



**ITEM NO. 15**

**OPERATIONS & MAINTENANCE COMMITTEE AGENDA**

**Tuesday, May 14, 2024**

**2:00 PM**

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

**This meeting will be teleconferenced from the following location:  
Guest Parking Area Located on Ocaso Camino, West of and Closest to the  
Intersection of Paseo Padre Parkway**

**Teleconference link: <https://us02web.zoom.us/j/88293365682>  
Call-in: 1(669) 900-6833 and enter Webinar ID number: 882 9336 5682**

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

**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. Draft Renewal and Replacement Fund Project List for Fiscal Year 2024/2025**

(The Committee will review the proposed RRF project list for FY 2024/2025.)

**OM7. Ava Community Energy Rate Plan**

(The Committee will provide direction on rate plan selection.)

**OM8. 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.

Agenda Explanation  
East Bay Dischargers Authority  
O&M Agenda  
May 14, 2024

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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>.

**Next Scheduled Operations and Maintenance Committee is  
Tuesday, June 18, 2024, at 2:00 pm**

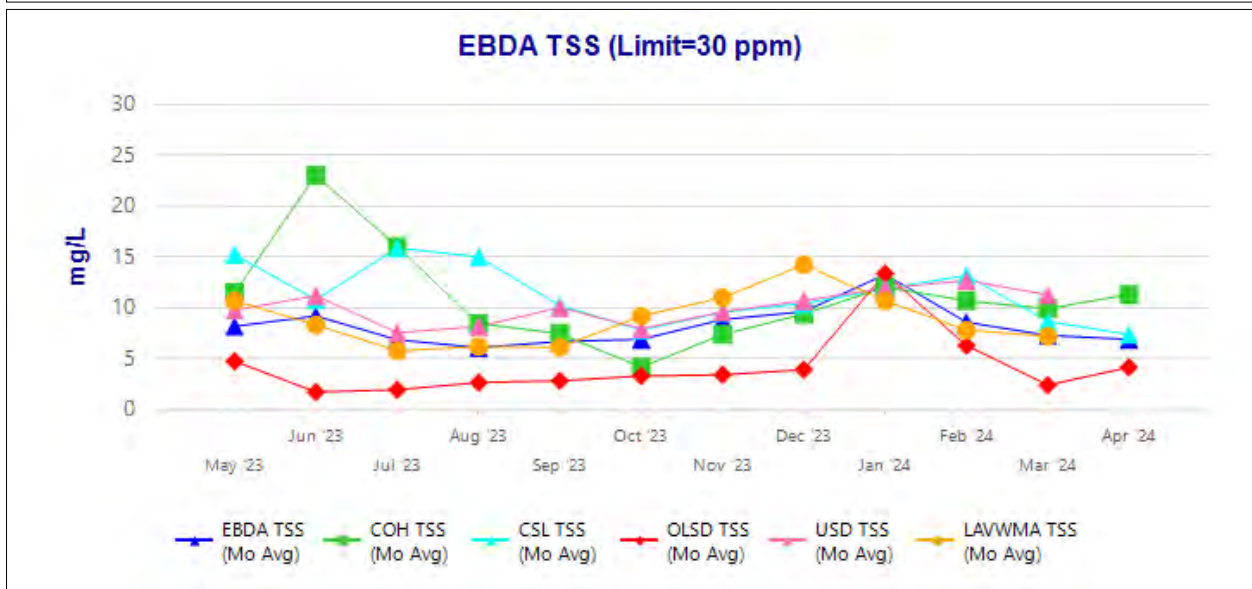
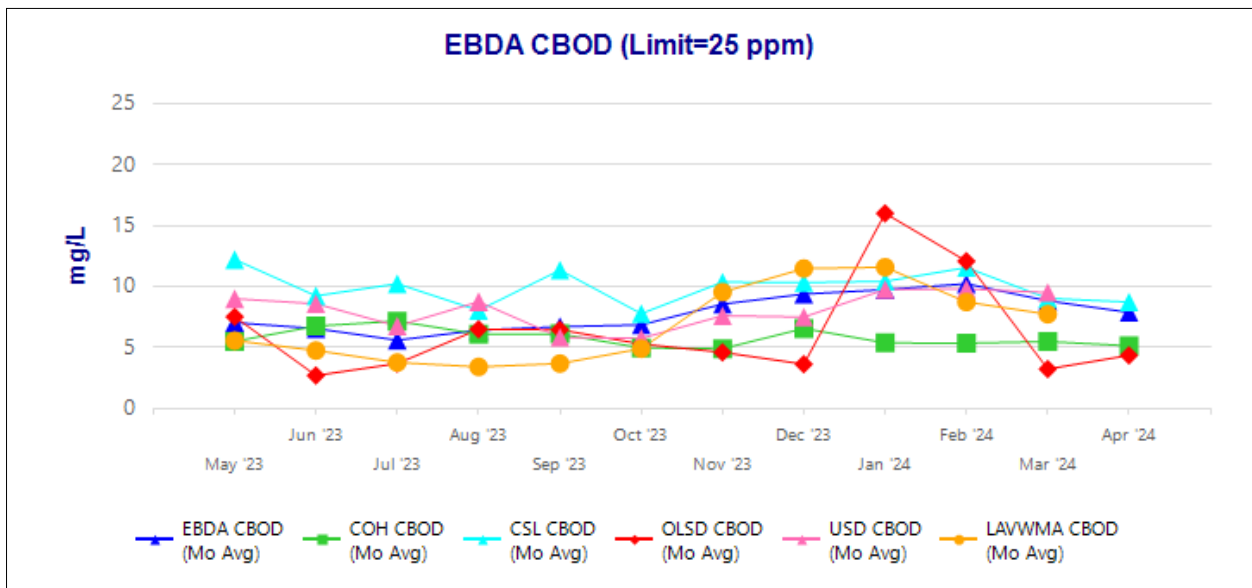
**ITEM NO. OM4 EBDA PERMIT COMPLIANCE**

