

AGENDA

**ENGINEERING COMMITTEE MEETING
LEUCADIA WASTEWATER DISTRICT
Wednesday, July 1, 2015 – 8:30 a.m.
1960 La Costa Avenue, Carlsbad, CA 92009**

1. Call to Order

2. Roll Call

3. Public Comment

4. New Business

- A. Authorize the General Manager to execute an Agreement with Charles King Company for construction services to complete the Scott's Valley Pipeline Rehabilitation Project in an amount not to exceed \$469,400. (Pages 2 - 7)
- B. Authorize the General Manager to execute an agreement with Infrastructure Engineering Corporation (IEC) for engineering design services for the Fiscal Year 2016 Gravity Pipeline Rehabilitation Project in an amount not to exceed \$34,960. (Pages 8 - 14)
- C. Authorize the General Manager to execute a sole source purchase Agreement with Haaker Equipment Company for the purchase of a new Vector Truck in an amount not to exceed \$366,561. (Pages 15 - 18)

5. Information Items

- A. B1/B2 Force Mains Replacement Project update. (verbal)
- B. Leucadia Pump Station Generator Replacement Project update. (verbal)

6. Director's Comments

7. General Manager's Comments

8. Adjournment

MEMORANDUM

Ref: 15-4576

DATE: June 25, 2015
TO: Engineering Committee
FROM: Paul J. Bushee, General Manager 
SUBJECT: Award of the District's Scott's Valley Pipeline Rehabilitation Project Construction Contract

RECOMMENDATION:

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

1. Authorize the General Manager to execute an Agreement with Charles King Company for construction services to complete the Scott's Valley Pipeline Rehabilitation Project in an amount not to exceed \$469,400.
2. Authorize an additional appropriation to the Fiscal Year 2016 (FY16) budget in the amount of \$81,000 to cover the full cost of project construction.
3. Discuss and take other action as appropriate.

DISCUSSION:

The Scott's Valley Pipeline Rehabilitation project is included as a goal under the Technology and Infrastructure Strategy in the Fiscal Year 2015 (FY15) Tactics & Action Plan.

In the past, continuous flow monitoring of the collection system through the installed ADS Flow Monitoring System has indicated a higher than expected early morning flow in the Scott's Valley area of the District. This prompted the Field Services Staff to conduct Closed Circuit Television (CCTV) Inspection of the Scott's Valley Line. As a result of the inspection, significant inflow and infiltration (I & I) was found in that gravity pipeline. The Scott's Valley Line is a 1,000 feet long vitrified clay pipe (VCP) pipeline.

In April 2014, the District executed an agreement with Infrastructure Engineering Corporation (IEC) to design the Scott's Valley Pipeline Rehabilitation Project. The project consists of Cured-in-Place Pipe (CIPP) lining of 680 feet of the pipeline, Cured-in-Place Manhole (CIPM) lining of three manholes in the Scott's Valley Line and epoxy lining of six manholes in Circulo Adorno. As design progressed, it was recommended that project construction be performed between September and March to avoid the bird nesting period in compliance with the Migratory Bird Treaty Act. Additionally, the slopes surrounding the valley, to the east and west of the project area, are characteristic of the environments that support species such as the California Gnatcatcher and Least Bell's Vireo.

Project design was completed in May 2015 and advertised for bids. Bids were due on June 17, 2015. Three bids were received as follows:

<u>Construction Firm</u>	<u>Bid Submitted</u>
Charles King Company	\$469,400
Southwest Pipeline	\$534,636
Nu-Line Technologies	\$939,377

The bids were reviewed by Robert Weber, Jamie Fagnant and Scott Fleming at IEC. The bid review memorandum is attached for your review. Charles King Company (Charles King) submitted the apparent low bid. Charles King's individual bid item amounts roughly correlated with those of the engineer's opinion of probable cost and the second lowest bidder. However, one issue was noted on the bid schedule submitted by Charles King:

- Two of the bid items (items 6 and 10) were entered as a unit cost rather than the total sum. The far right column on the bid schedule is meant to total the cost for the bid item (unit cost multiplied by quantity). However, in filling out the bid schedule Charles King entered the unit cost instead of the total sum for that line item in the total column. The total bid amount was summed correctly and reflected the correct total for all bid items, accounting for quantity and unit price. IEC contacted Charles King about the discrepancy. Charles King confirmed and validated the total bid amount they submitted. This is a minor irregularity that staff recommends to be waived.

