



AGENDA MEMORANDUM

Future Item for the City Council Meeting of May 17, 2016
Action Item for the City Council Meeting of May 24, 2016

DATE: April 29, 2016

TO: Ronald L. Olson, City Manager

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<p style="text-align: center;"><u>Engineering Design Contract</u> O.N. Stevens Water Treatment Plant Intermediate Sludge Removal Phase I</p>

CAPTION:

Motion authorizing the City Manager or designee to execute an Engineering Design contract with LNV, Inc. of Corpus Christi, Texas in the amount of \$95,467 for the O.N. Stevens Water Treatment Plant Intermediate Sludge Removal Phase I for design, bid and construction phase services.

PURPOSE:

The purpose of this agenda item is to obtain authority to execute an engineering design contract needed for the O.N. Stevens Water Treatment Plant Intermediate Sludge Removal Phase I.

BACKGROUND AND FINDINGS:

Sludge accumulation at the ONSWTP has been an on ongoing concern. The last dredging project was completed in 2000. Since then, various studies have been conducted to formulate a long-range sludge management strategy. This project will address immediate sludge removal needs while staff develops a more permanent sludge handling solution.

Alum sludge is a by-product of the water treatment process. The sludge is then

processed/stored in the lagoons to settle. Currently Lagoons 5 & 6 are the primary designated location to process sludge. Lagoon 7 was planned for additional capacity however Lagoon 7 is reaching critical sludge accumulation levels & is essential to plant operations.

This proposed project will provide an intermediate solution for sludge management for ONSWTP. The ongoing evaluation and design determined that the sludge storage levels in Lagoon 7 could impact plant operations if not addressed. The focus of the proposed project is to ensure sludge accumulation does not affect the operations at ONSWTP while a more permanent solution is formulated.

Once this project is underway the following steps will be taken towards implementation of the more permanent solution:

- Enter into a design contract for Lagoon 8, a new solids handling lagoon, to be built adjacent to the existing pollywog ponds on the Northside of Highway 37.
- Dredge Lagoon 7, the North and South Lagoons, and the Pre-Sedimentation, and place dredge material in Lagoon 8.
- Install dredging equipment that will provide for continuous dredging of the North and South lagoon.
- Implement a dredging maintenance schedule to dredge the basins as needed to prevent overfilling.

ALTERNATIVES:

1. Authorize the execution of the engineering design contract.
2. Do not authorize the execution of the engineering design contract. (Not Recommended)

OTHER CONSIDERATIONS:

None

CONFORMITY TO CITY POLICY:

Conforms to City Fiscal Policy

EMERGENCY / NON-EMERGENCY:

Non-Emergency

DEPARTMENTAL CLEARANCES:

Utilities Department

FINANCIAL IMPACT:☐ Operating☐ Revenue☒ Capital☐ Not applicable

Fiscal Year 2015-2016	Project to Date Expenditures	Current Year	Future Years	TOTALS
Line Item Budget		\$112,000.00	\$1,388,000.00	\$1,500,000.00
Encumbered / Expended Amount				
This Item		\$95,467.00		\$95,467.00
Future Anticipated Expenditures This Project		\$16,533.00	\$1,382,904.00	\$1,399,437.00
BALANCE		\$0.00	\$5,096.00	\$5,096.00

Fund(s): Water CIP No. 8

Comments: This project requires approximately 458 calendar days with anticipated completion in August 2017. The contract will result in the expenditure of an amount not to exceed \$95,467.

RECOMMENDATION:

City Staff recommends approval of the Engineering Design contract with LNV, Inc. of Corpus Christi, Texas in the amount of \$95,467 for the O.N. Stevens Water Treatment Plant Intermediate Sludge Removal Phase I for design, bid and construction phase services.

LIST OF SUPPORTING DOCUMENTS:

Project Budget
Location Map
Contract
Presentation
Form 1295