

TO:	CHAIR AND MEMBERS CIVIC WORKS COMMITTEE MEETING ON SEPTEMBER 22, 2020
FROM:	KELLY SCHERR, P.ENG., MBA, FEC MANAGING DIRECTOR - ENVIRONMENTAL & ENGINEERING SERVICES & CITY ENGINEER
SUBJECT	PROPOSED EXPANSION OF THE W12A LANDFILL SITE: UPDATED ENVIRONMENTAL ASSESSMENT ENGINEERING CONSULTING COSTS

RECOMMENDATION

That, on the recommendation of the Managing Director, Environmental & Engineering Services & City Engineer, the following actions **BE TAKEN** with respect to the appointment of Golder Associates Ltd. for the Individual Environmental Assessment process for the proposed expansion of the W12A Landfill:

- a) Golder Associates Ltd. **BE APPOINTED** to carry out additional atmosphere, groundwater, landfill design and noise assessment studies as part of the Individual Environmental Assessment process for the proposed expansion of the W12A Landfill, in the total amount of \$47,315 excluding HST, in accordance with Section 15.2 (g) of the City of London's Procurement of Goods and Services Policy;
- b) the financing for the work identified in (a), above, **BE APPROVED** in accordance with 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; and
- d) the Mayor and City Clerk **BE AUTHORIZED** to execute any contract or other documents, if required, to give effect to these recommendations.

PREVIOUS REPORTS PERTINENT TO THIS MATTER

Relevant reports that can be found at www.london.ca under City Hall (Meetings – Council and Standing Committees) include:

- Proposed Expansion of the W12A Landfill Site: Updated Environmental Assessment Engineering Consulting Costs (October 22, 2019 meeting of the Civic Works Committee (CWC), Item #2.12)
- Appointment of Consulting Engineer for Various Technical Studies as part of the Environmental Assessment Process for the Proposed Expansion of the W12A Landfill Site (July 17, 2017 meeting of the CWC, Item #6)
- Update and Next Steps – Resource Recovery Strategy and Residual Waste Disposal Strategy as Part of the Environmental Assessment Process (February 7, 2017 meeting of the CWC, Item #10)
- Appointment of Consulting Engineer Long Term Solid Waste Resource Recovery and Disposal Plans (May 24, 2016 meeting of the CWC, Item #10)

COUNCIL'S 2015-2019 STRATEGIC PLAN

Municipal Council has recognized the importance of solid waste management in its 2019-2023 - Strategic Plan for the City of London as follows:

Building a Sustainable City

London has a strong and healthy environment

- Build infrastructure to support future development and protect the environment

Growing our Economy

London is a leader in Ontario for attracting new jobs and investments

- Build infrastructure to support future development and retain existing jobs

Leading in Public Service

Londoners experience exceptional and valued customer service

- Increase community and resident satisfaction of their service experience with the City

BACKGROUND

PURPOSE

This report seeks approval from Committee and Council to retain Golder Associates Ltd. to undertake additional assessments and studies for the environmental assessment (EA) of the proposed expansion of the W12A Landfill.

The value of this assignment is less than \$100,000 but in combination with other assignments will exceed \$100,000 and requires Council approval as per purchasing policy 15.2 g).

CONTEXT

In 2015, Council directed staff to develop a long term residual waste disposal plan. Part of the plan includes an Individual environmental assessment (EA) for the expansion of the W12A Landfill. The W12A Landfill is expected to reach capacity in 2024.

There are different classes (types) of EAs depending on the type and complexity of the undertaking (project). The most rigorous EA is an Individual EA. An individual EA is less prescribed than the more common class EAs and the level of work is not finalized until the Terms of Reference (ToR) is approved by the Minister of the Environment, Conservation and Parks (MECP). The ToR becomes the framework (work plan) for completing the EA. The ToR was approved on July 30, 2019.

Work on the Environmental Assessment began in August 2019 with refining landfill expansion alternatives (referred to “alternative methods”) and then preliminary selection of the preferred landfill expansion alternative. This was followed by more detailed impact assessments of the proposed preferred alternative which are ongoing.

The proposed preferred landfill expansion alternative is a vertical expansion over the existing waste footprint which has many advantages over other expansion alternatives. This alternative does have the greatest visual impact and a more complex engineering design.

