

## 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:** Single Source Appointment of Services for the Dingman  
Creek Surface Water Monitoring Program

**Date:** April 20, 2022

## Recommendation

That on the recommendation of Deputy City Manager, Environment and Infrastructure, the following actions **BE TAKEN** with respect to the appointment of Upper Thames River Conservation Authority (UTRCA) for the Surface Water Monitoring of the Dingman Creek Subwatershed:

- (a) UTRCA **BE APPOINTED** to complete the 2022 Dingman Creek Surface Monitoring Program in accordance with the estimate, on file, at an upset amount of \$ 188,005.83 (including 10% contingency), excluding HST, in accordance with Section 14.4 (d) & (e) 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;
- (d) the approval given, herein, **BE CONDITIONAL** upon the Corporation entering into a formal contract; and
- (e) 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 the appointment of UTRCA to complete the Dingman Creek subwatershed 2022 annual surface monitoring program. This program includes water quantity, water quality, and biological monitoring programs in continuation of existing and historical monitoring programs. Data obtained by this program is used to calibrate floodplain modeling, assess overall stream health, and identify opportunities for stormwater management improvements.

### Context

The Dingman Creek subwatershed is anticipated to undergo significant urban development in the next 5-10 years and is the current focus of an on-going Environmental Assessment and floodplain mapping update.

In 2018, the City awarded UTRCA a three-year subwatershed pilot monitoring program while the Dingman Creek Phase 1 Environmental Assessment was underway. The benefits of the pilot included streamlining surface water monitoring data collection, data sharing, and reporting between the City and UTRCA as well as expanding the number of flow gauge stations to aid in the floodplain update. This pilot project has successfully achieved its goals and the City would like to continue with the annual program. A one-year program is recommended as it is anticipated later this year the Ministry of Environment, Conservation and Parks will be issuing new stormwater management surface water monitoring guidance which may impact future Dingman Creek monitoring programs.

## Linkage to the Corporate Strategic Plan

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

- Building a Sustainable City:
  - London's infrastructure is built, maintained, and operated to meet the long-term needs of our community by replacing aged and failing infrastructure with new materials and sizing new infrastructure to accommodate future development;
  - London has a strong and healthy environment by incorporating stormwater management quantity and quantity controls to protect downstream waterways.

## Analysis

### 1.0 Background Information

#### 1.1 Previous Reports Related to this Matter

- Civic Works Committee (CWC) – March 18, 2019 – Appointment of Services for Dingman Creek Surface Water Monitoring Program (ES2452);
- CWC – June 22, 2021 – Appointment of Consulting Engineer for the Dingman Creek Subwatershed Stage 2 Lands; Schedule C Municipal Class Environmental Assessment
- Planning and Environment Committee —November 12, 2018 — Upper Thames River Conservation Authority Dingman Creek Subwatershed Screening Area Mapping
- CWC — October 6, 2015 — Dingman Creek Subwatershed Stormwater Servicing Strategy Schedule C Municipal Class Environmental Assessment

### 2.0 Discussion and Considerations

The Dingman Creek subwatershed is the largest within the City of London and generally located in the southern portion of the City. This subwatershed covers a total area of 17,200 hectares and 74% of the subwatershed is within city limits.

Before 2018, surface water monitoring programs for the Dingman Creek subwatershed were conducted by various consultants and City staff, in addition UTRCA completing their own monitoring separate from the City works. Benefits of the collaborative pilot project approach have included long-term consistency in data collection personnel and methods, reduction in data collection duplication, and digital data archiving through UTRCA's existing Western Ontario Environmental Database (WOED) accessible to both parties.

#### 2.1 Work Description

This one-year Dingman Creek surface water monitoring program includes:

- a) Continuous flow and water level monitoring data at four existing permanent stations in the Dingman Creek subwatershed to calibrate future floodplain and stormwater modeling conditions.
- b) Collection of Dingman Creek monitoring data to build upon the existing historical datasets of water chemistry data and biologic data (including aquatic invertebrate and fisheries data);
- c) Compiling data into a single database that can be shared, accessed, and utilized by both UTRCA and the City; and,

- d) An annual Dingman Creek Subwatershed Surface Monitoring Report. This annual report will be updated at regular intervals to consider overall trends of the Dingman Creek system.

### **3.0 Financial Impact/Considerations**

#### **3.1 Procurement Process**

The selection procedure for the assignment utilized a non-competitive procurement process and is in accordance with Section Section 14.4 (d) & (e) of the Procurement of Goods and Services Policy. This one-year program is an extension of services previously provided by the UTRCA.

The UTRCA have experience and knowledgeable staff trained in performing surface water monitoring tasks as part of their day-to-day activities. These staff are well versed in the Dingman Creek monitoring program, surface water monitoring protocols and have a vested interest in ensuring consistency and reliability in data collection. Additionally, UTRCA owns and operates specialized equipment and software licenses such as the existing continuous water flow monitoring network and Water Information Systems by KISTERS (WISKI), which support the overall long-term monitoring program.

### **Conclusion**

The proposed team at UTRCA has experience in consistently delivering the Dingman Creek subwatershed monitoring program and is well-qualified to deliver an annual monitoring report. Based on the review of the submitted work plan, it is recommended that retaining UTRCA is in the best financial and technical interests of the City. It is recommended that UTRCA be awarded this assignment.

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**Submitted by:** Shawna Chambers, P.Eng., DPA  
Acting Director, Water, Wastewater and Stormwater

**Recommended by:** Kelly Scherr, P.Eng., MBA, FEC, Deputy City Manager,  
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**CC:**

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Appendix 'A' – Sources of Financing