscobay**Water Board Members****Name**

Jayne Battey, Chair
 Alexis Strauss-Hacker, Vice-Chair
 William D. Kissinger
 Andrew Gunther
 Donald Young
 Alletta “Letty” Belin

City of Residence

Half Moon Bay
 Piedmont
 Mill Valley
 Oakland
 Morgan Hill
 Oakland

Water Board Staff**Executive Officer**

Eileen M. White

Assistant Executive Officers

Lisa Horowitz McCann
 Thomas Mumley

Executive Assistant

Julie D. Haas

Counsel to the Board

Yuri Won
 Teresita “Chech” Sablan

Management Services Division

Anna Torres, Manager

Wastewater Control and Enforcement Division

Bill Johnson, Manager
 Vacant, Section Leader
 Brian Thompson, Section Leader
 Robert Schlipf, Section Leader

Planning and TMDL Division

Xavier Fernandez, Manager
 Laurie Taul, Section Leader
 Kevin Lunde, Section Leader
 Setenay Frucht, Section Leader

Watershed Management Division

Keith Lichten, Manager
 Derek Beauduy, Section Leader
 Liz Morrison, Section Leader
 Margaret Monahan, Section Leader

Ground Water Protection / Waste Containment Division

Jessica Watkins, Manager
 Nathan King, Section Leader
 Cecilia Hernandez, Section Leader
 Keith Roberson, Section Leader

Toxics Cleanup Division

Alec Naugle, Manager
 John D. Wolfenden, Section Leader
 Laurent Meillier, Section Leader
 Ron Goloubow, Section Leader
 Katie Kulha, Section Leader

The primary responsibility of the Water Board is to protect and enhance the quality of regional surface water and groundwater for beneficial uses. This duty is carried out by formulating, adopting, and implementing water quality plans for specific water bodies, by prescribing and enforcing requirements on waste dischargers, and by requiring cleanup of soil and water contamination and pollution. Specific responsibilities and procedures of the Board are outlined in the Porter-Cologne Water Quality Control Act.

Meetings of the Water Board normally are held on the second Wednesday of each month in the Elihu M. Harris State Office Building, First Floor Auditorium, 1515 Clay Street, Oakland. They are scheduled to begin at 9:00 a.m.

The purpose of the meetings is to provide the Water Board with an opportunity to receive testimony and information from concerned and affected parties and to make decisions after considering the evidence presented. A public forum is held at the beginning of each general meeting where persons may speak on matters within the Board's jurisdiction that are not specific agenda items. The Board welcomes information on pertinent problems, but comments at the meeting should be brief and directed to specifics of the case to enable the Board to take appropriate action. Written comments must be received prior to the Board meeting by the date indicated by staff. Verbal testimony made at the Board meeting should only summarize the written material.

Each Water Board meeting is recorded. You may obtain audiovisual recordings of prior board meetings at the following link: [<https://cal-span.org/static/meetings-RWQCB-SF.php>]. A copy of the written transcript may be obtained by calling California Reporting, LLC, at (510) 313- 0610.

ITEM: 5C

Waste Discharge Requirements for Mercury and PCBs from Municipal and Industrial Wastewater Discharges to San Francisco Bay – Reissuance of NPDES Permit

DISCUSSION:

This Revised Tentative Order (Appendix A) would reissue the NPDES permit for discharges of mercury and polychlorinated biphenyls (PCBs) from almost 50 municipal and industrial wastewater dischargers to San Francisco Bay and its tributaries. This permit implements the wasteload allocations and implementation requirements of the San Francisco Bay Mercury Total Maximum Daily Load (TMDL), adopted by the Board in 2006, and the PCBs TMDL, adopted by the Board in 2008.

The most significant change from the previous order is that the Revised Tentative Order would reduce monitoring frequencies for PCB congeners for most dischargers. Reducing PCB congeners monitoring is appropriate because PCB loads from municipal and industrial dischargers are well below their overall wasteload allocations, the cost for each PCB analysis is relatively high, and the reduced monitoring frequencies will be sufficient to characterize PCB loads to San Francisco Bay.

