

**AGENDA**

**ENGINEERING COMMITTEE MEETING  
LEUCADIA WASTEWATER DISTRICT  
Tuesday, November 10, 2020 – 9:00 a.m.  
Via Teleconference**

Pursuant to the State of California Executive Order N-29-20, and in the interest of public health, the District is temporarily taking actions to mitigate the COVID-19 pandemic by holding meetings by teleconference. The general public may not attend this meeting at the District's office due to social distancing requirements.

Members of the public attending via teleconference will be provided with an opportunity to comment on each agenda item prior to Committee discussion.

**To join this meeting via Teleconference, please dial:** 1-669-900-6833

**Meeting ID:** 850 6970 2787

**Password:** 804996

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- 1. Call to Order**
  - 2. Roll Call**
  - 3. Public Comment**
  - 4. New Business**
    - A. Receive and File the FY2020 Audit of the District's 2019 Sanitary Sewer Management Plan (SSMP) completed by Dexter Wilson Engineering, Inc. (Pages 3 - 13)
    - B. Authorize the General Manager to execute an agreement with Haaker Equipment Company in the amount of \$299,645.20 to purchase a new 2020 Ford F-450 Closed Circuit Television Truck. (Pages 14 - 15)
    - C. Authorize the General Manager to execute a three-year agreement with Airgas to furnish and deliver Liquid Oxygen in an amount of \$141,473 not including tax. (Pages 16 - 21)
    - D. Encinitas Estates Pump Station Replacement Project:  
Recommendation 1: Authorize the General Manager to execute an Agreement with Pacific Hydrotech Corporation for the construction of the Encinitas Estates Pump Station Replacement Project in an amount not to exceed \$1,797,000 as the lowest responsive and responsible bidder.  
  
Recommendation 2: Authorize an additional appropriation of \$1,134,000 to complete the construction and the associated soft costs. (Pages 22 - 30)
    - E. Authorize the General Manager to execute an Amendment No. 7 to Task Order 38 with Infrastructure Engineering Corporation for engineering support services

during the construction of the Encinitas Estates Pump Station Replacement Project in an amount not to exceed \$75,680. (Pages 31 - 34)

F. Authorize the General Manager to execute an Agreement with Mavteck for construction management services during the construction of the Encinitas Estates Pump Station Replacement Project in an amount not to exceed \$90,000. (Pages 35 - 36)

**5. Information Items**

A. Leucadia Pump Station Rehabilitation Project Update (verbal)

**6. Directors' Comments**

**7. General Manager's Comments**

**8. Adjournment**

## MEMORANDUM

Ref: 21-7355

**DATE:** November 5, 2020  
**TO:** Engineering Committee  
**FROM:** Paul J. Bushee, General Manager   
**SUBJECT:** 2020 Audit of the District's 2019 Sanitary Sewer Management Plan (SSMP)

### RECOMMENDATION:

Staff requests that the Engineering Committee recommend that the Board of Directors:

1. Receive and File the FY2020 Audit of the District's 2019 Sanitary Sewer Management Plan (SSMP) completed by Dexter Wilson Engineering, Inc.
2. Discuss and take other action as appropriate.

### DISCUSSION:

#### **Tactical Goal: Services / SSMP Audit**

The Statewide Sanitary Sewer Systems Waste Discharge Requirements (WDR), adopted in May 2006, imposed several regulations on all California agencies that operate Sewage Collection Systems. The Statewide WDR required sewer agencies to develop and implement a system-specific Sewer System Management Plan (SSMP). The District has complied with all prescribed provisions, including having a written Sewer System Management Plan (SSMP) that was originally adopted by the District's Board of Directors in June 2009 and more recently updated in 2019. The WDR requires each system to audit their SSMP every two years. However, the District has taken a pro-active approach and conducts its SSMP Audit annually to assure its program and activities remain effective in reducing Sanitary Sewer Overflows (SSO's).

Due to their thorough knowledge of the plan, staff retained Dexter Wilson Engineering, Incorporated (DWEI) to conduct the 2020 SSMP Audit.

This FY2020 Audit, which uses a standard checklist and a comprehensive review of District operations, concluded that the District's activities, programs, and efforts meet or exceed the requirements of its SSMP. Additionally, changes in District organization, practices, or regulations were not significant enough to require a revision of the SSMP prior to June 2024, the WDR required 5-year review cycle.

The letter report of the FY2020 Audit is attached for your review. A copy of the complete report, including enclosures, is available upon request.

DWE will present an overview of the FY2020 Audit at the meeting.

jms:PJB

Attachment

**LEUCADIA WASTEWATER DISTRICT  
SEWER SYSTEM MANAGEMENT PLAN  
FISCAL YEAR 2020 AUDIT**

November 4, 2020

**Prepared by:**  
**Dexter Wilson Engineering, Inc.**  
**2234 Faraday Avenue**  
**Carlsbad, CA 92008**



Job No. 103-019/4

**DEXTER WILSON ENGINEERING, INC.**

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DEXTER S. WILSON, P.E.  
ANDREW M. OVEN, P.E.  
STEPHEN M. NIELSEN, P.E.  
NATALIE J. FRASCHETTI, P.E.  
STEVEN J. HENDERSON, P.E.  
FERNANDO FREGOSO, P.E.  
KATHLEEN L. HEITT, P.E.

November 4, 2020

103-019/4

Leucadia Wastewater District  
1960 La Costa Avenue  
Carlsbad, CA 92009

Attention: Paul Bushee, General Manager

Subject: Leucadia Wastewater District Sewer System Management Plan Fiscal Year  
2020 Audit

The Leucadia Wastewater District's Sewer System Management Plan (SSMP) was adopted by the District Board and certified by the General Manager in June 2019. The purpose of the SSMP is to memorialize and publicly present in a central document the programs and activities utilized by the Leucadia Wastewater District (District) to effectively manage its wastewater collection system. The SSMP requires audits of the SSMP at least every two years. The District has decided to conduct annual audits.

The purpose of this letter-report is to present the Fiscal Year 2020 (FY20) Audit (the first audit of the 2019 SSMP) in fulfillment of the District's SSMP requirements. The Audit consists of completing the Section IX SSMP Evaluation Checklist and Section X SSMP Audit Checklist. These checklists are accompanied by summaries of the SSMP activities for the year.

### **Section IX SSMP Evaluation Checklist**

The Statewide Waste Discharge Requirements (WDR) governing sanitary sewers specify that each Wastewater Collection Agency shall:

- maintain relevant information that can be used to establish and prioritize appropriate SSMP activities,
- monitor the implementation and measure the effectiveness of each element of the SSMP,
- assess the success of the preventative maintenance program,
- update program elements, as appropriate based on monitoring or performance evaluations, and
- identify and illustrate Sewer System Overflow (SSO) trends, including frequency, location, and volume.

Maintaining the applicability of the SSMP to District activities necessitates ongoing evaluation of the activities the District performs, their success, and improvement if necessary. The Section IX SSMP Evaluation Checklist (Evaluation Checklist) is used on an annual basis to evaluate the applicability and effectiveness of the District's SSMP.

In completing the Evaluation Checklist (found in Attachment A), we find that, in general, the District's activities, programs, and efforts meet or exceed the requirements of the SSMP. Minor changes were made to the SSMP to more accurately reflect the District's procedures and customer/community outreach. However, the changes do not necessitate a re-adoption of the SSMP prior to the scheduled June 10, 2024 revision, per the required five year cycle. In completing the Evaluation Checklist, there are several items to note, as discussed in the Audit Discussion section below.

### **Section X SSMP Audit Checklist**

The Statewide WDRs governing sanitary sewers specify that the District shall conduct periodic internal audits, appropriate to the size of the system and the number of SSOs. These audits must occur, at a minimum, every two years and a report must be prepared and kept

on file. The audit shall focus on evaluating the effectiveness of the SSMP and the District's compliance with the SSMP requirements, including the identification of any deficiencies in the SSMP and the steps taken to correct them.

