



EAST BAY DISCHARGERS AUTHORITY  
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*A Joint Powers Public Agency*

NOTICE: In compliance with AB 361 (2021), the meeting scheduled below will be conducted virtually via Zoom video conferencing.

- Members of the public may participate in the meeting by clicking on the following Zoom link: <https://us02web.zoom.us/j/83944888857>
- You may also participate via telephone by dialing 1(669) 900-6833 and entering Meeting ID number 839 4488 8857.

## **ITEM NO. 15**

### **OPERATIONS & MAINTENANCE COMMITTEE AGENDA**

**Monday, February 13, 2023**

**9:00 A.M.**

**East Bay Dischargers Authority  
2651 Grant Avenue, San Lorenzo, CA 94580**

**Committee Members: Johnson (Chair); Azevedo**

**OM1. Call to Order**

**OM2. Roll Call**

**OM3. Public Forum**

**OM4. EBDA Permit Compliance**

(The Committee will be updated on EBDA's NPDES compliance.)

**OM5. Status Report**

(The Committee will be updated on EBDA's O&M activities.)

**OM6. Motion Authorizing the General Manager to Issue a Change Order to 4B On Site Services, LLC for Diesel Fuel for Fiscal Year 2022/2023 in the Amount of \$15,001, for a total purchase order value of \$40,000**

(The Committee will consider the motion.)

**OM7. Motion Authorizing the General Manager to Issue a Change Order to Southern Counties Lubricants, LLC for Diesel Fuel for Fiscal Year 2022/2023 in the Amount of \$15,001, for a total purchase order value of \$40,000**

(The Committee will consider the motion.)

**OM8. Motion Authorizing the General Manager to Issue a Change Order to Univar Solutions USA, Inc. for Sodium Bisulfite 25% Solution for Fiscal Year 2022/2023 in the Amount of \$150,000, for a total purchase order value of \$275,000**

(The Committee will consider the motion.)

## **OM9. Adjournment**

Any member of the public may address the Commission at the commencement of the meeting on any matter within the jurisdiction of the Commission. This should not relate to any item on the agenda. It is the policy of the Authority that each person addressing the Commission limit their presentation to three minutes. Non-English speakers using a translator will have a time limit of six minutes. Any member of the public desiring to provide comments to the Commission on an agenda item should do so at the time the item is considered. It is the policy of the Authority that oral comments be limited to three minutes per individual or ten minutes for an organization. Speaker's cards will be available in the Boardroom and are to be completed prior to speaking.

In compliance with the Americans with Disabilities Act of 1990, if you need special assistance to participate in an Authority meeting, or you need a copy of the agenda, or the agenda packet, in an appropriate alternative format, contact Juanita Villasenor at [juanita@ebda.org](mailto:juanita@ebda.org) or (510) 278-5910. Notification of at least 48 hours prior to the meeting or time when services are needed will assist the Authority staff in assuring that reasonable arrangements can be made to provide accessibility to the meeting or service.

In compliance with SB 343, related writings of open session items are available for public inspection at East Bay Dischargers Authority, 2651 Grant Avenue, San Lorenzo, CA 94580. For your convenience, agenda items are posted on the East Bay Dischargers Authority website located at <http://www.ebda.org>.