The Bay Area Clean Water Agencies (BACWA); USS-UPI, LLC; and the Vallejo Flood and Wastewater District submitted comments (Appendix B) on a draft order circulated for public review. BACWA requested removal of a provision that addresses how to proceed if permit provisions are discovered to conflict, duplicate, or overlap. We retained the provision because it provides clarity in the unlikely event that this happens, as explained in our Response to Comments (Appendix C). All other comments were minor and we revised the draft order where appropriate, as detailed in the Response to Comments. We expect this item to remain uncontested.

APPENDICES:

- A. Revised Tentative Order
- B. Comments
- C. Response to Comments



**FY23 BACWA EXECUTIVE BOARD
PROPOSED REGULAR MONTHLY MEETING SCHEDULE**

DATE	TIME	LOCATION
January 20, 2023	9:00 – 12:30	Online
February 17, 2023	9:00 – 12:30	Online
March 17, 2023	9:00 – 12:30	Hybrid, TBD
April 21, 2023	9:00 – 12:30	Hybrid, TBD
May 5 2023	9:00 – 3:00	Annual Meeting – David Brower Center, Berkeley
June 16, 2023	9:00 – 12:30	Hybrid, TBD

FY 2024 Proposed Budget Planning/Adoption Timeline

December 2022 / January 2023

BACWA ED and AED to have preliminary FY24 Budget meeting

January 31, 2023

Deadline for Special Programs and Committees to submit FY 2024 draft budgets and workplans/ financial requests and proposals to ED/AED.

First week of February

Finance Committee Meeting

ED and AED meet with Finance Committee to present rough draft BACWA/CBC and Special Program (WOT) budgets and workplans, obtains feedback, and revises draft as necessary in preparation for the March 19, 2021 Board meeting.

February 17, 2023

Executive Board Meeting - 1st Draft

As part of the regularly scheduled monthly Board meeting the ED will lead a discussion to present the first draft BACWA/CBC and Special Program (WOT) budgets and workplans and obtain input to address any questions/concerns raised by the Finance Committee. Feedback from Board, with input from BACWA members/meeting attendees (including Committee Chairs) will be used for further revisions in preparation for the April Executive Board meeting. [Feedback will be accepted until February 24, 2023.](#)

March 17, 2023

Executive Board Meeting - 2nd Draft

As part of the regularly scheduled monthly Board meeting the ED will lead a discussion to present the second draft of BACWA/CBC and Special Program (WOT) budgets and workplans and address any questions/concerns raised at the January Board Meeting. Feedback from Board, with input from BACWA members/meeting attendees (including Committee Chairs) will be used for further revisions in preparation for the April Executive Board meeting. [Feedback will be accepted until March 24, 2023.](#)

Fifth week of March – First week of April

Finance Committee Meeting

ED & AED will incorporate feedback from Board & BACWA members on the draft FY24 BACWA/CBC and Special Program (WOT) budgets and workplans. Any necessary final revisions will be made by the ED in preparation for approval at the April Executive Board meeting.

April 21, 2023

BACWA Board meeting - Approval

The ED will include on the regular BACWA Board meeting agenda, a request that the Board approve the Final FY 2024 BACWA/CBC and Special Program (WOT) budgets and workplans.

**BAY AREA CLEAN WATER AGENCIES
SUCCESSION PLANNING
Fiscal Year 2023 - Updated December 2022**

A. BACWA Principal Representatives

<u>Agency</u>	<u>Representatives</u>	<u>Representative Roles</u>	<u>Succession Planning</u>
CCCSD	Lori Schectel	CASA State Legislative Committee, Nutrient Governance Steering Committee Alternate, ASC/SFEI Board Designate	
	Roger Bailey (Alternate)		
	Mary Lou Esparza	RMP TRC	
EBDA	Jacqueline Zipkin	BACWA Executive Board Vice-Chair, BARR representative, SFEP IC representative, CHARG representative	
	David Donovan (Hayward)		
EBMUD	Amit Mutsuddy	Summit Partners, ASC/SFEI Board Designate	
	Alicia Chakrabarti (Alternate)		
	Yun Shang (Alternate)		
SFPUC	Amy Chastain		
	Greg Norby (Alternate)		
	Jennie Pang (Alternate)	BACWA Permits Comm. Chair	
San Jose	Eric Dunlavey	RMP Steering Comm; Nutrient Management Strategy Steering Comm;	
	Jennifer Voccola-Brown (Alternate)		

Changes to Principal Representation require submission of a Designation Letter and a Statement of Economic Interest Form within 30 days

Discussion: NMS voting members/alternates; SFEI/ASC alternates

Committee Request for Board Action: None

Detailed notes from meetings are posted [online](#).

