

Report to Civic Works Committee

To: Chair and Members
Civic Works Committee

From: Kelly Scherr, P.Eng., MBA, FEC
Deputy City Manager, Environment & Infrastructure

Subject: Increase Contract Award: West London Dyke Reapplication of
Anti-Graffiti Coating to Phases 1 and 2

Date: August 31, 2021

Recommendation

That, on the recommendation of the Deputy City Manager, Environment & Infrastructure, the following actions **BE TAKEN** with respect to increasing the existing contract for Phase 7 West London Dyke project:

- (a) The Upper Thames River Conservation Authority **BE AUTHORIZED** to carry out added works for Phase 7 of the West London Dyke reconstruction by increasing the City's cost share by \$219,114.38, including contingency, excluding HST;
- (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 work;
- (d) the approvals given, herein, **BE CONDITIONAL** upon the Corporation entering into a formal contract with the consultant for the project; and,
- (e) the Mayor and the City Clerk **BE AUTHORIZED** to execute any contract or other documents, if required, to give effect to these recommendations.

Executive Summary

Purpose

This report seeks Council approval to increase the City's share of the West London Dyke Phase 7 construction contract, administered by the Upper Thames River Conservation Authority, to allow for the reapplication of anti-graffiti coating to Phases 1 and 2.

Context

The City of London owns flood and erosion control structures throughout the watershed that are maintained by the Upper Thames River Conservation Authority (UTRCA) under the terms of a Memorandum of Understanding (MOU). The MOU defines a collaborative approach to operation and maintenance and capital improvements to the flood and erosion control structures in which the City and UTRCA share an interest.

The most recent reconstruction of West London Dyke Phase 7, from St. Patrick Street to north of Oxford Street is currently under construction and should be completed by late fall with some landscaping and amenity features to be added in 2022. Ro-buck Contracting Ltd. is undertaking this work under a contract administered by the UTRCA with a funding share provided by the City. Part of this contract includes the application of an anti-graffiti coating to protect the wall, which is the same product used from Phases 4 and onward. This report seeks approval to increase the City's funding share to allow for the Phase 7 contractor to clean and reapply a new anti-graffiti coating to Phases 1 and 2 where the coating has degraded beyond its useful life.

Linkage to the Corporate Strategic Plan

This project supports the 2019-2023 Strategic Plan through the following: Building a Sustainable City, Build infrastructure to support future development and protect the environment, Improve London's resiliency to respond to future challenges, and Maintain or increase current levels of service; manage the infrastructure gap for all assets.

Analysis

1.0 Background Information

1.1 Previous Reports Related to this Matter

Civic Works Committee – November 17, 2020 – West London Dyke – Phase 7 and Fanshawe Dam Safety Study PO Boost

Civic Works Committee – July 14, 2020 – Upper Thames Conservation Authority and City of London Flood Protection Projects: West London Dyke Phase 7

Civic Works Committee – March 10, 2020 – Upper Thames River Conservation Authority and City of London Flood Protection Projects

Civic Works Committee – August 12, 2019 – Upper Thames River Conservation Authority and City of London Flood Protection Projects

Civic Works Committee – June 18, 2018 – Upper Thames River Conservation Authority and City of London Flood Protection Projects

Civic Works Committee – July 17, 2017 – Water and Erosion Control Infrastructure (WECI) Program: 2017 Provincially Approved Project Funding (Sole Sourced)

Civic Works Committee – August 22, 2016 – Water and Erosion Control Infrastructure (WECI) Program: 2016 Provincially Approved Project Funding (Sole Sourced)

Civic Works Committee – February 2, 2016 – West London Dyke Master Repair Plan Municipal Class Environmental Assessment Study

Strategic Priorities and Policy Committee – January 28, 2016 – Downtown Infrastructure Planning and Coordination

2.0 Discussion and Considerations

2.1 Discussion

The West London Dyke is a prominent feature of downtown London that runs adjacent to the Thames River and west of Harris Park. One of the recommendations of the 2007 West London Dyke Master Plan was to use vandal-resistant furnishing and products whenever possible to reduce the occurrences of vandalism within the area. To support this recommendation, each phase of the West London Dyke reconstruction has had anti-graffiti coating applied to the wall. By applying this coating, it allows graffiti to be easily removed with a pressure washer instead of using high pressure soda or sand blasting which can be costly and time consuming.

