

Amendment of Purchase Order No. 6051512 with 614128 Ontario Ltd. O/A Trisan Construction for the Replacement of Sewage Forcemains

Date: January 4, 2023

To: General Government Committee

From: General Manager, Toronto Water and Acting Chief Procurement Officer,
Purchasing and Materials Management Division

Wards: 3 (Etobicoke-Lakeshore), 4 (Parkdale-High Park), 20 (Scarborough Southwest)

SUMMARY

The purpose of this report is to seek authority to amend Purchase Order Number 6051512 with 614128 Ontario Ltd, o/a Trisan Construction (Trisan Construction) for the Replacement of Sewage Forcemains at Baby Point SPS, awarded under Request for Tender (RFT) Number DOC 2373695353, Contract Number 20TW-CTS-14CWD (Contract). Forcemain replacement on Brimley Road South was expedited to avoid conflict with other construction work that the Toronto Regional Conservation Authority (TRCA) had planned in 2022 and this work was added to the Contract through a previous purchase order amendment.

During construction at the Brimley Road South location, the contractor encountered a number of issues that were unforeseen which required additional work to be carried out. The total Purchase Order amendment required is \$149,988 net of all taxes and charges (\$152,628 net of HST recoveries), revising the current purchase order value from \$5,075,630 to \$5,225,618 net of all taxes and charges (\$5,317,589 net of HST recoveries).

RECOMMENDATIONS

The General Manager, Toronto Water and the Acting Chief Procurement Officer, Purchasing and Materials Management Division recommends that:

1. General Government Committee in accordance with Section 71-11.1.C of the City of Toronto Municipal Code Chapter 71 (Financial Control By-Law), grant authority to amend Purchase Order No. 6051512 with 614128 Ontario Ltd, o/a Trisan Construction for the construction services related to the Replacement of Sewage Forcemains at Baby Point SPS, Contract Number 20TW-CTS-14CWD by an additional amount of \$149,988

net of all taxes and charges (\$152,628 net of HST recoveries), revising the current purchase order value from \$5,075,630 to \$5,225,618 net of all taxes and charges (\$5,317,589 net of HST recoveries).

FINANCIAL IMPACT

Amendment of Purchase Order No. 6051512 by an additional \$149,988 net of all taxes and charges (\$152,628 net of HST recoveries), will increase the purchase order value from \$ 5,075,630 to \$5,225,618 net of all taxes and charges (\$5,317,589 net of HST recoveries).

Funding is included in the Toronto Water 2022 Approved Capital Budget and 2023-2031 Approved Capital Plan as summarized in Table 1 below.

WBS Element	Description	2023	2024	Total (net of HST recoveries)
CWW472-23	Forcemain Replacement - Phase 2	\$139,399	\$13,229	\$152,628

The Chief Financial Officer and Treasurer has reviewed this report and agrees with the financial impact information.

DECISION HISTORY

Bid Award Panel adopted Item Number BA112.11 at its meeting held on December 2, 2020, authorizing the award of Request for Tender (RFT) Number DOC 2373695353, Contract Number 20TW-CTS-14CWD for the Replacement of Sewage Forcemains at Baby Point SPS in the amount of \$4,575,665 net of all applicable taxes and charges.

The Bid Award Panel decision can be found at:
Agenda Item History - 2020.BA112.11 (toronto.ca)

On May 25, 2022, Purchase Order Number 6051512 was amended by \$499,965.19 from \$4,575,665 to \$5,075,630 net of all taxes and charges to add the scope of work related to the Brimley Road South location in accordance with Section 71-11.1.A of the City of Toronto Municipal Code Chapter 71 (Financial Control By-Law).

