



## **AGENDA ITEM ANALYSIS**

Project/Issue Name: 22-R-72 A Resolution of the City Council Authorizing Execution of an Agreement with Burns & McDonnell Engineering Co., Inc. for Sanitary Smoke Testing Services Associated with the Wastewater Treatment Plant Project.

Submitted By: Karen Haynes, BUILDS Administrator

Date: November 08, 2022

### **Issue Statement**

A Resolution authorizing the City Administrator to enter into a contract with Burns & McDonnell for sanitary sewer smoke testing services associated with the Wastewater Treatment Plant Project

### **Discussion and/or Analysis**

In late September, City and BUILDS Administration met with the Burns & McDonnell Team for updates and discussion on the City's Wastewater Projects, which include addressing DNR (Department of Natural Resources) compliance, upgrades to the Wastewater Treatment Plant, and associated Capital Improvement Projects (CIP's) approved under the 2018 Master Services Agreement. The meeting resulted in an opportunity to further analyze the volume of stormwater infiltrating our existing sanitary sewer, through the use of smoke testing.

Smoke testing is a common method utilized to identify areas in which groundwater or illicit connections are either connected to or infiltrating into the sanitary sewer collection system, known as Inflow & Infiltration (I&I). This type of water, conveyed in the sanitary sewer system, is stormwater and not sewer and does not need to be treated through the Wastewater Treatment Plant (WWTP).

The identification of I&I into the sanitary sewer system, could potentially reduce overall capacity of the WWTP or free up capacity and reduce the costs for treatment of sewer. The data collected during smoke testing will be utilized for final design of the WWTP, CIP Projects, and as assist in preliminary planning for addressing areas of I&I into the sanitary sewer system.

Burns & McDonnell will be able to analyze the data collected to provide recommendations for immediate implementation into the preliminary and final designs on multiple wastewater projects, including addressing our commitment to address compliance with DNR as part of the Abatement Order on Consent (AOC).

Compensation for the project will be a not-to-exceed amount of \$90,000 which is all-inclusive cost associated with project, including smoke testing over an approximate three-week period, materials, and



data collection, with a proposed start date of November 09. The projects expenses are covered by the budgeted line item for I&I Reduction in the 2022 Approved Budget.

**Recommended Action**

Staff recommends approval.