28 attendees (all participating remotely) representing 14 member agencies

Regional Recycled Water Study Update

Mike Falk (HDR) provided a brief update on the progress of the Recycled Water Evaluation that is being conducted in compliance with the 2nd Nutrient Watershed Permit. Agencies should plan to receive draft reports before the end of 2022. Mike also noted that the next Group Annual Report for nutrients will include calculations of diverted nutrients based on recycled water volumes reported for Calendar Years 2020 and 2021.

Funding Updates

Melanie Tan (Kennedy Jenks) provided an update on state and federal funding opportunities:

- As documented in the State Water Board's [Intended Use Plan for FY22-23](#), the cap for [Recycled Water Facilities Planning Grants](#) has been increased from \$150,000 to \$500,000. A 50% match is required for non-disadvantaged communities (DACs), while DACs are eligible for 100% of project costs. This may be a useful option for agencies that have already received a planning grant for non-potable reuse, and now want to study potable use options.
- SGMA grant funding can be used to fund recycled water projects with a nexus to groundwater (e.g., recharge or conjunctive use). Applications for [Round 2 grants](#) are due December 16th.
- The deadline for [urban community drought relief](#) grants from DWR is January 31st. Recycled water projects that provide immediate relief to potable water supplies are eligible.
- Potable reuse pilot project funding may be available from the State in the near future.
- The Bay Area IRWM Coordinating Committee is reviewing and scoring project submittals, and will submit a funding request to DWR by February 2023.

Cross Connection Control Policy Handbook

Steve Garner from [AWWA CA-NV Section](#) provided an overview of the draft [Cross-Connection Control Policy Handbook](#), which will replace the cross-connection control regulations currently found in Title 17. The handbook expands the six elements currently required in Cross-Connection Control programs to ten elements. The handbook also establishes design and construction-related requirements for swivel-ells, which will allow substitution of tertiary recycled water with potable water *without* using an air gap. Per the November 2022 [draft handbook](#), the swivel-ell design and construction plans have to be approved by the State Water Board, and the potable water system must include a reduced pressure principle backflow prevention assembly.

The new handbook will change the certification process for Backflow Prevention Assembly Testers and Cross-Connection Control Specialists. Currently, under Title 17 the backflow testers have to demonstrate competency, but they do not need to be certified. Going forward, the exams for these certifications will have to have at least 100 questions. AWWA CA-NV plans to pursue accreditation to serve as a certifying organization for the Backflow Prevention Assembly Tester and Cross-Connection Control Specialist certificate programs. The handbook requires that water utilities with more than 3,000 service connections have at least one cross-connection control specialist as a permanent or contracted employee.

The Division of Drinking Water (DDW) held its second public hearing on the handbook on December 5th and [a recording is available](#). DDW anticipates that the State Water Board will adopt the handbook in the 3rd quarter of 2023. Title 17 regulations will be repealed 90 days after adoption.

Onsite Non-Potable Reuse Regulations

Melissa Gunter (Regional Water Board) provided a brief update on [the Onsite Non-Potable Reuse Regulations](#) being developed by the State Water Board pursuant to [SB 966](#). The draft regulations would have to be implemented by local jurisdictions (City or County). Facilities not located in a jurisdiction that has adopted these regulations may not be able to get a permit, but Regional Water Board staff are trying to gain more clarity on the State Water Board's proposed approach. .

Site Supervisor Training Update

A subcommittee is continuing to develop video and a script for a site supervisor training video. The draft script is complete and the committee is working on finalizing the collection of video footage.

Legislation and Regulatory Update (Reena Thomas, EBMUD)

2018 legislation requires the California Department of Water Resources (DWR) to provide recommendations to the State Water Board regarding urban water use efficiency standards. This fall, DWR provided these [recommendations](#), which were presented to the State Water Board as an informational item on November 15th ([agenda](#)). The recommendations include [bonus incentives for potable reuse](#) and a [variance for irrigation with high-TDS recycled water](#), which are important for the success of recycled water programs.