**Recommendation**

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

**Discussion**

EBDA and its members continued our NPDES compliance in March, and preliminary April data indicates compliance as well. Member Agency CBOD and TSS performance are shown below. A table with bacterial indicators follows.



## EBDA Bacterial Indicators

Date	FECAL	ENTERO
	MPN/ 100mL	MPN/ 100mL
Limit (90th Percentile)	1100	1100
Limit (Geomean)	500	280
<b>May 2023 Geomean</b>	<b>15</b>	<b>122</b>
<b>June 2023 Geomean</b>	<b>8</b>	<b>83</b>
<b>July 2023 Geomean</b>	<b>7</b>	<b>18</b>
<b>August 2023 Geomean</b>	<b>17</b>	<b>5</b>
<b>September 2023 Geomean</b>	<b>47</b>	<b>4</b>
<b>October 2023 Geomean</b>	<b>18</b>	<b>3</b>
<b>November 2023 Geomean</b>	<b>8</b>	<b>8</b>
<b>December 2023 Geomean</b>	<b>7</b>	<b>5</b>
<b>January 2024 Geomean</b>	<b>12</b>	<b>4</b>
<b>February 2024 Geomean</b>	<b>8</b>	<b>15</b>
3/4/2024	4	2
3/5/2024	13	4
3/11/2024	2	10
3/12/2024	2	163
3/13/2024	NA	2
3/18/2024	13	10
3/19/2024	8	4
3/20/2024	NA	6
3/25/2024	33	8
3/26/2024	2	4
<b>March 2024 Geomean</b>	<b>6</b>	<b>7</b>
4/1/2024	2	2
4/2/2024	7	2
4/8/2024	22	4
4/9/2024	13	< 2
4/15/2024	11	2
4/16/2024	2	4
4/22/2024	170	2
4/23/2024	8	6
4/29/2024	4	< 2
4/30/2024	7	8
<b>April 2024 Geomean</b>	<b>9</b>	<b>3</b>

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

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

No change; all equipment is operational.