**The next O&M Committee meeting will be held  
Monday, March 13, 2023, at 9:00 a.m.**

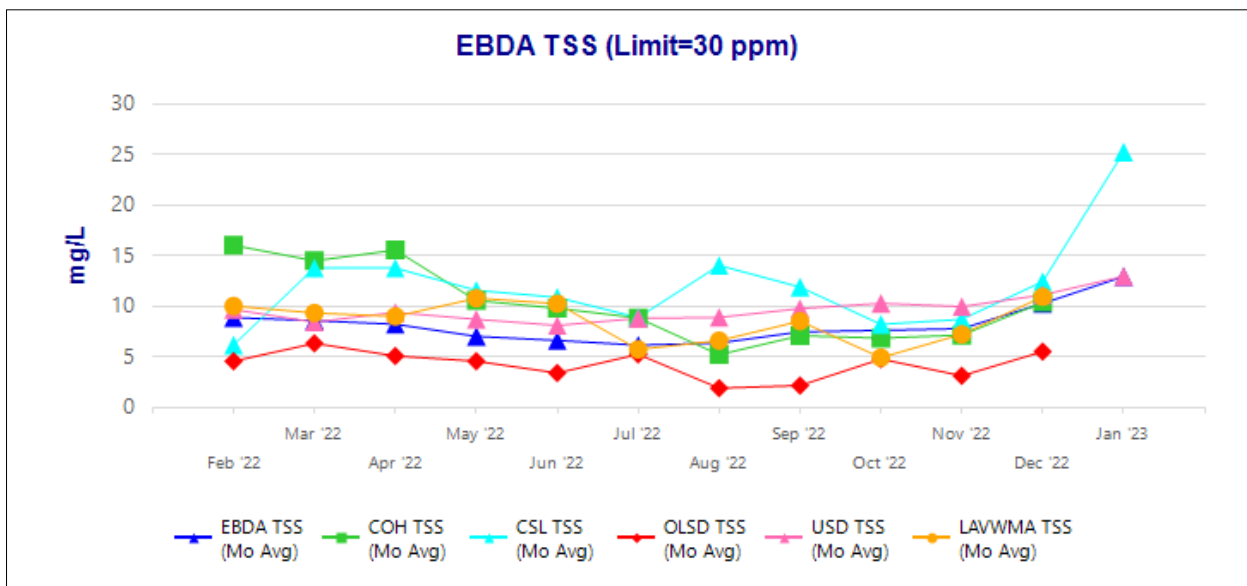
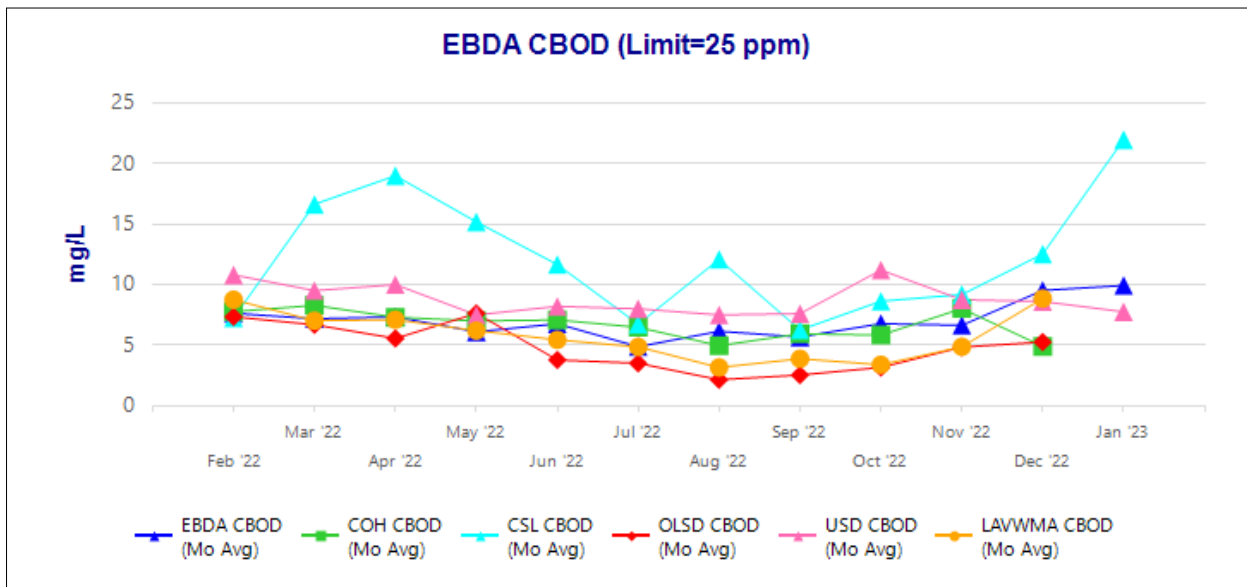
**ITEM NO. OM4 EBDA PERMIT COMPLIANCE**

**Recommendation**

For the Committee’s information only; no action is required.

**Discussion**

There were no NPDES permit violations in December, and preliminary data from January are also free of permit exceedances. Member Agency CBOD and TSS performance are shown below. A table with bacterial indicators is also included. Despite many challenges associated with wet weather, EBDA maintained permit compliance through the December and January storms.



## EBDA Bacterial Indicators

Date	FECAL	ENTERO
	MPN/ 100mL	MPN/ 100mL
Limit (90th Percentile)	1100	1100
Limit (Geomean)	500	280
<b>February 2022 Geomean</b>	<b>6</b>	<b>6</b>
<b>March 2022 Geomean</b>	<b>7</b>	<b>4</b>
<b>April 2022 Geomean</b>	<b>2</b>	<b>7</b>
<b>May 2022 Geomean</b>	<b>5</b>	<b>48</b>
<b>June 2022 Geomean</b>	<b>5</b>	<b>57</b>
<b>July 2022 Geomean</b>	<b>20</b>	<b>6</b>
<b>August 2022 Geomean</b>	<b>15</b>	<b>34</b>
<b>September 2022 Geomean</b>	<b>43</b>	<b>28</b>
<b>October 2022 Geomean</b>	<b>12</b>	<b>4</b>
<b>November 2022 Geomean</b>	<b>6</b>	<b>6</b>
12/5/2022	79	4
12/6/2022	6	6
12/7/2022	NA	6
12/12/2022	13	6
12/13/2022	4	16
12/14/2022	NA	16
12/19/2022	11	< 2
12/20/2022	8	6
12/26/2022	1100	6
12/27/2022	14	263
<b>December 2022 Geomean</b>	<b>21</b>	<b>9</b>
1/2/2023	< 2	40
1/3/2023	36	51
1/9/2023	240	1842
1/10/2023	< 2	8
1/16/2023	21	24
1/17/2023	4	4
1/23/2023	33	6
1/24/2023	8	4
1/30/2023	7	< 2
1/31/2023	8	2
<b>January 2023 Geomean</b>	<b>12</b>	<b>14</b>

## **ITEM NO. OM5 STATUS REPORT**

### **Union Effluent Pump Station (UEPS)**

#### **Effluent Pump No. 6 Variable Frequency Drive (VFD)**

On December 29, 2022, the VFD for Effluent Pump No. 6 failed. USD maintenance staff ordered new fuses and is scheduling Rockwell Automation Field Service to further troubleshoot the issue.

