



EAST BAY DISCHARGERS AUTHORITY
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A Joint Powers Public Agency

NOTICE: Pursuant to the Governor's Executive Orders N-25-20 and N-29-20, the Operations & Maintenance Committee meeting scheduled below will be accessible via Zoom video conferencing. Members of the public may participate in the meeting through the Zoom platform or phone number below.

- Zoom link: <https://us02web.zoom.us/j/84250769407>
- Telephone dial-in: 1(669) 900-6833, meeting ID #842 5076 9407

ITEM NO. 15

OPERATIONS & MAINTENANCE COMMITTEE AGENDA

Tuesday, July 13, 2021

9:00 A.M.

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

Committee Members: Toy (Chair); Cutter

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 Execute a Professional Services Agreement with Beecher Engineering, Inc. in the Amount of \$75,000 for Electrical Engineering Services in Fiscal Years 2021/2022, 2022/2023, and 2023/2024

(The Committee will consider the motion.)

OM7. Motion Authorizing the General Manager to Execute a Professional Services Agreement with Currie Engineers, Inc. in the Amount of \$75,000 for Project and Construction Management Services in Fiscal Years 2021/2022, 2022/2023, and 2023/2024

(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>The next O&M Committee meeting will be held Tuesday, September 21, 2021, at 9:00 a.m.</p>