COMMENTS

1. Forcemain Replacement

Most sewer systems rely on gravity to move wastewater from point A to point B. Service connections from buildings feed the wastewater into larger municipal sewer pipes and

convey it to a wastewater treatment plant. Gravity doesn't work in situations where the main sewer line is higher in elevation than the service connections. In these situations, pressurized sewer pipes, called forcemains, are required. Forcemains rely on mechanical pumps or compressors located in a pumping station to create the pressure to drive the wastewater up to higher elevations.

Toronto Water is currently responsible for operating and maintaining 96 wastewater pumping stations and approximately 39 km of associated sewer force main. Forcemain Replacement projects are a component of Toronto Water's Sewer Replacement Program. Toronto Water's approved 2022 Capital Budget and 2023-2031 Capital Plan includes \$268.458 million for the Sewer Replacement Program. The purpose of these projects is to maintain infrastructure in a state of good repair.

2. Addition of Forcemain Replacement on Brimley Road South

The original scope of work Contract Number 20TW-CTS-14CWD (Contract) was to replace the sanitary forcemain through Etienne Brule Park and Home Smith Park. This work also included construction of sewage valve chambers, microtunnelling beneath the Humber River and connecting the new sanitary forcemain outside the existing Baby Point Sewage Pumping Station. This contract is one of five Forcemains that are being replaced under the Forcemain Replacement Group 1 project. Construction started in January 2021 and achieved substantial completion in November 2021.

Sanitary Forcemain Replacement on Brimley Road South is one of ten locations part of the Forcemain Replacement Group 2 project and construction work was originally programmed at this location for 2024 and 2025. Approximately 330 meters of the planned work from Bluffer's Park to Redland Crescent West conflicted with the construction of a Multi-use Trail (MUT) that the Toronto Regional Conservation Authority (TRCA) had planned for the fall of 2022 along this same stretch of Brimley Road South. Therefore, the new sanitary forcemain construction at this section was expedited for completion in 2022. On May 25, 2022, Purchase Order Number 6051512 was amended to add the scope of work related to the Brimley Road South location to the Contract. Work at this location started in August 2022 and was completed in early October 2022.

3. Amendment of Purchase Order No. 6051512

During construction at the Brimley Road South location, the contractor encountered a number of issues that were unforeseen which required additional work to be carried out.

a. Removal and Disposal of Additional Asphalt

During the excavation for the installation of the forcemains, Trisan Construction encountered road asphalt ranging from 24" to 41" which far exceeds the anticipated asphalt depths as determined in the field investigations. The additional asphalt is from presumed repair work for past road settlements in the area as this section of road is built on an old landfill site. The cost of the additional work was \$55,727 net of all taxes

and includes additional labor time and equipment to break the extra depth of asphalt and disposal.

b. Additional Traffic Control

Due to the work's proximity to the highly used Bluffer's Park, Transportation Services requested additional advanced signage and traffic control flagging during construction. It was originally intended to use Pay Duty Police Officers for the traffic control but this resource was only partly available. Therefore, Trisan Construction was required to provide the labour for extra traffic control to keep construction progressing in a timely manner. The cost of this additional work was \$66,131 net of all taxes.

c. Increase in Disposal Costs

Given that this section on Brimley Road South was built on an old landfill site, all the excavated material from the forcemain installation was required to be removed from site and disposed of at a Ministry of the Environment, Conservation and Parks (MECP) disposal facility. Trisan Construction contracted with the YORK1 to transport the excavated material to their MECP certified disposal site. Just before the start of construction, YORK1's disposal rates for labour and fuel increased resulting in an additional cost of \$30,261. Trisan Construction agreed to cover 50% of the additional fees. Therefore, the cost to the City of this additional work was \$15,130 net of all taxes.

Given that the total costs associated with the three additional items of work was \$136,988 (\$139,399 net of HST recoveries), an amount of \$13,000 (\$13,229 net of HST recoveries) was also added to manage any post-construction issues at the site. Therefore, the total amount required under this purchase order amendment is \$149,988 net of all taxes (\$152,628 net of HST recoveries).

CONTACT

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SIGNATURE

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