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

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

The forms around the new concrete base for Effluent Pump No. 4 were removed on April 26, and installation of the new pump is tentatively scheduled for May 10. The new pump will be electrically connected the week of May 13. Once this work is complete, the new pump will be put in service and tested for several weeks before work is started on the next pump.

#### **Pond 3 Valve Actuator Replacement**

As part of the FY 2022/2023 RRF project list, EBDA agreed to split the cost of a new Pond 3 valve actuator with the City of Hayward. The actuator is the property of the City of Hayward, but replacing it will benefit both the City and EBDA. The current actuator does not have a feedback loop, so the information displayed on SCADA is limited. During wet weather storm events, having better information on SCADA will greatly improve EBDA operations. The ability to automatically divert flow to Pond 3 will save EBDA the cost of pumping the flow to Pond 7, which requires using the HEPS pumps. The ability to automatically divert flow to Pond 3 will also save the City the cost of adding sodium hypochlorite to the diverted flow. This project also includes the programming necessary to add the valve operations to SCADA.

The new Pond 3 valve actuator had been scheduled to be installed in mid-April. However, due to an issue with the supplier, the new valve actuator was returned to the manufacturer, and a replacement is on order. Fortunately, the actuator is critical during wet weather and staff expects replacement to be complete well before the next wet season.

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

#### **Retirement of Jeff Schier**

EBDA staff wishes to thank and congratulate Jeff Schier on his retirement in April. Jeff (Gus) Schier began his career with Oro Loma Sanitary District (OLSD) as a Mechanic II on September 11, 2001. He was later promoted to Electrical & Mechanical Technician on January 9, 2017. Jeff held his Journeyman Electrician License from the IBEW since 1975. He is a graduate of the John O'Connell Technical Institute of San Francisco (1972) and has a long history of customer service and quality craftsmanship in the public and private sectors. He has experience installing and servicing equipment in heavy industrial settings including the USS Enterprise Naval Aircraft Carrier, electrical retrofits on commercial and US Naval Ships, generating systems, cargo crane systems, and large equipment

balancing and troubleshooting. During his career, he supervised teams of up to 25 people with tight schedules and was responsible for tens of millions of dollars of mechanical and electrical improvements. In 2019, Jeff's guide roller for the discharge hose on the portable hose reel was awarded first place for the Gimmick/Gadget of the Year Award from the CWEA. He was also part of the team that won the CWEA Plant Safety Award in 2014.

During Jeff's tenure with OLSD, he was responsible for maintaining the EBDA equipment at OLEPS. Jeff was an extraordinary employee who treated the EBDA equipment as if it was his own. Jeff was always available to be called in on nights, weekends, and holidays to repair EBDA equipment as necessary.

EBDA staff has the privilege of working with some exceptional Member Agency employees, and Jeff is one of them. Part of the reason that the EBDA GM and O&M Manager can sleep at night is thanks to the hard work of employees like Jeff. EBDA would like to thank Jeff for his 23 years of dedicated service to the EBDA system and its rate payers.

### **Automatic Transfer Switch Upgrade**

Todd Beecher, EBDA's contract electrical engineer, has commenced the design of two new automatic transfer switches (ATs) at OLEPS. The two new ATs will improve reliability of the pump station in the event of a power outage. If PG&E power fails, the OLEPS emergency generator is the primary source of backup power. Currently, if the emergency generator fails to start, operators can manually switch to the secondary source of backup power from OLSD. The installation of two new ATs will allow the switch from primary to secondary backup to occur automatically. This ATs work is being completed as part of Phase Two of the OLEPS Electrical Upgrades. Replacement of the breakers and refurbishment of the Main Switchboard was completed in Phase One of the OLEPS Electrical Upgrades last year.

### **Skywest Pump Station**

#### **Recycled Water Production**

During the month of April 2024, the Skywest Recycled Water System operated for one day and produced 0.57 million gallons of recycled water.

