



Report to: General Committee

Meeting Date: June 20, 2022

SUBJECT: 107-T-22 Sediment Removal at Stormwater Management Ponds (ID #47 and #119)
PREPARED BY: Rob Muir, Manager - Stormwater, Environmental Services, Ext. 2357
Flora Chan, Senior Buyer, Ext. 3189

RECOMMENDATION:

1. That the report entitled “107-T-22 Sediment Removal at Stormwater Management Ponds (ID #47 and #119)” be received; and,
2. That the contract for Tender 107-T-22 Sediment Removal at Stormwater Management Ponds (ID #47 and #119) be awarded to the lowest priced Bidder, Greenspace Construction Inc. in the amount of \$631,924.65, inclusive of HST; and,
3. That a 10% contingency in the amount of \$63,192.47 inclusive of HST, be established to cover any additional construction costs and that authorization to approve expenditures of this contingency amount up to the specified limit be in accordance with the Expenditure Control Policy; and,
4. That the construction award in the amount of \$695,117.12 (\$631,924.65+ \$63,192.47) be funded from the capital project 058-6150-22196-005 “SWM Pond Cleaning ID#47 & #119 - Construction” with budget available of \$476,400.00; and,
5. That the shortfall of \$218,717.12 in project #22196 “SWM Pond Cleaning ID#47 & #119 - Construction” be funded from Life Cycle Replacement and Capital Reserve Fund; and,
6. That Staff be authorized and directed to do all things necessary to give effect to this resolution.

EXECUTIVE SUMMARY:

Not Applicable.

PURPOSE:

The purpose of this report is to obtain Council approval to award the contract for Sediment Removal at Stormwater Management Pond #47: Roxbury Pond (Ward 7) and Pond #119: Angus Glen Community Centre Pond (Ward 6). Refer to attached location map.

BACKGROUND:

Stormwater Management Pond Cleanout:

Stormwater Management Ponds require maintenance to function efficiently. Sediment levels need to be monitored and when the percentage of accumulated sediment is above

regulatory limits (varies depending on the pond design), ponds need to be cleaned to ensure that the approved quality control function of the pond is maintained.

Construction Tender

Due to the scope of the project, contractors were prequalified to ensure that they had the necessary qualifications, experience and resources to complete the work in accordance with the City's requirements and within the specified timelines. Prequalification 028-P-22 was issued in accordance with the Purchasing By-law 2017-8.

Pre-Qualification Information (028-P-22)

Prequalification closed on	March 3, 2022
Number of Contractors picking up the Pre-qualification document	22
Number of Contractors responding to the Pre-qualification	10
Number of Contractors Pre-qualified	7

Construction Tender Information (107-T-22)

Bids closed on	May 11, 2022
Number picking up the Bid document	7
Number responding to the Bid	5

Price Summary

Bidder	Bid Price (Incl. of HST)
Greenspace Construction Inc.	\$631,924.65

OPTIONS/ DISCUSSION:

Stormwater Management Pond Cleanout:

In meeting the requirement of Ministry of Environment, Parks and Conservation (MECP) Certificate of Approval (C of A) and more recently Environmental Compliance Approval (ECA), the City carries out pond inspections regularly. Sediment levels are monitored and when the accumulated sediment reaches a level where the removal efficiency is reduced by 5%, ponds are cleaned to ensure that the quality control function of the pond is maintained. Sediment cleaning maintains downstream water quality, preserves fish habitat and contributes to a sustainable, healthy ecosystem that is in line with the City's Green print initiative.

The Tender award includes the sediment removal for two stormwater management ponds at a cost of \$695,117.12 inclusive of 10% contingency and HST impact.

Project Schedule:

- June 2022 - Commencement of work
- September 2022 - Completion of work

Staff recommend not to change or defer the scope of work for this project, as it will have an adverse impact on future maintenance.

FINANCIAL CONSIDERATIONS

The following table summarizes the financial considerations for the project:

Budget Available for Construction component of this Project (A)	\$ 476,400.00	058-6150-22196-005 "SWM Pond Cleaning ID#47 & #119 - Construction"
Less: Construction cost (B)	\$ 631,924.65	} Award to Greenspace Construction Inc. (107-T-22)
Less: Contingency (10%) (C)	\$ 63,192.47	
Total Cost (D) = (B) + (C)	\$ 695,117.12	
Budget Shortfall (E) = (A) – (D)	(\$ 218,717.12)	*

*The shortfall of \$218,717.12 in project #22196 "SWM Pond Cleaning ID#47 & #119 - Construction" shall be funded from Life Cycle Replacement and Capital Reserve Fund.

Compared to 2021 pricing, the pond cleaning unit rate have increased by approximately 58%, from \$146 to \$230 per tonne, mainly due to following:

1. Fuel (Diesel) increase by 65% since previous tender.
 - (a) The contractor will have to transport 2,000 tonnes of excavated sediment material to a MECP approved dump site. Each truckload is 10-15 tonnes.
2. The new On-Site and Excess Soil Management Regulation, O. Reg. 406/19.
 - (a) The regulation was supposed to be implemented as of Jan 1, 2022; however, the registration and reporting requirements were deferred until Jan 1, 2023. However, dump site operators have already started to implement these measures for contractors. Staff estimate this cost to be in the range of \$30k. This was not budgeted in the 2022 Capital Budget, as there was no details available at the time budget submission regarding new regulation.
3. During the design work, it became evident that the outfall structures at the two facilities needed further upgrades to avoid recurring operational issues in future.
 - (a) The budget request estimated \$180k; however, the actual cost is \$234k (Increase of \$54k) due to the replacement of two outlet structures and re-paving of access road. These additional costs were not budgeted for.

HUMAN RESOURCES CONSIDERATIONS

Not Applicable.

ALIGNMENT WITH STRATEGIC PRIORITIES:

The 2022 Life Cycle Reserve Study will be updated to reflect the current market prices. There is no incremental operating budget impact.

BUSINESS UNITS CONSULTED AND AFFECTED:

Finance department has been consulted and their comments have been incorporated.

RECOMMENDED BY:

Eddy Wu
Director, Environmental Services

Morgan Jones
Commissioner, Community Services

ATTACHMENTS:

Attachment - Location Map