The District has chosen to conduct their SSMP audit on an annual basis. In completing the Audit Checklist, we find all requirements of the checklist to be current and implemented. The completed Audit Checklist for FY20 can be found in Attachment B.

### **Audit Discussion**

The following paragraphs highlight notable elements of the FY20 Audit organized by the relevant SSMP Section. Additional notes can be found on the Evaluation Checklist in Attachment A.

**Sections I, II, and III (District Goals, Organization, and Legal Authority).** No appreciable changes have occurred to the District's Goals, Organization, or Legal Authority since the 2019 SSMP. The statewide WDR which governs the SSMP is in the process of being revised. District staff have been active in this process toward reissuance of the WDR. There were no new field services staff hired in FY20.

**Section IV (Preventative Maintenance Program).** General statistics regarding the District's preventative maintenance activities are provided in Attachment C. Also in Attachment C, Exhibit C-1 graphically illustrates those areas within the District which are readily accessible for hydrocleaning and closed circuit television (CCTV) inspection and those areas which have additional needs or requirements in order to hydroclean or CCTV, such as the need for significant traffic control procedures or night work due to day time traffic volume or wastewater flows.

Exhibit C-2 tracks the general progress of CCTV inspections in the District. Per the District's SSMP, the District strives to CCTV their entire system every three years. The District is on track to meet its goal of CCTV inspecting its 200 mile gravity sewer system within a three-year timeframe. However, in review of Exhibit C-2, there are select areas within the District which have not been CCTV inspected in the last three years. These areas will be CCTV inspected in early FY21.

In FY20, the District's portable flow meters (Echo meters) were relocated to strategic gravity sewer locations which are difficult to clean and CCTV inspect. In addition to monitoring capacity, the meters will assist in determining whether the frequency of the resource intensive cleaning and CCTV activities of these locations can be extended.

In FY16, the District began introducing foam treatments in pipelines and manholes for the treatment of roots. The initial results were favorable and the District has incorporated foam treatment into the regular schedule of preventative maintenance activities. Fourteen additional line segments utilized foam treatment for root control in FY20. Additionally, the District is training field staff and conducting inspection of grease interceptors/traps in shopping plazas that show significant corrosion of manholes.

The District's Asset Management Plan (AMP) was revised in May 2018. Progress throughout FY20 with respect to the AMP (and other asset planning efforts) is summarized in the Attachment I letter-report at the end of the audit. The District's revised AMP is summarized as well in Attachment I.

The FY20 SOP training schedule can be found in Attachment D and all updated SOPs are included on a CD in Attachment E.

**Section VI (Overflow Emergency Response Plan).** No revisions were made to the OERP.

**Section VII (FOG Control Program).** None of the FY20 SSOs were attributable to FOG, continuing the District's SSMP determination that a formal FOG control program is not warranted at this time. The District continues to require BMP agreements for all new FSEs as well as further continuing its outreach via newsletters, door hangers, inspections, etc.

**Section VIII (System Evaluation and Capacity Assurance).** The District continues to monitor (and address as necessary) the presence of scale in the Alga Hills area. The area was most recently CCTV inspected this past fiscal year and is hydrocleaned every six months. Any defects discovered during the CCTV inspections are incorporated into the District's Repair Priority List.

Inflow domes are present in 2,414 of the District's 5,103 manholes to aid in reducing inflow. Figure 1 shows the manhole locations where inflow domes have been installed throughout the District.

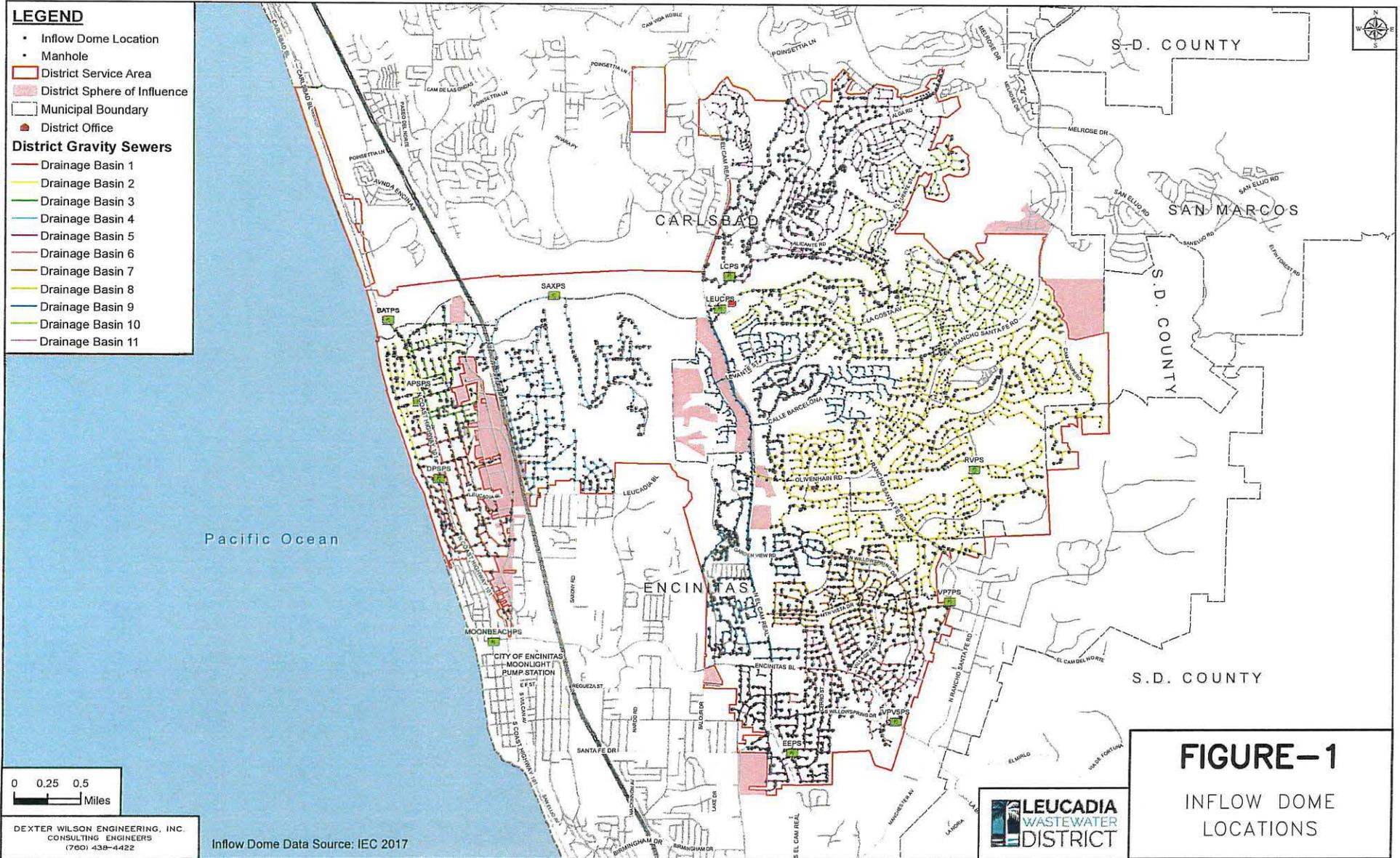
Flow analyses of the District were conducted as part of the District's 2008, 2013, and 2018 AMPs. All three documents concluded that estimates of average and peak ultimate flows are within the design values of the District and less than the flows utilized in the District's detailed capacity analyses conducted as part of the 1999 Wastewater Master Plan. There are no capacity-driven replacement projects currently identified for the District. For reference, the current buildout flows for the District are projected to be 4.7 mgd in comparison to the 1999 Master Plan where buildout flows were projected at 6.5 mgd.

