

**AGENDA**

**ENGINEERING COMMITTEE MEETING  
LEUCADIA WASTEWATER DISTRICT  
Wednesday, August 6, 2014 – 12:00 p.m.  
1960 La Costa Avenue, Carlsbad, CA 92009**

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- 1. Call to Order**
- 2. Roll Call**
- 3. Public Comment**
- 4. New Business**
  - A. Authorize the General Manager to execute an Agreement with Burtech Pipeline Incorporated for construction services to complete the Recycled Water Pipeline Repair Project in an amount not to exceed \$194,950. (Pages 2 - 6)
  - B. Adopt the 2014 update of the Leucadia Wastewater District Sanitary Sewer Management Plan (SSMP). (Pages 7 - 9)
- 5. Information Items**
  - A. Leucadia Generator Replacement Project Status. (verbal)
  - B. B1/B2 Force Mains Replacement Project Status. (verbal)
  - C. Carlsbad Spill Summary. (verbal)
- 6. Director's Comments**
- 7. General Manager's Comments**
- 8. Adjournment**

MEMORANDUM

Ref: 15-4169

DATE: July 31, 2014  
 TO: Engineering Committee  
 FROM: Paul J. Bushee, General Manager   
 SUBJECT: Award of the District's Recycled Water Pipeline Repair 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 Burtech Pipeline Incorporated for construction services to complete the Recycled Water Pipeline Repair Project in an amount not to exceed \$194,950.
2. Discuss and take other action as appropriate.

**DISCUSSION:**

The Recycled Water Pipeline Repair project is included as a goal in the Fiscal Year 2015 Tactics and Action Plan.

In September 2013 the Board of Directors authorized the execution of an agreement with Infrastructure Engineering Corporation (IEC) to design the Recycled Water Valve and Creek Crossing Repair Project. The project consisted of three components as follows:

1. Install an isolation valve in the recycled water supply line between San Marcos Creek and the La Costa pond.
2. Repair or replace a leaking valve in the recycled water supply line, on the District's campus, to the La Costa Resort.
3. Replace the exposed section of the recycled water line in San Marcos Creek, pictured here, to prevent possible damage from debris in the creek striking the exposed line.



The isolation valve was installed in December 2013 prior to the start of the rainy season. The valve allows staff to isolate the pond prior to a significant rain event that could result in damage to the recycled water line from debris in the creek. This will prevent the draining of the pond into the creek in the event of a break.

The design for the remainder of the project, replacing the leaking valve and exposed section of pipeline, was completed by IEC in June and, subsequently, advertised for bids. Bids were due on July 17, 2014. Three bids were received with the following results:

<u>Construction Firm</u>	<u>Bid Submitted</u>
Burtech Pipeline Inc.	\$194,950
Blue Pacific Engineering	\$258,900
Cal Western General Contracting	\$374,095

The bids were reviewed by Robert Weber, Jamie Fagnant and Ross Maxwell at IEC. Upon completion of IEC's review, it was recommended that Burtech Pipeline Inc. (Burtech) be awarded the contract as the lowest responsive and responsible bidder, see attached letter.

The bid price of \$194,950 is approximately \$15,865 or 7.5% less than the \$210,815 estimated construction cost. Therefore, Staff recommends that the Board of Directors award the contract to Burtech as the lowest responsive and responsible bidder.

**FISCAL IMPACT:**

There are sufficient funds appropriated in the Fiscal Year 2015 Budget to cover the construction costs for the project.

rym:PJB

Attachment



**BID REVIEW MEMORANDUM**

Date: July 29, 2014

**Subject: Recycled Water Pipeline Repair Project**

Prepared By: Jamie Fagnant, P.E.; Andrew Wiese, EIT

Reviewed By: Dave Padilla, 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**

Bids were opened on July 17, 2014 and three bids were received. The bids are summarized on Table 1 - Bid Summary (see attached) and characteristics of the bids are as follows:

Low Bid:	\$194,950
Average Bid:	\$275,982
High Bid:	\$374,095
Engineer's Estimate:	\$210,815

**REVIEW OF LOW BIDDER**

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

**Contractor's License:** The Contractor holds the required Class A License (No. 718202). 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 North American Specialty Insurance Company as surety. This surety company has a rating of A+15 with Best's Key Rating Guide.

**Signatures:** The Contractor's President and CEO, Dominic J. Burtech and Executive Vice-President and Secretary, Julie J. Burtech signed the Closing Statement. Dominic Burtech signed the Bidder's Bond, Non Collusion Affidavit, and the Local Preference Certification.