As a result of their evaluation, IEC has determined that Charles King has the ability to complete the work for the cost given and has determined Charles King to be responsive to the bid requirements and recommends that the District award the project to Charles King.

The low bid was \$144,531 (44%) greater than the engineer's opinion of probable cost. Several aspects of this project appear to have increased costs beyond the industry average cost for the construction of similar sewer improvements. These increases arise from physical conditions at the site and from good engineering practice:

- There is one known subcontractor available to place chemical grout in southern California. The lack of potential competition may result in increased bid prices.
- Several of the cured-in-place pipe and the manhole lining installations require all-terrain vehicle (ATV) access only.
- The bypass required is extensive and some portions must be installed via ATV access only.

Additionally, IEC has observed a measureable increase in new construction and a corresponding increase in bidding costs. IEC noted that several recent bid results on similar public works projects have come in higher, in some cases significantly, than the engineer's opinion of probable cost. It is IEC's opinion that the bid costs reflect the current market conditions and difficult site conditions and do not constitute grounds to reject the received bids.

Therefore, Staff recommends that the Board of Directors award the contract to Burtech as the lowest responsive and responsible bidder in an amount not to exceed \$469,400.

FISCAL IMPACT:

Staff appropriated \$270,000 in the FY15 Budget for project construction. When combined with prior appropriations the total amount available for construction is \$435,000. An additional appropriation of \$81,000 is needed to cover the construction costs for the project with a 10% contingency. Staff recommends completing the repair as a proactive measure in response to the California River Watch settlement and to ensure the integrity and reliability of the collection system.

rym:PJB

Attachment



BID REVIEW MEMORANDUM

Date: June 25, 2015

Subject: **Scott's Valley Sewer Rehabilitation**

Prepared By: Scott Fleming, and Jamie Fagnant, P.E.

Reviewed By: Rob Weber, P.E.

PURPOSE

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

BID RESULTS

Three bids were received and opened on June 17, 2015. The bids are summarized on Table 1 - Bid Summary (see attached) and characteristics of the bids are as follows:

Low Bid:	\$469,400
Average Bid:	\$647,804
High Bid:	\$939,377
Engineer's Opinion of Probable Cost:	\$324,896

IEC reviewed the three bids and found that the bid item amounts were comparable between the two lowest bidders. This indicates that the Contractors submitting the two lowest bids were interpreting the contract documents similarly.

Several aspects of this project appear to have increased costs beyond the engineer's opinion of probable construction cost and industry average cost for the installation of similar sewer improvements. These requirements arise from physical conditions at the site and from good engineering practice:

- There is one known subcontractor available to place chemical grout in southern California. The lack of potential competition may result in increased bid prices.
- Several cured-in-place pipe and manhole lining installations require ATV (all-terrain vehicle) access only.
- The bypass required is extensive and some portions must be installed via ATV access only.

In addition, IEC has been seeing a measureable increase in new construction and a corresponding increase in bidding costs. Although we make every attempt to account for market volatility in our engineer's opinion of probable cost, the bid results for this project appears to indicate a faster increase in market costs than expected. Several recent bid results on similar public works projects we are aware of have come in high, and in some cases, significantly over the engineer's opinion of probable cost.

It is our opinion that the bid costs reflect the current market conditions and difficult site conditions and do not constitute grounds to reject the received bids.



REVIEW OF LOW BIDDER

Charles King Co Inc. (Charles King Co or Contractor), Signal Hill, California submitted the apparent low bid. IEC has determined Charles King Co to be responsive to the bid requirements and recommends that the District award the project to Charles King Co Inc. The following reviews have been completed:

Contractor's License: The Contractor holds the required Class A License (No. 738236). 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 The Ohio Casualty Insurance Company as surety. This surety company has a rating of A Class XV with Best's Key Rating Guide.

Signatures: The Contractor's Vice-President, Charles King signed the Closing Statement. Charles King signed the Bidder's Bond, Non-Collusion Affidavit, and the Local Preference Certification.

Addenda Acknowledged: Addendum No 1 was acknowledged by Charles King Co. Sarah King signed the Addendum Certification Form.

Project Manager's Experience: The Contractor has identified Steve Radaich as the project manager in a follow-up phone call from IEC on 6/19/2015. Submission of his resume to IEC was pending at the time of completion of this memorandum.

Approach to Work: The Contractor addressed the anticipated project issues as required in the Approach to Work section of the Bid Documents as outlined below:

Contractor will establish environmental controls, install the bypass, CIPP and do manhole work and restore project.