### **Hayward Effluent Pump Station (HEPS)**

#### **Effluent Pump Replacement Project**

At its January 2023 meeting, the Commission approved a motion authorizing the General Manager to negotiate and execute an agreement with Pump Repair Service Company, Inc. (PRS). PRS's bid was \$725,900, and EBDA has successfully negotiated a negative Change Order for a total contract cost of \$623,606. The breakdown of the total cost is as follows:

- Furnish and install four new pumps, motors and couplings. Including factory testing, dynamic analysis, startup, field testing, and tax - \$533,606
- Time and materials work includes core drilling holes to anchor the pumps, preparation of and coating the metal sump rings, painting the pumps, motors, and couplings, and additional field labor as necessary - \$90,000

The lead time for the new pumps is 28 weeks after submittal approval.

### **Oro Loma Effluent Pump Station (OLEPS)**

#### **Lighting Upgrade**

Recently, EBDA replaced six fluorescent light fixtures on the 25-foot-high ceiling of OLEPS with LED fixtures. The new fixtures use the same amount of energy and put out much more light. The cost of the project was approximately \$10,000 including the new light fixtures, lift rental, and labor. The new lights will last six times longer than the old fluorescent lights bulbs and will pay for themselves in cost savings associated with lift rental and labor for light bulb replacements. Additionally, the extra light from the new LED fixtures allows 23 other old fluorescent fixtures along the east and west side of the large bay of the pump station to be turned off, adding energy savings. The new lights can be seen in the top right photo under the next item.

#### **Overhead Crane Inspection & Quadrennial Load Testing**

On January 30 and 31, 2023, Crane Tech Inc. (CTI) conducted the annual OLEPS overhead crane inspection and quadrennial load testing. The overhead crane or bridge crane, as it is commonly referred to, spans the pump station's main floor ceiling. The

crane has a 15-ton capacity and is used for repair and maintenance of the pumps and associated equipment. The quadrennial load testing calls for the crane to be tested with weights that exceed the 15-ton crane load capacity. This load test was conducted with 18.75 tons. Although the crane is 44 years old, it passed the inspection and testing without any issues.



OLEPS Overhead Crane



OLEPS Overhead Crane Quadrennial Load Testing

### **Emergency Outfall Upgrade**

Carollo Engineers (Carollo) completed an evaluation of the OLEPS emergency outfall to determine the outfall's maximum capacity and whether modifications to the outfall weir would increase system detention time and delay or prevent an unanticipated bypass in the event of a catastrophic failure at OLEPS. Carollo recommended that the existing lumber weir be replaced with a permanent concrete weir at an increased elevation. Carollo completed the drawing and specifications that will be used for construction of the

new elevated weir. Staff is in the process of requesting bids for this project from contractors.

### **Main Electrical Switchboard Upgrade**

There are two outstanding items that still need to be addressed prior to completing the OLEPS Main Electrical Switchboard Upgrade Project. Schneider Electric, the project contractor, must fabricate and install new blanks or spacers to cover the space between the new breakers and the front panels. Schneider Electric also needs to issue a credit of approximately \$4,800 to reimburse EBDA for expenses incurred during the June 23, 2022, shutdown that was cancelled due to their oversights.

### **Skywest Pump Station**

#### **Recycled Water Production**

During the month of January 2023, the Skywest Recycled Water System did not produce any recycled water.

### **Marina Dechlorination Facility (MDF)**

No change; all equipment is operational.

### **Force Main**

The 60-inch valve in Hayward was historically used by USD to send flow to the now decommissioned Hayward Marsh. The valve was transferred from EBDA to USD ownership in 2007. On January 19, 2023, at 16:25 hours, EBDA staff received a call from USD indicating that the 60-inch valve in Hayward had closed, preventing UEPS from pumping flow to the EBDA system. USD was sending staff to investigate the issue but traffic was heavy at that time. EBDA staff immediately headed to the 60-inch valve vault and called City of Hayward (COH) staff to request the use of a portable generator and ventilation fan. At 16:44 hours, EBDA staff informed USD that the 60-inch valve vault was flooded, but the valve was opening. The City of San Leandro (CSL) force main crew was requested to respond, and USD sent staff to dewater the valve vault. After the vault was dewatered, USD staff replaced the vault sump pump and installed a vault flooding alarm that will prevent this from occurring in the future. EBDA would like to thank the staff from USD, COH, and CSL that responded to the incident.

### **Operations Center**

No change; all equipment is operational.

### **Miscellaneous Items**

#### **Underground Service Alerts**

EBDA received six (6) Underground Service Alert (USA) tickets during the month of January 2023. Four required an Electronic Positive Response (EPR) and calls/emails to the excavators.