**Addenda Acknowledged:** Addendum No 1 was not acknowledged with the submitted bid documents. Upon notification of this, Burtech promptly faxed acknowledgement of the Addendum to the District. IEC recommends the District waive this anomaly and accept the faxed Addendum acknowledgement.

**Project Manager's Experience:** The Contractor has identified Scott Seitrich as the project manager in a follow up phone call from IEC on 7/29/2014.

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





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

- Staging: Burtech proposes to use the east end of the work area for staging and fabrication. Fusible pipe will be strung on the west end and they expect only foot traffic for the most part in that area.

**Worker's Compensation Insurance:** Policy is in effect through September 2014. The most recent workers' compensation experience modification factor for Burtech is 1.12.

**Experience Requirements:** The bid documents require the Contractor to submit three project references on projects with a horizontal directional drill (HDD) of at least 300 linear feet of 12 inch or greater diameter pipe. Burtech submitted the required experience with the exception that one of the projects was 150 linear feet. IEC requested additional project experience information and received an additional HDD project reference consisting of 407 linear feet of 30" HDPE. These projects fulfill the experience requirements in the bid documents.

Additionally, although it wasn't stated as a requirement in the bid documents, IEC requested verification from Burtech that the HDD subcontractor proposed was significantly involved in a majority of their experience requirement projects. Longs Directional Boring was the HDD subcontractor for three of the four submitted experience requirement projects.

**References:** IEC contacted Burtech's listed references to perform an assessment of the Contractor's prior work. In all cases, Burtech was recommended as a good Contractor with no record of claims. The clients would consider awarding another Contract to Burtech. In one reference check, the client indicated that there had been an issue with a foreman on the job. IEC contacted Burtech regarding this reference and Burtech confirmed that the foreman in question is no longer employed by the company.

**Bid Item Review:** Bid item amounts generally correlate with the Engineer's Estimate and the total bid is within 7.5% of the Engineer's Estimate.

#### **RECOMMENDATION**

IEC recommends award of the contract to Burtech Pipeline Inc. based on their knowledge and experience record and responsiveness to the bidding requirements.

#### Attachments

Table 1 – Bid Summary

**Table 1 - Bid Summary**  
 Leucadia Wastewater District  
 Recycled Water Pipeline Repair

Item	Description	Unit	Qty.	Engineer's Estimate	Burtech	Blue Pacific	Cal Western
1	Mobilization, Bonds, Permits, Cleanup and Demobilization	LS	1	\$9,000	\$16,450	\$10,000	\$40,000
2	Sheeting, Shoring and Bracing	LS	1	\$2,000	\$2,500	\$5,000	\$10,000
3	Storm Water Pollution Prevention Plan	LS	1	\$2,000	\$3,200	\$3,000	\$5,000
4	Horizontal Directional Drilling	LS	1	\$105,000	\$120,000	\$159,000	\$240,000
5	Connections to Existing Pipeline	EA	2	\$32,000	\$14,000	\$24,000	\$20,000
6	12" Isolation Valve at Gafner Treatment Plant Site	LS	1	\$25,000	\$10,000	\$10,000	\$20,000
7	New Blowoff Connection at Gafner Treatment Plant Site	LS	1	\$1,000	\$8,000	\$15,000	\$12,000
8	Air Valve	LS	1	\$5,500	\$7,500	\$10,000	\$10,000
9	Dewatering	LS	1	\$8,000	\$9,000	\$10,000	\$10,000
10	Turf Restoration	SF	4,300	\$2,150	\$4,300	\$12,900	\$7,095

Engineer's Estimate (with 10% contingency)
\$210,815

Total:	\$191,650	\$194,950	\$258,900	\$374,095
Check Total:		\$194,950	\$258,900	\$374,095
Amount in Words:		\$194,950	\$258,900	\$374,095

MEMORANDUM

Ref: 15-4170

DATE: July 31, 2014  
TO: Engineering Committee  
FROM: Paul J. Bushee, General Manager   
SUBJECT: 2014 Update of the District's Sewer System Management Plan (SSMP)

**RECOMMENDATION:**

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

1. Adopt the 2014 update of the District's Sewer System Management Plan (SSMP) completed by Dexter Wilson Engineering, Incorporated.
2. Discuss and take other action as appropriate.