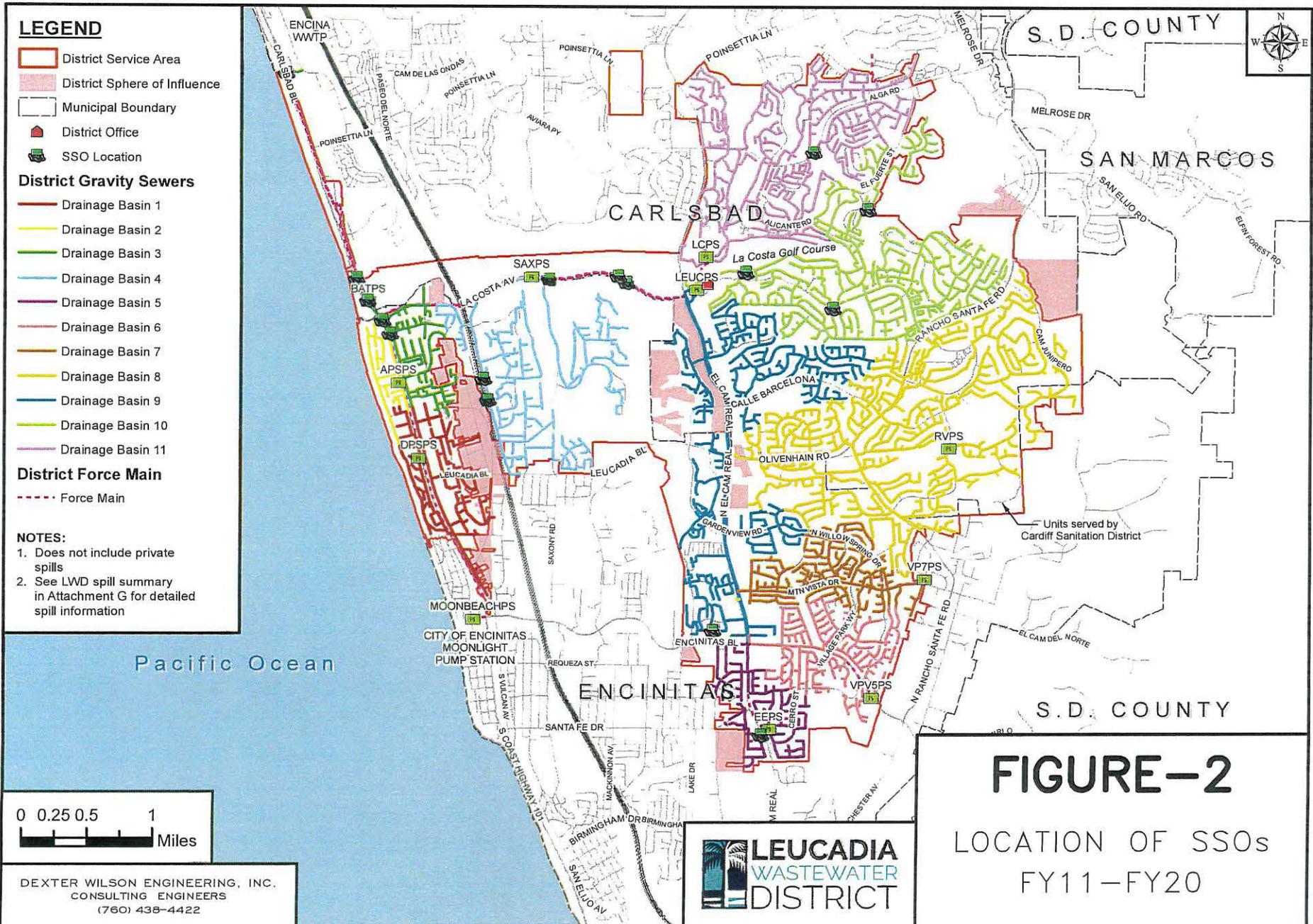
The District's monthly flow comparison for FY19 and FY20 can be found in Attachment F.

Other FY20 system evaluation activities included the monitoring of COVID-19 impacts to wastewater flows as well as the relocation of select submeters (Echo meters) within the District to better evaluate inflow and infiltration and cleaning frequency requirements.

**Section IX (Monitoring, Measurement, and Program Modifications).** The District's Spill Summary through June 30, 2020 can be found in Attachment G. Three spills occurred in FY20; two Category 3 spills caused from seal plug assembly failures at blow off valves, and one Category 1 spill at Batiquitos Pump Station caused from a severe rain event. For the Category 1 spill, District staff attempted to open the second force main valve (B3), however, the valve actuator was stripped and the pin inside was broken. No adverse environmental impact accrued to the Batiquitos Lagoon. Spill review checklists for each event are on file at the District office. Figure 2 identifies the location of each spill in a public line or manhole over the last ten years.

There were also four private lateral spills.





**Section XI (Communication Program).** The District has made the 2019 SSMP and subsequent audits available on its website. The District is also actively posting to Facebook to communicate generally with the public. Examples of Facebook posts by the District in FY20 included reminders about the problems that wipes cause in the sewer system, tips on how to customers can better maintain their private sewer plumbing, keeping easements clear, and information on District activities such as smoke testing, routine maintenance work/traffic control, etc. Additionally, a formal SSMP presentation is provided to the Engineering Committee and Board of Directors and is part of those agendas and meeting packets.

### **Recommended SSMP Edits**

Attachment H to this letter-report contains specific edits to the 2019 SSMP. There are no edits/change recommended to the SSMP based on the FY20 Audit. Future edits, if necessary, will be documented in the SSMP change log (Appendix B of the SSMP and Attachment H of subsequent audits). Future edits/revisions to the SSMP will be evaluated to determine whether or not they are significant enough to warrant re-adoption of the District's SSMP prior to the scheduled June 10, 2024 revision.

### **Summary of Recommendations**

The following section summarizes recommended items as a result of the FY20 Audit:

- Ensure that El Camino Real, La Costa Golf Course and La Costa Avenue, Alga Road, and Rancho Santa Fe Road sewers, which all require additional measures (e.g. traffic control, easements, etc.), maintain three year cleaning/CCTV cycles (See Attachment C, specifically location 10).
- Ensure that the planned O&M activities (e.g. hydroclean and CCTV inspect every 5 years) for the Lanikai and Occidental sewer lines are on track (see AMPI memorandum Attachment A).
- Complete all Scheduled SOP trainings in FY20 (see Attachment D).

Paul Bushee  
November 4, 2020

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**Next Steps**

This SSMP FY20 Audit should be certified by the General Manager and adopted by the District Board as well as retained for inclusion in the current District's 2019 SSMP. Please be sure to post this FY20 Audit on the District's website and include a hardcopy in the District's 2019 SSMP counter copy. We appreciate the opportunity to have worked with the District on this project. Should you have any questions please do not hesitate to contact us.

Dexter Wilson Engineering, Inc.



Natalie J. Fraschetti, P.E.

NJF:SH

Attachment(s)

**MEMORANDUM**

**Date:** November 5, 2020  
**To:** Engineering Committee  
**From:** Paul J. Bushee, General Manager   
**Re:** **Vehicle Purchase to Replace One (1) 2012 Closed Circuit Television Truck**

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**RECOMMENDATION:**

Staff requests that the Engineering Committee recommend that the Board of Directors:

1. Authorize the General Manager to execute an agreement with Haaker Equipment Company in the amount of \$299,645.20 to purchase a new 2020 Ford F-450 Closed Circuit Television Truck.
2. Discuss and take other action, as appropriate.

**DISCUSSION:****Tactical Goal: Services / Purchase CCTV Replacement Truck**

The Leucadia Wastewater District (District) has two Closed Circuit Television (CCTV) Vehicles in its fleet for video inspection of the collection system. The vehicle that staff is recommending to replace was purchased in 2012 and is 8 years old. The other vehicle is a 2016 Chevrolet Sprinter CCTV Van that is in good operating condition. In the last three years, the District has spent nearly \$37K in equipment services and repairs for the 2012 CCTV Truck and has noticed an increase in cost and frequency of maintenance repairs.

