

## Report to Civic Works Committee

**To:** Chair and Members  
Civic Works Committee  
**From:** Kelly Scherr, P.Eng., MBA, FEC  
Deputy City Manager, Environment and Infrastructure  
**Subject:** 2021 Large Diameter Watermain Inspection Phase 2  
**Date:** June 22, 2021

## Recommendation

That, on the recommendation of the Deputy City Manager, Environment and Infrastructure, the following actions **BE TAKEN** with respect to the Large Diameter Watermain Inspection Phase 2:

- (a) The contract value for Pure Technologies Ltd., 3<sup>rd</sup> Floor, 705-11 Avenue SW, Calgary, Alberta, T2R 0E3, in the amount of \$582,867.00, excluding HST, **BE APPROVED**, in accordance with section 14.4 (e) of the Corporation of the City of London's Procurement of Goods and Services Policy;
- (b) The financing for this project **BE APPROVED** as set out in the Sources of Financing Report attached hereto as Appendix "A";
- (c) The Civic Administration **BE AUTHORIZED** to undertake all the administrative acts that are necessary in connection with this project; and
- (d) The Mayor and City Clerk **BE AUTHORIZED** to execute any contract or other documents, if required, to give effect to these recommendations.

## Executive Summary

### Purpose

This report recommends that Pure Technologies be appointed as the consultant to undertake the large diameter watermain inspection of the Springbank bypass and the Clarke Road pipelines.

### Context

The City's annual trunk watermain inspection program involves inspection of approximately 10 km of trunk watermain every year. This will allow the City to inspect every trunk watermain in the City over a period of 20 years. The decision of which sections of pipeline are to be inspected each year is based on pipe age, pipe material, criticality, and anticipated construction projects for that section.

The Springbank bypass inspection will take place in advance of the Springbank Reservoir #2 construction project for staff to make informed decisions regarding the infrastructure replacement needs. The Clarke Road inspection will assess the condition of this critical pipeline to assist with long term asset management. The inspection locations are shown in the attached Appendix 'B' maps.

## Linkage to the Corporate Strategic Plan

This recommendation supports the following 2019-2023 Strategic Plan areas of focus:

- Leading in Public Service:
  - Trusted, open, and accountable in service of our community;
  - Exceptional and valued customer service; and
  - Leader in public service as an employer, a steward of public funds, and an innovator of service.

- Building a Sustainable City:
  - London's infrastructure is built, maintained, and operated to meet the long-term needs of our community

## Analysis

### 1.0 Background Information

#### 1.1 Previous Reports Related to this Matter

- Civic Works committee – January 19, 2021 – RFP20-60 Large Diameter Watermain Inspection;
- Civic Works Committee – February 5, 2019 – 2019 Large Diameter Watermain Inspection;
- Civic Works Committee – October 24, 2017 – Clean water and Wastewater Fund Large Diameter Watermain Inspection – Elgin Pipeline;
- Civic Works Committee – July 21, 2014 – Long-Term Large Diameter Pipe Inspection Strategy and Single Source Procurement;

### 2.0 Discussion and Considerations

#### 2.1 Work Description

This work includes two assignments as an extension of the inspection work completed by Pure Technologies in 2019. The first assignment includes the inspection of approximately 300 m of the Springbank bypass. The sensitive location and the low pressure of the pipeline requires specialized technology that is only available from Pure Technologies. This inspection is to determine the condition and need for replacement of this pipe in support of the Springbank #2 Reservoir reconstruction planned for 2023. The second assignment includes the inspection of approximately 3.5 km of watermain on Clarke Road which runs under the Thames River. Due to the length of the river crossing, only Pure's proprietary inspection equipment can undertake this inspection.

Pure Technologies' proprietary technology will provide the highest-level detailed condition assessment information while also requiring minimal disturbance to traffic and the sensitive features in proximity to the watermain like the Thames River and natural heritage features. This technology uses a device that can be inserted in the pipe to assess its condition over long distances while only creating the need to access the pipe at the insertion and extraction points. Some other inspection technologies require frequent access to the pipe throughout the length being assessed.

