



ITEM NO. 12

OPERATIONS & MAINTENANCE COMMITTEE AGENDA

Monday, May 15, 2023

4:00 P.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. Draft Renewal and Replacement Fund Project List for Fiscal Year 2023/2024

(The Committee will review the proposed RRF project list for FY 2023/2024.)

OM7. 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 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>.

**Next Scheduled Operations and Maintenance Committee:
Monday, June 12, 2023, at 4:00 p.m.**

ITEM NO. OM4 EBDA PERMIT COMPLIANCE

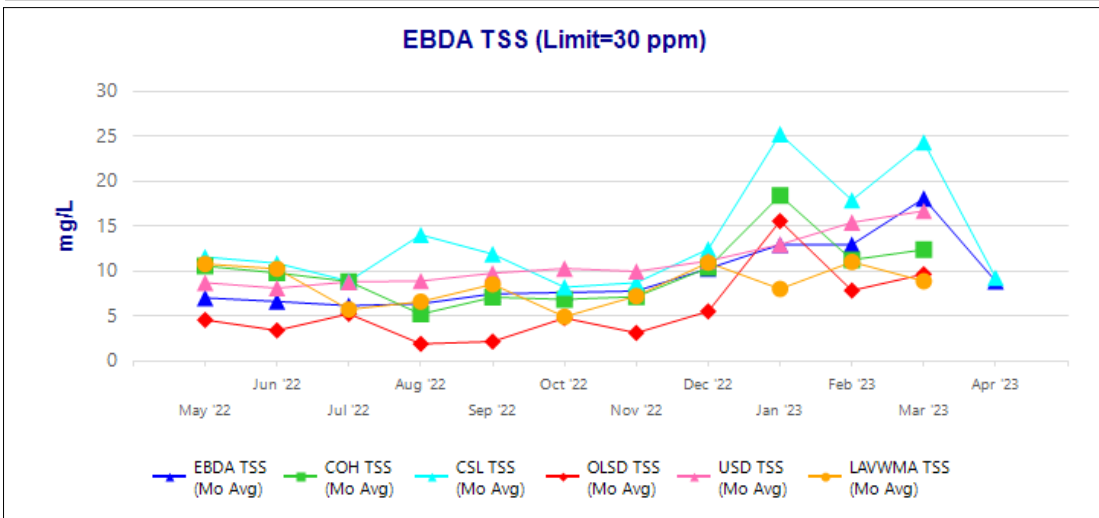
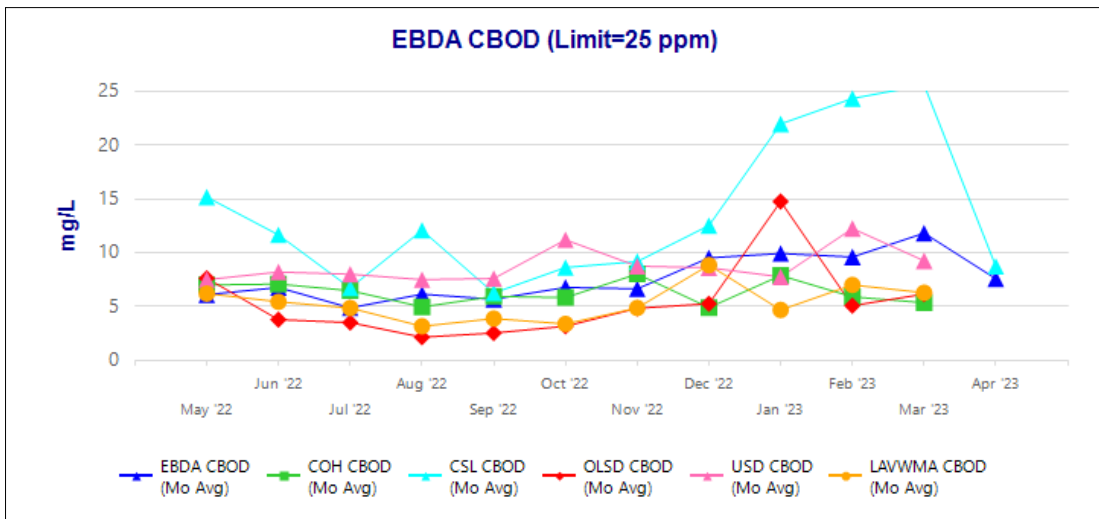
Recommendation

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

Discussion

Member Agency CBOD and TSS performance are shown below. All effluent concentrations met permit limits in March, with the exception of the San Leandro Water Pollution Control Plant (WPCP)’s CBOD weekly average for the week ending March 17, 2023, which was 55.1 mg/L, versus a limit of 25 mg/L. From mid-January through mid-March, a milk processing plant repeatedly discharged highly concentrated waste to the plant, causing extremely heavy loading, including one composite influent CBOD result of 694 mg/L. Operators did the best they could to manage these discharges, but they were unable to divert the milk-laden influent to storage as they may have in the past because of the repeated nature of the illicit discharges, as well as wet weather. As shown in the chart, San Leandro’s plant performance has improved as the milk plant has ceased its concentrated discharges.