For this purchase, staff researched different CCTV system and equipment options and received demonstrations from three (3) companies; Ibak, Proteus and Envirosight. After evaluating the options, staff selected Envirosight due to their system and equipment functionality and reliability. Some examples are:

- Steerable 6-wheel drive for climbing over offsets and debris.
- Lightweight Kevlar cable that poses minimal drag.
- Quick change wheel options.

In accordance with the District's Vehicle Replacement Policy, the minimum replacement criteria for the CCTV Truck is 5 years and 75,000 miles or 7 years and any miles. The CCTV Truck has been in service for 8 years and has reached the end of its useful life, has high repair costs and dated technology. Please note that staff does not automatically recommend replacement of its vehicles based on their age and mileage, but assesses the reliability of each vehicle in order to get its maximum useful life.

*Cooperative Purchasing Program*

The District's Procurement Policy permits the use of cooperative purchasing programs when feasible and in the best interest of the District. Staff is recommending the purchase of the new CCTV Truck from the Haaker Equipment Company (Haaker) through a cooperative purchasing program with Sourcewell Cooperative. Sourcewell Cooperative is a self-supported government agency that holds hundreds of competitively solicited procurement contracts ready for use. Essentially, the Haaker purchasing contract for the new CCTV Truck has already been vetted through the competitive pricing process by Sourcewell Cooperative.

Therefore, staff recommends that the CCTV Truck be purchased from Haaker Equipment Company through the Sourcewell Cooperative in the amount of \$299,645.20.

**FISCAL IMPACT:**

The FY 21 Capital Acquisitions Budget includes \$290,000 for the purchase of the new CCTV Truck. The additional \$10,000 needed to purchase the vehicle can be absorbed by the Capital Acquisition Budget.

mag:PJB

**MEMORANDUM**

**DATE:** November 5, 2020  
**TO:** Engineering Committee  
**FROM:** Paul J. Bushee, General Manager   
**SUBJECT:** **Agreement with Airgas to Furnish Liquid Oxygen and Provide Associated Storage Equipment on a Rental Basis**

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**RECOMMENDATION:**

Staff requests that the Engineering Committee recommend that the Board of Directors:

1. Authorize the General Manager to execute a three-year agreement with Airgas to furnish and deliver Liquid Oxygen in an amount of \$141,473 not including tax (\$47,158 per year)
2. Discuss and take other action as appropriate.

**BACKGROUND:**

In 2006, the Leucadia Wastewater District (District) partnered with Evoqua Water Technologies, LLC, to provide Bioxide to help prevent and control the formation of hydrogen sulfide (H<sub>2</sub>S) in the Leucadia Pump Station Force Mains (LPSFM). Control of H<sub>2</sub>S is critical because it is a lethal gas, creates odors, and causes internal corrosion of metal force main pipes. While the injection of Bioxide in the LPSFM was effective at first, over time staff observed a decreasing effectiveness of Bioxide and the continued high cost for the chemical (approximately \$117K per year).

To address the issue staff, working with the District Engineer, looked for alternative ways to control H<sub>2</sub>S. As a result, the ECO<sub>2</sub> Super-Oxygenation technology (ECO<sub>2</sub>) was identified as an effective method to reduce H<sub>2</sub>S levels for odor and corrosion control in force mains. The ECO<sub>2</sub> system is being installed as part of the Leucadia Pump Station Rehabilitation Project. The ECO<sub>2</sub> system saturates wastewater with oxygen to sustain aerobic conditions throughout the force main, preventing the formation of H<sub>2</sub>S. The ECO<sub>2</sub> technology accomplishes this by injecting pure oxygen into a wastewater side stream and then blending it back into the force main flow.

Preventing the formation of H<sub>2</sub>S reduces internal corrosion of the ductile iron force main, reduces odors and improves worker safety.

The ECO<sub>2</sub> system design consists of a properly sized ECO<sub>2</sub> super-oxygenation cone, system controls and side stream pump. The ECO<sub>2</sub> cone is where oxygen is infused into the wastewater. The supply of oxygen gas is a third-party component that is not affiliated nor supported by ECO<sub>2</sub>.

**DISCUSSION:**

On September 22, 2020 the District sent out a Request for Bids to five (5) known suppliers that provide equipment rental and furnish LOX. Bids were due October 6, 2020. Three Bids (3) were received as follows:

	Yearly Storage Tank Lease	Yearly Deliveries	Yearly Costs	3 Year Costs
<b>Airgas</b>	<b>\$9,600</b>	<b>\$37,558</b>	<b>\$47,158</b>	<b>\$141,473</b>
Air Products	\$9,000	\$46,690	\$55,690	\$167,070
West Air Gas	\$23,040	\$55,496	\$78,536	\$235,608

Airgas submitted the lowest Bid. The Bids were reviewed by Dexter Wilson Engineering, Incorporated (DWEI) and staff. As a result of the evaluation, staff determined Airgas to be the lowest responsive and responsible bidder and recommends the award of the agreement to Airgas. Airgas' scope of work is to provide a LOX storage tank, the equipment to convert LOX to oxygen gas and supply LOX as needed by the District. Attached is a copy of the Scope of Work for your review. It should be noted that the estimated \$47,158 per year is significantly less than the District's current cost of \$117K per year for Bioxide.

Therefore, staff requests that the Engineering Committee recommend that the Board of Directors authorize the General Manager to execute a three-year professional services agreement with Airgas Products and Chemicals, Inc. for equipment rental and furnishing Liquid Oxygen in an amount not to exceed \$47,158 per year for a total of \$141,473.

**FISCAL IMPACT:**

The agreement is necessary to determine the foot print of the LOX tank and associated equipment for installation during the Leucadia Pump Station Rehabilitation Project. It is estimated that the LOX tank and equipment will not be installed until Spring 2021. Charges for the tank and associated equipment will start at the completion of installation. Staff will use funds budgeted for Project construction for equipment leasing until the LOX system is placed into operation. Sufficient funds will be appropriated in the succeeding fiscal years.

jms:PJB

Attachment

# Attachment (A)

## LIQUID OXYGEN SUPPLY AND STORAGE TANK RENTAL SCOPE OF WORK

### PART 1 - GENERAL

#### 1. GENERAL INFORMATION FOR VENDORS

##### 1.1 Summary Scope of Work

The Leucadia Wastewater District (DISTRICT) is soliciting sealed bids for Liquid Oxygen (LOX) supply, delivery, and tank rental. DISTRICT intends to contract with an experienced Vendor to provide LOX and a storage tank system under a rental program. Included in the contract is installation of the storage tank, and associated components, and maintaining the equipment according to specifications and requirements provided within the Request for Bids Proposal document. The rental shall have a three-year duration with two optional one-year extensions.

##### 1.2 Background

The DISTRICT owns and operates the Leucadia Pump Station (LPS). It has a daily flow that pumps 3.2 million gallons of wastewater to a pump station downstream. LPS has used nitrate (Bioxide) to help prevent the formation of Hydrogen Sulfide (H<sub>2</sub>S) in the stations dual force mains. An ECO2 super-oxygenation system (ECO2) is being constructed to help mitigate the formation of H<sub>2</sub>S. The ECO2 system is being installed as part of the LPS Rehabilitation Project and the contractor currently anticipates that the ECO2 system will be installed between November 2020 and January 2021.

The project consists of providing and installing the equipment listed in Section 2.3, Equipment Requirements; monitoring and filling the tank as required for continuous operation; and maintaining the performance of the equipment through the term of the contract in accordance with this Scope of Work.

The LOX storage tank and feed system equipment listed will be rented from the selected Vendor and installed at 1960 La Costa Avenue, Carlsbad, CA, 92009. The system must provide gaseous oxygen fully vaporized from LOX in accordance with the technical specifications provided in Section 2. The estimated oxygen usage is 1,030 pounds of O<sub>2</sub> per day.

##### 1.3 Estimated Quantity

The quantities indicated in this solicitation are approximate annual quantities. Quantities may be increased or decreased depending on actual feed rate during the contract term; however, no price adjustments will be allowed as a result of any fluctuation in the quantity purchased.

