



EAST BAY DISCHARGERS AUTHORITY
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A Joint Powers Public Agency

ITEM NO. 13

OPERATIONS & MAINTENANCE COMMITTEE AGENDA

Tuesday, August 13, 2019

9:00 A.M.

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

Committee Members: Cutter (Chair); Walters

OM1. Call to Order

OM2. Roll Call

OM3. Public Forum

OM4. EBDA Performance

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

OM5. Status Report

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

OM6. Resolution Authorizing the General Manager to Issue Amendment No. 1 to the Professional Services Agreement with GHD, Inc. for Asset Management Advisory Services In the Amount of \$3,360 for a Total Not to Exceed Amount of \$48,370

(The Committee will consider a resolution authorizing the General Manager to issue Amendment No. 1 to the Agreement with GHD in the amount of \$3,360.)

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, please contact the Administrative Assistant at the EBDA office at (510) 278-5910 or kyambao@ebda.org. 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 is scheduled on
Tuesday, September 17, 2019, at 9:00 a.m.**

ITEM NO. OM4 EBDA PERFORMANCE

The detailed package is included in the Regulatory Affairs Committee agenda. The NPDES report shows that EBDA continues to operate within the normal compliance range.

Please see the Regulatory Affairs Committee agenda, Item No. RA4 for the June permit compliance data.

ITEM NO. OM5 STATUS REPORT

Alvarado Effluent Pump Station (AEPS)

Pump Cavitation Study & Station Optimization

On July 24, 2019, EBDA had a conference call with Carollo Engineers, Inc. (Carollo) to discuss Carollo's preliminary Cavitation Study findings. The Draft Cavitation Study Project Memorandum is expected shortly.

Hayward Effluent Pump Station (HEPS)

Motor Control Center (MCC) Replacement Project

In July, three new ethernet radios were installed, one each at HEPS, the City of Hayward (COH) Hypo. Facility, and the COH Main Plant. EBDA furnished the new radios, and COH staff completed the installation. The radios were set up to provide access to COH's full SCADA system at HEPS, which is important to COH operations staff because of HEPS' remote location.

On Wednesday, July 31, 2019, PG&E was scheduled to install a new transformer and pull cables from the transformer to the new MCC to establish the new PG&E service. Following the initial work, the pump station was scheduled to be shut down for final installation and cutover on Thursday, August 1, 2019. To minimize outages at the pump station, several other activities were planned during the shutdown. These included GSE replacing four valves, and the COH performing a confined space entry into the HEPS Wet Well to observe and document its condition.

EBDA was first notified on July 31 that PG&E would not be on-site to perform the initial work. PG&E stated that all work including the shutdown and cutover would be completed on August 1. EBDA was later informed that PG&E canceled all work and would be rescheduling the shutdown for the next available date. This PG&E delay meant that all other work planned during the shutdown also had to be rescheduled. PG&E stated that the next available dates are Tuesday, August 27, 2019, and Wednesday, August 28, 2019, due to mandatory work to be performed for the CPUC over the next three weeks.

Oro Loma Effluent Pump Station (OLEPS)

No. 1 & 4 Effluent Pump Discharge Valve Actuator Replacement Project

On June 13, 2019, EBDA received two new Programmable Logic Controller (PLC) output cards necessary to complete the discharge valve actuator replacement project. The old valve actuators were either 100% open or 100% closed. The new valve actuators have the ability to modulate and stop at any position. This ability will facilitate flexibility that can be used to optimize pump station operations in the future. EBDA staff is in the process of coordinating the installation of the new discharge valve actuators and gear drives for the No. 1 & 4 Effluent Pumps. The installation will be scheduled during the normal dry weather wet well preventative maintenance activities.

Emergency Generator Failure

On July 23, 2019, OLSD staff was conducting a routine test run of the OLEPS emergency generator. During the test, a wire on the generator's starter shorted, and the generator failed to start. OLSD maintenance staff replaced the wire, and the generator was tested again and started without incident. Since the failure, the generator has been tested several times and started each time without incident.

Effluent Pump No. 2 Diesel Engine Failure

On July 24, 2019, OLSD staff was conducting a routine test run of the Effluent Pumps No. 2 & 3 Diesel Engines. Effluent Pump No. 3 started and operated without incident, but Effluent Pump No. 2 failed to start due to an engine speed alarm. The engine speed alarm occurred on startup before the engine even started to crank. This appeared to be a signal/programming issue, and Calcon was contacted to investigate the issue. On August 2, 2019, a Calcon programmer corrected the Programmable Logic Controller (PLC) programming that prevented the engine from starting, and on August 5, 2019, a Calcon Instrument Tech addressed a grounding issue that caused the engine to intermittently fail to start. Effluent Pump No. 2 Diesel Engine is now fully operational.

