

## **Amendment to Purchase Order Number 6043796 with WSP Canada Inc. and Purchase Order Number 6052068 with Maple Reinders Constructors Limited for Rehabilitation and Upgrades of Seven Group Six Sewage Pumping Stations at Various Locations**

**Date:** February 7, 2025

**To:** General Government Committee

**From:** General Manager, Toronto Water and Chief Procurement Officer

**Wards:** 3 (Etobicoke-Lakeshore and 4 (Parkdale-High Park)

### **SUMMARY**

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This report is seeking authority to amend Purchase Order Number 6043796 issued to WSP Canada Inc. (WSP), and Purchase Order Number 6052068 issued to Maple Reinders Constructors Limited (Maple Reinders) for work awarded through Request for Tender Doc2666227009 for the Rehabilitation and Upgrade of Seven (7) Group 6 Sewage Pumping Station (SPS) across Toronto.

The amendment for WSP Canada Inc., provides continued construction administration and site inspection services associated with an extended project schedule due to delays caused by conflicts with other projects. The total value of the requested amendment for Purchase Order Number 6043796 is \$1,258,123 net of all applicable taxes and charges (\$1,280,266 net of HST recoveries), revising the current Purchase Order value from \$1,664,968 net of all applicable taxes and charges (\$1,694,271 net of HST recoveries) to \$2,923,091 net of all applicable taxes and charges (\$2,974,537 net of HST recoveries).

The amendment for Maple Reinders is required to accommodate additional costs associated with by-pass pumping, dewatering, shoring and the price escalation of materials, equipment, and labour. The total value of the requested amendment for Purchase Order Number 6052068 is \$1,100,000 net of all applicable taxes and charges (\$1,119,360 net of HST recoveries), revising the current Purchase Order value from \$26,546,800 net of all applicable taxes and charges (\$27,014,024 net of HST recoveries) to \$27,646,800 net of all taxes and charges (\$28,133,384 net of HST recoveries).

## **RECOMMENDATIONS**

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The General Manager Toronto Water and the Chief Procurement Officer recommend that:

1. The General Government Committee, in accordance with section 71-11.1C of the City of Toronto Municipal Code Chapter 71 (Financial Control Bylaw), grant authority to amend Purchase Order Number 6043796 issued to WSP Canada Inc., for additional contract administration and fulltime site inspection services by increasing the overall value by \$1,258,123 net of all applicable taxes and charges (\$1,280,266 net of HST recoveries), revising the current Purchase Order value from \$1,664,968 net of all applicable taxes and charges (\$1,694,271 net of HST recoveries) to \$2,923,091 net of all taxes and charges (\$2,974,537 net of HST recoveries).
2. The General Government Committee, in accordance with section 71-11.1C of the City of Toronto Municipal Code Chapter 71 (Financial Control Bylaw), grant authority to amend Purchase Order Number 6052068 issued to Maple Reinders Constructors Limited for additional construction services by increasing the overall value by \$1,100,000 net of all applicable taxes and charges (\$1,119,360 net of HST recoveries), revising the current Purchase Order value from \$26,546,800 net of all applicable taxes and charges (\$27,014,024 net of HST recoveries) to \$27,646,800 net of all taxes and charges (\$28,133,384 net of HST recoveries).

## **FINANCIAL IMPACT**

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The total value of the requested amendment for Purchase Order Number 6043796 is \$1,258,123 net of all applicable taxes and charges (\$1,280,266 net of HST recoveries). The amendment will revise the current Purchase Order value from \$1,664,968 net of all applicable taxes and charges (\$1,694,271 net of HST recoveries) to \$2,923,091 net of all applicable taxes and charges (\$2,974,537 net of HST recoveries).

The total value of the requested amendment for Purchase Order Number 6052068 is \$1,100,000 net of all applicable taxes and charges (\$1,119,360 net of HST recoveries). The amendment will revise the current Purchase Order value from \$26,546,800 net of all applicable taxes and charges (\$27,014,024 net of HST recoveries) to \$27,646,800 net of all taxes and charges (\$28,133,384 net of HST recoveries).

Funding is available in the 2025 Capital Budget and 2026 - 2034 Capital Plan for Toronto Water. Funding details are summarized in Table 1 below.

**Table 1 - Financial Impact Summary (net of HST Recoveries)**

<b>WBS Element (Purchase Order)</b>	<b>Description</b>	<b>2025</b>	<b>2026</b>	<b>Total</b>
CWW476-05 (6043796)	SPS Upgrades - Group 6	\$1,280,266	\$0	\$1,280,266
CWW476-05 (6052068)	SPS Upgrades - Group 6	\$800,000	\$319,360	\$1,119,360
Total		\$2,080,266	\$319,360	\$2,399,626

The Chief Financial Officer and Treasurer has reviewed this report and agrees with the information as presented in the Financial Impact Section.

## **DECISION HISTORY**

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At its meeting on June 1, 2016, the Bid Award Panel adopted Item Number BD85.2, authorizing the Award of Request for Proposal Number 9117-16-7016 to WSP Canada Inc. for the Provision of Professional Engineering Services for the Preliminary Design, Detailed Design, Construction Administration and Post Construction Services for the Rehabilitation and Upgrade of Seven (7) Sewage Pumping Stations - Group 6. The Bid Award Panel decision can be found at:

[Agenda Item History - 2016.BD85.2 \(toronto.ca\)](#)

At its meeting on March 23, 2021, the Infrastructure and Environment Committee adopted Item Number IE20.2 authorizing the Award of Contract 19-TW-CTS-21CWD, Tender Call Doc2666227009 to Maple Reinders Constructors Limited for Rehabilitation and Upgrades of Seven (7) Pumping Stations. The Infrastructure and Environment Committee decision can be found at:

[Agenda Item History - 2021.IE20.2 \(toronto.ca\)](#)

## **COMMENTS**

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### **Background**

Sewage pumping stations are critical components of the City's wastewater collection system, moving wastewater from lower to higher elevations to ensure efficient flow to treatment facilities.