Next Meeting – Tuesday, January 17, 2023, 10:30 am by Zoom



Executive Director's Report to the Board

November 2022

EXECUTIVE BOARD MEETING AND SUPPORT

- Worked with BACWA staff to plan and manage 11/18 Executive Board meeting
- Conducted the Executive Board meeting agenda review with the BACWA Chair
- Hosted 11/18 Executive Board meeting and distributed draft meeting notes
- Met with individual Board members to discuss regulatory issues
- Continued to track all action items to completion

COMMITTEES:

- Planned and hosted 2-part Communications Steering Committee Kickoff, 11/4 and 11/29
- Attended AIR committee, 11/30
- Facilitated joint BACWA O&M Committee/BACCWE meeting, including San Jose plant tour, 11/10

REGULATORY:

- Met with Air District Board member to discuss permitting backlog, 11/14
- Reviewed Solano County Biosolids report
- Drafted and submitted BACWA comments to EPA on CIRCLA designation of PFOS and PFOA

NUTRIENTS:

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

- Discussed nutrient strategy with member staff
- Participated in CASA OAH Subgroup meeting, 11/1
- Participated in planning subcommittee meetings, 11/2 and 11/18
- Discussed funding support opportunities with consultant, 11/15
- Discussed nutrient project ideas with UC Berkeley students
- Discussed algae bloom and Watershed permit with PSC members, BACWA member staff and Board members during various ad hoc meetings
- Draft nutrient FAQ updated and distributed for review
- Developed strategy for individual agency meetings on nutrient reductions

FINANCE:

- Reviewed the monthly BACWA financial reports
- Reviewed and approved invoices
- Worked with staff to review Audit and draft BAR and add to Board packet for approval

COLLABORATIONS:

- Participated in CASA Communications Committee, 11/1
- Attended CASA Collection systems Committee, 11/9

- Attended SFEP Implementation Committee meeting 11/15
- Reviewed and scored IRWM Prop 1 Round 2 project applications
- Attended BAOWN meetings to discuss planning workshop for treatment of alternative water sources, 11/15 and 11/29
- Attended CASA Air Toxics subgroup, 11/16
- Participated in CASA RWG Biosolids meeting, 11/17
- Participated in CASA RWG Water meeting, 11/17
- Met with NGO/POTW coalition to plan next steps on PFAS, 11/28
- Attended SFEP meeting for equity workshop planning 11/30

ASC (AQUATIC SCIENCE CENTER)

- Reviewed materials sent via email by ASC ED

BABC (BAY AREA BIOSOLIDS COALITION)

- Attended 11/14 meeting and drafted meeting summaries
- Facilitated regional infoshare opportunity to BACWA Biosolids committee

BACC (BAY AREA CHEMICAL CONSORTIUM)

- Discussed chemical costs with members
- Discussed administrative and policy issues with administrator

BACWWE (BAY AREA COALITION FOR WATER/WASTEWATER EDUCATION)

- Met with CCCSD and FSSD to discuss workforce needs, 11/7
- Managed and attended in-person joint meeting with BACWA O&M Committee, 11/10

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 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.

MISCELLANEOUS MEETINGS/CALLS:

- Submitted performance plan to Executive Board
- Worked with BACWA Chair and Committee Chairs on items that arose during the month
- Other miscellaneous calls and inquiries regarding BACWA activities
- Responded to Board members' requests for information



Board Calendar

January 2023 – March 2023 Meetings

DATE	AGENDA ITEMS
January 20, 2023	Approvals & Authorizations: <ul style="list-style-type: none">• Policy / Strategic Discussion: <ul style="list-style-type: none">• NDPS Compliance• Regulatory Matrix• Group Annual Report Operational: <ul style="list-style-type: none">•
February 17, 2023	Approvals & Authorizations: <ul style="list-style-type: none">• Policy / Strategic Discussion: <ul style="list-style-type: none">• Operational:• 1st Draft FY24 Budget
March 17, 2023	Approvals & Authorizations: <ul style="list-style-type: none">• Policy / Strategic Discussion: <ul style="list-style-type: none">• Operational: <ul style="list-style-type: none">• 2nd Draft FY24 Budget



