



Date: October 4, 2011

To: Thomas J. Bonfield, City Manager
Through: Theodore L. Voorhees, Deputy City Manager
From: Donald F. Greeley, Director, Water Management
Jerry F. Morrone, Utility Engineering Supervisor
Subject: Construction Contract for the North Durham Pretreatment Facility Improvements

Executive Summary

The Department of Water Management received bids on Friday, September 9, 2011 for the North Durham Water Reclamation Facilities Pretreatment Facility Improvements. The proposed project consists of replacing influent bar screen, grit washer, screenings handling system and primary clarifier scum pipes. These improvements are upgrades to existing equipment and replacement of aging equipment. A total of 6 bids were received, with Dellinger Construction Company, Inc. being the lowest responsive and responsible bidder.

Recommendation

The Department recommends that the City Council:

1. Authorize the City Manager to execute a contract with Dellinger, Inc. for the North Durham Water Reclamation Facility Preliminary Treatment Facility Improvements for \$1,494,752.00;
2. Establish a contingency fund for the contract in the amount of \$149,000.00; and
3. Authorize the City Manager or his designee to execute change orders for the contract provided that the cost of all change orders does not exceed \$149,000.00 and the total project cost does not exceed \$1,643,752.00.

Background

The North Durham Water Reclamation Facility (NDWRF) has many facilities that have reached the end of their useful life. In the intervening period since original construction, preliminary treatment technologies and best practices have changed in a number of ways. The existing screenings equipment and scum pipes on the south side of the North Durham WRF has reached the end of its useful life and it is no longer cost effective to maintain the existing equipment and work around some of the weaker points in the original units. The Department completed a Wastewater Reclamation Facilities Optimization Study in 2008 in order to identify the necessary improvements needed to maintain the plants for the foreseeable future. As part of the Master planning construction contract, the Department's engineer has determined that the city should replace the existing screens with a unit having tighter grating to better remove solids and improved compaction and washing technology to reduce volume and odors of the resulting solids. Other modifications to the system will allow improved grease removal, reduced cleaning and overall increased efficiency of the screening equipment, primary grit chambers and primary clarifiers.

Issues and Analysis

The Department received bids on Friday, September 9th. The bid results are:

Contractor	Base Bid	Bid Alternate	Final Bid Amount
Dellinger Inc.	\$ 1,617,106.00	\$ (122,354.00)	\$ 1,494,752.00
Haren Construction Company Inc.	\$ 1,723,000.00	\$ (40,000.00)	\$ 1,683,000.00
English Construction Company	\$ 1,714,000.00	\$ (100,000.00)	\$ 1,614,000.00
Devere Construction Company	\$ 1,897,790.00	\$ (124,000.00)	\$ 1,773,790.00
HG Reynolds	\$ 2,185,500.00	\$ (123,000.00)	\$ 2,062,500.00
TA Loving Company	\$ 2,000,000.00	\$ (120,000.00)	\$ 1,880,000.00

The Department recommends the City Council award the contract to Dellinger, Inc., the lowest responsible and responsive bidder. One bid alternates item was considered as part of the bid evaluation. The City chose the alternate manufacturer for primary screenings and compaction system after site inspections and a review of both systems.

Alternatives

Alternative 1: Do not enter in to a contract with Dellinger, Inc. and do not perform the work. The City could wait 5 to 10 years until a larger pretreatment facility is needed at North Durham WRF. This is not recommended because the City would endanger its ability to reliably treat its receiving stream. The units selected are meant to be portable and in the event that the City retires this section of its pretreatment facility, we will be able to move the units to an expanded pretreatment facility elsewhere on the site.

Financial Impact

Funding for this contract was budgeted for the Wastewater Facilities Rehabilitation Account. There are currently funds available in these accounts:

Wastewater Facilities Rehabilitation	\$ 1,494,752.00	4100P767-731000-P251G
Wastewater Facilities Rehabilitation (contingency)	\$ 149,000.00	4100P767-731900-P251G
Total	\$ 1,643,752.00	

SDBE Summary

The Equal Opportunity/Equity Assurance Department reviewed the bid submitted by Dellinger, Inc., Monroe, North Carolina to determine compliance with the Ordinance to Promote Equal Business Opportunities in City Contracting. The goals for this project are MSDBE 4% and WSDBE 1%. It was determined that Dellinger, Inc. was in compliance with the Ordinance to Promote Equal Business Opportunities in City Contracting.

SDBE REQUIREMENTS

Dellinger, Inc. did not meet the MSDBE goal or WSDBE goal for this project but demonstrated a good faith effort in trying to do so.

WORKFORCE STATISTICS

The workforce statistics for Dellinger, Inc. are as follows:

Total Workforce	81	
Total Females	4	5%
Total Males	77	95%
Black Males	13	16%
White Males	43	53%
Other Males	21	26%
Black Females	0	0%
White Females	4	6%
Other Females	0	0%

Attachments

Engineer's Award Recommendation Letter
EO EA compliance Report