Pumping stations work by collecting and storing wastewater in an underground pit equipped with electrical instrumentation to detect the level of wastewater present. When the wastewater level rises to a predetermined level, a pump is activated to push the sewage through a pressurized pipe system (force mains) to other areas of the wastewater collection system and eventually to a wastewater treatment plant.

Toronto Water is currently responsible for operating and maintaining 96 wastewater pumping stations and approximately 39 km of sewer force main. The pumping stations vary in age, capacity, and complexity.

Toronto Water's 2025 Capital Budget and 2026-2034 Capital Plan includes \$144.565 million for Sewage Pumping Station (SPS) Upgrades. The purpose of these projects is to ensure compliance with regulatory requirements, maintain infrastructure in a state of good repair, and accommodate growth and improved service.

In 2016, the City retained WSP to provide engineering services related to the rehabilitation and upgrade of seven (7) sewage pumping stations referred to as Group 6. In 2021, the City executed an agreement with Maple Reinders for the rehabilitation and upgrade of the Group 6 stations.

The seven stations included in Group 6 are: Berry Road SPS, Baby Point SPS, Humber SPS, Old Mill SPS, Kennedy SPS, High Park SPS and Warren Park SPS. The scope of work included removal of existing equipment, civil and structural modifications, process equipment upgrades, electrical and instrumentation upgrades and HVAC system upgrades at each station.

### **Amendment of Purchase Order Number 6043796 with WSP Canada Inc.**

The construction phase of the Group 6 SPS Rehabilitation and Upgrades project started on April 15, 2021. The construction period was to be for 150 weeks with a completion date of April 25, 2024.

During construction the general contractor experienced delays due to conflicts with other projects including the additional time required to remove the tunnel boring machine (TBM) from the Basement Flooding Protection Program (BFPP) project at Etienne Brule Park. The Group 6 contractor had scheduled work at Baby Point SPS to begin in February 2022, however, they were unable to mobilize because the BFPP contractor's equipment and work area were occupying the site. The TBM was retrieved in early 2024, delaying the start of construction at the Baby Point SPS until May 2024.

The work at the Humber SPS was originally scheduled to start in May 2022, however, delays caused by issues with the Toronto Hydro overhead cables, TTC approvals and the TTC's Bridge Bearing replacement work at Pier G and East Abutment near the Old Mill Subway Station pushed the start to January 2025.

The Toronto Hydro overhead cables run directly over the Humber SPS and interfere with the contractor's shoring drill rig. Coordination with Toronto Hydro began in January 2022, with Toronto Hydro completing the relocation in the spring of 2024.

The TTC Bridge Bearing replacement project involved replacement and repair of the bearings for the tunnel which is located just three (3) metres north of the Humber SPS. Due to the proximity of the TTC tunnel work and the Toronto Hydro and TTC approvals, the mobilization of Humber SPS was pushed back to January 2025.

These unforeseen delays impacted the contractor's schedule for Baby Point SPS and Humber SPS resulting in a project completion of December 2025.

Table 2 provides a summary of the additional work required to be performed by WSP Canada Inc. to complete the project.

**Table 2 - Additional Work Required by WSP Canada Inc. to Complete the Project**

<b>Additional Work</b>	<b>Cost</b>
Additional 66 weeks of Site Inspection and Contract Administration Services	\$1,008,123
Additional efforts required due to review the higher-than-expected submission of quotations and attend additional meetings.	\$100,000
Additional efforts required for design revisions, unknow site items and coordination with approval agencies.	\$150,000

**Amendment of Purchase Order Number 6052068 with Maple Reinders Constructors Limited**

Maple Reinders started work on this project in April 2021. Due to the delays experienced at the Baby Point SPS and Humber SPS (as described above), project completion is schedule for December 2025. Table 3 provides a summary of the status of completion for each of the stations under this contract.

**Table 3 - Status of Completion by Station**

<b>Station</b>	<b>% Completion</b>	<b>Station</b>	<b>% Completion</b>
Berry Road SPS	5	Kennedy SPS	100
Baby Point SPS	40	High Park SPS	75
Humber SPS	5	Warren Park SPS	40
Old Mill SPS	100		

Project delays have led to increased costs, with the largest attributable factors being the additional bypass pumping and the price escalation of materials equipment and labour.

The project tender closed in December 2020, during the COVID-19 pandemic. The pandemic led to significant price increases in materials and equipment for construction projects due to several factors including supply chain disruptions, labour shortages, transportation delays, and reduced the availability of essential construction materials like steel, lumber, and cement. Additionally, restrictions on manufacturing and shipping impacted global trade, leading to delays and higher shipping costs. The increased cost

of materials, combined with inflationary pressures and the higher cost of labour, caused overall project expenses to rise.

Other significant factors due to unforeseen site conditions included additional site dewatering at Humber SPS and High Park SPS and additional shoring at Baby Point SPS and Humber SPS. Table 4 provides a summary of the largest attributable factors related to the additional project costs.

**Table 4 - Largest Attributable Factors Related to Additional Costs**

<b>Attributable Factor</b>	<b>Cost</b>
Additional Bypass Pumping	\$314,064
Price Escalation of Materials, Equipment and Labour	\$285,259
Additional Dewatering	\$232,876
Additional Shoring	\$232,876

## **CONTACT**

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## **SIGNATURE**

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Lou Di Gironimo  
General Manager, Toronto Water

Geneviève Sharkey  
Chief Procurement Officer