ITEM NO. OM4 EBDA PERMIT COMPLIANCE

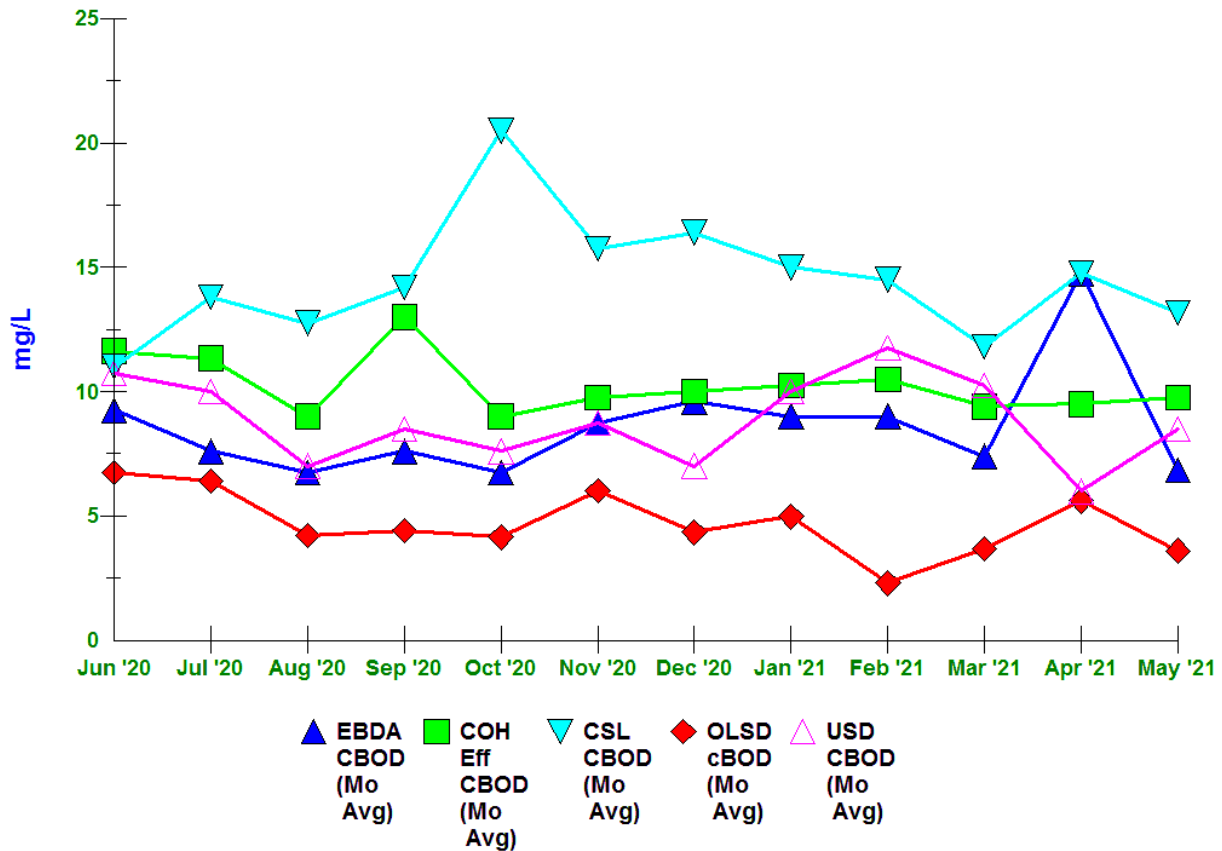
Recommendation

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

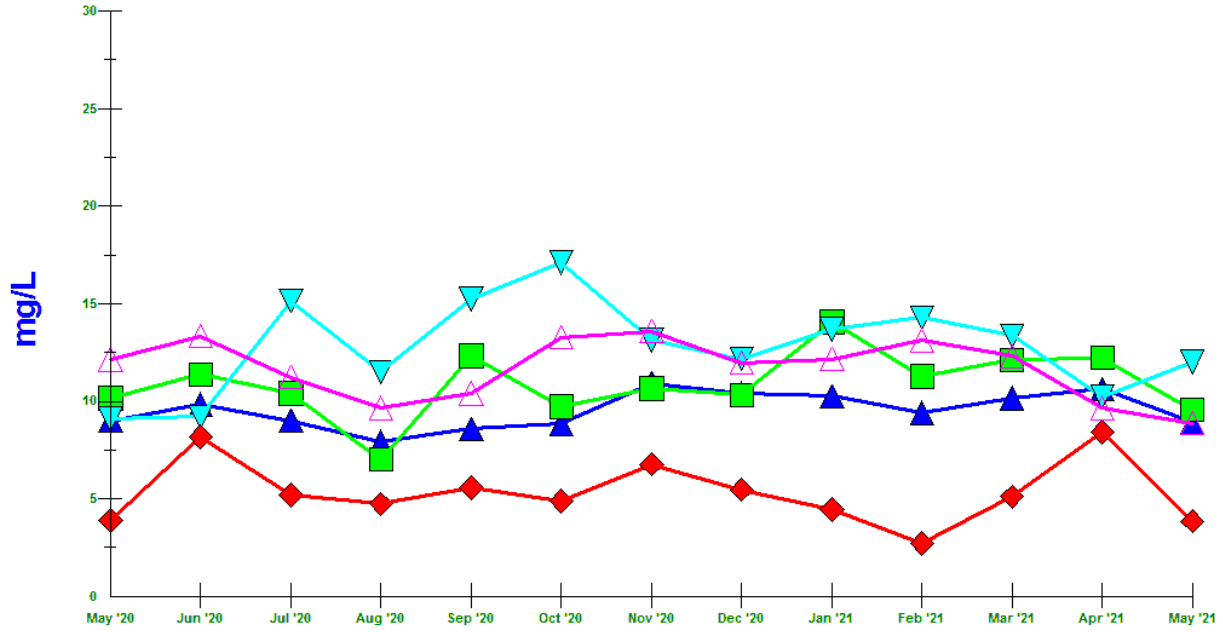
Permit Compliance Issues

There were no NPDES permit violations in May, and preliminary data from June are also free of permit exceedances. Member Agency CBOD and TSS performance are shown below. A table with bacterial indicators is also included.