BACWA ACTION ITEMS

Number	Subject	Task	Responsibiity	Deadline	Status
Action Items from Nov 2022 BACWA Executive Board Meeting			resp.	deadline	status
2022.10.21	BACWA Communications Policy	BACWA ED will bring a revised draft Communication Policy to the Executive Board for approval at a future meeting.	ED		WIP
2022.10.22	BACWA Reserve Policy	BACWA ED will bring a revised draft Reserve Policy to the Executive Board for approval at a future meeting.	ED		WIP
2022.11.23	December 9 Steering Committee meeting	BACWA ED to share information on additional agenda item on new data	ED	12/5/2022	complete
2022.11.24	Nutrient FAQs	BACWA ED to circulate FAQ document to members for additional review, and incorporate additional requested edits.	ED	12/5/2022	complete
2022.11.25	Discussion: Engagement with BAAQMD Board	BACWA ED to notify group of the next meeting date.	ED	12/1/2022	complete
2022.11.26	SSS WDR - BACWA engagement with State Water Board	BACWA RPM to produce a high-level summary of differences between the current permit and new permit once adopted.	RPM		WIP
2022.11.27	Teleconferencing per AB 361	BACWA staff to investigate hardware to improve hybrid meetings. (OWL)	ED / AED		WIP
2022.11.28	Teleconferencing per AB 361	BACWA staff determine meeting dates and locations for remainder of FY23.	ED / AED		WIP
2022.11.29	BACC Update	BACWA AED to create BACC public page on website.	AED	12/5/2022	complete
Action Items Remaining from Previous BACWA Executive Board Meetings					
2022.3.42	Plain-language review of nutrient science program	BACWA ED to work with SFEI to augment plain-language review to include graphics, simplified text, and a summary of what we have learned so far.	ED		on going

FY23: 24 of 29 Action Items are complete
FY22: 51 of 52 Action items are completed

FY21: 51 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

November 2022

BACWA BULLETIN: Completed and circulated November Bulletin.

MERCURY & PCBS: Continued drafting comment letter for Tentative Order reissuing the Mercury and PCBs watershed permit, and circulated drafts of the letter to members and Executive Board. Finalized and submitted letter to Regional Water Board.

NUTRIENTS: Attended meetings of communications steering committee.

SSS-WDR: Reviewed the revised draft version of the statewide general order for Sanitary Sewer Systems (SSS-WDR) released by State Water Board staff in late October. Attended numerous meetings with CASA and other clean water partner agencies (CVCWA, SCAP) to discuss potential comments at the December State Water Board adoption hearing. Met with State Water Board staff and Board members to discuss possible late edits to the revised draft. Conducted outreach to Collection Systems Committee, and began preparing for December 6th adoption hearing.

COMMITTEE SUPPORT:

AIR – Attended CASA air toxics subgroup meeting, CASA ACE meeting, and BACWA AIR committee meetings.

Asset Management – Attended November meeting and began preparing meeting notes.

Biosolids – Prepared draft version of "Land Application of Biosolids in Solano County" report. Compiled data provided by Synagro and USEPA. Updated member descriptions. Circulated draft content for review by SFPUC, BABC, and Lystek.

BAPPG – Participated in steering committee and pesticides committee meetings. Coordinated with pesticides contractor team regarding November Executive Board meeting..

Collection System – Prepared summary information about SSS-WDR for committee members. Presented at November committee meeting, prepared notes, and circulated to members. See also SSS-WDR item, above.

Laboratory – Began preparations for December meeting and holiday social. Prepared draft contract for consultant team to provide TNI training in early 2023.

Recycled Water – Participated in planning meetings for site supervisor training video. Attended November committee meeting and prepared notes.

Executive Board – Prepared SSS-WDR and other regulatory updates for November meeting; reviewed meeting notes.

ADMINISTRATION/STAFF MEETING – Participated in Staff Meeting.

BACWA MEETINGS ATTENDED:

Asset Management Committee (11/3)
Communications Steering Committee (11/4, 11/29)
BAPPG Pesticides Subcommittee (11/8)
Collection Systems Committee (11/10)
Lab Committee TNI Training (11/15)
Recycled Water Committee (11/15)
Executive Board (11/18)
AIR Committee (11/30)

EXTERNAL EVENTS ATTENDED:

CASA Collection Systems Workgroup SSS-WDR Meetings (11/1, 11/7, 11/9, 11/16, 11/30)
State Water Board Member meetings regarding SSS-WDR (11/18, 11/22)
State Water Board Staff SSS-WDR Meetings (11/14, 11/17, 11/18)
CASA ACE Workgroup (Partial) (11/15)
CASA Air Toxics Subgroup (Partial) (11/16)
CASA Water Regulatory Workgroup (11/17)