



ITEM NO. 14

OPERATIONS & MAINTENANCE COMMITTEE AGENDA

Tuesday, June 18, 2024

3:00 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. Motion to Approve the Renewal and Replacement Fund Project List for Fiscal Year 2024/2025

(The Committee will consider the motion.)

OM7. Motion Authorizing the General Manager to Issue a Purchase Order to Thatcher Company of California, Inc. for Sodium Bisulfite 25% Solution for Fiscal Year 2024/2025 in the Amount of \$50,000

(The Committee will consider the motion.)

OM8. Motion Authorizing the General Manager to Enter Into a Professional Services Agreement With Calcon Systems, Inc. in the Amount of \$450,000 for Electrical, Instrumentation, and Emergency Services in Fiscal Years 2024/2025, 2025/2026, and 2026/2027

(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 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>.

<p style="text-align: center;">Next Scheduled Operations and Maintenance Committee is Monday, July 15, 2024, at 4:00 pm</p>
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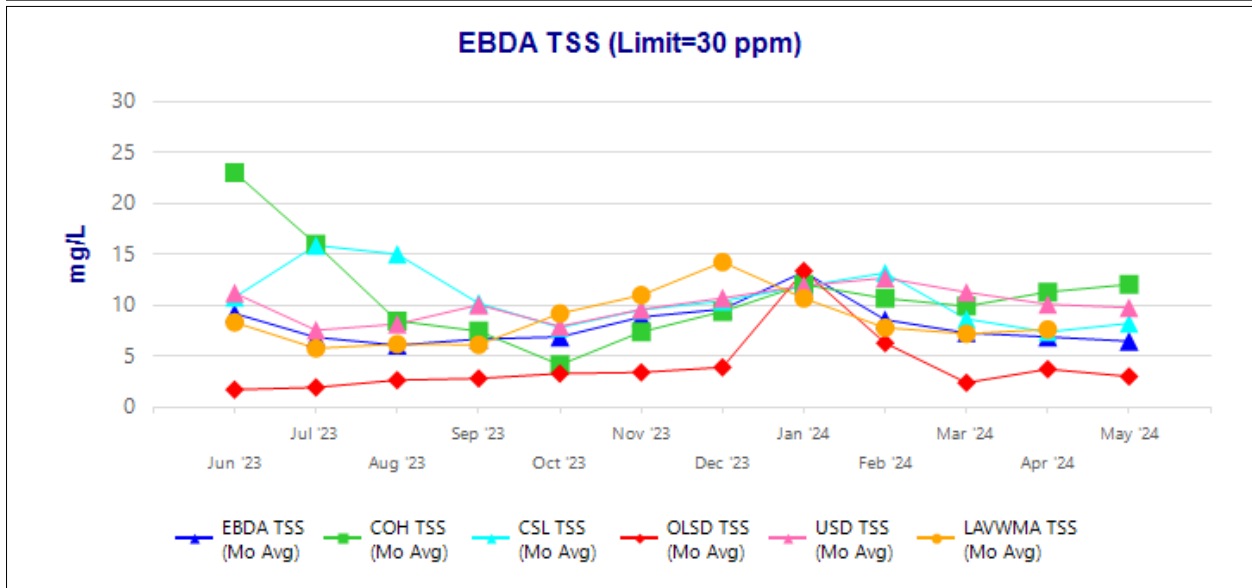
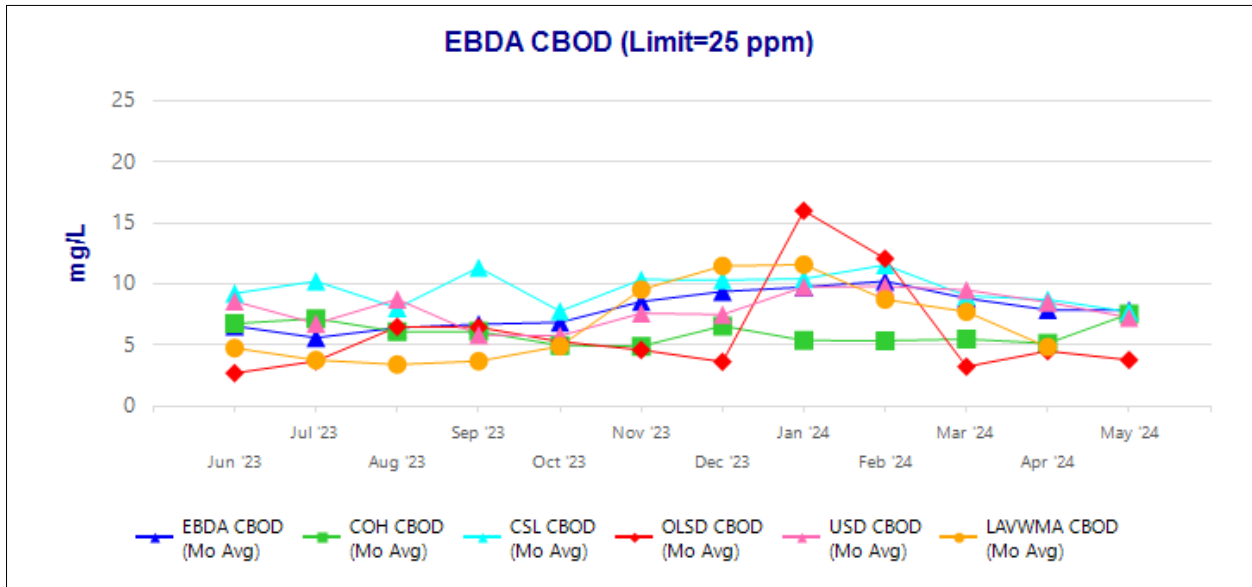
ITEM NO. OM4 EBDA PERMIT COMPLIANCE