DISCUSSION

Budget

The budget for long term waste management planning, Capital Account SW6051, is summarized in Tables 1 and 2 (next page). The amount spent on the EA and the committed expenditures to date is \$1,646,000 or approximately 70% of the total EA budget.

Table 1: Budget for Proposed W12A Landfill Expansion and Resource Recovery

Item	Budget (a)	Comment
Budget Breakdown		
EA for Long Term Residual Waste Disposal (Landfill Expansion)	\$2,398,000	All costs associated with the EA approval of the expansion of the W12A Landfill.
Resource Recovery Initiatives & Strategy	\$410,000	Preliminary planning and/or pilot projects for the development of resource recovery area east of W12A Landfill.
Total	\$2,808,000	

Table 2: Status of EA and Resource Recovery Budget

Item	Budget (a)	Comment
EA - Spent to date	\$1,320,000	Cost to develop and obtain approval of ToR and undertake the technical studies.
EA - Committed (consulting)	\$327,000	Primarily consulting fees for remaining EA technical studies and preparation of the EA documentation.
EA – New Consulting Fees	\$47,000	This submission (excluding HST).
EA – New Consulting Fees	\$9,000	New Administrative Award (excluding HST)
EA - Expected Future Assignments (future costs)	\$593,000	Primarily consulting fees, additional technical work, project management, community engagement.
EA - Contingency Available	\$102,000	Funds available to cover future additional costs.
Resource Recovery Initiatives & Strategy	\$410,000 (b)	Preliminary planning and/or pilot projects for the development of resource recovery area east of W12A Landfill.

Notes:

(a) Rounded to the nearest \$1,000

(b) In 2018 and 2019, approximately \$35,000 from the operating budget was assigned to research at Western University through the Industrial Research Chair and the London Waste to Resources Innovation Centre.

Updated Consulting Engineering Costs

The cost of the additional assessments and studies to address the commitments made in the ToR is identified on Table 3.

Table 3 – Updated EA Costs

Study and Consultant	Additional Cost	Comments
Atmosphere (including noise)/ Design/ Groundwater Assessments Golder Associates	\$47,315	<ul style="list-style-type: none"> Original scope of work assumed a qualitative approach to evaluate the alternative methods for air. MECP approved atmospheric work plan required a quantitative assessment, as well as a multi-phase impact assessment for air of the preferred alternative with consideration of more complex receptors for both air/noise. Additional field work required for noise assessment.

Table 3 – Updated EA Costs

Study and Consultant	Additional Cost	Comments
		<ul style="list-style-type: none"> • Additional work required on the landfill design including leachate storage, building requirements and ancillary features. • Undertake additional hydrologic and contaminant transport modelling to address issues raised through Indigenous communities consultation and expected questions from MECP because of vertical expansion. • Council Award as per purchasing policy 15.2 g) (value of this assignment is less than \$100,000 but in combination with other assignments will exceed \$100,000).
Visual Assessment Ron Koudys Landscape Architects Inc.	\$9,230	<ul style="list-style-type: none"> • Undertake visual impact assessment at additional locations. • Additional refinement of mitigative measures. • Administrative award as per purchasing policy 12.0 (total value of this assignment and previous assignments is less than \$100,000).
Total	\$56,545	

Summary

The additional consulting engineering fees of \$47,315, as requested, and the administrative award fees of \$9,230 will address additional work required related to atmosphere, groundwater, landfill design and noise assessment studies because of the vertical expansion.

Assuming Expected Future Assignments (future costs) on Table 3 are as estimated, there may be additional costs in the future to address input from stakeholders and Indigenous communities as well as comments/questions from the MECP during their review of the EA. It is anticipated that additional costs can be managed through the Contingency budget (Table 3). Significant new EA work may require a budget amendment.

PREPARED BY:	
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PREPARED AND SUBMITTED BY:	RECOMMENDED BY:
JAY STANFORD, M.A., M.P.A. DIRECTOR, ENVIRONMENT, FLEET & SOLID WASTE	KELLY SCHERR, P.ENG., MBA, FEC MANAGING DIRECTOR, ENVIRONMENTAL & ENGINEERING SERVICES & CITY ENGINEER

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Attachment: Appendix A – Source of Financing

c: Wesley Abbott, Technical Project Manager
John Freeman, Manager, Purchasing and Supply
Golder Associates Ltd. (1931 Robertson Road, Ottawa, K2H 5B7)