**Wet Weather**

Total rainfall for the month of December 2022 (in inches) was as follows:

Oakland	Hayward	Livermore
11.96	10.52	8.09

Total rainfall for the month of January 2023 (in inches) was as follows:

Oakland	Hayward	Livermore
8.34	7.97	6.36

Significant daily rainfall for the month of January 2023 (in inches) was as follows:

Date	Oakland	Hayward	Livermore
1/02/2023	0.41	0.39	0.32
1/04/2023	1.42	0.99	0.74
1/05/2023	0.30	0.53	0.50
1/07/2023	0.72	0.26	0.17
1/08/2023	0.74	0.79	0.30
1/09/2023	0.85	1.06	0.97
1/10/2023	0.16	0.10	0.25
1/11/2023	0.29	0.27	0.28
1/13/2023	0.44	0.62	0.27
1/14/2023	1.01	1.14	1.09
1/15/2023	1.88	1.58	1.23

From December 26, 2022 to January 15, 2023, San Francisco received 17 inches of rain. This was the second wettest 21 days in San Francisco history since 1849. During the atmospheric river storm event that hit the EBDA service area on December 31, 2022 and the subsequent storm events, EBDA received more sustained high flows than in recent history. The MDF peak flow of 192.5 MGD was recorded at 2:40 pm on December 31, 2022. The average daily flow at MDF was 153.3 MGD on December 31<sup>st</sup> and 141.1 MGD on January 1<sup>st</sup>. For reference, the average daily flow for the month of November 2022 was 63.6 MGD, and the average daily flow for October 2022 was 56.6 MGD.

From December 31, 2022, to January 18, 2023, the OLEPS diesel pumps, which operate when the capacity of the two electric pumps is exceeded, were required to operate for over 140 hours. Overall, the EBDA system performed remarkably well, given the conditions, demonstrating the value of EBDA, both in terms of the supportive community and the infrastructure. There was consistent communication and cooperation between the Member Agencies, LAVWMA, and EBDA to manage flows, and mutual aid in the form of pumps and emergency equipment was provided among the Member Agencies.



Average daily flow at MDF was as follows:

Date	MDF Average Daily Flow - MGD
October 2022 Monthly Average	56.6
November 2022 Monthly Average	63.6
December 2022 Monthly Average	75.8
January 2023 Monthly Average	110.4
12/31/2022	153.3
1/01/2023	141.1
1/01/2023 - 1/18/2023	125.1
1/19/2023 - 1/31/2023	90.0

*Capacity Exceedance Events*

EBDA's Amended and Restated Joint Powers Agreement (JPA) states the following in Section 11(b):

Temporary Capacity Exceedance

Should any Agency exceed its Maximum Flow Rate Capacity it will make best efforts to reduce its flows to within its allocated capacity. Capacity exceedance fees will be calculated as follows:

- (1) First Exceedance: No charge for an Agency that exceeds its Maximum Flow Rate Capacity, based on a 3-hour average, the first time in a Fiscal Year. An Agency's first exceedance will not exceed twenty-four hours, and after such 24 hour period, any continuing exceedance will be considered a second exceedance.
  
- (2) Subsequent Exceedances: Any Agency that exceeds its Maximum Flow Rate Capacity, based on a 3-hour average, for the second and each subsequent exceedance in a Fiscal Year, will be charged \$0.005/gallon of exceeded flow.

Using this methodology, EBDA has calculated the fees owed by EBDA Member Agencies for temporary capacity exceedances during the December and January storms as follows:

**OLSD/CVSan**

Date	Duration	Gallons	Capacity Exceedance Fee
12/31/2022 - 1/01/2023	24 Hours	29,900,000	\$149,500 No Charge

Date	Duration	Gallons	Capacity Exceedance Fee
1/01/2023 - 1/03/2023	48.5 Hours	19,300,000	\$96,500
1/04/2023 - 1/05/2023	5 Hours	3,200,000	\$16,000
1/09/2023	5 hours	1,700,000	\$8,500
1/16/2023	6.5 Hours	2,400,000	\$12,000
<b>Total</b>	<b>65 Hours</b>	<b>26,600,000</b>	<b>\$133,000</b>

**CSL**

Date	Duration	Gallons	Capacity Exceedance Fee
12/31/2022 - 1/01/2023	20.75 Hours	7,200,000	\$36,000 No Charge

Date	Duration	Gallons	Capacity Exceedance Fee
1/09/2023	4.5 Hours	1,100,000	\$5,500
<b>Total</b>	<b>4.5 Hours</b>	<b>1,100,000</b>	<b>\$5,500</b>

The JPA further states:

All capacity exceedance fees will be applied to, and reduce the total of, the fixed operating costs due from the non-exceeding Agencies' fixed operating costs for that or the following Fiscal Year.

In accordance with this language, fees and credits associated with these wet weather exceedances will be applied to the Member Agencies as part of the year-end budget reconciliation process.

**EBDA Vehicle**

On September 16, 2022, a Purchase Order was submitted to National Auto Fleet Group for EBDA's new F-150 Truck. On September 26, 2022, staff traded in EBDA's 2008 Ford Ranger for \$9,100. Due to the high trade-in value, it was necessary to trade-in the truck as soon as possible before the trade-in value was reduced. The new F-150 is on order, and EBDA is waiting for an estimated delivery date from Ford.

**Special Projects**

**Roof Replacement Projects**

During the week of January 23, 2023, the old MDF SBS Building roof was removed, and several layers of the new roof were installed. Installation of these layers made the roof water tight. Before additional layers of the new roof can be installed, a waiting period of several weeks is necessary. This roof, along with the OLEPS roof, will be completed as

weather allows. Work to replace the Administration Building roof will begin as weather allows.