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

#### **Tree Removal & Trimming**

From April 29 to May 2, five large trees and four small trees at MDF were removed, and the remaining small trees were trimmed. The main concern was the risk that the large trees behind MDF and next to the SBS Storage Building would topple during future storms. During the recent wind storms, one of the small trees at MDF was blown down. The tree did some minor damage to the barbed wire on top of the fence in front of the facility. During this past winter, several large trees at the Golf Course in San Leandro,

near MDF, were blown down. Out of an abundance of caution, the large trees at MDF were removed.



Before



After



Before



After

**Fence Repair & Security Improvements**

On May 3, several cuts in the MDF perimeter fence that had been temporarily repaired in the past were permanently repaired, and barbed wire that was damaged by a blown-down tree was also repaired. Additional security improvements were also made, including installation of additional barbed wire along the back fence, and installation of a sheet of perforated aluminum around the SBS Building roof ladder safety cage. The security improvements should deter people from trying to unlawfully access MDF and the SBS Building roof.



Before



After

**Force Main**

No change; all equipment is operational.

**Operations Center**

No change; all equipment is operational.



## **Miscellaneous Items**

### **Underground Service Alerts**

EBDA received nine (9) Underground Service Alert (USA) tickets during the month of April 2024. Four required an Electronic Positive Response (EPR), and of the four, two required calls/emails to the excavators, and field verification.

### **Wet Weather**

During the month of April 2024, there were no significant rain events that required the operation of an OLEPS diesel pump, and there were no capacity exceedance events.

## **Special Projects**

### **Cargill Brine Project**

As discussed at previous Commission Meetings, following certification of the Final Environmental Impact Report (EIR) for the proposed project, Cargill informed EBDA staff that they have made the decision to re-evaluate the “Bayside” pipeline route. Cargill is continuing to refine the route and expects it to be very similar to the Bayside alternative outlined in the EIR. Cargill is continuing to meet with landowners along the new proposed route. Meetings are planned in the coming weeks with the City of San Leandro and Alameda County Flood and Water Conservation District. Cargill is also investigating an alternative that would upgrade and repurpose a former Shell pipeline.

Cargill’s preliminary schedule shows revised CEQA analysis in 2025, and construction beginning sometime between 2027 and 2029 depending on permitting, with operation commencing between 2031 and 2033. Cargill has requested that EBDA consider an interim Project Approval Agreement between the parties that would allow Cargill to begin construction on elements of the project that do not directly affect EBDA, such as reconfiguration of intakes and pond structures at Cargill’s Newark salt facility. Staff is currently working with Meyers Nave to review and revise a draft agreement and expects to bring it to the Commission for consideration in the coming months. The Project Approval Agreement would be superseded by the final Operating Agreement, once negotiated.

### **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](#) in Las Trampas Regional Wilderness Park in December 2022. Data from the Rocky Ridge site finally became available in early December 2023, and can be viewed and downloaded from the AQPI [website](#). Program Management of AQPI is shifting from Colorado State University to the Center for Western Weather and Water Extremes (CW3E) at Scripps Institution of Oceanography, UC San Diego. CW3E will be developing an updated website and data management tools, which they expect to make available before the 2024-2025 wet season. Staff is planning a site visit to Rocky Ridge for interested Commissioners and other parties in the coming months.

**ITEM NO. OM6 DRAFT RENEWAL AND REPLACEMENT FUND PROJECT LIST  
FOR FISCAL YEAR 2024/2025**

**Recommendation**

Review proposed Renewal and Replacement Fund (RRF) Project List and provide direction to staff.

**Background**

Each year, the Commission is asked to approve a list of capital projects to be undertaken in the upcoming fiscal year using funds from the Authority's Renewal and Replacement Fund. The project list is developed using the Authority's Asset Management Plan (AMP), with input from the Managers Advisory Committee (MAC).

