

AGENDA

**ENGINEERING COMMITTEE MEETING
LEUCADIA WASTEWATER DISTRICT**
Wednesday, December 2, 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 Task Order No. 26 to the Engineering Design Services Agreement with Infrastructure Engineering Corporation (IEC) for the Gafner Advanced Water Treatment (AWT) Facility Condition Assessment in an amount not to exceed \$59,290. (Pages 2 - 6)
- 5. Information Items**
 - A. Saxony Pump Station Rehabilitation Project update. (verbal)
 - B. Scott's Valley Pipeline Rehabilitation Project update. (verbal)
- 6. Director's Comments**
- 7. General Manager's Comments**
- 8. Adjournment**

MEMORANDUM

DATE: November 25, 2015
TO: Engineering Committee
FROM: Paul J. Bushee, General Manager 
SUBJECT: **Gafner Advanced Water Treatment Facility Condition Assessment**

RECOMMENDATION:

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

1. Authorize the General Manager to execute Task Order No. 26 to the Engineering Design Services Agreement with Infrastructure Engineering Corporation (IEC) for the Gafner Advanced Water Treatment (AWT) Facility Condition Assessment in an amount not to exceed \$59,290.
2. Discuss and take other action as appropriate.

DISCUSSION:**Tactical Goal: Infrastructure and Technology / Gafner Condition Assessment**

The Asset Management Plan (AMP) recommended that the District complete a condition assessment of the Gafner Advanced Water Treatment Facility (Gafner) to identify specific rehabilitation projects for the District's Capital Improvement Program (CIP). To implement this recommendation, staff requested a proposal from Infrastructure Engineering Corporation (IEC) to conduct the assessment.

IEC submitted a proposal, attached, to complete the assessment of Gafner. The Scope of Services includes:

Task 1 – Project Management and Administration

- Three meetings – kick off, initial recommendations and draft review
- Two presentations – Engineering Committee and Board of Directors

Task 2 – Preliminary Engineering Assessment.

- Preliminary engineering assessment will consist of:
 - ❖ Data collection and review
 - ❖ Site visit to perform assessment of existing conditions
 - Civil - IEC
 - Mechanical - IEC
 - Structural - Kelsey Structural
 - Electrical and Controls - Moraes Pham & Associates

Task 3 – Technical Memorandum

- Summarize recommendations and engineer's opinion of probable costs
- Two submittals – draft and final

The proposed cost for these design services is \$59,290. 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 FY 2016 Budget in anticipation of this assessment. The budget contains sufficient funds to cover the engineering services under this agreement.

rym:PJB

Attachment



November 24, 2015

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

RE: Proposal for Engineering Services for Gafner Advanced Water Treatment (AWT) Plant Condition Assessment

Dear Mr. Morishita:

Infrastructure Engineering Corporation (IEC) is pleased to provide the Leucadia Wastewater District with this proposal for Engineering Services for the **Gafner AWT Plant Condition Assessment**. The proposed scope of services and fee is based on the District's request and review of the 2013 Asset Management Master Plan Implementation Plan and a site visit performed November 18, 2015.

The Gafner AWT treats secondary effluent from the Encina Wastewater Treatment Plant in Carlsbad. The AWT process train consists of coagulation/flocculation/clarification, sand filtration and chlorination in keeping with Title 22 recycled water requirements. The recycled water is used by the Omni La Costa Spa and Resort for irrigation.

The Gafner AWT Condition Assessment will consist of review of operator input (to be provided to IEC in Word format) and site visits by civil, mechanical, structural, and electrical and controls engineers in order to assess the condition of the plant. Site visits will be limited to visual inspections. The findings of these site visits will be summarized in a multidisciplinary technical memorandum with a planning level engineer's opinion of probable construction cost and recommended time frame within which to pursue the work.

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

We anticipate three meetings will be required: at the project kickoff, upon development of the initial project recommendations following the engineering evaluation and a review meeting for the draft engineering report. We have also included time to attend the Engineering Committee Meeting and the Board Meeting to support the District staff in presenting the results of the assessments to the Board of Directors. Additional coordination can be addressed via telephone conferences or emails. IEC will provide the District with an updated project schedule at each schedule milestone and in the case of any significant change in project duration.



Mr. Robin Morishita
Leucadia Wastewater District
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Task 2 – Engineering Assessment

Civil/mechanical staff from IEC, structural staff from Kelsey Structural, and electrical and controls staff from Moraes Pham & Associates will visit the AWT plant in order to perform assessments of existing conditions and recommended rehabilitation. Preliminary results will be compiled and presented to District staff in tabular format for discussion (meeting to discuss included in Task 1) prior to starting the AWT Assessment Report.

Task 3 – AWT Assessment Report

Recommendations will be summarized in a AWT Assessment Report along with a planning level engineer's opinion of probable construction cost and recommended time frame within which to pursue the work. IEC anticipates two submittals of the report, one each at the draft and final levels.

SCHEDULE

Upon notice to proceed, a site visit will be performed within three weeks. A draft report will be prepared within three weeks following the site visits. We anticipate two weeks for District review. Following District review a final report will be prepared and submitted to the District within two weeks. Total project duration is expected to be ten weeks.

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.
Principal

cc: Jane Costello, P.E., IEC
Jamie Fagnant, P.E., IEC

FEE ESTIMATE



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Task/ Subtask	Task/Subtask Description	Sr Project Manager (R Weber)	Project Manager (J Costello)	Project Engineer (J Fagnant)	Engineer I/ CADD I Designer (A Salvani)	Sr. Designer (B Czarnocki)	Word Processor (A Moore)	Subtask Labor-Hours	Subtask Labor Cost	Direct Cost	Subcontract	Total Cost
		\$190.00	\$180.00	\$130.00	\$105.00	\$130.00	\$65.00					
1	Project Management and Administration											\$5,800
	Kick-off Meeting	2	2	2				6	\$1,000	\$50	\$0	\$1,050
	Meeting with Staff to Prioritize the Project List		3	3				6	\$930	\$0	\$0	\$930
	Meeting with Staff to Discuss Draft Report		2	2				4	\$620	\$0	\$0	\$620
	Scheduling and Coordination		2	4			4	10	\$1,140	\$100	\$0	\$1,240
	EC and Board Meeting		6	6				12	\$1,860	\$100	\$0	\$1,960
2	Engineering Evaluation											\$29,510
	Data Collection and Review		16		24			40	\$5,400	\$50	\$0	\$5,450
	Site Visit		4		4			8	\$1,140	\$0	\$0	\$1,140
	Civil Site Evaluation		4		16			20	\$2,400	\$0	\$0	\$2,400
	Mechanical Evaluation		36		8			44	\$7,320	\$0	\$0	\$7,320
	Structural Evaluation							0	\$0	\$0	\$5,500	\$5,500
	Electrical/I & C/SCADA Evaluation							0	\$0	\$0	\$7,700	\$7,700
2	AWT Assessment Report											\$23,980
	Develop Initial Project Priority List and Planning Level Costs		24	4	40		4	72	\$9,300	\$0	\$0	\$9,300
	Develop Draft AWT Assessment Report	1	20	1	40	24		86	\$11,240	\$0	\$0	\$11,240
	Prepare Final AWT Assessment Report	1	8	1	16			26	\$3,440	\$0	\$0	\$3,440
		4	127	23	148	24	8	334				
		\$760	\$22,860	\$2,990	\$15,540	\$3,120	\$520		\$45,790	\$300	\$13,200	\$59,290

TOTAL NOT-TO-EXCEED FEE: \$59,290