### **Cargill Brine Project**

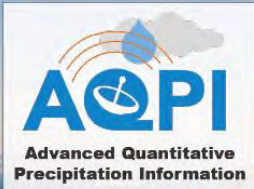
Staff is continuing to work with the Authority's CEQA consultant, Ascent Environmental, on preparation of the Environmental Impact Report (EIR) for the project – see also Item No. RA 9. A Draft EIR was released for public comment on January 3, 2023. Information about the project and the CEQA process, including a link to the Draft EIR and a recording of the January 24, 2023 public meeting, can be found here: <https://ebda.org/projects/cargill-partnership/>. Comments on the Draft EIR are due on February 17, 2023. As of February 8, no comments have been received.

Staff has begun negotiations with Cargill on a Project Development and Operating Agreement, which would be brought to the Commission for consideration coincident with EIR certification, likely in Spring 2023. A draft technical addendum has been developed that outlines water quality limitations and monitoring requirements to ensure EBDA's continued compliance with our NPDES permit once brine discharge commences. The addendum will also include a corrosion monitoring plan, with triggers for action if accelerating corrosion is observed.

### **Advanced Quantitative Precipitation Information (AQPI) Project**

The regional AQPI project continues to move forward with a goal of improving prediction of rainfall events in the Bay Area. Following a series of delays, the East Bay radar was installed at Rocky Ridge on the week of December 6, 2022. The system is now being commissioned and tested. In the meantime, EBDA members are able to access regional data through AQPI's data portal. Staff from AQPI's new Program Manager, the Center for Western Weather and Water Extremes (CW3E) at Scripps Institution of Oceanography, UC San Diego, are hosting a meeting on February 13, 2023 to learn from representatives of EBDA, Alameda County Flood Control, and Alameda County Water District, about our data needs going forward. An updated fact sheet about the program is attached.

**>>INSERT AQPI FACT SHEET**



Improving Monitoring and Forecasting of Precipitation and Coastal Flooding in the San Francisco Bay Area

# SF Bay Area AQPI Project Update

## January 2023

### Background

The Advanced Quantitative Precipitation Information (AQPI) system is a regional project that uses enhanced weather radar to track precipitation associated with atmospheric rivers. AQPI was funded in 2016 by a grant from the California Department of Water Resources (DWR) Integrated Regional Water Management Program (IRWM) awarded to Sonoma Water and participating Bay Area agencies. National Oceanic and Atmospheric Administration (NOAA) and Colorado State University's Cooperative Institute for Research in the Atmosphere (CIARA) are building the AQPI system and delivering the AQPI end-product to these agencies. When completed, the goal of the AQPI system will be to provide X-Band and C-Band weather radar information that will increase the accuracy of weather forecasting and response systems throughout the Bay Area. Improved forecasting will assist flood agencies, emergency responders, wastewater plant managers, reservoir operators, and water managers in responding to extreme weather events in a timely fashion. A Local Partner Agency Committee (LPAC) has formed to develop the SF Bay AQPI framework for regional collaboration. The University of California San Diego, Scripps Institution of Oceanography, Center for Western Weather and Water Extremes (CW3E) is working with the LPAC member agencies to develop an operations plan and transition plan for the AQPI system. CW3E will operate the system when the DWR grant period ends in early 2024.

### SF Bay Area AQPI Radar Locations

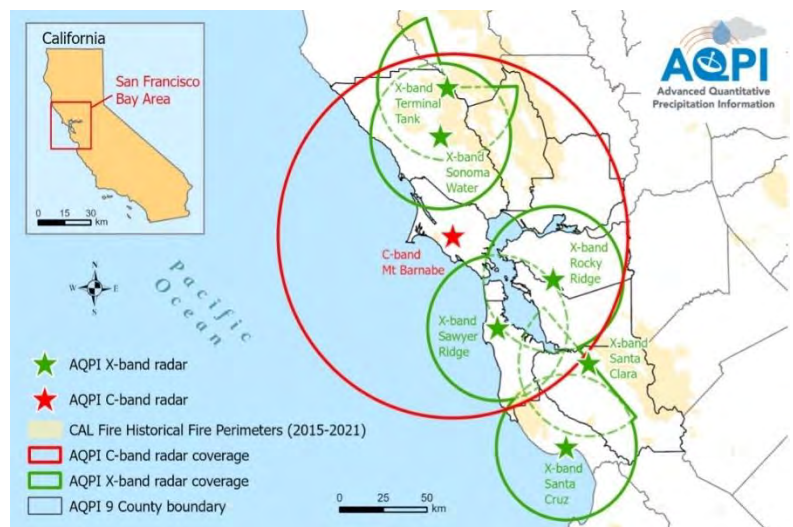
When completed, the DWR-funded project will have deployed four X-Band radars and one C-Band radar that will cover most watersheds in the Bay Area (Figure A). Two additional X-Band radars funded through other sources will send data to the AQPI system. When the radar deployments are completed, a total of six X-Band radars and one C-Band radar will provide data to the AQPI system.

