



Legislation Text

File #: 22-0216, Version: 2

TO: Mayor Richard C. Irvin

FROM: John Hoffmann, P.E., Engineering Coordinator

DATE: March 21, 2022

SUBJECT:

A resolution authorizing the Director of Purchasing to execute a contract with Crawford, Murphy and Tilly, Aurora, IL, in the amount of \$105,600 for water main flushing.

PURPOSE:

To maintain water main quality throughout the water distribution system.

BACKGROUND:

Regular maintenance of the water distribution system is necessary to keep the system working well. One component of the maintenance program is water main flushing.

The velocity of the water flowing through most water mains is usually slow, therefore as time passes any solids in the water tend to settle at the bottom of the pipe. Though harmless, these solids can be stirred up when there is an increase in flow velocity from events such as main breaks or hydrant use.

Crawford Murphy and Tilly (CMT) was selected to update and maintain a computer model of the City's distribution system, which was updated as recently as last year. The model is utilized for various purposes including identification of the necessary valve closures to produce the flow rates required to remove sediment from the mains. Due to their knowledge of the computer model, CMT is uniquely qualified to provide this professional service as well as direction to city employees during the flushing operation.

This contract, which is attached as Exhibit 1 - CMT Contract, will provide for the services of one staff member from CMT to direct the program. The remaining 4-6 team members required each day will come from the Water and Sewer Maintenance and Engineering Divisions. It is estimated that during the three months that the flushing is ongoing, approximately 15% of the system will be flushed, those areas are shown on page 6 of the exhibit.

DISCUSSION:

The water main flushing (\$105,600) will be funded with account 510-4063-511-38-68 which has a 2022 budget amount of \$200,000.

IMPACT STATEMENT:

Generally, the impact is minimal, however users may notice a slight discoloration of water during and

for a short time after the flushing procedures. Motorists may be stopped intermittently while the crews are working, and some lane closures are to be anticipated. The City will use localized signs alerting residents to the fact that flushing is ongoing and will use the City's social media outlets to alert the general public. Any users that could be more adversely impacted are given specific notice to allow them time to modify any processes that may be affected due to the temporary change in the water.

RECOMMENDATIONS:

I request the proposed resolution be adopted.

cc: Infrastructure and Technology Committee



CITY OF AURORA, ILLINOIS

RESOLUTION NO. _____
DATE OF PASSAGE _____

A Resolution to authorize the Director of Purchasing to execute a contract with Crawford, Murphy & Tilly, Aurora, IL, in the amount of \$105,600 for water main flushing.

WHEREAS, the City of Aurora has a population of more than 25,000 persons and is, therefore, a home rule unit under subsection (a) of Section 6 of Article VII of the Illinois Constitution of 1970; and

WHEREAS, subject to said Section, a home rule unit may exercise any power and perform any function pertaining to its government and affairs for the protection of the public health, safety, morals, and welfare; and

WHEREAS, water main flushing is a regular maintenance activity required to maintain the quality of the City's water; and

WHEREAS, the City generally flushes 15% of the water distribution system annually; and

WHEREAS, Crawford, Murphy & Tilly are uniquely qualified to assist the City with these operations due to their knowledge of the system and having developed the City's water model; and

WHEREAS, Per City of Aurora Code of Ordinances, Article 5, Section 2-355 (c), City Council may award; and

WHEREAS, the water main flushing (\$105,600) will be funded with account 510-4063-511-38-68 which has a 2022 budget amount of \$200,000; and

NOW, THEREFORE, BE IT RESOLVED by the City Council of the City of Aurora, Illinois, as follows:

the Director of Purchasing is authorized to execute a contract with Crawford, Murphy & Tilly, Aurora, IL in the amount of \$105,600 for water main flushing.