The City of London's trunk watermains are critical infrastructure in London's water supply system. The trunk watermains supply water to the smaller diameter pipelines which in turn supply water to individual customers. The City's trunk watermains are critical infrastructure that ensure adequate water supply and reliability for customers.

### 3.0 Financial Impact/Considerations

#### 3.1. Procurement Process

This assignment is a single source assignment which requires Council approval in accordance with section 14.4 (e) of the City of London's Procurement of Goods and Services Policy.

### **3.2. Project Costs**

Pure Technologies' proposal for inspections of both the Horton Street and Clarke Road watermains includes a fee submission of \$582,867.00 (excluding HST). The technical proposal and fee submission was evaluated in accordance with the City of London's Procurement of Goods and Services Policy, and it was found that the proposal met all the key project requirements and provided the best value to the City for inspection services.

## **Conclusion**

Pure Technologies is well qualified to undertake the required large diameter watermain inspections. Based on Pure Technologies' specific technology and experience, it is determined that retaining Pure Technologies for the Springbank bypass inspection and the Clarke Road inspection is in the best financial and technical interests of the City. It is recommended that Pure Technologies be awarded this assignment.

**Prepared by:** Aaron Rozentals, P.Eng,  
Division Manager, Water Engineering

**Submitted by:** Scott Mathers, MPA, P. Eng.,  
Director, Water, Wastewater, and Stormwater

**Recommended by:** Kelly Scherr, P. Eng., MBA, FEC  
Deputy City Manager, Environment and Infrastructure

**CC:** Christina Liu, Stephen Romano

Appendix 'A' – Sources of Financing

Appendix 'B' – Location Map

## Appendix "A"

#21089

June 22, 2021  
(Award Contract)

Chair and Members  
Civic Works Committee

RE: 2021 Large Diameter Watermain Inspection Phase 2  
(Subledger NT21EW01)  
Capital Project EW371720 - Watermain Condition Inspection and Monitoring  
Pure Technologies Ltd. - \$582,867.00 (excluding HST)

### Finance Supports Report on the Sources of Financing:

Finance Supports confirms that the cost of this project can be accommodated within the financing available for it in the Capital Budget and that, subject to the approval of the Deputy City Manager, Environment and Infrastructure, the detailed source of financing for this project is:

<b>Estimated Expenditures</b>	<b>Approved Budget</b>	<b>Committed To This Date</b>	<b>This Submission</b>	<b>Balance for Future Work</b>
Engineering	593,126	0	593,126	0
Construction	156,874	147,974	0	8,900
<b>Total Expenditures</b>	<b>\$750,000</b>	<b>\$147,974</b>	<b>\$593,126</b>	<b>\$8,900</b>
<b>Sources of Financing</b>				
Capital Water Rates	750,000	147,974	593,126	8,900
<b>Total Financing</b>	<b>\$750,000</b>	<b>\$147,974</b>	<b>\$593,126</b>	<b>\$8,900</b>