##### 1.4 Bid Deadline

Bids will be submitted on the bid form provided. Bids shall be mailed or delivered to DISTRICT at 1960 La Costa Avenue, Carlsbad, CA, 92009 and shall be received no later than 2:00 p.m. (local) on Tuesday October 6, 2020 when the bids will be publicly opened and read. Late bids will be

returned unopened. Please label the bottom left corner of the envelope with "Liquid Oxygen Delivery and Tank Rental".

Bids shall be valid for one-hundred twenty days (120) days after the bid date. DISTRICT intends to award purchase in November 2020. The purchase will be awarded to the responsive and responsible bidder who submits the lowest total bid. Emailed proposals will not be accepted. Vendors will deliver three (3) unbound originals of the proposal in a sealed envelope before the due date.

### 1.5 Bid Evaluation and Award

The contract for LOX Delivery and Tank Rental will be awarded based on the following criteria:

1. Bid is responsive when received on time and completed per instructions,
2. Bid is compliant with specifications and industry standards,
3. Vendor is offering the lowest overall price for the best value
4. Vendor is responsible; DISTRICT may consider:
  - a. Possession of industry standard licensing and/or certifications;
  - b. Financial responsibility of the Vendor;
  - c. Experience of the Vendor;
  - d. Adequacy of equipment of the Vendor;
  - e. Past performance of the Vendor; and
  - f. Declared delivery date.

A Vendor's failure to promptly respond to DISTRICT inquires for proposal clarification may result in determination of non-responsibility.

The tank is anticipated to be installed on or around November 2020 and scheduled chemical deliveries to begin June 2021.

Vendors have the right to take exception to the specifications or terms to this solicitation. Any exceptions taken must be explained in the bid. Any exceptions that contradict the DISTRICT terms and conditions, or contain provisions that are not in the best interest of the DISTRICT will disqualify the Vendor. If exceptions are not explained, the Vendor will comply with the specifications as stated in this solicitation.

The DISTRICT reserves the right to reject any or all bids and waive any informality or minor defects in proposals received.

## SECTION 2: TECHNICAL SPECIFICATIONS

### 2.1 Coordination and Safety

A. The Vendor will coordinate work with staff to prevent any interruptions to operations, customers, and the general public.

B. The Vendor is responsible for initiating, maintaining and supervising all safety precautions and programs in connection with the Work. Vendor will take all necessary precautions for the safety of, and will provide the necessary protection to prevent damage, injury or loss to all employees on the Work and other persons who may be affected thereby.

C. The Vendor will protect existing and adjacent properties, structures and utilities. Vendor is responsible for any damage to existing and adjacent properties, structures and utilities, and will make all necessary repairs at no additional costs.

D. The gated access to the site will remain closed and locked at all times except as directed by the DISTRICT.

E. Vendor shall coordinate installation of tank and associated equipment with the DISTRICT LPS Rehabilitation construction contractor through the DISTRICT's Construction Manager.

## 2.2 Delivery, Inspection, and Acceptance of LOX

A. No "minimum orders" are permitted. Bids indicating a minimum order requirement will be rejected.

B. LOX to be delivered to the location specified. All deliveries are F.O.B. destination.

C. LOX deliveries and service will occur between 7:00 am and 2:00 pm local time unless emergency conditions arise.

D. Deliveries will access the tank site via La Costa Ave, Carlsbad through a locked gate. The DISTRICT will provide access to the site. The Vendor will not install locks on any gates without prior approval from the DISTRICT.

E. LOX storage and feed system Vendor will maintain an adequate tank level at all times as to not interrupt system operation.

F. Vendor will continuously monitor the storage level in the LOX storage tank, schedule and perform LOX deliveries to ensure continuous operation of the system.

## 2.3 Equipment Requirements

A. Horizontal liquid oxygen storage tank: a 3,000-gallon capacity with pressure relief valves capable of multiple releases during low demand periods.

B. Ambient vaporizers: Two (2) ambient vaporizers shall be provided and shall be sized so that they can be alternated to maintain frost free through all climate conditions. Calculations shall be provided as part of the bid package to justify the sizing of the vaporizers. Climate conditions for operation will be as follows:

- a. Extreme High Temperature: 105°F
- b. Average High Temperature: 70°F
- c. Extreme Low Temperature: 30°F
- d. Average Low Temperature: 55°F
- e. Average Humidity: 80%
- f. Average Dew Point: 51°F

C. Dual line regulator with safety relief bypass and low temperature shut off to regulate the vaporizers discharge pressure and temperature. The discharge pressure shall always be between 80 and 100 psi and the oxygen must always be in its gaseous form when discharged from the vaporizers.

- D. An isolation valve at the outlet of the vendor supplied equipment.
- E. All interconnecting piping between oxygen systems components to the isolation valve.
- F. LOX tank level sensor and radio telemetry; and anchoring of LOX tank and vaporizers.
- G. The bid package shall include preliminary dimensional drawings of all equipment. A detailed system layout shall be provided to the District after the bid is award.

#### 2.4 Site Conditions

- A. Location for installation of the tank and equipment is shown on the attached LPS Rehabilitation Project sheets G1, C4, C5, M11, and S12.
- B. The equipment must fit within a 30' by 10'11" footprint.
- C. Any exceptions to the specified site shall be included in the bid package.

## MEMORANDUM

Ref: 21-7357

**DATE:** November 5, 2020  
**TO:** Engineering Committee  
**FROM:** Paul J. Bushee, General Manager   
**SUBJECT:** **Contract Award for the District's Encinitas Estates Pump Station Replacement Project**

---

### RECOMMENDATION:

Staff requests that the Engineering Committee recommend that the Board of Directors:

1. Authorize the General Manager to execute an Agreement with Pacific Hydrotech Corporation for the construction of the Encinitas Estates Pump Station Replacement Project in an amount not to exceed \$1,797,000 as the lowest responsive and responsible bidder.
2. Authorize an additional appropriation of \$1,134,000 to complete project construction and the associated soft costs.
3. Discuss and take other action as appropriate.

### BACKGROUND:

**Tactical Goal: Infrastructure and Technology / Encinitas Estates Pump Station Replacement**

In January 2020, the Board authorized the final design services for the Encinitas Estates Pump Station Replacement Project (Project). Infrastructure Engineering Corporation (IEC) completed Project design in July 2020. Subsequently, the project was noticed for bids on July 6<sup>th</sup> with bids due on August 18<sup>th</sup>. Unfortunately, the bids received in August were significantly higher than the estimated cost and budgeted appropriation. Therefore, all bids were rejected and staff proceeded to redesign the Project.

IEC completed Project redesign in September 2020. Additionally, IEC adjusted the Engineer's Estimate to reflect the current construction market and Project scope. The redesign included replacing the submersible chopper pumps with standard submersible pumps. This modification resulted in the removal of Variable Frequency Drives and their associated cooling equipment. The orientation and footprint of the pump station was altered to reduce the bypassing period during construction and impacts to the resident's property adjacent to the pump station. The goals of these modifications were to simplify construction and reduce construction and material costs.

### DISCUSSION:

The redesigned Project was bid on September 28, 2020 with bids due on October 27<sup>th</sup>. Six (6) bids were received with the following results:

<b>Construction Firm</b>	<b>Bid Price</b>
Kay Construction Company	\$1,616,200
Pacific Hydrotech Corporation	\$1,797,000
Stanek Constructors, Incorporated	\$1,893,000
Blue Pacific Engineering & Construction	\$1,907,000
SCW Contracting Corporation	\$1,987,000
James W Fowler Company	\$1,997,000

The bids were reviewed by Preston Lewis at IEC. The bid submitted by Kay Construction Company (Kay Construction), the apparent low bidder, did not meet the minimum experience requirements for the project. The minimum experience requirements were three (3) wastewater pump station projects or projects of similar scope and complexity in the past (5) five years and 100% flow bypassing with no spills. Kay Construction did not submit any pump station projects nor did they not submit the proposed Project Manager's resume. Their project references listed only sewer pipeline projects. Therefore, their bid was determined to be nonresponsive.