### Timeline for Radar Deployment

As of Winter 2022, four X-Band radars are operational. These radars are located in Sonoma, Santa Clara, Contra Costa, and Santa Cruz Counties. Additional X-Band radars will be deployed in San Mateo and Sonoma County in 2023 and 2024 respectively. The C-Band radar is planned to be located on the Mt. Barnabe in Marin County in 2023. Radar locations include:

- **Sonoma Water** – Operating a temporary X-band radar since 2018, located near the Sonoma County Airport. A permanent X-Band radar is anticipated to be deployed on the same site, the Sonoma Water Treatment Plant.
- **Valley Water** - Since 2016 has operated a temporary X-Band radar at the Penitencia Water Treatment Plant. A permanent X-Band radar was deployed in July 2019 at the same location.

Figure A. Map of SF Bay Area AQPI X-Band and C-Band radar locations and coverage when deployments are completed.

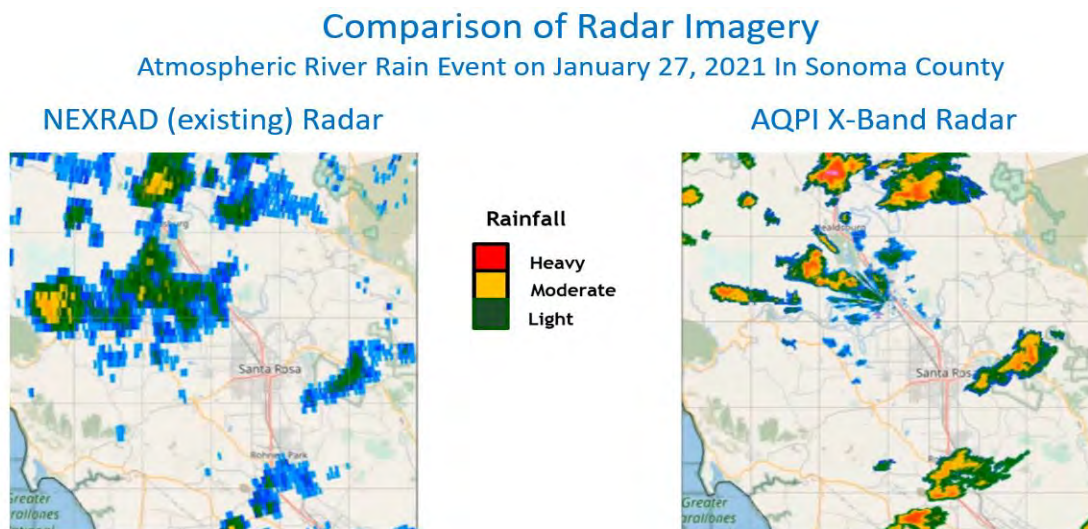


- **San Francisco Public Utilities Commission (SFPUC)** – Plans to deploy a permanent X-Band Radar on Sawyer Ridge in San Mateo County by summer 2023.
- **East Bay Agencies Partnership** – In December 2022, a partnership of East Bay agencies deployed an X-Band radar on Rocky Ridge, adjacent to the Las Trampas Wilderness area. The Rocky Ridge radar is expected to be operational in early 2023. This partnership includes East Bay Municipal Utility District, East Bay Dischargers Authority, Contra Costa County Flood Control & Water Conservation District, Alameda County Flood Control & Water Conservation District, Alameda County Water District, and Zone 7 Water Agency.
- **Santa Cruz County Flood Control and Water Conservation District** deployed an X-Band radar on a county building in August 2022, funded through a grant from DWR’s Statewide Flood Emergency Response Grant program. The radar will send data to the SF Bay Area AQPI system.
- **Sonoma Water** received a grant from FEMA’s Hazard Mitigation Grant Program to deploy an X-Band radar at the Geysers Recycled Water Tank site, managed by the City of Santa Rosa. This radar will send data to the SF Bay Area AQPI system.
- **C-Band Radar** - Regional partners are collaborating to deploy a C-Band radar on the peak of Barnabe Mountain in western Marin county. The C-Band radar will cover the Pacific Coast and also areas inland to complement the X-Band radars, improving precipitation and stream flow forecasting throughout the region.

## SF Bay Area AQPI Benefits: AQPI Radar Imagery from 2021 Atmospheric River Storm

Flooding is a major concern in the Bay Area. See below in Figure B, where AQPI radar provides a more accurate picture of rainfall in Santa Rosa, to better assess the potential for flooding. Note - Warmest colors represent highest rain volume.

*Figure B. NEXRAD vs. AQPI Radar Imagery*



## FOR MORE INFORMATION:

**Dale Roberts**, Sonoma Water, [Dale.Roberts@scwa.ca.gov](mailto:Dale.Roberts@scwa.ca.gov)

**Rob Cifelli**, NOAA Earth System Research Laboratory, [rob.cifelli@noaa.gov](mailto:rob.cifelli@noaa.gov)

**Watch the radars in action now!** [Real-Time Radar Display](#)

**NOAA AQPI website:** <http://www.esrl.noaa.gov/psd/aqpi/>

**Sonoma Water AQPI website:** <https://www.sonomawater.org/aqpi/>

**ITEM NO. OM6 MOTION AUTHORIZING THE GENERAL MANAGER TO ISSUE A CHANGE ORDER TO 4B ON SITE SERVICES, LLC FOR DIESEL FUEL FOR FISCAL YEAR 2022/2023 IN THE AMOUNT OF \$15,001, FOR A TOTAL PURCHASE ORDER VALUE OF \$40,000**

**Recommendation**

Approve a motion authorizing the General Manager to issue a Change Order to the Purchase Order with 4B On Site Services, LLC in the amount of \$15,001 for the purchase of red-dyed diesel fuel in FY 2022/2023.