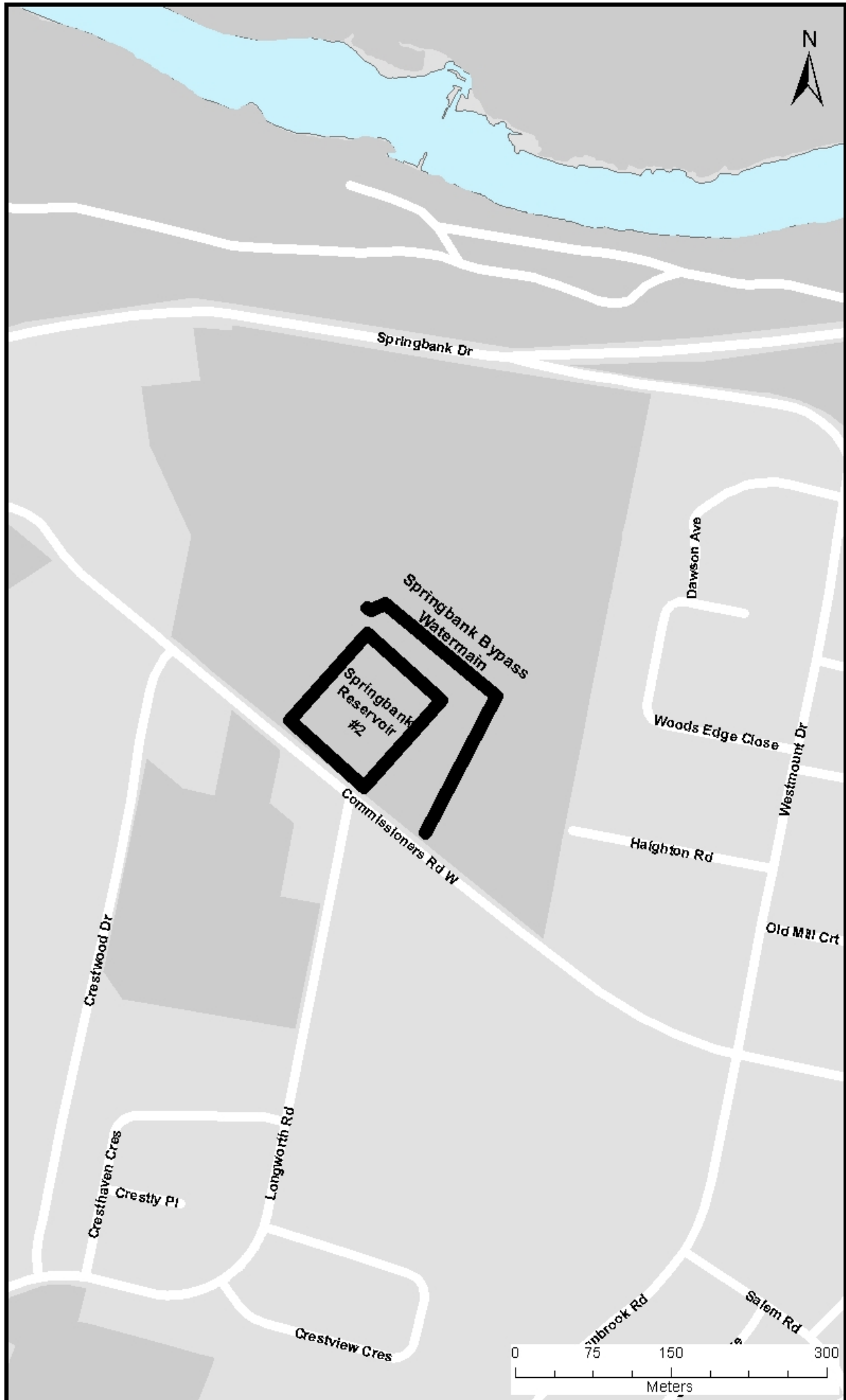
### Financial Note:

Contract Price	\$582,867
Add: HST @13%	75,773
Total Contract Price Including Taxes	658,640
Less: HST Rebate	-65,514
Net Contract Price	\$593,126

Jason Davies  
Manager of Financial Planning & Policy

jg

**Appendix 'B' – Location Maps**  
**2021 Large Diameter Watermain Inspection Phase 2**  
**Springbank Bypass Watermain**  
Project Limits:  
Reservoir Park off Commissioners Road East.



**Appendix 'B' – Location Maps**  
**2021 Large Diameter Watermain Inspection Phase 2**  
**Clarke Road Watermain**  
**Project Limits:**  
Clarke Road from Trafalgar Street to Commissioners Road East.