A table with bacterial indicators is also included.



EBDA Bacterial Indicators

Date	FECAL	ENTERO
	MPN/ 100mL	MPN/ 100mL
Limit (90th Percentile)	1100	1100
Limit (Geomean)	500	280
May 2022 Geomean	5	48
June 2022 Geomean	5	57
July 2022 Geomean	20	6
August 2022 Geomean	15	34
September 2022 Geomean	43	28
October 2022 Geomean	12	4
November 2022 Geomean	6	6
December 2022 Geomean	21	9
January 2023 Geomean	12	14
February 2023 Geomean	4	2
3/1/2023	NA	6
3/6/2023	4	2
3/7/2023	< 2	< 2
3/8/2023	NA	2
3/13/2023	2	2
3/14/2023	8	< 2
3/20/2023	2	4
3/21/2023	< 2	2
3/27/2023	4	< 2
3/28/2023	8	< 2
March 2023 Geomean	3	2
4/3/2023	11	8
4/4/2023	7	< 2
4/5/2023	NA	6
4/10/2023	4	2
4/11/2023	79	4
4/12/2023	NA	8
4/17/2023	4	6
4/18/2023	8	8
4/24/2023	13	26
4/25/2023	9	30
April 2023 Geomean	10	7

ITEM NO. OM5 STATUS REPORT

Union Effluent Pump Station (UEPS)

Effluent Pump No. 6 Variable Frequency Drive (VFD)

USD staff is in the process of replacing the VFD inverter section for Effluent Pump No. 6, following a VFD failure. The new inverter section is on order and should arrive before the end of May.

Hayward Effluent Pump Station (HEPS)

Effluent Pump Replacement Project

On April 14, 2023, Pump Repair Service Company, Inc. (PRS) sent EBDA the Cascade Pump Company Resubmittal No. 1 for the new HEPS pumps. Currie Engineers (EBDA's project manager) will respond to the submittal shortly with input from EBDA staff, Beecher Engineering (EBDA's electrical engineer), and the City of Hayward. The lead time for the new pumps is 28 weeks after submittal approval.

Oro Loma Effluent Pump Station (OLEPS)

Emergency Outfall Upgrade

The upgrades to the OLEPS emergency outfall were discussed at this month's Managers Advisory Committee (MAC) Meeting. Funds for the upgrade were added to the RRF project list for FY 2023/2024 to complete the project (see Item No. OM6). The upgrade will increase the height of the weir, increasing system detention time and delaying or preventing an unanticipated bypass in the event of a catastrophic failure at OLEPS. The original concept was to remove the existing lumber weir and replace it with a permanent concrete weir at an increased elevation. The new concept is to install a new permanent stainless steel weir at an increased elevation. By changing the material of the new weir from concrete to stainless steel, the installation of the new weir will be greatly simplified, saving money.

Main Electrical Switchboard Upgrade

This project will be complete once Schneider Electric installs the new blanks or spacers to cover the space between the new breakers and the front panels.

Skywest Pump Station

Recycled Water Production

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

Power Outage & Communication Issues

As a result of the March storms, there was a PG&E power outage to the City of Hayward's and EBDA's equipment near the Skywest center pond. PG&E replaced at least one power pole near the location, but the power was still off. EBDA staff worked with the City of Hayward staff, who in turn worked with PG&E to reestablish the power. Once the power was back on, EBDA was experiencing communication issues. Calcon is working on the issue and EBDA was able to send water to the Skywest ponds starting on May 2nd.

Marina Dechlorination Facility (MDF)

No change; all equipment is operational.

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 2023. Four required an Electronic Positive Response (EPR) and calls/emails to the excavators.

Wet Weather

During the month of April 2023, there were no significant rain events that required the operation of an OLEPS diesel pump, and there were no capacity exceedance events.