Worker's Compensation Insurance: Policy is in affect through 6/2/2016. The most recent workers' compensation experience modification factor for Charles King Co. is 0.83%.

Experience Requirements: The bid documents require the Contractor to submit three project references that included the installation of at least 300 linear feet of cured-in-place pipe lining into a 15-inch or greater diameter pipe, five project references that included the installation of a two-component, 100% solid, epoxy manhole coating, that total to at least 50 manholes, three project references that included the installation of cured-in-place manhole liner, for a total of 30 manholes, and three project references that included the bypassing of active sewer flows of at least 500 gpm without a spill incident. Charles King Co Inc. and their subcontractors submitted fourteen project references, and together they meet the requirements.

References: IEC contacted Charles King Co listed references to perform an assessment of the Contractor's prior work. In all cases, Charles King Co was recommended as a good Contractor with no record of claims.

Registration with the Department of Industrial Relations (DIR):



As of 3/1/2015, contractors and their subcontractors are required to be registered with the DIR prior to bidding a public works project. The table below demonstrates that Charles King Co and each of its subcontractors have met this requirement.

Contractor Legal Name	Registration Number	Registration Date	Expiration Date
Charles King Co, Inc.	1000001537	09/25/2014	06/30/2015
Sancon Engineering	1000003923	12/22/2014	06/30/2015
Insituform Technologies	1000009689	02/13/2015	06/30/2015

Source: <https://efiling.dir.ca.gov/PWCR/Search.action>

Bid Item Review: Charles King Co's individual bid item amounts roughly correlate with those of the engineer's opinion of probable cost and the second lowest bidder.

Bid Schedule: There was a discrepancy with the execution of the bid schedule. Two of the bid items (items 6 and 10) are unit cost rather than lump sum. The far right column on the bid schedule is meant to total the cost for the bid item (unit cost times quantity). However, in filling out the bid schedule Charles King Co wrote the unit cost instead of the total in the total column. The overall bid cost was summed correctly, with the correct total cost for each bid item included in the total bid price and the amount in words matches the amount in numbers. IEC contacted Charles King Co to confirm the unit costs and totals. Charles King Co acknowledged the discrepancy in the bid schedule, and confirmed the unit costs and totals. These unit costs and totals are as shown in the attached Table 1 and these unit costs should be used as basis for payment for these bid items in the event that the contract is awarded to Charles King. This is a minor irregularity that we recommend be waived.

RECOMMENDATION

IEC recommends award of the contract to Charles King Co Inc. based on their knowledge and experience record and responsiveness to the bidding requirements.

Attachments

Table 1 – Bid Summary

**Leucadia Wastewater District
Scott's Valley Sewer Rehabilitation Project
Table 1 - Bid Summary**

Item	Description	Unit	Qty.	Engineer's Opinion of Probable Construction Cost	Charles King	Southwest	Nu - Line
1	Mobilization, Bonds, Permits, Cleanup and Demobilization	LS	1	\$14,000	\$24,000	\$10,000	\$35,000
2	18" Cured-in-Place Pipe Lining	LF	678	\$81,360	\$152,550	\$177,636	\$516,636
3	Sewer Bypassing	LS	1	\$120,000	\$132,350	\$215,000	\$220,000
4	Water Pollution Control*	LS	1	N/A	\$9,500	\$2,500	\$19,000
5	Traffic Control*	LS	1	N/A	\$3,000	\$2,500	\$35,000
6	Manhole Rehabilitation by Epoxy Lining of Six Manholes on Circulo Adorno	EA	6	\$32,000	\$30,000	\$24,000	\$20,670
7	Manhole Rehabilitation by Cured-in-Place Manhole Lining, Manhole 08-0285	LS	1	\$10,000	\$36,000	\$30,000	\$23,722
8	Manhole Rehabilitation by Cured-in-Place Manhole Lining, Manhole 08-0280	LS	1	\$16,000	\$32,000	\$27,000	\$22,119
9	Manhole Rehabilitation by Cured-in-Place Manhole Lining, Manhole 08-0290	LS	1	\$16,000	\$32,000	\$27,000	\$22,230
10	Manhole Rehabilitation - Chemical Grouting of Infiltration	GAL	200	\$6,000	\$6,000	\$6,000	\$10,000
11	New Access gates*	LS	1	N/A	\$12,000	\$13,000	\$15,000