The second lowest bidder, Pacific Hydrotech Corporation (Pacific Hydrotech), submitted five (5) projects that satisfied the minimum experience requirements. However, they did not originally submit their proposed Project Manager's resume. Staff considers this a minor irregularity and recommends that this discrepancy be waived. Subsequently, Pacific Hydrotech did provide their proposed Project Manager's resume upon request. Upon completion of IEC's review, it was recommended that Pacific Hydrotech be awarded the contract as the lowest responsive and responsible bidder, see attached letter.

Pacific Hydrotech's bid is \$181K higher than Kay Construction's bid and is \$83K (4.8%) over the \$1.714M Engineer's Cost Estimate for construction. It should be noted that Pacific Hydrotech's bid is \$534,400 less than the lowest responsive and responsible bidder from the original August 2020 bid solicitation.

Kay Construction was notified of staff's intent to recommend that Pacific Hydrotech be awarded the contract as the lowest responsive and responsible bidder. Kay Construction accepted the result of the bid evaluation and understood the reasoning for their disqualification.

Based on the factors stated above, staff recommends that the Board of Directors award the contract for the Encinitas Estates Pump Station Replacement Project to Pacific Hydrotech in an amount not to exceed \$1,797,000 as the lowest responsive and responsible bidder.

**FISCAL IMPACT:**

Staff is requesting an additional appropriation of \$1,134,000 to the FY 21 Budget. Funds totaling \$946K were appropriated in prior fiscal years for Project construction. That budgeted cost was based on the replacement of the Village Park No. 5 (VP5) Pump Station completed in October 2017. The VP5 construction site was not restricted by adjacent homes, like the Encinitas Estates site, and did not include the replacement of the emergency generator and its associated equipment. The restricted site increases the construction period, thereby increasing construction costs. The Project incurred additional soft cost for Project redesign and construction management cost will increase with the increased construction period. Therefore, staff requests an additional appropriation to the FY 2021 Budget of \$1,134,000 to cover the bid price for construction and a 10% contingency and associated soft costs.

rym:PJB

Attachment



**BID REVIEW MEMORANDUM**

Date: November 5, 2020  
Subject: Encinitas Estates Pump Station Project  
Prepared By: Preston Lewis, P.E. 

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**PURPOSE**

This memorandum provides a summary of our evaluation of bid results and the responsiveness of the submitted bids for the subject project.

**BID RESULTS**

Six bids were received and opened on October 27<sup>th</sup>, 2020. The bids results are as follows:

<u>Contractor</u>	<u>Bid Amount</u>
Kay Construction	\$1,616,200
Pacific Hydrotech Corporation	\$1,797,000
Stanek Construction	\$1,898,000
Blue Pacific	\$1,907,000
SCW Contracting	\$1,987,000
James W Fowler	\$1,997,000
Engineers Estimate	\$1,714,000

**REVIEW OF LOW BIDDER**

**Kay Construction - Santee, CA is the apparent low bidder.**

**Contractor's License:** The Contractor holds the required Class A License (No. 648223). The license is current and active. They also hold classifications: B

**Bid Bond:** A bid bond in the amount of ten percent (10%) of the bid amount was submitted with United States Fire Insurance Company as surety.

**Signatures:** Jon Kay, Owner, signed the Closing Statement, Bidder's Bond, Non-Collusion Affidavit, California All-Purpose Acknowledgement, and Local Preference Certification.

**Project Manager's Experience:** The Contractor did not submit a resume for a designated PM

**Worker's Compensation Insurance:** State Compensation Insurance Fund Policy #9258550 8/6/2019 to 8/6/2020



**References:** Contractor did not complete qualifying experience forms included in the Bid Documents but instead attached a list of projects that omitted the data requested to be completed on the experience forms. Based on the list of project names submitted it does not appear that any sewer lift station projects have been completed by the contractor

**Recommendation:** Without any qualifying experience as required by the contract documents, it is recommended that the contractor be disqualified and that the second low bidder's bid be evaluated.

### REVIEW OF SECOND LOW BIDDER

Pacific Hydrotech Corporation is the apparent second low bidder.

**Contractor's License:** The Contractor holds the required Class A License (No. 518355). The license is current and active.

**Bid Bond:** A bid bond in the amount of ten percent (10%) of the bid amount was submitted with Liberty Mutual has an A.M. Best Financial Strength Rating of A (superior xv)

**Signatures:** Joselito Guintu, Vice President, signed the Closing Statement, Bidder's Bond, Non-Collusion Affidavit, California All-Purpose Acknowledgement, and Local Preference Certification.

**Project Manager's Experience:** The Contractor did not submit a resume for their proposed Project Manager. The Contractor was contacted and a resume for the proposed PM was provided and is attached.

**Worker's Compensation Insurance:** Policy # 54309453 07/01/2019 to 07/01/2021. The Contractor and their Sub-Contractors all have experience modification factors less than 1.0

#### References:

- 1) Agency: Eastern Municipal Water District  
Project: Soboba Lift Station  
Bid Amount: \$1,130,200  
Final Contract Amount: \$1,147,137  
Construction Duration: 320 Calendar Days  
Date of Substantial Completion: August 2019

Sewer lift station project that included 18-foot deep wet well and 10Hp submersible pumps. The project included sewer by-passing.



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2)	Agency:	International Boundary Water Commission
	Project:	South Bay International WWTP
	Bid Amount:	\$15,756,800
	Final Contract Amount:	\$17,804,059
	Construction Duration:	720 Working Days
	Date of Substantial Completion:	April 2018

Project included a 15 mgd lift station with 6 submersible pumps.

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3)	Agency:	City of Holtville
	Project:	Holtville WWTP
	Bid Amount:	\$11,229,137
	Final Contract Amount:	\$12,238,163
	Construction Duration:	540 Calendar Days
	Date of Substantial Completion:	June 2017

The project included a 2 mgd lift station with submersible pumps. The project included sewer by-passing.

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4)	Agency:	Coachella Valley Water District
	Project:	Plant 7 Biosolids Upgrades
	Bid Amount:	\$12,107,601
	Final Contract Amount:	\$12,107,601
	Construction Duration:	600 Calendar Days
	Date of Substantial Completion:	June 2018

The project included a 5 mgd lift station with 540 gpm submersible pumps.

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5)	Agency:	Irvine Ranch Water District
	Project:	Newport Coast Lift Station
	Bid Amount:	\$3,329,300
	Final Contract Amount:	\$3,623,688
	Construction Duration:	420 Calendar Days
	Date of Substantial Completion:	December 2018

The lift station project included sewer bypassing.

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The contractor also included a table of 15 large wastewater lift station and treatment plant projects completed throughout southern California

The attached table includes the agency responses to reference checks for the above projects that were included with their Bid.



Leucadia Wastewater District  
Encinitas Estates Pump Station Project  
Bid Review Memorandum  
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**Registration with the Department of Industrial Relations (DIR):** The Contractor and their Sub-contractors acknowledge being registered with the DIR

**Bid Item/Cost Review:** Pacific Hydrotech's bid is 6% less than the third lowest bidder and 5% greater than the Engineer's Estimate. Mobilization is 4.4% of the contract amount and is well within the contract limit of 5%. The review of the individual bid items generally lines up with the other bidders and there is no obvious evidence of weighting the bid.

**Claims Filed:** Pacific Hydrotech answered No to Item 8 in Experience Data, regarding claims filed within the past 5 years. They currently have two claims that are currently open

**Addenda:** Pacific Hydrotech acknowledges receipt of Addendum's 1

**APPROACH TO WORK:** Pacific Hydrotech submitted an approach that appears reasonable and appropriate for the project.

**SUMMARY:** Irregularities noted in their bid include:

- The Contractor did not submit a resume for their proposed Project Manager.
- The contractor submitted more than the required three qualify project experience. They have substantial experience in the construction of sewer pump stations are well qualified for this project.

