



## Folsom City Council Staff Report

<b>MEETING DATE:</b>	10/13/2020
<b>AGENDA SECTION:</b>	Consent Calendar
<b>SUBJECT:</b>	Resolution No. 10533 – A Resolution Authorizing the City Manager to Execute an Agreement with Pure Technologies, U.S. Inc. dba Wachs Water Services to Complete the Water Distribution System Leak and Loss Detection Survey
<b>FROM:</b>	Environmental and Water Resources Department

### **RECOMMENDATION / CITY COUNCIL ACTION**

The Environmental and Water Resources Department recommends the City Council pass and adopt Resolution No. 10533 - A Resolution Authorizing the City Manager to Execute an Agreement with Pure Technologies, U.S. Inc. dba Wachs Water Services to Complete the Water Distribution System Leak and Loss Detection Survey.

### **BACKGROUND / ISSUE**

The Environmental and Water Resources (EWR) Department is requesting that Pure Technologies, U.S. Inc. dba Wachs Water Services (Pure Technologies) provide Leak and Loss Detection Surveys of the City's Water Distribution System, including the Ashland area and the development South of US-50. The City's water distribution system consists of approximately 400 miles of water pipes and is comprised of transmission mains, distribution mains, service lateral connections (approximately 22,000), blow-offs, fire hydrants, backflow preventors, valves, and other appurtenances. The City's water pipes range in size from 1-inch service lines to 30-inch transmission mains.

The previous comprehensive leak detection survey was performed on the City's water system in the Spring of 2015. The discovery and subsequent repairs of new leaks will reduce water loss, increase annual water cost savings, and prevent unnecessary strain on the water system.

The work will consist of performing two acoustic leak and loss detection surveys on the City's water distribution system (including the Ashland area and the South of US-50 area) in order to identify leak locations in need of repairs. The first leak and loss detection survey and associated report will be performed during this winter (December 1, 2020 through March 1, 2021). The second leak and loss detection survey and associated report will be performed during the next winter (December 1, 2021 through March 1, 2022).

The City issued a Request for Proposals to provide Leak and Loss Detection Surveys of the City's Water Distribution System. Because of their knowledge and experience with Leak and Loss Detection services, Pure Technologies has proven to be uniquely qualified in having the technical expertise to provide these services. City staff recommends authorizing the City Manager to execute an agreement with Pure Technologies for services for the Leak and Loss Detection of the City's Water Distribution System.

### **POLICY / RULE**

In accordance with Chapter 2.36 of the Folsom Municipal Code, supplies, equipment, services, and construction with a value of \$62,014 or greater shall be awarded by City Council.

### **ANALYSIS**

The two leak and loss detection surveys will include a Comprehensive Survey of the City's water system. All detected leaks (both city-side leaks and customer-side leaks) will be documented. The leak flow rates will also be estimated based on the visible appearance of the leak or the intensity of the noise produced by non-visible leaks. Whenever a leak is found, the field project team will document identifying factors about the leak such as address and location, pressure zone, leak type, estimated volume of leak (gallons per minute), cost of water (dollar per acre feet), priority rating, etc.

At the conclusion of each survey, Pure Technologies will deliver a final report to the City which details the findings of all the leak locations, loss rates, and any other pertinent information for the City to successfully make the necessary repairs to the water system. The City will be responsible for repairing the leaks that are discovered.

The leak and loss detection surveys will aid in locating smaller leaks before they become larger problems. Repairing smaller leaks before they become more problematic can save money on construction costs, help prevent long water main shutdowns, reduce water loss, and increase efficiency, all of which are crucial in keeping the City's water system operating smoothly.

The City issued a Request for Proposals for Leak and Loss Detection Surveys and received eight proposals from qualified firms. EWR staff ranked the proposals based on project understanding, consultant experience, the team assigned to this project, and their answers to a supplemental questionnaire. Because of their knowledge, understanding of the project, and experience with Leak and Loss Detection services, Pure Technologies has proven to be uniquely qualified in having the technical expertise to provide these services. After review of

the proposals, EWR staff proposes to utilize Pure Technologies for these services for a not-to-exceed amount of \$240,820.

**FINANCIAL IMPACT**

Sufficient funds have been budgeted in the Water Operating Fund (520) for this agreement in the FY 2020-21 budget. The second survey will be included in the Water Operating Fund (Fund 520) during the budget process for FY 2021-22.

**ENVIRONMENTAL REVIEW**

This project is exempt from environmental review under the California Environmental Quality Act, Section 15301 "Existing Facilities."

**ATTACHMENTS**

Resolution No. 10533 - A Resolution Authorizing the City Manager to Execute an Agreement with Pure Technologies, U.S. Inc. dba Wachs Water Services to Complete the Water Distribution System Leak and Loss Detection Survey.

Submitted,

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Marcus Yasutake, Director  
ENVIRONMENTAL AND WATER RESOURCES DEPARTMENT

**RESOLUTION NO. 10533**

**A RESOLUTION AUTHORIZING THE CITY MANAGER TO EXECUTE AN AGREEMENT WITH PURE TECHNOLOGIES, U.S. INC. DBA WACHS WATER SERVICES TO COMPLETE THE WATER DISTRIBUTION SYSTEM LEAK AND LOSS DETECTION SURVEY**

**WHEREAS**, the City is currently implementing its 2016 Water Master Plan which consists of condition assessment, as well as operation and system improvements; and

**WHEREAS**, the City has identified this project as a priority to maintain integrity and operation of the water distribution system; and

**WHEREAS**, Pure Technologies, U.S. Inc. dba Wachs Water Services by reason of their past experience and abilities for performing these types of services, is qualified to perform the required water distribution system leak and loss detection survey for the project; and

**WHEREAS**, the Water Distribution System Leak and Loss Detection Survey was included in the Water Operating Fund (520) for FY 2020-21; and

**WHEREAS**, the second survey of the Water Distribution System Leak and Loss Detection Survey will be included in the Water Operating Fund (Fund 520) during the FY 2021-22 budget process; and

**WHEREAS**, sufficient funds are budgeted and available in the FY 2020-21 Water Operating Fund (Fund 520); and

**WHEREAS**, the agreement will be in a form acceptable to the City Attorney;

**NOW, THEREFORE, BE IT RESOLVED** that the City Council of the City of Folsom authorizes the City Manager to execute an agreement with Pure Technologies, U.S. Inc. dba Wachs Water Services to complete the water distribution system leak and loss detection survey for a not-to-exceed amount of \$240,820.

**PASSED AND ADOPTED** this 13<sup>th</sup> day of October 2020, by the following roll-call vote:

**AYES:** Council Member(s):  
**NOES:** Council Member(s):  
**ABSENT:** Council Member(s):  
**ABSTAIN:** Council Member(s):

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Sarah Aquino, MAYOR

ATTEST:

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Christa Freemantle, CITY CLERK