EBDA CBOD (Limit=25 ppm)



EBDA TSS (Limit 30 ppm)



▲ EBDA TSS (Mo Avg)
 ■ COH Eff TSS (Mo Avg)
 ▼ CSL TSS (Mo Avg)
 ◆ OLSD TSS (Mo Avg)
 △ USD TSS (Mo Avg)

EBDA EFF TSS

EBDA Bacterial Indicators

Date	FECAL	ENTERO
	MPN/ 100mL	MPN/ 100mL
Limit (90th Percentile)	1100	
Limit (Geomean)	500	240
July 2020 Geomean	27	3
August 2020 Geomean	23	3
September 2020 Geomean	41	5
October 2020 Geomean	30	9
November 2020 Geomean	11	4
December 2020 Geomean	9	2
January 2021 Geomean	5	3
February 2021 Geomean	6	3
March 2021 Geomean	5	3
April 2021 Geomean	13	3
5/3/2021	15	17
5/4/2021	13	3
5/5/2021	4	2
5/10/2021	12	4
5/11/2021	13	8
5/12/2021	13	4
5/17/2021	3	8
5/18/2021	8	31
5/24/2021	32	4
5/25/2021	17	14
5/31/2021	6	2
May 2021 Geomean	10	6
6/1/2021	4	13
6/2/2021	11	4
6/7/2021	29	13
6/8/2021	2	< 3
6/9/2021	8	8
6/14/2021	3	2
6/15/2021	33	< 2
6/21/2021	51	< 2
6/22/2021	700	10
6/28/2021	6	< 2
6/29/2021	4	2
June 2021 Geomean	13	4

ITEM NO. OM5 STATUS REPORT

Union Effluent Pump Station (UEPS)

No change; all equipment is operational.

Hayward Effluent Pump Station (HEPS)

No change; all equipment is operational.

Oro Loma Effluent Pump Station (OLEPS)

Training Modules

On June 30, 2021, EBDA staff met with Stephen Cahill from DKF Solutions Group to review the new OLEPS Standard Operating Procedures, which were used to create the new Training Modules. Staff suggested some minor edits which should be incorporated within the next several weeks and then presented to OLSD staff for their review.

Main Electrical Switchboard Upgrade

On June 18, 2021, Todd Beecher from Beecher Engineering, Inc. (BEI) spent the day at OLEPS preparing an upgraded single line diagram that was sent to Schneider Electric. The information from this diagram, along with information that EBDA staff obtained from PG&E, will be used by Schneider Electric to complete a power system study and an arc flash analysis as part of the OLEPS Main Electrical Switchboard Upgrade Project. Staff is recommending a three-year agreement for BEI to continue work on this and other projects (see Item No. OM6).

San Leandro Effluent Pump Station (SLEPS)

No change; all equipment is operational.

Skywest Pump Station

Recycled Water Production

During the month of June 2021, the Skywest Recycled Water System operated every Tuesday, for a total of five days, and produced 2.64 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 June 2021. Ten required an Electronic Positive Response (EPR), and of the ten, four required calls/emails to the excavators, and three required field verification.

San Lorenzo Earthquake

On June 28, 2021, at 6:29 pm, a 3.9 magnitude earthquake struck the East Bay. The earthquake's epicenter was near San Lorenzo, according to the United States Geological Survey (USGS). Shortly after the earthquake occurred, EBDA staff conducted inspections of the EBDA facilities near the epicenter. OLEPS and MDF were inspected, along with the force main in that area. The next day, EBDA staff and the San Leandro force main crew conducted a more detailed inspection of the force main between Hayward and San Leandro, including the Skywest force main. All infrastructure appeared in good condition and no impacts were observed.

COVID-19 Response

All EBDA staff members are fully vaccinated. Per Commission direction at its May 2021 meeting, the Commission will resume meeting in person in September. Committee meetings will continue to be conducted via Zoom as long as permissible under Brown Act rules.

Staff is also continuing to track research efforts utilizing data on the prevalence of SARS-CoV-2 virus in wastewater influent to identify and anticipate COVID-19 community trends, termed wastewater-based epidemiology (WBE) or sewage surveillance. Going forward, WBE may be used for early detection of outbreaks once the virus is generally under control, as well as identification of variants present in the community.