**RECOMMENDATION:** Pacific Hydrotech has submitted a qualifying bid that includes reasonable costs, required license, bid bond, workers compensation insurance, acknowledgments, signatures, and qualifying experience, along with positive reference checks. The Contractor did however omit a resume of their proposed Project Manager. However, based on the otherwise completeness of the bid and the Contractors qualifications, it is recommended that the project be awarded to Pacific Hydrotech Corporation.

Attachments:

Reference Checks  
Resume Proposed Project Manager

<b>REFERENCES -</b>	<b>PACIFIC HYDROTECH CORPORATION</b>				
<b>Project/Owner's Rep Last Name, Phone No →</b>	Eastern Municipal Water District Ryan Mellow (951) 365-9082	Intl Boundary - Water Commission Arnold Wingle - On-Site Constr. Mgr (760) 602-3805	City of Holtville - Nicholas Wells (760) 356-4574	Irvine Ranch Water District Scott Toland (760) 822-3194	Coachella Valley Water District Diego Colorado Dudek Constr - Chuck Greely (760) 479-4151
<b>Project →</b>	Soboba Lift Station	South Bay Intl WWTP	Holtville Wastewater Treatment Plant	Newport Coast Lift Station	Plant 7 Biosolids Upgrades
<b>Substantial Completion →</b>	08/01/19	4/1/2018	6/2017	12/2018	6/1/2018
<b>Questions ↓</b>					
<b>1. Overall good to work with</b>	11/2 -Yes - very good to work with	11/3 - Yes	11/4 - Yes	11/3 - Yes - Very happy with work - cost effective	11/3 - Yes
<b>2. Claims filed</b>	None	No Claims	11/4 - No	No	None
<b>3. Change orders (number, status):</b>	11/2 - A few small - design changes	11/3- There were Significant design revisions but they were negotiated in a fair manner	11/4 - Yes, project was not fully designed when project began - they were justified	Change orders were justified	11/3 - There were a few Change Orders - less than 4%
<b>4. Would you award another contract to the Contractor:</b>	11/2 - Yes - absolutely	11/3 - Very selective in nature of the project if they were to be awarded a project again	11/4 - Yes, another project being bid on by them now	Yes	11/3 - Yes - absolutely
<b>5. Was work performed acceptably?:</b>	11/2 - Yes - work done was very good work	11/3-Eventually	11/4-Yes	Yes	11/3 - Yes - absolutely
<b>6. Other:</b>		11/3-They were unprepared for their first project working on a Federal Govt Project			



## Dale McKay RESUME

### Dale McKay, Project Manager

Office: Perris, CA

**PROFILE:** Accomplished professional of proven ability. Proficient in Project Management and Quality Control Management, with a drive for excellence and dedicated to delivering high quality projects by maintaining the highest moral standards and levels of integrity.

#### DUTIES:

**January 2002 to Present** – Project Manager (Perris, CA) As Project Manager, responsibilities include reviewing monthly corporate and project profit and loss reports, developing corporate policies and planning future corporate projects. Duties also include continued work as Project Manager on specific construction projects. Primary project activity has been in the construction of filter plants, well sites and pump stations, reservoirs.

**June 1999 to January 2002** – Project Superintendent (Perris, CA) As Superintendent, responsibilities include preparing submittals to the Owner/Engineer for approval, providing the customer with a specific contact person, keeping project schedules and project tracking. The project superintendent also supports the field crews w/ material and project procurement and plans and specifications clarifications and customer support.

**March 1990 to June 1999** – Foreman (Perris, CA)

#### *Professional Experience:*

**Garfield Reservoir Replacement & Pump Station- \$18.6M for the City of South Pasadena.** Demolition of existing reservoir, pipelines and pump station. Construction of new Underground pump station, underground pipelines and buried reservoir, including excavation, underground electric work, aggregate storage bins, drain systems, waterproofing, and site works. 2014-2017

**Menifee-Perris Desalters, Iron and Manganese Removal Facility - \$15M for Eastern Municipal Water District.** The project consisted of construction of (2) 160,000 gallon steel tanks, installation of (5) filters, construction of CMU equipment building and pre-fabricated steel building, (6) chemical feed pumps, (5) VIT pumps, construction of (9) new CMU block well site buildings, each with water softeners, (1) brine tank, (1) chlorine tank, water softeners, chlorine dosing pumps, rectifiers, electrical equipment, fine grading and asphalt work. 2011-2014

**Whittier Pumping Plant #2 project – \$14.1M for the Whittier Utility Authority.** The project consisted of the demolition of existing pump station and settling basin, construction of (2) new 3MG steel tank reservoirs, soil improvements, construction of new CMU block pump station with (4) 450HP vertical turbine pumps, 60” suction and 36” discharge piping, office building and furniture, fine grading and asphalt work. 2014-2016

**Water Reclamation Plant #7 Biosolids Upgrades - \$12M for Coachella Valley Water District.** The scope for this project includes the modification of the existing activated sludge pumping facility by removing the existing piping and installing new 2-6” piping to the new biosolids processing facility. The revision of scum piping by installing new piping from existing scum collection pit to new the new facility, and the construction of the new Biosolids Processing Facility capable of processing the sludge wasted from the existing water reclamation facility. 2016 – Jan. 2018 (in progress)

**Mesa Water Well Rehabilitation Project for the Mesa Water District – \$10.5M** which consists of rehabilitation of 5 existing well site, including (1) new Waukesha engine driven well pump, and (3) new motor driven well pump installations, new chemical injection equipment and (2) new 4,000 gallon chemical tanks at each well site. 2016-Present (In Progress)

**Alhambra Groundwater Treatment Plant (11.0MGD) - \$9.0M for the City of Alhambra.** This project included the construction of a groundwater treatment plant that treated eleven million gallons of water per day, including the relocation of pipes and valves, addition of a metering vault, and associated piping.

**Wilson Reservoir Replacement & Pump Station - \$8.2M for the City of South Pasadena.** The scope of work for this project included the demolition and removal of the existing Wilson Reservoir, pumping station, piping and associated facilities. The construction of the New Wilson Reservoir, clearwell, pumping station, operations building, piping, grading, and site improvements.

**2.1MG Reservoir and Pump Station - \$7.4M for the City of Industry.** This project included the construction of a new 3 pump-350HP pump station, a new (2.1) MG Steel tank, CIP pile foundation, surge tank, piping electrical, paving and fencing.

**Edinger Ave. Well Phase II Equipping Project for the City of Tustin - \$4M** which consisted of equipping previously drilled well, installation of new well pump, street work underneath 6 lane road, construction of new CMU block well site building, with a generator, scrubber, and chemical injection system, fire sprinkler system, fine grading, gate installation and asphalt work. 2015-2016

**Las Virgenes Third Digester Project for Las Virgenes Municipal Water District - \$6.1M.** The project consisted of construction of 1.0MG concrete sludge digester and mixing station, installation of (4) sludge mixing pumps, (4) sludge recirculation pumps and (4) heat exchanger, (1) boiler and all appurtenant piping, electrical work, grading and asphalt. 2013-2015

**Cal Poly Pomona Water Treatment Plant for Cal Poly Pomona College - \$4M.** The project consisted of construction of new CMU block treatment plant, reverse osmosis equipment including decarbonator, 1700 gallon flush tank, 500 gallon CIP tank, CIP control system, scale inhibitor, corrosion inhibitor, 500 gallon NaCl and NaOH chemical tanks, office/control room, restroom, tool room, lavatory room, underground wet well, fire sprinkler system, electrical work and (3) 250HP vertical turbine pumps. 2012-2014

**Well 19C - \$1.3M.** This project includes the installation of a single well and appurtenant piping, construction of a CMU pump house, removal and replacement of existing vertical turbine pump motors, and landscaping.