**Background**

EBDA uses diesel fuel to power emergency back-up generators and pumps. Specifically, diesel-powered generators provide back-up power supply at the Marina Dechlorination Facility (MDF) to power pumps and analyzers, and at the Hayward Effluent Pump Station to power the electric pumps. At the Oro Loma Effluent Pump Station (OLEPS), two diesel-powered pumps can be activated when flows exceed the capacity of the station's two electric pumps, or when electric power is unavailable. OLEPS also has a diesel back-up generator to power cooling fans and ancillary equipment for the diesel pumps.

Over the last several years, EBDA has used a modest amount of diesel, since significant wet weather rarely triggered use of the OLEPS diesel pumps. In FY 2020/2021, EBDA received diesel deliveries of 1,200 gallons for \$4,335, and in FY 2021/2022 EBDA received diesel deliveries of 1,500 gallons for \$5,818. Consistent with past practice, at the start of this fiscal year, EBDA issued a Purchase Order (PO) to its primary diesel supplier, Southern Counties Lubricants, LLC, for diesel deliveries to OLEPS. To maximize flexibility, the PO was issued for \$24,999, which is the maximum amount within the General Manager's signature authority, per EBDA's Purchasing Policy. EBDA's FY 2022/2023 budget for diesel and Captor (the chemical agent used for emergency dechlorination at OLEPS) is \$24,000.

**Discussion**

During the atmospheric river storm event that hit the EBDA service area on December 31, 2022 and the subsequent storm events, EBDA used more diesel fuel than it has since February 2017. This was the second wettest 21 days in San Francisco history since 1849. From December 26, 2022 to January 15, 2023, San Francisco received 17 inches of rain. Considerable quantities of diesel were used at OLEPS, where the diesel pumps saw significant run-time. As a result of these wet weather-driven needs, staff is recommending both increasing and diversifying EBDA's POs for diesel fuel.

During the December 31 storm, although EBDA still had plenty of diesel fuel on hand, staff, placed a diesel fuel order with our normal diesel supplier out of an abundance of caution. After not hearing back from Southern Counties Lubricants over the holiday weekend, EBDA procured diesel from 4B On Site Services (4B), who was delivering fuel to Oro Loma Sanitary District (OLSD). Under a new \$24,999 PO, EBDA scheduled several more diesel fuel deliveries from 4B in coordination with OLSD's deliveries. After

the majority of the rain events had concluded, EBDA scheduled a diesel fuel delivery from our normal fuel supplier.

To date, EBDA has paid 4B \$20,136 and has received an invoice for another \$8,078. Staff is therefore recommending that the PO with 4B be increased to \$40,000 to cover previous diesel deliveries and allow flexibility for additional needs this fiscal year. Combined with the change order for Southern Counties Lubricants recommended under Item No. OM7, this would give EBDA a total of \$80,000 in diesel PO capacity, about half of which has been used to date. During the 2016/2017 wet season, EBDA used approximately \$80,000 worth of diesel.

During the recent storms, staff has also seen the value in diversifying diesel suppliers. This diversification would likely prove particularly valuable in other widespread emergencies such as an earthquake. Therefore, staff is recommending increasing the POs with both 4B and Southern Counties Lubricants for maximum flexibility.

**ITEM NO. OM7 MOTION AUTHORIZING THE GENERAL MANAGER TO ISSUE A CHANGE ORDER TO SOUTHERN COUNTIES LUBRICANTS, LLC FOR DIESEL FUEL FOR FISCAL YEAR 2022/2023 IN THE AMOUNT OF \$15,001, FOR A TOTAL PURCHASE ORDER VALUE OF \$40,000**

**Recommendation**

Approve a motion authorizing the General Manager to issue a Change Order to the Purchase Order with Southern Counties Lubricants, LLC in the amount of \$15,001 for the purchase of red-dyed diesel fuel in FY 2022/2023.

**Background**

As discussed in Item No. OM6, EBDA uses diesel fuel to power emergency back-up generators and pumps. Specifically, diesel-powered generators provide back-up power supply at the Marina Dechlorination Facility (MDF) to power pumps and analyzers, and at the Hayward Effluent Pump Station to power the electric pumps. At the Oro Loma Effluent Pump Station (OLEPS), two diesel-powered pumps can be activated when flows exceed the capacity of the station's two electric pumps, or when electric power is unavailable. OLEPS also has a diesel back-up generator to power cooling fans and ancillary equipment for the diesel pumps.