* Bid Item added after 100% Engineer's Opinion of Probable Cost

Engineer's Opinion of Probable Construction Cost
\$324,896

Subtotal:	\$295,360			
Contingency (10%):	\$29,536			
Total:	\$324,896	\$469,400	\$534,636	\$939,377
Check Total:		\$469,400	\$534,636	\$939,377
Amount in Words:		\$669,946	\$730,000	\$764,000

MEMORANDUM

DATE: June 25, 2015
TO: Engineering Committee
FROM: Paul J. Bushee, General Manager 
SUBJECT: Fiscal Year 2016 (FY16) Gravity Pipeline Rehabilitation Project Engineering Design Services

RECOMMENDATION:

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

1. Authorize the General Manager to execute an agreement with Infrastructure Engineering Corporation (IEC) for engineering design services for the Fiscal Year 2016 Gravity Pipeline Rehabilitation Project in an amount not to exceed \$34,690.
2. Discuss and take other action as appropriate.

DISCUSSION:

The Gravity Pipeline Rehabilitation project is included as a goal under the Technology and Infrastructure Strategy in the FY16 Tactics & Action Plan.

The District's 2013 Asset Management Plan (AMP) included a 5 year Capital Improvement Program for each of the five District asset categories – gravity sewers, manhole, pump stations, force mains, and jointly-owned facilities. The gravity sewer pipeline category included an annual gravity pipeline project for the programmatic replacement of vitrified clay pipe (VCP). This programmatic replacement was intended to replace the older VCP lines, starting with the older Leucadia area, which have been noted to have root intrusion.

The shift in Field Service focus from hydro-cleaning to Closed Circuit Television (CCTV) Inspection has resulted in the discovery of significant pipe defects throughout the collection system that are of a high priority for repair. In 2014, Staff developed a process to generate and maintain a prioritized list of pipelines with defects, a Repair Priority List, as a result of CCTV inspections. Defects discovered include major sags, severe cracks, offset joints, broken pipe and major deterioration of asbestos cement pipe. In 2015, Staff added manholes to the Repair Priority List. Staff believes the repair of pipelines and manholes with defects on the Repair Priority List take precedence over the programmatic replacement of VCP lines due to root intrusion. Therefore, the Gravity Pipeline Rehabilitation Project (Project) for FY16 and subsequent fiscal years will focus on the repair of prioritized collection system defects on the Repair Priority List.

Infrastructure Engineering Corporation (IEC) has submitted a proposal, attached, to complete the design phase of the FY16 Project. The Scope of Services includes:

Task 1 – Project Management and Administration

- Two meetings – discuss preliminary engineering assessment and 90% design review.

Task 2 – Preliminary Engineering Assessment

- Prepare a preliminary engineering assessment composed of an overview map and a spreadsheet of recommendations.
- Preliminary engineering assessment will consist of:
 - Review CCTV records of facilities recommended for repair
 - Obtain and review record drawings for facilities recommended for repair
 - Perform a limited site reconnaissance for each facility to assess site constraints

Task 3 – Final Design

- Prepare bid package.

The proposed cost for these design services is \$34,690. Staff has reviewed and discussed the scope of work and proposed fee with IEC. Staff believes the proposal is fair and reasonable.

FISCAL IMPACT:

Staff appropriated funds in the FY16 Budget in anticipation of this project. The budget contains sufficient funds to cover the design services under this agreement.

rym:PJB

Attachment



June 25, 2014

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

RE: Proposal for Engineering Services for FY 16 Gravity Sewer Repairs Project

Dear Mr. Morishita:

Infrastructure Engineering Corporation (IEC) is pleased to provide the Leucadia Wastewater District with this proposal for Engineering Services for the FY 16 Gravity Sewer Repairs Project. The proposed scope of services and fee is based on discussions with District staff.

PROJECT BACKGROUND AND APPROACH

As documented in the District's Asset Management Master Plan prepared by Dexter Wilson Engineering, Inc., dated January 2013, the District systematically inspects its gravity sewer system via closed circuit television (CCTV). As District staff performs these CCTV sections gravity main sections in need of repair are flagged for repair within the District's sewer maintenance and operation software system. On an annual basis, these facilities flagged for repair are compiled into a capital improvement project for potential repair or rehabilitation.

