



TO: GENERAL COMMITTEE

SUBJECT: FUNDING REQUEST FOR PROJECT EN1463 - SOPHIA CREEK OWEN TRIBUTARY STORM OUTLET FROM MEMORIAL SQUARE

WARD: 2

PREPARED BY AND KEY CONTACT: R. GRAHAM, C.E.T., L.E.T., ENGINEERING PROJECT MANAGER, EXT 4401

SUBMITTED BY: S. DIEMERT, P. ENG., DIRECTOR OF INFRASTRUCTURE

GENERAL MANAGER APPROVAL: B. ARANIYASUNDARAN, P. ENG., PMP, GENERAL MANAGER OF INFRASTRUCTURE AND GROWTH MANAGEMENT

CHIEF ADMINISTRATIVE OFFICER APPROVAL: M. PROWSE, CHIEF ADMINISTRATIVE OFFICER

RECOMMENDED MOTION

1. That the approved Budget for Project EN1463 concerning the Sophia Creek Owen Tributary Storm Outlet from Memorial Square, be increased by \$1,300,000 with funding sources outlined in the Financial section of Staff Report INF005-23.

PURPOSE & BACKGROUND

Report Overview

2. Project EN1463 will install a new storm outlet to Bayfield Basin to reduce flooding in the downtown core. This project needs to be completed prior to Project EN1464 - Sophia Trunk Storm Sewers - Clapperton, Owen & Sophia (Dunlop to Peel) and future improvements to Heritage Park, as illustrated in Appendix "A" of this Staff Report, INF005-23 ("Project Location").
3. EN1463 has advanced to a sixty percent (60%) design phase and is on track to be tendered in 2024 as planned. A bathymetric survey was completed and has confirmed that the City will need to dredge 1100 cubic meters of sediment within the Marina prior to the EN1463 construction. The need to dredge within the marina was not known at the time of project initiation.
4. There are environmental timing windows and operational timing restrictions to undertake dredging within the Marina. As such, the dredging will have to be completed between October 15 and December 15, 2023.
5. The purpose of this report is to request additional project funds of \$1,300,000 to proceed with dredging works.

ANALYSIS

6. The total cost for the dredging is estimated at \$1,300,000.00. This includes engineering costs, sediment sampling, dredging costs and contingencies.



ENVIRONMENTAL AND CLIMATE CHANGE IMPACT MATTERS

- 7. The following environmental and climate change impact matters have been considered in the development of the recommendation:
 - a) There are three existing storm outlets within the Bayfield Basin. The bathymetric survey has confirmed that these outlets are impacted by sediment accumulation and dredging works will improve these outlets.
 - b) The dredging works will allow Project EN1463 to initiate construction as planned in 2024. The construction of the additional storm outlet is needed to reduce the flooding impacts within the downtown core.
 - c) The project will adhere to applicable environmental regulations and permitting related to on-site and excess soils management, sediment and erosion controls, and well head protection measures.

ALTERNATIVES

- 8. The following alternatives are available for consideration by General Committee:

Alternative #1

General Committee could choose to alter the recommended motion by not providing the additional funds and adjust the project schedule to include the dredging operations to take place in 2024 with the construction being pushed to 2025 within the 2024 Capital Plan.

- a) This alternative is not recommended as it would delay the construction of the new outlet being installed to reduce flooding within the downtown core.

FINANCIAL

- 9. Project EN1463 (Sophia Creek Owen Tributary Storm Outlet from Memorial Square) is included in the 2023 approved capital budget.
- 10. The requirement to dredge the Marina was identified during the field investigations completed in the detailed design phase of EN1463. The additional cost to complete the dredging is \$1,300,000.
- 11. The City's 2023 Capital Status Report, FIN013-23, is returning about \$11 million from all Infrastructure Department projects. These returned funds will defray the additional funding required for the budget increase that is requested.
- 12. The 2023 Capital Project budget will be adjusted to include the following phase:
 - a) EN1463.23.22 be added with a total approved 2023 budget of \$1,300,000.
- 13. The current approved funding plan for the project are shown in the table below along with the impact of the proposed changes:

Funding Source	Current	Proposed	Change
DC Stormwater FMB Reserve	\$162,450	\$747,450	\$585,000
Tax Capital Reserve	\$812,133	\$1,527,133	\$715,000
Total	\$974,583	\$2,274,583	\$1,300,000

LINKAGE TO 2022-2026 STRATEGIC PLAN

14. The recommendations included in this Staff Report support the following goals identified in the 2022-2026 Strategic Plan.
- Affordable Place to Live
 - Community Safety
 - Thriving Communities
 - Infrastructure Investments
 - Responsible Governance
15. By maintaining the overall project schedule, we will not delay the storm sewer installation needed to reduce risk of flood impacts and property damage within the downtown core.

Appendix "A"

Project Location