**DISCUSSION:**

The Statewide General Waste Discharge Requirements (Statewide WDR) for Sanitary Sewer Systems, 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). To comply with this requirement the District adopted its SSMP in June 2009. Additionally, the Statewide WDR requires an update of the SSMP every five years or when there are significant changes to the SSMP. Re-certification by the governing board is required when significant changes, such as an update of the SSMP, are made. The District has complied with all prescribed Statewide WDR provisions. The District's current SSMP was adopted by the District's Board in June 2009. Therefore, an update of the SSMP is necessary to comply with the five year update requirement and to incorporate modifications required by the update of the Monitoring and Reporting Program (MRP) of the Statewide WDR that became effective September 9, 2013.

The major significant change to the District's SSMP is in Section VI, Overflow Emergency Response Plan (OERP). The update of the MRP modified the Sanitary Sewer Overflow (SSO) or spill categories from two to three and added water quality monitoring requirements for SSOs in which 50,000 gallons or greater are spilled to surface waters. These changes are incorporated into Section VI of the SSMP and the Standard Operating Procedures (SOP) used for OERP and Reporting SSOs.

Dexter Wilson Engineering (DWE) worked closely with staff to develop the original SSMP in 2009. Additionally, DWE has completed the Fiscal Years 2010, 2011, 2012 and 2013 SSMP annual audits. Due to their thorough knowledge of the plan, staff requested that DWE conduct the 2014 update of the SSMP. The executive summary is attached and a copy of the updated SSMP is enclosed for your review.

Natalie Fraschetti, of DWE, will present an overview of the SSMP at the meeting.

jms:PJB

Attachment

## **Executive Summary**

The purpose of this Sewer System Management Plan is to document and publicly present in a central document the programs and activities utilized by the Leucadia Wastewater District (the District or LWD) in effectively managing its wastewater collection system.

### **Regulatory Background**

On May 2, 2006, in an effort to reduce the occurrences of sanitary sewer overflows (SSOs) within California, a Statewide General Waste Discharge Requirement (Statewide WDR) was adopted that imposed several new requirements on all agencies that operate sewage collection systems. To date, the District has complied with all provisions prescribed in the Statewide WDR, including enrollment in electronic spill reporting, the establishment of its legal authority to enforce sewer ordinances, certification of complete SSMP implementation on June 8, 2009 by the General Manager, and subsequent audits of the 2009 SSMP.

On July 30, 2013, revisions to the Monitoring and Reporting Program for the Statewide WDR were adopted. The adoption included revisions of spill category definitions; revisions to notification, reporting, and record keeping requirements; and enhancement of water quality monitoring requirements

This 2014 SSMP is the 5-year update to the 2009 SSMP (as required by the Statewide WDR), will be re-certified by the General Manager and reported to the State Board.

### **SSMP Development**

Dexter Wilson Engineering, Inc., a consulting engineering firm, was tasked to assist the District in completing its Sewer System Management Plan (SSMP). Prior to drafting this SSMP, every aspect of the District's activities and programs to prevent sanitary sewer overflows and to assure the proper system operation and maintenance were carefully reviewed and validated by the District. This included checks of: staff training, programs, operating procedures, historic data, and planning documents like the LWD Standard Specifications, the Asset Management Plan, and the Financial Plan Update. This review determined that the programs, procedures, plans, and management practices required for the Statewide WDR have been in place at the District for many years and are the basis for its outstanding record of environmental protection and regulatory compliance.

As an over-arching document, the SSMP strives to integrate programs and activities from the staff level to the Board level to insure that all components of District are connected and effective in preventing Sanitary Sewer Overflows. Dexter Wilson Engineering, Inc. completed annual audits of the District's 2009 SSMP and guided the District in the development of this 2014 version. The annual audit exceeds the WDR requirement of bi-annual audits and reflects the District's commitment to a proactive approach toward preventing SSOs.



### SSMP Future Activities

The performance evaluations and audits of the 2009 SSMP are incorporated into this document by reference. Similarly, performance evaluations and audits of this 2014 SSMP shall be included in the future 2019 revision.

### Definitions

ASM	Administrative Services Manager
CIP	Capital Improvement Project
CWMS	Computerized Work Management System
DE	District Engineer
EDU	Equivalent Dwelling Units
EWA	Encina Wastewater Authority
FOG	Fats, Oil, and Grease
FSS	Field Services Superintendent
gpd	gallons per day
GM	General Manager
LRO	Legal Responsible Officer
LWD	Leucadia Wastewater District
MGD	million gallons per day
PM	Project Manager
SMA	Special Maintenance Area
SSMP	Sewer System Management Plan
SSO	Sanitary Sewer Overflow
TSM	Technical Services Manager
WDR	Waste Discharge Requirement