San Leandro Effluent Pump Station (SLEPS)

No change; all equipment is operational.

Skywest Pump Station

Recycled Water Production

During the month of July 2019, the Skywest Recycled Water System produced 11.4 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

Cyber Security

In April 2019, consultants from Woodard & Curran completed an analysis of the EBDA and OLSD networks. On July 18, 2019, a meeting was held with staff from EBDA, OLSD, and Woodard & Curran to discuss the completed draft report and the next steps. Quarterly Network Security Management & Coordination meetings were established, with the first meeting scheduled for September 10, 2019. The meetings will be attended by EBDA, OLSD, Woodard & Curran, Calcon (EBDA's SCADA consultant) and Cayuga Information Systems (EBDA's business IT consultant). The meeting objectives are to establish communication channels, develop a common understanding of upcoming projects and potential interactions, and outline the future network architecture. The agenda for the first meeting includes discussion of network security and remote access issues for EBDA's new SCADA system.

SCADA System Upgrade Project

Due to network security issues, EBDA is proceeding cautiously with the implementation of the new SCADA system.

Miscellaneous Items

Underground Service Alerts

EBDA received twenty-nine (29) Underground Service Alert (USA) tickets during the month of July 2019. Four required field verification.

Special Projects

Transport System Seismic Reliability Plan

On July 30, 2019, Brown & Caldwell (BC) submitted a draft of the permitting section of the Transport System Seismic Reliability Plan. The draft permitting section was forwarded to Kermani Consulting Group to be incorporated in EBDA's Disaster Cost Recovery Plan. The full Draft Transport System Seismic Reliability Plan is expected shortly.

EBDA Facilities Electrical Evaluation

EBDA received the Electrical Evaluation draft report from Beecher Engineering, Inc., EBDA's contract electrical engineering firm. EBDA will provide comments to Mr. Beecher to be incorporated in the final report.

Disaster Cost Recovery Planning Services

EBDA staff is continuing to work with Kermani Consulting Group (KCG) on disaster cost recovery planning. KCG delivered a first draft of EBDA's Disaster Cost Recovery Plan for review and discussion on June 20, 2019. Staff has provided feedback to KCG and expects a revised document to be delivered in the next couple weeks. Following refinement of the Plan, the project will conclude with an overview session for member agency staff, likely in early 2020, per the MAC's request.

Asset Management Plan (AMP) Update

Staff is recommending approval of amendment No. 1 to the agreement with GHD in the amount of \$3,360. See Item No. OM6.

Advanced Quantitative Precipitation Information (AQPI) Project

As discussed previously, AQPI is a Bay Area regional project funded by the California Department of Water Resources (DWR) aimed at improving prediction of precipitation, streamflow, and storm surge through data gathering and model improvement. EBDA is part of a consortium of East Bay agencies working to install a permanent radar in time for the 2019/20 wet season. The goal is for each of the participating agencies to approve a Memorandum of Understanding (MOU) this summer with Sonoma Water as the contracting agency. The MOU would commit to funding the installation through the end of the grant in December 2021. EBDA staff is still waiting for all agencies to complete legal review on the MOU document, and then will bring the MOU to the Commission for consideration. Based on the most recent negotiation, the EBDA contribution to this two-year project is \$29,000, which is included in EBDA's FY2019/20 budget.

It is expected that a broader regional MOU or JPA will be developed for post-grant funding beyond 2021. EBDA staff is representing the East Bay agencies in a regional committee that is beginning to discuss the long-term funding and governance plan. The first meeting of this regional committee is scheduled for August 20.

EAST BAY DISCHARGERS AUTHORITY
MONTHLY OPERATION AND MAINTENANCE REPORT
Jul-2019

1. Summary sheets from the NPDES Report submitted to the RWQCB and EPA are attached for the month of: Jun-19
2. Number of violations reported in the above NPDES Report: **None to Report**
3. The violations included the following: **None Noted**
4. Preventive Maintenance for the month of: Jun-19

LOCATION	NO. TASKS SCHEDULED	NO. TASKS COMPLETED	# TASKS UNFINISHED	PERCENT COMPLETED
San Leandro Pump Station	4	4	0	100%
Oro Loma Pump Station	59	59	0	100%
Sky West Pump Station	13	13	0	100%
Hayward Pump Station	13	13	0	100%
Alvarado Pump Station	6	6	0	100%
Marina Dechlorination Facility	19	19	0	100%
EBDA Responsibility	10	10	0	100%
Force Main - USD	4	4	0	100%
Force Main - San Leandro	61	61	0	100%
Total	189	189	0	100%