**Discussion**

The Authority's draft RRF Project List for FY 2024/2025 is presented on the following page for the Committee's review and comment, with project explanations on the subsequent pages. Staff plans to bring the final FY 2024/2025 project list to the Commission for consideration in June 2024. Staff is recommending that the agencies' total contribution to the RRF for FY 2024/2025 is \$750,000, consistent with the AMP 20-year projection of funding needs.

**RRF Projects for FY 2024/2025**

<u>Facility</u>	<u>Renewal Replacement Fund Items</u>	<u>Projected Completion Date</u>	<u>Estimated Costs</u>
UEPS	Payment #5 of 10 Per JPA	July 2024	\$ 420,000
HEPS	Painting	June 2025	\$ 50,000
OLEPS	Diesel Engine #1 (Pump #2) Major Service	June 2025	\$ 30,000
OLEPS	Water System Upgrade	June 2025	\$ 30,000
OLEPS	Pump #1 Gear Drive	June 2025	\$ 10,000
MDF	PG&E Access Upgrade	June 2025	\$ 30,000
MDF	Electrical Upgrade	June 2025	\$ 30,000
		FY 2024/2025 Sub-Total	\$ 600,000
		Small Projects Fund	\$ 100,000
		<b>FY 2024/2025 Total</b>	<b>\$ 700,000</b>

**UEPS Payment #5 of 10 per JPA – \$420,000**

The Amended and Restated Joint Powers Agreement (JPA) states that “in fiscal years from 2020/21 through 2029/30, the Authority will pay Union a total of Four Million, Two-Hundred Thousand dollars (\$4,200,000), divided in ten equal and annual installments, as a credit toward their annual budget contribution for Operation and Maintenance Costs, for all Capital Costs associated with the Union Effluent Pump Station during the Term of the Agreement.”

**HEPS Painting – \$50,000**

Painting of the HEPS generator enclosure, piping, and new pumps and motors.

**OLEPS Diesel Engine #1 (Pump #2) Major Service – \$30,000**

Major service including replacing all filters, fluids, thermostats and hoses, replacing the oil cooler, performing valve adjustments, and checking injector timing.

**OLEPS Water System Upgrade – \$30,000**

As part of a past project, EBDA connected a #4 water line from OLSD to OLEPS. The water line is used as a backup to the OLEPS water system to provide cooling water for the pump gear drives and must be switched manually. This project will allow the water to also be used to hose the OLEPS wet wells when they are taken down for preventive maintenance and will add automatic switching capability.

**OLEPS Pump #1 Gear Drive Refurbishment – \$10,000**

Refurbishment of the OLEPS Effluent Pump #1 right-angle gear drive.

**MDF PG&E Access Upgrade – \$30,000**

Replacement of the doors that provide access to the PG&E meter and main breaker behind MDF. This project also includes replacing a section of the concrete walkway behind MDF that provides access to the electrical equipment to address tripping hazards.

**MDF Electrical Upgrade – \$30,000**

A previous project budgeted \$20,000 to replace the MDF Automatic Transfer Switch (ATS) electronic controls. This work was delayed due to implementation of the new chlorine requirements and coordination with PG&E. This project will supplement the funds originally allocated to complete the project and incorporate the replacement of the MDF main breaker.

**Small Projects Fund (formerly Contingency Fund) – \$100,000**

The purpose of the Small Projects Fund is to provide additional funding for unidentified projects and/or equipment that may need to be replaced or refurbished in FY 2024/2025. Much of the smaller ancillary equipment and components that the Authority owns are operated with the intent to ‘run to failure.’ This is a common practice at wastewater facilities with these types of assets, which include fans, valves, actuators, and small pumps and motors. While preventive maintenance is completed on a regular basis, forecasting an exact date of failure is not possible. The criteria for ‘run to failure’ are both

that the equipment can be readily procured and that there is sufficient redundancy to meet system firm capacity. In some cases, staff will purchase critical items and have them on the shelf, reducing system equipment downtime.