We have prepared this scope and approach to provide a preliminary review of facilities identified for inclusion in the FY 16 Gravity Sewer Repair Project, repair and rehabilitation recommendations, and final design plans, specifications and engineer's opinion of probable cost. The scope of work is based on a scope comparable to last years' gravity sewer repair project with exceptions made for specific items as discussed with the District in the course of preparing this proposal. The FY16 Gravity Sewer Repair Project scope includes preliminary assessment and final design for the following items:

- Repair or rehabilitation of 16 facilities by cured-in-place pipe (CIPP) lining, CIPP point repair, or manhole rehabilitation.
- Repair or replacement of two sites by excavated point repairs or open trench replacement.
- CIPP lining of an existing 8" sewer gravity main through La Costa Spa and Resort (Resort) and/or rerouting of flow to an adjacent 18" gravity main. During the FY15 Gravity Sewer Repair Project IEC performed a preliminary hydraulic analysis on the existing 8" main to assess the feasibility or rerouting all or some of the flow from the gravity main crossing the Resort to a perpendicular 18" gravity sewer. Capacity was identified as available in the 18" gravity sewer and preliminary review of record drawings indicated sufficient fall to make a connection. IEC recommends additional assessment to confirm recommended improvements in this area including identifying lateral connection locations from adjacent parcels by reviewing CCTV data and coordinating with District staff, and surveying manholes on the 8" and 18" sewer to confirm record drawing information. IEC has included limited survey scope to establish horizontal and vertical control and survey six



Mr. Robin Morishita
Leucadia Wastewater District
June 25, 2014
Page 2 of 4

manholes in the area for horizontal and vertical information. Detailed survey of the site, mapping of right-of way, property lines or easements is not included.

- Inclusion of the Leucadia Scenic CIPP (design and Caltrans encroachment permit performed under the FY15 Gravity Sewer Repair Project).

Preliminary Engineering Assessment

Per the request of District staff in previous similar projects, in lieu of a formal preliminary design report, IEC proposes to perform a preliminary engineering assessment composed of an overview map and a spreadsheet of recommendations to be discussed in a review meeting with District staff and documented in meeting minutes. The Preliminary Engineering Assessment will consist of the following:

- Review CCTV records of facilities recommended for repair. In general, IEC will review the CCTV records for suitability of proposed repair methods. Of particular concern are limiting conditions that may preclude the use of trenchless repair methods such as an offset joint or protruding object that may require excavation and repair prior to application of a trenchless rehabilitation method.
- Obtain and review record drawings for facilities recommended for repair.
- Perform a limited site reconnaissance for each facility to assess site constraints including paving requirements, traffic control, access conditions, and identification of the City of jurisdiction and bypass requirements. It is anticipated that the majority of site reconnaissance will be performed utilizing Google Street View, however, IEC has included a day of site visits to document conditions within easements for nine facilities. It is anticipated that the District will notify property owners and escort IEC staff to these site visits located on private property.

Final Design

Final design is expected to consist of a bid package containing D-sized sheets, CSI format specifications and a cost estimate. The D-sized sheets are anticipated to consist of a title sheet, a general notes sheet and a sheet containing an overview map of the District's system indicating location of facilities to be repaired or rehabilitated and a corresponding table documenting facility length, District segment number, existing pipe size and material and required repairs and four site specific sheets, each containing two sites with proposed excavated repairs. Site specific sheets will include existing utility data plotted over a Google earth image. At this point it is anticipated that this will be sufficient to convey design intent and site parameters such as traffic control needs (detailed traffic control plans are to be prepared by the Contractor), paving requirements, and adjacent buried utilities. In general, site specific sheets do not include a detailed survey or horizontal or vertical control. Horizontal and vertical control will be established for the La Costa Spa and Resort gravity main rerouting if included, and IEC will utilize existing survey at the La Costa Pump Station site, but performance and inclusion of additional detailed site survey at other sites is not included. IEC will conduct a Dig Alert design request, contact utility owners indicated to have buried facilities in the area and plot utilities based on data received from utility owners, County parcel data and Google Earth images.

IEC's below scope is crafted to be responsive to the above approach and does not include CEQA determination of the proposed project(s), environmental support, survey services except where



Mr. Robin Morishita
Leucadia Wastewater District
June 25, 2014
Page 3 of 4

specifically noted, manhole inspection, flow monitoring, or a detailed preliminary design report or memorandum. Site visits for additional facilities located in easements, and additional site specific details for excavated repairs other than as specifically listed herein may be provided for additional scope and fee.

SCOPE OF SERVICES

The following detailed scope of services describes the specific tasks and deliverables that will be performed.

Task 1 – Project Management and Administration

In order to expedite the project, we anticipate two coordination meetings will be required during the project, one to discuss the results of the preliminary engineering assessment and one to review the 90% bid package during final design. Additional coordination, project status reports and schedule updates will be addressed via e-mail and telephone.