Recommendation

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

Discussion

EBDA and its members continued our NPDES compliance in April, and preliminary May 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
June 2023 Geomean	8	83
July 2023 Geomean	7	18
August 2023 Geomean	17	5
September 2023 Geomean	47	4
October 2023 Geomean	18	3
November 2023 Geomean	8	8
December 2023 Geomean	7	5
January 2024 Geomean	12	4
February 2024 Geomean	8	15
March 2024 Geomean	6	7
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
April 2024 Geomean	9	3
5/1/2024	NA	8
5/6/2024	< 2	6
5/7/2024	13	2
5/8/2024	NA	4
5/13/2024	4	< 2
5/14/2024	70	6
5/20/2024	33	< 2
5/21/2024	13	6
5/27/2024	13	4
5/28/2024	11	8
May 2024 Geomean	12	4

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

On May 10, the new Effluent Pump No. 4 was placed on the new concrete pump pad. Unfortunately, the pump contractor ordered the wrong length discharge couplings, so the pump could not be permanently installed. The correct length discharge couplings are on order, and installation work should proceed by this time next month. Once the couplings are installed, the new pump will be electrically connected, and then the new pump will be put in service and tested for several weeks. Because wet weather has ended, work to install the second new pump will begin as soon as the first new pump is operational.

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 the replacement to be complete well before the next wet season.

Oro Loma Effluent Pump Station (OLEPS)

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 2 of the OLEPS Electrical Upgrades. Replacement of the breakers and refurbishment of the Main Switchboard was completed in Phase 1 of the OLEPS Electrical Upgrades last year.

Skywest Pump Station

Recycled Water Production

During the month of May 2024, the Skywest Recycled Water System operated for two days and produced 1.12 million gallons of recycled water.

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 eleven (11) Underground Service Alert (USA) tickets during the month of May 2024. Three required an Electronic Positive Response (EPR) and calls/emails to the excavators, and of the three, one required field verification.

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 2030 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](#). Commissioners and staff are invited to attend a site visit at Rocky Ridge on the afternoon of June 28, 2024. Program Management of AQPI has shifted 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. A user feedback meeting to inform development of the website and tools is planned for August 27, 2024.

**ITEM NO. OM6 MOTION TO APPROVE THE RENEWAL AND REPLACEMENT FUND
PROJECT LIST FOR FISCAL YEAR 2024/2025**

Recommendation

Approve the Renewal and Replacement Fund (RRF) Project List for FY 2024/2025.

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). The draft Project List was reviewed with the Committee in May 2024.

Discussion

The Authority's proposed RRF Project List for FY 2024/2025 is presented on the following page, with project explanations on the subsequent pages. Staff is recommending that the agencies' 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	Generator Radiator Replacement	June 2025	\$ 25,000
HEPS	Painting	June 2025	\$ 20,000
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	\$ 45,000
MDF	Electrical Upgrade	June 2025	\$ 40,000
EBDA Office	Security Upgrades	December 2024	\$ 40,000
EBDA Office	Health & Safety Improvements	June 2025	\$ 35,000
		FY 2024/2025 Sub-Total	\$ 695,000
		Small Projects Fund	\$ 100,000
		FY 2024/2025 Total	\$ 795,000

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 – Generator Radiator Replacement – \$25,000

Replacement of the HEPS generator radiator.

HEPS – Painting – \$20,000

Painting of the HEPS generator enclosure, 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 OLSD 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 for the pump gear drives’ cooling water.

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

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

MDF – PG&E Access Upgrade – \$45,000

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 – \$40,000

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 and incorporate the replacement of the MDF main breaker.

EBDA Office – Security Upgrades – \$40,000

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. \$10,000 was budgeted in FY 2023/2024’s RRF Project List for EBDA’s contribution to the project; however, overall project costs have increased to over \$600,000, so staff is recommending that EBDA contribute an additional \$20,000 for its share of the project. The remaining funds will be used to install a drain in front of the EBDA office front door and make the necessary walkway improvements to prevent water from pooling in front of the door and damaging EBDA’s office floor.