**ITEM NO. OM7 AVA COMMUNITY ENERGY PLAN RATE PLAN**

**Recommendation**

Provide direction to staff on any recommended changes to the Authority’s energy plan selections.

**Background**

In 2018, East Bay Community Energy (EBCE), now [Ava Community Energy](#) (Ava), began providing electric energy service to Alameda County customers. Ava is a Joint Powers Authority (JPA) formed by the County of Alameda and eleven of its cities. The JPA expanded in 2021 to include additional Alameda County communities and expects to extend service in 2025 to the San Joaquin County cities of Stockton and Lathrop. Ava currently serves the unincorporated areas of Alameda County (including Ashland, Castro Valley, Cherryland, Fairview, San Lorenzo, and Sunol) as well as San Leandro, Hayward, Fremont, Newark, and Union City.

The goal of Ava is to provide more renewable energy at competitive rates. Ava reinvests earnings back into the community to create local green energy jobs, local programs, and clean power projects.

At the outset, EBCE offered three plans:

Bright Choice	1.5% discount from PG&E rates	85% carbon free and of that, 38% renewable
Brilliant 100	Same rate as PG&E	100% carbon free, 40% renewable
Renewable 100	\$0.01 per kWh above PG&E rates	100% renewable

Enrollment in EBCE plans happened automatically in November 2018. EBCE initially enrolled the accounts for EBDA facilities in plans consistent with the plans selected by the cities in which those facilities reside. The facilities located in San Leandro and San Lorenzo - MDF, SLEPS, and OLEPS – were on the Bright Choice Plan. HEPS was on the Brilliant 100 Plan, as chosen by Hayward. EBDA does not have an account for UEPS; electric services are billed through USD. After considering the costs and benefits of the plan options, the Commission directed enrollment of all EBDA facilities in the Brilliant 100 Plan.

In January 2022, EBCE eliminated the Brilliant 100 plan from its offerings. The updated options were as follows:

Bright Choice	1% below PG&E rates	40% renewable
Renewable 100	\$0.01 per kWh above PG&E rates	100% renewable

After again considering the costs and benefits of the plan options, the Commission directed enrollment of all EBDA facilities in the Renewable 100 Plan.

**Discussion**

Ava has once again updated the details of its rate plans, and staff is seeking direction on plan selection for Authority facilities. MDF, OLEPS, and HEPS are currently enrolled in Renewable 100, based on previous direction. Current rate options are as follows:

Bright Choice	5% below PG&E rates	49.4% renewable
Renewable 100	\$0.0025 per kWh above PG&E rates	100% renewable

Currently, of EBDA’s members, the Cities of San Leandro and Hayward, as well as Oro Loma have opted for the Renewable 100 Plan, and USD is on the Bright Choice Plan.

To illustrate the range of potential cost savings EBDA would realize by switching from Renewable 100 to Bright Choice, staff looked at FY 2021/2022, a dry year, and FY 2022/2023, a wet year. Results of this analysis are shown below. Total savings if all facilities were switched to Bright Choice would range from approximately \$12k to \$19k.

**Dry Year Example (FY 2021/2022):**

	Renewable 100	Bright Choice	Difference
HEPS	\$62,425	\$60,575	\$1,850
MDF	\$51,853	\$50,298	\$1,555
OLEPS	\$289,076	\$280,714	\$8,362
Total	\$403,354	\$391,588	\$11,767

**Wet Year Example (FY 2022/2023):**

	Renewable 100	Bright Choice	Difference
HEPS	\$82,682	\$79,777	\$2,905
MDF	\$54,480	\$52,482	\$1,998
OLEPS	\$389,455	\$375,501	\$13,954
Total	\$526,617	\$507,761	\$18,857

Staff is seeking Committee direction on whether to retain the Renewable 100 plan for all three facilities, or whether to switch to Bright Choice for individual or all facilities. Plan changes can be made at any time. The proposed FY 2024/2025 budget presented in Item No. FM7 assumes Renewable 100 for all facilities.

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