Special Projects

Disinfection Master Plan

Staff is continuing to work with Carollo Engineers on a Disinfection Master Plan, per the Work Order approved in February 2021. The goal of the Master Plan is to develop a strategy for sodium hypochlorite (hypo) dosing and monitoring to prevent bacteria outbreaks and ensure consistent permit compliance while optimizing chemical dosage – both for disinfection and for dechlorination. To date, the Member Agencies have provided data and information on current hypo dosing practices, and site visits were conducted at each facility on May 24th & 25th. Carollo has been reviewing the information collected and developing preliminary recommendations. The next step will be meeting with each Member Agency to review and discuss findings, followed by MAC discussion of preliminary recommendations.

Cargill Brine Project Due Diligence

EBDA staff is continuing to work with Cargill to develop strategies to address the risks of adding brine to the EBDA transport system. In the Corrosion Protection Evaluation Project, Brown & Caldwell screened a multitude of potential mitigation options for protecting vulnerable sections of the force main from corrosion associated with brine addition. The list of options has now been narrowed to three in-pipe options, which will be evaluated for cost, constructability, and other factors. These in-pipe options will also be compared with the option to extend Cargill's pipe to a connection point further downstream in EBDA's system where there is greater dilution and less open channel flow.

On June 8, 2021, EBDA staff assisted Cargill's consultant with a radio survey of the EBDA force main at the proposed Cargill connection point, the UEPS surge tower, and the EBDA office. On July 1, 2021, a meeting was held to review the results of the radio survey and discuss the data that will be exchanged between EBDA and Cargill.

In parallel, staff is working with the Authority's legal team at Meyers Nave to evaluate options for project ownership and execution to take advantage of Cargill's flexibility as a private entity and EBDA's public franchise rights for pipeline installation access in city streets. A three-party agreement between Cargill, EBDA, and the City of Union City is also under development to facilitate the incorporation of the pipeline into Union City's upcoming Union City Boulevard bike lane project.

In addition, on July 14, 2021, the team will hold a kick-off meeting for the environmental review process for the overall project under the California Environmental Quality Act (CEQA).

Staff and legal counsel will present the Commission with a comprehensive overview of the proposed project, legal framework, risks, and opportunities in the coming months. If the project moves forward as planned, the Commission will ultimately be asked to approve the CEQA documentation, the three-party agreement with Union City, and a project agreement with Cargill, likely in late 2021 or early 2022.

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. On April 20th, Sonoma Water's Board of Directors approved the agreements for the East Bay radar deployment and for the lease with American Tower. Installation of the radar at Rocky Ridge is scheduled for July 12-16, 2021.

ITEM NO. OM6 MOTION AUTHORIZING THE GENERAL MANAGER TO EXECUTE A PROFESSIONAL SERVICES AGREEMENT WITH BEECHER ENGINEERING, INC. IN THE AMOUNT OF \$75,000 FOR ELECTRICAL ENGINEERING SERVICES IN FISCAL YEARS 2021/2022, 2022/2023, AND 2023/2024

Recommendation

Approve a motion authorizing the General Manager to execute an agreement for electrical engineering services with Beecher Engineering, Inc. for the next three fiscal years, with work to be authorized on a work order basis.

Background

Todd Beecher has served as EBDA's contract electrical engineer for many years. Mr. Beecher has completed several electrical evaluations for EBDA, and most recently, he was the electrical design consultant and provided electrical engineering services during construction for the HEPS MCC replacement project. Mr. Beecher is very familiar with EBDA's facilities and performs work for several of the Member Agencies as well.

Discussion

Staff is recommending that Mr. Beecher's firm, Beecher Engineering, Inc. (BEI) be retained under a professional services contract for three years to continue ongoing and as-needed electrical engineering for planned Renewal and Replacement Fund (RRF) Projects. The proposed agreement also contains two optional one-year extensions that may be exercised by the Authority. The agreement will be funded out of the RRF project authorizations.

