



City of Norman, OK

Municipal Building
Council Chambers
201 West Gray
Norman, OK 73069

Master

File Number: K-1920-115 Amd 1

File ID: K-1920-115 Amd 1 **Type:** Contract **Status:** Consent Item

Version: 1 **Reference:** Item 23 **In Control:** City Council

Department: Utilities Department **Cost:** \$2,890,910.00 **File Created:** 06/09/2020

File Name: Re-Use Pilot Amend #1 t Garver **Final Action:**

Title: AMENDMENT NO. ONE TO CONTRACT K-1920-115: BY AND BETWEEN THE NORMAN UTILITIES AUTHORITY & GARVER, L.L.C., INCREASING THE CONTRACT BY \$2,890,910 FOR A REVISED CONTRACT AMOUNT OF \$3,424,160. FOR FINAL DESIGN, INSTALLATION AND OVERSIGHT OF A TEMPORARY RESEARCH PILOT FOR INLAND INDIRECT POTABLE REUSE LOCATED AT THE NORMAN WATER RECLAMATION FACILITY AND BUDGET APPROPRIATION.

Notes: ACTION NEEDED: Motion to approve or reject Amendment No. One to Contract K-1920-115 with Garver, L.L.C., increasing the contract amount by \$2,890,910 for a revised contract amount of \$3,424,416; and, if approved, authorize the execution thereof and appropriate \$1,675,000 from the Wastewater Fund Balance (32-29000) to Project WW0317, FYE 20 WRF Reuse Pilot Study, Design (32999911-46201).

ACTION TAKEN: _____

Agenda Date: 06/23/2020

Agenda Number: 23

Attachments: Amendment No. 1 to Contract K-1920-115, Garver.pdf

Project Manager: Chris Mattingly, Capital Projects Engineer

Entered by: chris.mattingly@normanok.gov

Effective Date:

History of Legislative File

Version:	Acting Body:	Date:	Action:	Sent To:	Due Date:	Return Date:	Result:

Text of Legislative File K-1920-115 Amd 1

Body

BACKGROUND: The Norman Utilities Authority (NUA) and Garver LLC (Garver) were recently selected as recipients for the Bureau of Reclamation (BOR) Water Reclamation and Reuse Research under the Title XVI Program for Fiscal Year 2019 Funding Opportunity

Announcement BOR-DO-19-F009. The BOR grant will provide \$700,109 towards the NUA pilot project and will reimburse a portion of the NUA funds expended.

On February 11, 2020, the NUA approved contract K-1920-115 with Garver to perform a pilot project evaluating various advanced treatment technologies that could lead to indirect potable reuse (IPR) at Lake Thunderbird. Garver's in-depth experience during design of our recent Water Reclamation Facility (WRF) expansion, upgrades and improvements made it an obvious decision for staff to collaborate with Garver to perform this pilot project at the WRF.

This temporary pilot project will investigate and compare 1) two biological nutrient removal (BNR) technologies; 2) three or four pilot-scale filter technologies to meet very low effluent nutrient levels; and 3) advanced oxidation processes (AOP) for removal of constituents of emerging concern (CEC's). The pilot study will extend over a 30-month timeframe to ensure the treatment technologies tested can accommodate seasonal weather conditions that could affect treatment efficiencies.

The pilot project will utilize two of the six aeration basins and two of the six secondary clarifiers to establish two parallel treatment trains. One batch treatment train will process up to 200,000 gallons per day (GPD) while the other steady state treatment train will process up to 1 million gallons per day (MGD). Effluent from the secondary clarifiers will be directed to pilot project equipment that will provide tertiary and advanced water treatment to meet IPR regulatory requirements for Oklahoma. This pilot project equipment will be rented from manufacturers to demonstrate reliable performance capabilities, and provide robust operations and maintenance data. WRF staff will assist Garver in operating and maintaining the equipment during the 30-month (two and one-half years) project duration.

DESCRIPTION: Garver's original contract was to design and provide management oversight of the project while the NUA was planning to rent, install, and operate the temporary pilot project equipment. After several meetings with Garver, vendors and NUA staff, it was determined it would be best to consolidate the procurement and management of all equipment and components, performing sampling and analysis, and completing other incidental pilot process items under Garver's contract. The costs to complete the pilot project have been finalized with the various suppliers and subcontractors resulting in a total project cost of \$3,424,160.

Proposed Amendment No. 1 to Contract K-1920-115 with Garver will increase the contract amount by \$2,890,910 from \$533,250 to \$3,424,160. The revised project schedule is detailed in Attachment A.1; the revised scope of work is detailed in Attachment B.1 and the revised compensation is detailed in Attachment C-1. The compensation for new tasks 5.1 through 5.4 are lump sum amounts meaning cost overruns or underruns are the responsibility of Garver, unless the defined scope of work is modified. Once the project is complete in accordance with BOR grant requirements, the BOR will reimburse the NUA for up to \$700,109 making the final expenditure of the pilot project approximately \$2,724,051.

The Fiscal Year Ending 2020 (FYE 20) design account for WRF Reuse Pilot Study (Project WW0317) has a current balance of \$1,276,150. An additional \$1,425,600 is budgeted for FYE 21 to become effective July 1, 2020. To expedite the project, staff requests funds in the amount of \$1,675,000 be appropriated from the Sewer Fund Balance (account 32-29000) into FYE 20

WRF Reuse Pilot Study, Design (account Org 32999911, Object 46201; project WW0317) and the FYE 21 budget be adjusted accordingly. The transfer of funds will leave unencumbered funds in the amount of \$60,240 for project incidentals that might arise.

RECOMMENDATION: Staff recommends approval of Amendment No. 1 to Contract K-1920-115 with Garver LLC of Norman, Oklahoma, totaling \$2,890,910 for a revised pilot project cost of \$3,424,160. Staff also recommends funds in the amount of \$1,675,000 be appropriated from the Water Reclamation Fund Balance to FYE 20 WRF Reuse Pilot Study, Design account.