



+Department Source: City Utilities - Solid Waste

To: City Council

From: City Manager & Staff

Council Meeting Date: January 21, 2020

Re: Authorizing an amendment to the agreement for professional engineering services with Weaver Consultants Group, LLC for the Columbia Sanitary Landfill Horizontal Expansion Permitting Project – Phase II and; amending the FY 2020 Annual Budget by appropriating funds.

## Executive Summary

Staff has prepared for Council consideration an ordinance authorizing the City Manager to execute an amendment to the agreement with Weaver Consultants Group, LLC for the Columbia Sanitary Landfill Horizontal Expansion Permitting Project – Phase II. The scope of this project must be expanded to satisfy regulatory oversight requirements. The understanding of site conditions has changed since the original scope was developed. This ordinance includes an appropriation in the amount of \$493,667 to cover the costs of the additional work due to the expanded scope of services.

## Discussion

An agreement for professional engineering services with Weaver Consultants Group, LLC for the Columbia Sanitary Landfill Horizontal Expansion Permitting Project – Phase II was authorized by Council on August 5, 2019 for a not to exceed amount of \$1,072,012.

The scope of services included field work for the detailed site investigation. This field work included 73 borings and test pits to collect groundwater samples and monitor ground water elevations for up to one year in accordance with Missouri state regulations. The work plan for the original scope was developed using historic geologic and hydrogeologic data for the existing City of Columbia landfill located directly north of the proposed expansion site. Based on the existing data, groundwater was expected to be encountered within the initial 20 feet of competent bedrock. Groundwater was not encountered at this elevation during the initial phase of the borings. Therefore, a progress meeting with the Missouri Department of Natural Resources Geologic Support Program (MDNR-GSP) was held on October 1, 2019. The MDNR-GSP is requiring that the depth of the borings be increased to allow for the required sampling and monitoring of the groundwater and to characterize the bedrock aquifer. This is required to ensure the landfill is designed and constructed with provisions to adequately protect groundwater in the surrounding area.

These regulatory requirements will result in an increase in the total linear foot of borings from approximately 5085 feet to approximately 7755 feet, a 53% increase. The borings are the largest expense in the project and the additional 2670 feet will increase the boring cost from \$916,953 to \$1,410,620.



# City of Columbia

701 East Broadway, Columbia, Missouri 65201

This ordinance includes an appropriation from Solid Waste Retained Earnings in the amount of \$493,677 for the cost of the additional boring footage. The total cost of all phases of the expansion permitting project is estimated to be \$2,100,000 based on this increase.

## Fiscal Impact

Short-Term Impact: The not-to-exceed amount for the original agreement is \$1,072,012. The amendment to the agreement results in an additional \$493,667 being allocated to the project

Long-Term Impact: The third and final phase of the expansion permitting work is currently estimated to be approximately \$325,000 with a total project cost estimated to be \$2,100,000.

## Strategic & Comprehensive Plan Impact

### Strategic Plan Impacts:

Primary Impact: Infrastructure, Secondary Impact: Not Applicable, Tertiary Impact: Not Applicable

### Comprehensive Plan Impacts:

Primary Impact: Environmental Management, Secondary Impact: Infrastructure, Tertiary Impact: Not Applicable

## Legislative History

Date	Action
08/05/2019	B200-19 Authorizing an agreement for professional engineering services with Weaver Consultants Group, LLD for the Columbia Sanitary Landfill Horizontal Expansion Permitting Project – Phase II.
10/15/2018	B243-18 Authorizing an agreement for professional engineering services with Weaver Consultants Group, LLC for the Columbia Sanitary Landfill lateral expansion permitting project.
04/16/2018	R61-18 Approving the City of Columbia Landfill Site Master Plan.

## Suggested Council Action

Approve the ordinance authoring the City Manager to execute the amendment to the agreement and appropriate the funds.