Over the last several years, EBDA has used a modest amount of diesel, since significant wet weather rarely triggered use of the OLEPS diesel pumps. In FY 2020/2021, EBDA received diesel deliveries of 1,200 gallons for \$4,335, and in FY 2021/2022 EBDA received diesel deliveries of 1,500 gallons for \$5,818. Consistent with past practice, at the start of this fiscal year, EBDA issued a Purchase Order (PO) to its primary diesel supplier, Southern Counties Lubricants, LLC, for diesel deliveries to OLEPS. To maximize flexibility, the PO was issued for \$24,999, which is the maximum amount within the General Manager's signature authority, per EBDA's Purchasing Policy. EBDA's FY 2022/2023 budget for diesel and Captor (the chemical agent used for emergency dechlorination at OLEPS) is \$24,000.

**Discussion**

During the atmospheric river storm event that hit the EBDA service area on December 31, 2022 and the subsequent storm events, EBDA used more diesel fuel than it has since February 2017. This was the second wettest 21 days in San Francisco history since 1849. From December 26, 2022 to January 15, 2023, San Francisco received 17 inches of rain. Considerable quantities of diesel were used at OLEPS, where the diesel pumps saw significant run-time. As a result of these wet weather-driven needs, staff is recommending both increasing and diversifying EBDA's POs for diesel fuel.

To date, EBDA has paid Southern Counties Lubricants \$11,559 for delivered diesel. When added to the diesel deliveries by 4B (See Item No. OM6), EBDA has used about \$40,000 in diesel PO capacity. Staff is recommending that the PO with Southern Counties Lubricants be increased to \$40,000 to allow flexibility for additional needs this fiscal year. Combined with the change order for 4B recommended under Item No. OM6, this would



give EBDA a total of \$80,000 in diesel PO capacity, about half of which has been used to date. During the 2016/2017 wet season, EBDA used approximately \$80,000 worth of diesel.

During the recent storms, staff has also seen the value in diversifying diesel suppliers. This diversification would likely prove particularly valuable in other widespread emergencies such as an earthquake. Therefore, staff is recommending increasing the POs with both 4B and Southern Counties Lubricants for maximum flexibility.

**ITEM NO. OM8 MOTION AUTHORIZING THE GENERAL MANAGER TO ISSUE A CHANGE ORDER TO UNIVAR SOLUTIONS USA, INC. FOR SODIUM BISULFITE 25% SOLUTION FOR FISCAL YEAR 2022/2023 IN THE AMOUNT OF \$150,000, FOR A TOTAL PURCHASE ORDER VALUE OF \$275,000**

**Recommendation**

Approve a motion authorizing the General Manager to issue a Change Order to the Purchase Order with Univar Solutions USA, Inc. (Univar) in the amount of \$150,000 for the purchase of Sodium Bisulfite 25% Solution in FY 2022/2023.

**Background**

EBDA uses Sodium Bisulfite 25% solution (SBS) to dechlorinate the agencies' combined effluent at the Marina Dechlorination Facility. Since 2014, EBDA has elected to work collectively with the Bay Area Chemical Consortium (BACC) to obtain a bid for SBS. The BACC is a consortium of over fifty water and wastewater agencies in Northern California who use their common purchasing power to achieve better pricing for treatment chemicals while reducing the costs of bidding processes. BACC was created and managed by Dublin San Ramon Services District and was recently transitioned to the umbrella of the Bay Area Clean Water Agencies (BACWA).

In FY 2022/2023, Univar was the lowest responsive and responsible bidder. On June 14, 2022, the Commission approved a Motion to issue a Purchase Order to Univar in the amount of \$125,000 for the purchase of SBS 25% solution for FY 2022/2023. This amount was consistent with EBDA's FY 2022/2023 budget for SBS, and it represented a considerable decrease from previous years. The SBS PO in FY 2019/2020 and FY 2020/2021 was \$250,000, and in FY 2021/2022 it was \$235,000. The lower amount for FY 2022/2023 reflected an anticipated reduction in SBS use upon implementation of a new total chlorine residual effluent limit, which was anticipated to take effect earlier this fiscal year. However, EPA's approval of the new total chlorine residual effluent limit has been indefinitely delayed, and EBDA has not been able to reduce SBS usage.

**Discussion**

EBDA has used considerably more SBS than anticipated this fiscal year, primarily for three reasons:

- EPA has not approved the new chlorine residual limit, and thus EBDA has been required to continue overdosing SBS to demonstrate compliance with the instantaneous maximum effluent chlorine limit of 0.0 mg/L.
- As discussed in Items No. OM6 and OM7, an unprecedented amount of rain in EBDA's service area in late December and early January led to historic wastewater flows. Higher flows lead to higher chemical demand.

- Due to occasional high bacterial test results at some Member Agency plants, the 96-inch force main between OLEPS and MDF has been used as an extension of the plants' chlorine contact tanks. Providing a longer contact time with a higher chlorine residual leads to extra SBS usage. The normal target chlorine residual at MDF is 0.25 mg/L to 0.40 mg/L. EBDA received one high Enterococcus result in January, and a second high result would have resulted in a violation. During the month of January, EBDA therefore maintained a chlorine residual at MDF at a higher-than-normal target to prevent a violation.

With the increase in the cost of SBS from FY 2021/2022 to FY 2022/2023, EBDA would have issued a \$275,000 SBS PO if not for the pending implementation of new total chlorine residual effluent limit. Given that implementation of the new limit appears unlikely this fiscal year, staff is recommending approving this Change Order, which would bring the total Purchase Order amount back up to \$275,000 for FY 2022/2023.