The agreement is structured on a work order basis with a total agreement cost ceiling of \$75,000 over three years. BEI may only perform work under assigned work orders. Work will be billed against each work order on a time and materials basis up to a maximum work order value. Therefore, the Authority is only billed for work actually completed.

Staff proposes to issue two work orders upon contract execution. The first would be an as-needed work order under which BEI would complete small assignments at the direction of the Operations & Maintenance Manager up to a total of \$25,000. Work order two would authorize BEI to develop electrical engineering designs for the two new OLEPS Automatic Transfer Switches (ATS) as part of the OLEPS Electrical Upgrade Project. In the event of a power failure at OLEPS, power would switch via the first ATS to the station's emergency generator. If that generator fails to start, the second ATS would transfer power to OLEPS from OLSD's emergency generator. With the new ATS configuration, EBDA would still have the option of connecting a portable emergency generator. The cost ceiling for the proposed BEI work order is \$8,400.

Mr. Beecher's proposed billing rates for the three years of this contract are \$210.00/hour (FY21/22), \$215.00/hour (FY22/23), and \$220.00/hour (FY23/24). Mr. Beecher has charged the Authority \$200/hour since 2018, so these rates represent a modest increase, and BEI's services remain very cost-effective.

ITEM NO. OM7 MOTION AUTHORIZING THE GENERAL MANAGER TO EXECUTE A PROFESSIONAL SERVICES AGREEMENT WITH CURRIE ENGINEERS, INC. IN THE AMOUNT OF \$75,000 FOR PROJECT AND CONSTRUCTION MANAGEMENT SERVICES IN FISCAL YEARS 2021/2022, 2022/2023, AND 2023/2024

Recommendation

Approve a motion authorizing the General Manager to execute an agreement for project and construction management services with Currie Engineers, Inc. for the next three fiscal years, with work to be authorized on a work order basis.

Background

Following an RFP process, the Commission authorized the General Manager to enter into an agreement with Currie Engineers, Inc. on September 20, 2018 for project management and construction management services. The scope of services included professional engineering, project development, bidding assistance, and engineering services during construction, all on an as-needed basis. The agreement was issued for the 2018/19 fiscal year and then was extended with Commission approval for two additional fiscal years, through June 30, 2021.

Evan Currie of Currie Engineers has been performing the work very successfully for the past several years. His services have largely been in project and construction management of the HEPS MCC project. Mr. Currie's efforts kept the project moving and provided workload relief for the Operations and Maintenance Manager. Mr. Currie also provided as-needed project and construction management assistance on other, smaller projects.

Discussion

Staff is recommending that Currie Engineers be retained for three more years to continue ongoing and as-needed project and construction management for planned Renewal and Replacement Fund (RRF) Projects. The proposed agreement also contains two optional one-year extensions that may be exercised by the Authority. The agreement will be funded out of the RRF project authorizations.

The agreement is structured on a work order basis with a total agreement cost ceiling of \$75,000 over three years. Currie Engineers may only perform work under assigned work orders. Work will be billed against each work order on a time and materials basis up to a maximum work order value. Therefore, the Authority is only billed for work actually completed.

Staff proposes to issue two work orders upon contract execution. The first would be an as-needed work order under which Currie Engineers would complete small assignments at the direction of the Operations & Maintenance Manager up to a total of \$25,000. Work order two would authorize Currie Engineers to provide project and construction management services for the HEPS Pump Replacement Project. The cost ceiling for that work order is \$19,317.

Mr. Currie's proposed billing rates for the three years of this contract are \$137.00/hour (FY21/22), \$141.00/hour (FY22/23), and \$145.00/hour (FY23/24). This is an increase of 3% over the previously contracted rate. Currie Engineers' services remain very cost-effective.