EBDA Office – Health & Safety Improvements – \$35,000

During the EBDA office floor replacement last year, dry rot and mold were found, prompting staff to evaluate air flow in the building and basement. EBDA’s HVAC contractor recommended installation of additional vents and a fan that is controlled automatically with a moisture sensor. This project will implement these recommendations to prevent future moisture-related issues.

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 MOTION AUTHORIZING THE GENERAL MANAGER TO ISSUE A PURCHASE ORDER TO THATCHER COMPANY OF CALIFORNIA, INC. FOR SODIUM BISULFITE 25% SOLUTION FOR FISCAL YEAR 2024/2025 IN THE AMOUNT OF \$50,000

Recommendation

Approve a motion authorizing the General Manager to issue a Purchase Order (PO) to Thatcher Company of California, Inc. (Thatcher) in the amount of \$50,000 for the purchase of Sodium Bisulfite 25% Solution in FY 2024/2025.

Background

Since 2014, EBDA has elected to work collectively with the Bay Area Chemical Consortium (BACC) to obtain a bid for Sodium Bisulfite 25% Solution (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 transitioned to the umbrella of the Bay Area Clean Water Agencies (BACWA). Each agency member of BACC is responsible for issuing its own PO with the supplier. Univar Solutions USA, Inc. had been the selected bidder for SBS over the past several years.

Discussion

This year, Thatcher Company of California, Inc. was the lowest responsive and responsible bidder for SBS, with a delivered cost of \$1.64 per gallon, not including sales tax. The per gallon cost of SBS has decreased by \$0.205, or 11.11% from FY 2023/2024.

In addition to the decrease in unit cost, EBDA is projecting a significant decrease in usage of SBS in FY 2024/2025 relative to prior years. This decrease results from the permit amendment that went into effect on January 1, 2024 that revised EBDA's chlorine residual effluent limit from 0.0 mg/L chlorine as an instantaneous maximum to 0.98 mg/L as a one-hour average. EBDA's SBS expense for FY 2022/2023 was around \$275,000, whereas for FY 2023/2024, with the new limit implemented halfway through the fiscal year, staff projects a total SBS expense of \$143,000.

As a result of the decreased demand and unit cost for SBS, staff is recommending a considerably smaller PO this year of \$50,000. This amount is consistent with the FY 2024/2025 budget adopted by the Commission in May.

ITEM NO. OM8 MOTION AUTHORIZING THE GENERAL MANAGER TO ENTER INTO A PROFESSIONAL SERVICES AGREEMENT WITH CALCON SYSTEMS, INC. IN THE AMOUNT OF \$450,000 FOR ELECTRICAL, INSTRUMENTATION, AND EMERGENCY SERVICES IN FISCAL YEARS 2024/2025, 2025/2026, AND 2026/2027

Recommendation

Approve a motion authorizing the General Manager to enter into a professional services agreement with Calcon Systems, Inc. (Calcon) in the amount of \$450,000 for fiscal years 2024/2025, 2025/2026, and 2026/2027.

Background

Calcon has provided electrical, instrumentation, and emergency maintenance services to the Authority since 1992 and performs similar work for several EBDA member agencies. The Authority's most recent contract with Calcon was signed in 2019 and included FY 2019/2020, 2020/2021, and 2021/2022, with two optional one-year extensions that were exercised for FY 2022/2023 and 2023/2024.

Currently, the Calcon contract labor rate is \$155 per hour. Total disbursements to Calcon in past years have varied, with some years nearing \$150,000.

Discussion

Staff is recommending that the Authority enter into a contract similar to the previous one, with labor rates defined for the first three years and an option of two one-year extensions based on contract performance and cost of living.

The following labor rates have been proposed, which represent increases of just over 3% annually:

- FY 2024/2025: \$160 per hour, plus travel mileage
- FY 2025/2026: \$165 per hour, plus travel mileage
- FY 2026/2027: \$170 per hour, plus travel mileage

Travel mileage will be billed at the Standard Mileage Rates for Business as published by the IRS.

Staff anticipates spending up to \$150,000 per year for three years, for a total of \$450,000. This approach is consistent with prior approvals of \$150,000 per year for the last ten years. The Authority will only be charged for work actually completed. If additional funds are required for the optional two years, staff would come back to the Commission to amend the contract.

There are several reasons for selecting Calcon to provide contract support for the Authority's electrical, instrumentation, and emergency services maintenance requirements. Calcon provides the best value in cost per hour pricing. After contacting

nearby agencies, it appears that Calcon is charging EBDA less than the cost for similar work performed at other agencies. They also do not charge EBDA a minimum number of hours per service call or an overtime rate for nights, weekends, holidays or workdays over 8 hours. Calcon has detailed historical knowledge of the entire EBDA system and has proven to be a reliable contractor. They have provided strong performance, excellent work product, and the necessary 24-hour response to EBDA's system emergencies. Calcon provides the 24-hour emergency stand-by service at no additional charge.