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

Work continues on the Administration Building roof. The OLEPS roof is complete, with the exception of the final inspection and any punch list items that are found. The MDF SBS Building roof is complete, with the exception of the installation of the downspouts, the final inspection, and any punch list items.

Cargill Brine Project

Staff is working with Cargill and our CEQA consultant, Ascent Environmental, on responding to comments received on the Draft Environmental Impact Report (EIR) for the Cargill Mixed Sea Salts Processing and Brine Discharge Project. The formal Response to Comments document will be posted on EBDA's [website](#) when complete, as part of the Final EIR. Staff expects to ask the Commission to consider certification of the EIR in June 2023.

Staff is also negotiating a Project Development and Operating Agreement with Cargill, which would be brought to the Commission for consideration in the coming months. A draft agreement was transmitted to Cargill in late February, following MAC review. A draft technical addendum has also 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 in December 2022. EBDA members can access regional data through AQPI's data portal. 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.

**ITEM NO. OM6 DRAFT RENEWAL AND REPLACEMENT FUND PROJECT LIST
FOR FISCAL YEAR 2023/2024**

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 2023/2024 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 2023/2024 project list to the Commission for consideration in June 2023. Staff is recommending that the agencies' contribution to the RRF for FY 2023/2024 is \$750,000, consistent with the AMP 20-year projection of funding needs.

RRF Projects for FY 2023/2024

<u>Facility</u>	<u>Renewal Replacement Fund Items</u>	<u>Projected Completion Date</u>	<u>Estimated Costs</u>
UEPS	Payment #4 of 10 Per JPA	July 2023	\$ 420,000
HEPS	Additional Funds To Complete Effluent Pump Replacement Project	June 2024	\$ 330,000
OLEPS	Emergency Outfall Upgrade Construction Funds	June 2024	\$ 55,000
OLEPS	North Wet Well Gate Repair	October 2023	\$ 75,000
OLEPS	OLSD Battery Backup	December 2023	\$ 10,000
OLEPS, HEPS & MDF	Solar Engineering	June 2024	\$ 25,000
MDF	Painting	October 2023	\$ 45,000
MDF	SCADA Upgrade	June 2024	\$ 10,000
EBDA Office	Security Upgrade	June 2024	\$ 10,000
		FY 2023/2024 Sub-Total	\$ 980,000
		Small Projects Fund	\$ 100,000
		FY 2023/2024 Total	\$ 1,080,000

UEPS – Payment #4 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 – Effluent Pump Replacement Completion – \$330,000

This item provides additional funds to complete replacement of the four pumps at HEPS. The Commission approved a contract with Pump Repair Service Company, Inc. (PRS) in the amount of \$725,900. \$400,000 had previously been allocated.

OLEPS – Emergency Outfall Upgrade Construction – \$55,000

This upgrade to the emergency outfall will remove the existing lumber weir and replace it with a permanent weir at an increased elevation. Increasing the height of the weir will increase system detention time and delay or prevent an unanticipated bypass in the event of a catastrophic failure at OLEPS.

OLEPS – North Wet Well Gate Repair – \$75,000

The large North Wet Well influent gate has a broken guide-bearing and a bent shaft. These items will be repaired, and a total of four gates will be serviced.

OLEPS – OLSD Battery Backup – \$10,000

Oro Loma Sanitary District (OLSD) is planning to complete a battery storage project that will provide back-up power for the treatment plant. OLEPS will also be able to tie into the system, providing additional reliability in the event of a power failure. These funds represent EBDA’s contribution to the project.

OLEPS, HEPS & MDF – Solar Engineering – \$25,000

In FY 2022/2023, Black & Veatch Engineers began a Solar and Battery Energy Storage Assessment for EBDA’s facilities as a subtask of their similar study for Union Sanitary District. These funds are to complete the study and begin engineering work for any feasible project(s).

MDF – Painting – \$45,000

With the SBS Building roof project nearly complete, staff is recommending internal painting of the SBS Building and external painting of the trim, doors, and other non-brick surfaces of both buildings at the facility. The whale mural will not be affected.

MDF – SCADA Upgrade – \$10,000

The facility computer will be replaced and new upgraded SCADA software, that was previously purchased, will be installed.

EBDA Office – Security Upgrade – \$10,000

OLSD is planning security improvements around its Administration and Engineering Buildings and EBDA’s office, as well as the shared parking lot, to improve safety and prevent theft. These funds represent EBDA’s contribution to the project.

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 2023/2024. 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.