Task 2 – Preliminary Engineering Assessment

IEC will prepare a preliminary engineering assessment composed of an overview map and a spreadsheet of recommendations. The Preliminary Engineering Assessment will consist of the following:

- Review CCTV records of facilities recommended for repair. In general, IEC will review the CCTV records for suitability of proposed repair methods.
- Obtain and review record drawings for facilities recommended for repair.
- Perform a limited site reconnaissance for each facility to assess site constraints including paving requirements, traffic control, access conditions, identification of the City of jurisdiction and bypass requirements. It is anticipated that the majority of site reconnaissance will be performed utilizing Google Street View, however IEC has included site visits to document conditions at nine facilities. It is anticipated that the District will notify property owners and escort IEC staff to these site visits located on private property.

Task 3 – Final Design

IEC will prepare one bid package. It is anticipated that this bid package will consist D-sized sheets, CSI format specifications and a cost estimate. The D-sized sheets are anticipated to consist of a title sheet, a general notes sheet and a sheet containing an overview map of the District's system indicating location of facilities to be repaired or rehabilitated and a corresponding table documenting facility length, District segment number, existing pipe size and material and required repairs and two site specific sheets will including existing utility data plotted over a Google earth image. At this point it is anticipated that this will be sufficient to convey design intent and site parameters such as traffic control needs (detailed traffic control plans are to be prepared by the Contractor), paving requirements, and adjacent buried utilities. Site specific sheets do not include a detailed survey or horizontal or vertical control except in the case of the potential La Costa Spa and Resort gravity main rerouting. IEC will conduct a Dig Alert design request, contact utility owners indicated to have buried facilities in the area and plot utilities based on data received from utility owners, County parcel data and Google Earth images.



Mr. Robin Morishita
Leucadia Wastewater District
June 25, 2014
Page 4 of 4

This scope does not include right-of-way permit coordination, traffic control or surveying except for the previously noted survey of six manholes for the La Costa 8" gravity main.

SCHEDULE

It is anticipated IEC will attend a preliminary engineering feasibility assessment meeting at the District four weeks following the notice to proceed. Following the meeting IEC will prepare meeting minutes documenting the results of the meeting within one week. Following the meeting, IEC will prepare a 90% level bid package within four weeks. Following a two week review period by the District IEC will prepare a final signed bid package incorporating District comments within three weeks. Additional drafts or a change in scope from the scope proposed herein will require additional time and budget.

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) 413-2400 should you have any questions or need further information.

Sincerely,



Robert S. Weber, P.E.
Senior Project Manager

cc: Jamie Fagnant, P.E., IEC

**FEE ESTIMATE
LEUCADIA WASTEWATER DISTRICT
FY 16 Gravity Sewer Mains Repairs**

Task/ Subtask	Task/Subtask Description	<i>Sr. Project Manager (Rob Weber)</i>	<i>Project Engineer (Jamie Fagnant)</i>	<i>Engineer I/ CAD I Designer (Anthony Salvani)</i>	<i>Project Surveyor</i>	<i>Word Processor (Annette Moore)</i>	Subtask Labor-Hours	Subtask Labor Cost	Direct Cost	Subcontract	Total Cost
		\$190.00	\$130.00	\$105.00	\$130.00	\$65.00					
TASK 1	Project Management and Administration										\$3,590
	Design Meetings (2)	4	8				12	\$1,800	\$250	\$0	\$2,050
	Project Status Reports/Coordination	4	6				10	\$1,540	\$0	\$0	\$1,540
TASK 2	Preliminary Engineering Feasibility Assessment										\$12,610
	Review CCTV (18 sites)	2	6	18			26	\$3,050	\$0	\$0	\$3,050
	Review rec dwgs/site conditions/bypass requirements	2	16	6			24	\$3,090	\$0	\$0	\$3,090
	Site Visits		6	6			12	\$1,410	\$100	\$0	\$1,510
	La Costa Gravity Sewer Survey and assessment	2	16	4	16		38	\$4,960	\$0	\$0	\$4,960
TASK 3	Final Design										\$18,490
	Excavation utility research	1	4	12			17	\$1,970	\$0	\$0	\$1,970
	90% submittal	4	24	60			88	\$10,180	\$0	\$0	\$10,180
	Final Submittal lining	2	16	32		8	58	\$6,340	\$0	\$0	\$6,340
		21	102	138	16	8	285				
		\$3,990	\$13,260	\$14,490	\$2,080	\$520		\$34,340	\$350	\$0	\$34,690