Phases 1 through 3 of the West London Dyke were constructed in 2007, 2011, and 2016, respectively. The coating applied to Phases 1 and 2 has come to the end of its design life, with Phase 3 needing replacement in a few years. As shown in Figure 1, the product is heavily degraded and is peeling from the block wall with some sections completely removed due to exposure to the elements and high flow events over the years. Figure 2 illustrates that the coating on Phase 3 is in reasonably good condition.



Figure 1: Peeling and degraded anti-graffiti coating from Phase 1 and Phase 2



Figure 2: Phase 3 anti-graffiti coating

Given that there is life remaining in the Phase 3 coating, it is recommended to leave this section and reapply the superior coating during a later phase of West London Dyke if required.

It is noted that during construction of Phases 1-3, the anti-graffiti coating was selected as one of the best available that could be exposed to submerged conditions. Since then, technology improvements along with cost reductions has allowed for other products to be considered. As such, Phases 4 and onward have used a new product that has provided better adherence to the block wall. Therefore, it is anticipated that the coating applied to Phases 4 onwards will have longer life and will not need to be replaced at the same frequency.

3.0 Financial Impact/Considerations

At this time, it is proposed that the original graffiti coating system for Phases 1 and 2 be removed via glass-blasting and replaced with the superior product, which includes full wall coverages and top coping stones. Prior to this work commencing, vegetation and brush removal will be required along the base of the wall. A cost of \$219,114 has been provided by Ro-buck Contracting Ltd. to complete this work. Staff have reviewed Robuck's fees and hours and have deemed the quote to represent a fair and consistent price with previously completed coating work. The cost to reapply the coating for Phase 3 will be incorporated into subsequent construction phases of the West London Dyke.

Conclusion

It is recommended that the City's share to the West London Dyke Phase 7 construction contract that is administered by UTRCA, be increased to replace the anti-graffiti coating for Phases 1 and 2 of the West London Dyke.

Prepared by: **Shawna Chambers, P.Eng., DPA, Division Manager,
Stormwater Engineering**

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

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

Attachments: Appendix 'A' – Source of Financing
Appendix 'B' – West London Dyke Phase Map

CC: John Freeman
Gary MacDonald
Alan Dunbar
Jason Davies
Geoff Smith
Monica McVicar

Appendix "A"

#21141

August 31, 2021

(Increase Contract Award)

Chair and Members

Civic Works Committee

RE: West London Dyke Reapplication of Anti-Graffiti Coating to Phases 1 and 2

(Subledger SWM20001)

Capital Project ES2474 - UTRCA Remediating Flood Control Works within City Limits

Upper Thames River Conservation Authority - \$219,114.38 (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 is:

Estimated Expenditures	Approved Budget	Committed To Date	This Submission	Balance for Future Work
Engineering	6,485,357	6,262,386	222,971	0
Construction	9,892,742	6,101,580	0	3,791,162
City Related Expenses	80,859	80,859	0	0
Total Expenditures	\$16,458,958	\$12,444,825	\$222,971	\$3,791,162

Sources of Financing

Capital Sewer Rates	1,000,000	1,000,000	0	0
Debenture By-law No. W.-5610-251	2,750,000	0	0	2,750,000
Drawdown from Sewage Works Renewal Reserve Fund	12,657,213	11,393,080	222,971	1,041,162
Other Contributions	51,745	51,745	0	0
Total Financing	\$16,458,958	\$12,444,825	\$222,971	\$3,791,162

Financial Note:

Contract Price	\$219,114
Add: HST @13%	28,485
Total Contract Price Including Taxes	247,599
Less: HST Rebate	-24,628
Net Contract Price	\$222,971

Jason Davies
Manager of Financial Planning & Policy

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