



TO: Board of Contracts and Awards
FROM: Michael P. Slevin III, P.E., Director, Environmental Services *MS*
Geoffrey M. Smyth, P.E., Division Manager, Science & Engineering
COPY: City Council, City Manager, City Clerk, SBE Coordinator, LEAP Coordinator,
Joe Parris, Finance/Purchasing, and Ho-Ping Wei, P.E., Project Manager
SUBJECT: Solids Dewatering Facility Upgrade Project, Request for Bids Specification
No. PW13-0074F – March 18, 2014
DATE: February 27, 2014

SUMMARY:

The Environmental Services Department recommends a contract be awarded to low bidder Rognlin’s, Inc., Aberdeen, WA, in the amount of \$2,744,610, plus a 20 percent contingency, for a cumulative total of \$3,293,532, plus applicable sales tax, budgeted from the ES Wastewater Fund 4300, to upgrade the Solids Dewatering Facility at the Central Wastewater Treatment Plant (CTP).

STRATEGIC POLICY PRIORITY:

- Foster neighborhood, community, and economic development vitality and sustainability.

This project improves one of the primary wastewater treatment processes at the CTP which enables the wastewater utility to manufacture the sustainable TAGRO products using the biosolids byproduct from the treatment of Tacoma’s wastewater.

BACKGROUND:

ISSUE: Biosolids produced at the CTP are currently dewatered using four belt filter presses prior to blending the biosolids with other materials, such as sawdust and sand, to produce a number of sustainable products known as TAGRO. Dewatering removes excess moisture from the biosolids slurry, producing a dry, compost-like end-product suitable to produce TAGRO.

The existing dewatering system is at the end of its useful life and must be replaced. The existing system is unreliable, has high operation and maintenance costs, and does not provide an operating environment that is conducive to operator health and safety. Failure to complete this project could lead to future disruption of treatment plant operation and violations of the City’s Wastewater National Pollution Discharge Elimination System (NPDES) Permit. Such failures or violations could result in negative impacts to both public health and safety.

This project will replace the four existing belt filter presses with three screw presses which were pre-purchased for this project through a previous solicitation. The project also upgrades the associated mechanical, electrical, instrumentation, and ventilation systems for the Solids Dewatering Facility.

ALTERNATIVES: Alternative types of solids dewatering systems were carefully evaluated, including: rotary presses, centrifuges, screw presses, and replacing the existing belt filter presses with updated belt filter presses. The screw press system was selected to replace the existing belt filter press system based on a combination of factors including: overall lifecycle cost, staffing requirements, maintenance requirements, and impacts on worker environment. Continuation of current operations with the existing belt filter presses was included in this evaluation and determined to be the least favorable alternative in terms of lifecycle cost.



COMPETITIVE SOLICITATION: Request for Bids Specification No. PW13-0074F was opened February 4, 2014. The City notified three contractors of the upcoming project and the project was advertised in the Tacoma Daily Index and the Seattle Daily Journal of Commerce, in addition to being listed on the City’s Purchasing website. Four submittals were received, as summarized in the table below.

<u>Respondent</u>	<u>Location (city and state)</u>	<u>Submittal Amount</u>
Rognlin’s, Inc.	Aberdeen, WA	\$2,744,610.00
Pease & Sons, Inc.	Tacoma, WA	\$3,076,017.00
Harbor Pacific Contractors, Inc.	Woodinville, WA	\$3,087,000.00
Prospect Construction, Inc.	Puyallup, WA	\$3,113,254.13

Pre-bid Estimate: \$2,842,537.00

The recommended award is approximately 3.5 percent below the pre-bid estimate.

CONTRACT HISTORY: New contract.

SUSTAINABILITY: This project will: reduce power and water consumption, help to significantly improve the working environment for City staff operating and maintaining the current equipment, reduce the consumption of materials necessary for ongoing repairs, and reduce the staff time necessary for maintenance of the existing equipment.

SBE/LEAP COMPLIANCE: The recommended contractor is in compliance with the Small Business Enterprise (SBE) Regulation general requirements per memorandum dated February 6, 2014. This project does not have a specific SBE goal, due to the specialized nature of the work. The Local Employment and Apprenticeship Training Program (LEAP) goal is 1,400 hours.

RECOMMENDATION:

The Environmental Services Department recommends a contract be awarded to Rognlin’s, Inc. for the Solids Dewatering Facility Upgrade project.



FISCAL IMPACT:

EXPENDITURES:

FUND NUMBER & FUND NAME *	COST OBJECT (CC/WBS/ORDER)	COST ELEMENT	TOTAL AMOUNT
ES Wastewater Fund 4300	ENV-04103-11-06-01	5310100	\$3,293,532
TOTAL			\$3,293,532

REVENUES:

FUNDING SOURCE	COST OBJECT (CC/WBS/ORDER)	COST ELEMENT	TOTAL AMOUNT
ES Wastewater Fund 4300	ENV-04103-11-06-01	4300020	\$3,293,532
TOTAL			\$3,293,532

FISCAL IMPACT TO CURRENT BIENNIAL BUDGET: \$2,964,178.80

ARE THE EXPENDITURES AND REVENUES PLANNED AND BUDGETED? Yes