TOTAL NOT-TO-EXCEED FEE: \$34,690

MEMORANDUM

Ref: 15-4578

DATE: June 25, 2015

TO: Engineering Committee

FROM: Paul J. Bushee, General Manager 

SUBJECT: Award of Purchase Contract to Haaker Equipment Company for a New Vector Combination Truck

RECOMMENDATION:

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

1. Authorize the General Manager to execute a sole source purchase Agreement with Haaker Equipment Company for the purchase of a new Vector Truck in an amount not to exceed \$366,561.00.
2. Discuss and take other action as appropriate.

DISCUSSION:

The Leucadia Wastewater District (District) has three Vector Combination Trucks (Vector) in its fleet. Over the past year, Staff has noticed an increase in the cost and frequency of repair of the two oldest Vectors. The oldest Vector, number 128, was purchased in 1998 and is 17 years old. The second Vector, number 147, was purchased in 2002 and is 13 years old. The District has been using Vector trucks to hydro-clean its collection system since 1991. District's Field Service Staff has been specifically trained to operate and maintain the Vector. Additionally, the Vector has proven to be very reliable. Staff believes it is prudent for the District to continue using Vector Combination Trucks:

Vehicle replacement guidelines in the District's Vehicle Replacement Policy recommend that heavy duty vehicles be replaced every 10 years or 100,000 miles. Based on the ages of Vectors 128 and 147, 17 years and 13 years respectively, both have exceeded the 10 year age threshold. Additionally, due to the increase in maintenance frequency and associated cost staff believes both Vectors have exceeded their useful life. Staff intends to trade in both Vectors 128 and 147 when the new Vector is purchased. Since a new trailer mounted mini-jetter has been added to the fleet, the two for one trade of Vector trucks will not reduce the capability of Staff to respond to emergencies or conduct collection system hydro-cleaning.

Haaker Equipment Company (Haaker) is the only authorized southern California dealer for Vector Trucks. Under Section 11.1, Sole Source Procurement, of the District's Procurement Policy, sole source procurement is allowed in cases where goods and services are obtainable from only one vendor due to unique circumstances. Additionally, Section 11.3, Complex or Unique Items, of the District's Procurement Policy, allows for the purchase of unique equipment without following sealed bid procedures. Therefore, staff requested a quote from Haaker for the replacement Vector, attached for your review.

Staff has evaluated the quote submitted by Haaker and is satisfied that the Vactor meets their specified combination truck requirements. Therefore, it is recommended that the Board authorize the execution of a sole source purchase Agreement with Haaker for the purchase of a new Vactor Truck.

FISCAL IMPACT:

The FY16 Capital Acquisition Budget includes sufficient funding for the purchase of this replacement Vactor truck.

js:PJB

Attachment

HAAKER

EQUIPMENT COMPANY

2070 North White Avenue, La Verne, California 91750
(909) 598-2706 ~ FAX (909) 598-1427 ~ haaker.com

PROPOSAL **June 9, 2015**

TO: LEUCADIA WASTE WATER
1960 La Costa Ave.
Carlsbad CA 92009

ATTN: Mr. Marvin Gonzalez
Email: mgonzalez@lwwd.org

In accordance with your request, we are pleased to submit the following proposal for your consideration and approval:

One (1) NEW VACTOR 2110 PLUS JET RODDER

10-Cubic Yard Capacity with Roots 16" Positive Displacement Blower, 1000 Gallons Of Water, Mounted on a 2016 Freightliner M2 4x2 Chassis with 370 HP, Allison Automatic Transmission with 2013 Emissions Package. Equipped with all Standard and Optional Equipment listed:

STANDARD FEATURES

- 48" x 22" x 24" Curb Side Aluminum Toolbox
- Aluminum Fenders
- Mud Flaps
- Electric/Hydraulic Four Way Boom
- Color Coded Sealed Electrical System
- Remote Pendant Control w/35' Cord
- Vansco-Electronic Package
- Double Acting Dump Hoist Cylinder
- Handgun Assy. w/1/2" x 35' Hose w/Quick Disconnects
- 3" Y-Strainer at Water Pump Inlet
- Ex-Ten Steel Cylindrical Debris Tank
- Flexible Hose Guide
- 30 Deg. Sand Nozzle w/Carbide Inserts
- 30 Deg. Sanitary Nozzle w/Carbide Inserts
- 15 Deg. Penetrator Nozzle w/Carbide Inserts
- Nozzle Storage Rack
- Vacuum Tube Storage: Curbside (2) Pipe, Rear Door (2) Pipe
- 1" Nozzle
- Flat Rear Door w/Hydraulic Locks and Door Power-up/Down, Open/Close Feature
- Dual 10" Stainless Steel Float Shut Off System/Rear Mounted
- Debris Body Vacuum Relief System
- Debris Deflector Plate
- 48" Dump Height
- Water Sight Gauge PS
- Liquid Float Level Indicator
- 3" Y-Strainer @ Water Pump w/3" Drain Valve
- Performance Package: (Hyd Variable Flow, Dual PTO's, Dual Hyd. Pumps)
- 1" Water Relief Valve for Vactor Water Pump
- Stainless Steel Microstrainer
- Blower Air Shift Controls
- Hydraulic Cooling Package
- Midship Handgun Coupling
- Side Mounted Water Pump
- Hose Wind Guide (Dual Roller)
- Hose Footage Counter - Mechanical
- Hose Reel Manual Hyd. Extend/Retract
- Hose Reel Chain Cover (Full)
- Tachometer/Chassis Engine W/Hourmeter
- Circuit Breakers
- LED Lights. Clearance, Back-Up, Stop, Tail & Turn
- Vactor Spanish Manual & CD Version
- Tow Hooks, Front and Rear
- Electronic Back-Up Alarm
- Module Paint, Dupont Imron Elite - Wet on Wet
- 8" Vacuum Pipe Package
- Emergency Flare Kit
- Fire Extinguisher 5 Lbs.
- Vactor 2100 plus Body Decal - Multi-Colored

ADDITIONAL FEATURES INCLUDED

- 3" Y-Strainer w/25' Fill Hose
- Roots 824-16" Hg. Blower
- 180 Degree Rotation, 10 Ft. Hydraulic Telescoping Boom, Front Loading 8" Suction Hose
- 80 GPM Variable Flow Water System
- 2500 PSI Water Pressure
- 1" x 600' Piranha Sewer Hose, 2500 PSI
- Hydraulic Extending/Rotating 15" Hose Reel (1" x 800') Capacity
- Debris Body Flush Out System
- Debris Body Load Limit Alarm functionally tied to Vacuum Relief
- 6" Butterfly Valve, Rear Door, 3:00 Position
- 6" Butterfly Valve, Rear Door, 6:00 Position
- Pump Off Ports Only
- Pump Off Plumbing to Front Bumper
- Centrifugal Separators
- Folding Pipe Rack, Curbside
- Folding Pipe Rack, Streetside
- Rear Door Splash Shield
- Lube Manifold
- Plastic Lube Chart
- Front Joystick Boom Control
- Jet Rodder Water System Accumulator
- Automatic Hose Level Wind Guide, Indexing
- Rodder Pump Drain Valves
- Debris Body-Up Alarm
- Whelen LED Light Package including Light bar, Hideaways, Rear LED Strobe, LED Traffic Advisor

Unit Price \$ 339,408.00
Sales Tax (8.0%) \$ 27,153.00

TOTAL PRICE: FOB: CARLSBAD, CA: \$ 366,561.00

THE PROPERTY HEREIN IS GUARANTEED BY MANUFACTURER'S WARRANTY ONLY AND SELLER MAKES NO WARRANTY EXPRESSED OR IMPLIED, OF MERCHANTABILITY OR OTHERWISE, OR OF FITNESS FOR ANY PARTICULAR PURPOSE, THAT EXTENDS BEYOND THE ABOVE DESCRIPTION OF THE EQUIPMENT.

NOTE: Price is good until 60 Days. Cost increases due to the addition of Government mandated safety or environmental devices incurred after the date of this proposal, will be charged to you at our cost. Proof of such costs, if any, will be documented.

TAXES: SALES TAX applicable at time of delivery will be shown on our invoice. FEDERAL EXCISE TAXES, if applicable, will require payment unless a properly executed Exemption Certificate is submitted.

DELIVERY: Approx 280-340 Days **TERMS:** Net 30

We appreciate the opportunity to present this proposal and look forward to being of further and continued service.

HAAKER EQUIPMENT COMPANY

ACCEPTED BY: _____

BY: Chay Vallejo
JOSE "CHUY" VALLEJO
Parts/Service/Outside Sales Mgr.

DATE: _____