**Bella Vista Well - \$400K.** This project consisted of the equipping of a well site, siteworks, installation of a chlorination system, site block walls, and electrical works. 2006-2007

**Vale Well - \$400K.** This project consisted of the equipping of a well site, siteworks, installation of a chlorination system, site block walls, and electrical works. 2006-2007

MEMORANDUM

Ref: 21-7358

**DATE:** November 5, 2020  
**TO:** Engineering Committee  
**FROM:** Paul J. Bushee, General Manager   
**SUBJECT:** **Contract Award for Engineering Support Services for District's Encinitas Estates Pump Station Replacement Project**

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**RECOMMENDATION:**

Staff requests that the Engineering Committee recommend that the Board of Directors:

1. Authorize the General Manager to execute an Amendment No. 7 to Task Order 38 with Infrastructure Engineering Corporation for engineering support services during the construction of the Encinitas Estates Pump Station Replacement Project in an amount not to exceed \$75,680.
2. Discuss and take other action as appropriate.

**DISCUSSION:**

**Tactical Goal: Infrastructure and Technology / Encinitas Estates Pump Station Replacement**

The District's Encinitas Estates Pump Station Replacement Project (Project) requires engineering support during the construction phase of the project. Engineering support services include attending pre-construction and progress meetings, review and process submittals and shop drawings, respond to Requests for Information (RFI), design plan revisions when required, and prepare record drawings upon project completion. Infrastructure Engineering Corporation (IEC) designed the project and staff believes it is prudent to retain their services for continuity during the construction phase. Section 12.4, Continuing Services, of the District's Procurement Policy allows the retention of a firm for subsequent phases of a project. IEC submitted a proposal, attached, to provide office engineering services in an amount not to exceed \$75,680. Staff believes this fee is fair and reasonable.

The services to be provided under this contract will be paid on a time and material basis. Therefore, Staff recommends that the Board award the contract for engineering support services for the Project to IEC.

**FISCAL IMPACT:**

Funds have been appropriated to cover the proposed cost for engineering support during construction.

rym:PJB

Attachment



November 5, 2020

Mr. Robin Morishita  
Leucadia Wastewater District  
1960 La Costa Avenue  
Carlsbad, California 92009

**RE: Amendment 7 - Proposal for Construction Phase Services for Encinitas Estates Pump Station Project**

Dear Mr. Morishita:

It has been our pleasure to assist the District with the Encinitas Estates Pump Station Design Project. This letter requests an amendment (Amendment 7) for construction support services.

**SCOPE OF SERVICES**

**Task 1.0 – Bid Phase Services**

IEC will attend the Pre-construction meeting and prepare addenda to address bidder questions during the Bid Phase. Based on the three lowest bidders, IEC will conduct a bid review and analysis, perform reference checks, and prepare a recommendation memo for the District.

**Task 2.0—Review Shop Drawings and Respond to RFIs**

IEC will review project shop drawing submittals for conformance and compliance with the contract documents. The submittals will be stamped and returned with written comments to the District. Submittals will be coordinated with the District for their review and input prior to returning to the Contractor. Submittals will be digitized into an electronic PDF format and stored as a part of the project documentation. A submittal log will be kept for tracking status. The log will identify each submittal and re-submittal; date received; reviewer; and the date returned to the contractor, action required, and other pertinent information. It is anticipated that approximately forty (40) shop drawing submittals will be reviewed. It is assumed that there will be sixteen (16) re-submittals.

Contractor RFI's will be responded to in writing. The responses will first be sent to the District for input prior to returning to the Contractor. An RFI submittal log will be kept and will itemize the RFI and response(s). The log will also include the date received; reviewer; and the date returned to the contractor, and other pertinent information. It is anticipated that approximately twenty (20) RFI's will be reviewed.

It is anticipated that 4 site visits will be made during the construction phase.

**Task 2.1 & 2.2—Review Shop Drawings and Respond to RFIs Electrical and Structural**

Electrical and Structural submittals and RFI's will be processed as in Task 2.0 and routed to the appropriate discipline for review.



Mr. Robin Morishita  
Leucadia Wastewater District  
November 5, 2020  
Page 2 of 2

**FEE**

The proposed level of effort and fee is indicated on the attached table. Billing will be in accordance with our current agreement for as-needed engineering services. We sincerely appreciate the opportunity to provide this proposal and assist the District with this project. Please contact me at (858) 583-1580 should you have any questions or need further information.

Sincerely,

Preston Lewis, PE  
Senior Project Manager

cc: Rob Weber, PE, IEC

**FEE ESTIMATE  
LEUCADIA WASTEWATER DISTRICT  
Encinitas Estates Pump Station Project - Construction Services**



Task/ Subtask	Task/Subtask Description	<i>Sr. Project Manager (Skip Lewis)</i>	<i>Engineer II</i>	<i>Engineer I/ CAD I Designer</i>	<i>Word Processor</i>	Subtask Labor-Hours	Subtask Labor Cost	Direct Cost	Subcontract	Total Cost
		\$190.00	\$120.00	\$115.00	\$75.00					
<b>TASK 1</b>	<b>Bid Phase Services Original Design</b>									<b>\$7,180</b>
	Pre-bid, Addenda, Bid Review	24	16		8	48	\$7,080	\$100		\$7,180
<b>TASK 2</b>	<b>Construction Phase Services</b>									<b>\$68,500</b>
	Attend Pre-bid Mtg, 40 Submittals, 20 RFI's, 4 Site Visits	160	160		16	336	\$50,800	\$250		\$51,050
<b>Task 2.1</b>	Electrical								\$12,500	\$12,500
<b>Task 2.2</b>	Structural								\$4,950	\$4,950
		184	176	0	24	384				
		\$34,960	\$21,120	\$0	\$1,800		\$57,880	\$350	\$17,450	<b>\$75,680</b>

**TOTAL NOT-TO-EXCEED FEE: \$75,680**

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MEMORANDUM

Ref: 21-7359

**DATE:** November 5, 2020  
**TO:** Engineering Committee  
**FROM:** Paul J. Bushee, General Manager   
**SUBJECT:** **Contract Award for Construction Management Services for the District's Encinitas Estates Pump Station Replacement Project**

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**RECOMMENDATION:**

Staff requests that the Engineering Committee recommend that the Board of Directors:

1. Authorize the General Manager to execute an Agreement with Mavteck for construction management services during the construction of the Encinitas Estates Pump Station Replacement Project in an amount not to exceed \$90,000.
2. Discuss and take other action as appropriate.

**DISCUSSION:**

**Tactical Goal:** **Infrastructure and Technology / Encinitas Estates Pump Station Rehabilitation**

The District's Encinitas Estates Pump Station Replacement Project (Project) requires construction management (CM) support to oversee construction of the project. The CM services consist of contractor oversight, negotiating change orders, construction inspection and administration. Mr. Maverick Madsen (Mavteck) has a proven track record of providing excellent CM services to the District. Mavteck has provided excellent CM services for the Village Park No. 5 Pump Station Replacement, Batiquitos (B3) Force Main Discharge Section Replacement, and La Costa Force Main Emergency Repair projects. Additionally, Mavteck is currently providing CM services for the Leucadia Pump Station Rehabilitation and FY20 Gravity Sewer Repair / Quebrada Realignment projects. For the Project, Mavteck submitted a proposal to provide CM services in an amount not to exceed \$90,000, an estimated 720 hours at \$125 per hour. Based on the estimated one (1) year construction period and Mr. Madsen's experience and past performance, staff believes this fee is fair and reasonable.

Mavteck has provided CM services on previous District projects and has performed very well. He performed constructability reviews of the Project during the project's design phase and, therefore, has thorough knowledge of the project's plans and specifications. Retaining Mavteck's CM services during construction will provide continuity, efficiency and is in the best interest of the District. For these reasons, the procurement of these CM services satisfies the criteria for continuity of service under Section 12.4, Continuing Services, of the District's Procurement Policy.

The CM services provided by Mavteck will be paid on a time and material basis. Therefore, Staff recommends that the Board award the contract for CM services for the Project to Mavteck.

**FISCAL IMPACT:**

Funds have been appropriated to cover the proposed cost for CM services during construction.

rym:PJB