5. Unscheduled Maintenance for the month of: Jul-19

LOCATION	NO. OF WORK ORDERS
San Leandro Pump Station:	0
Oro Loma Pump Station	2
Hayward Pump Station	0
Alvarado Pump Station	0
Marina Dechlorination Facility	1
Skywest Pump Station	0
Force Main	0

6. Other Items of significance: Jul-19

- a. FM: Transport System Seismic Reliability Plan
- b. AEPS: Pump Cavitation Study & Station Optimization
- c. OLEPS: Effluent Pumps No. 1 & 4 Discharge Valve Actuators & Gear Drives
- d. MDF: No Items
- e. HEPS: MCC Replacement Project
- f. SLEPS: No Items

ITEM NO. OM6 RESOLUTION AUTHORIZING THE GENERAL MANAGER TO ISSUE AMENDMENT NO. 1 TO THE PROFESSIONAL SERVICES AGREEMENT WITH GHD, INC. FOR ASSET MANAGEMENT ADVISORY SERVICES IN THE AMOUNT OF \$3,360 FOR A TOTAL NOT TO EXCEED AMOUNT OF \$48,370

Recommendation

Adopt a resolution authorizing the General Manager to issue Amendment No. 1 to the Agreement with GHD, Inc. for asset management advisory services in an amount not to exceed \$3,360.

Background

On August 16, 2018, the Commission authorized the General Manager to enter into an agreement with GHD, Inc. for asset management advisory services. The scope of services included updating EBDA's Asset Management Planning (AMP) Tool, including the asset inventory, condition ratings, consequence of failure assessments, and rehab and replacement costs.

GHD delivered the updated AMP Tool earlier this year, and staff has been using it to facilitate discussions with the MAC as part of the JPA negotiations. Staff plans to present the updated results and associated recommended Renewal and Replacement Fund (RRF) funding levels to the Committee as the JPA negotiations proceed.

In the meantime, GHD has requested compensation for work performed at EBDA's request that was out of scope. This work included support on the use of the AMP Tool and additional refinement of asset data used to develop the asset renewal forecasts. Specific services included:

- Supported tool/technical questions
- Created an additional support tool (Excel based)
 - o Altered/ toggled different cost multiplier modifiers to account for different factors being used by member agencies (Install, Design Service, Contractor O&P, Construction Management, Contingency)
- Developed updated renewal forecast models through different scenarios with different planning horizons and cost multipliers

The cost for these additional tasks is \$3,360 (21 hrs of effort by a staff engineer at \$160/hr). Staff recommends amending GHD's agreement to cover the additional \$3,360.

In 2018/19, the Commission approved a total of \$90,000 for a two-phased asset management program, of which the updated AMP Tool would be Phase 1. Later this year, staff will bring to the Committee ideas for the scope of Phase 2.

EAST BAY DISCHARGERS COMMISSION
EAST BAY DISCHARGERS AUTHORITY
ALAMEDA COUNTY, CALIFORNIA

RESOLUTION NO. 19-34

INTRODUCED BY _____

RESOLUTION AUTHORIZING THE GENERAL MANAGER TO ISSUE AMENDMENT NO. 1 TO THE PROFESSIONAL SERVICES AGREEMENT WITH GHD, INC. FOR ASSET MANAGEMENT ADVISORY SERVICES IN THE AMOUNT OF \$3,360 FOR A TOTAL NOT TO EXCEED AMOUNT OF \$48,370

WHEREAS, GHD developed the East Bay Dischargers Authority's Asset Management Plan (AMP) in 2013; and

WHEREAS, GHD has significant experience and expertise in the field of asset management and has unique knowledge of the East Bay Dischargers Authority's AMP;

WHEREAS, the East Bay Dischargers Authority entered into an agreement on August 16, 2018, for an amount not to exceed \$45,010 with GHD for asset management advisory services; and

WHEREAS, GHD performed additional customization and support work at the request of the Authority in excess of its scope; and

WHEREAS, the Operations & Maintenance Committee has recommended acceptance of Amendment No. 1 to the agreement with GHD for asset management advisory services.

NOW, THEREFORE BE IT RESOLVED, the Commission of the East Bay Dischargers Authority hereby accepts Amendment No. 1 with GHD.

BE IT FURTHER RESOLVED, the General Manager is hereby authorized to issue Amendment No. 1 to the Agreement with GHD on behalf of the Authority in the amount not to exceed \$3,360.

SAN LORENZO, CALIFORNIA, AUGUST 15, 2019, ADOPTED BY THE FOLLOWING VOTE:

AYES:
NOES:
ABSENT:
ABSTAIN:

CHAIR
EAST BAY DISCHARGERS COMMISSION

ATTEST: _____
GENERAL MANAGER
EAST BAY DISCHARGERS AUTHORITY
EX OFFICIO SECRETARY