TO:	**CHAIR AND MEMBERS CIVIC WORKS COMMITTEE MEETING ON JULY 17, 2017**
FROM:	**KELLY SCHERR, P.ENG., MBA, FEC MANAGING DIRECTOR - ENVIRONMENTAL & ENGINEERING SERVICES & CITY ENGINEER**
SUBJECT	**APPOINTMENT OF CONSULTING ENGINEER FOR VARIOUS TECHNICAL STUDIES AS PART OF THE ENVIRONMENTAL ASSESSMENT PROCESS FOR THE PROPOSED EXPANSION OF THE W12A LANDFILL SITE**

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 a Consulting Engineer for some of the technical studies required as part of the Environmental Assessment process for the proposed expansion of the W12A Landfill:

a) Golder Associates Ltd. **BE APPOINTED** to carry out the various technical studies required as part of the Individual Environmental Assessment process for the proposed expansion of the W12A Landfill, in the total amount of $290,520, in accordance with the estimate on file, based upon the Fee Guideline for Professional Engineering Services, recommended by the Ontario Society of Professional Engineers; and 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;

d) the approvals given herein **BE CONDITIONAL** upon the Corporation entering into a formal contract with the consultant for the work; and

e) 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:

- Reports to the Waste Management Working Group (WMWG) are located under City Hall (Meetings – Advisory and other Committees)
- 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 Civic Works Committee (CWC), Item #10)
- Establishment of a Waste Management Working Group (December 5, 2016 meeting of the Strategic Priorities and Policy Committee (SPPC), Item #2)
- Appointment of Consulting Engineer Long Term Solid Waste Resource Recovery and Disposal Plans (May 24, 2016 meeting of the CWC, Item #10)
- Individual Environmental Assessment Long Term Solid Waste Resource Recovery & Disposal Plans (October 6, 2015 meeting of the CWC, Item #14)

COUNCIL'S 2015-2019 STRATEGIC PLAN

Municipal Council has recognized the importance of solid waste management in its 2015-2019 - Strategic Plan for the City of London (2015 – 2019 Strategic Plan) as follows:

Strengthening our Community
- Healthy, safe and accessible city

Building a Sustainable City
- Strong and healthy environment
- Robust infrastructure

Growing our Economy
- Local, regional, and global innovation
- Strategic, collaborative partnerships

Leading in Public Service
- Proactive financial management
- Innovative & supportive organizational practices
- Collaborative, engaged leadership
- Excellent service delivery

BACKGROUND

PURPOSE:

This report:

- recommends the appointment of Golder Associates Ltd. to carry out consultant services for five (5) technical studies (archaeology/cultural/heritage, design/operation, economical/social, hydrogeology and hydrology) related to the Individual Environmental Assessment for the proposed expansion of the W12A Landfill;
- update Council on the award of two (2) technical studies as per Procurement of Goods and Services Policy clause 15.2 c); and,
- update Council on the initiation of request for proposals (RFPs) for four (4) technical studies as per Procurement of Goods and Services Policy clause 12.

CONTEXT:

In October 2015 Municipal Council directed staff to proceed with the development of a long-term Resource Recovery Strategy and a Residual Waste Disposal Strategy for the City of London.

The Resource Recovery Strategy involves the development of a plan to maximize waste reduction, reuse, recycling, resource recovery, energy recovery and/or waste conversion in an economically viable and environmentally responsible manner. Resource Recovery strategies (i.e., often known as waste diversion strategies) are developed and approved at the local government level and do not require Provincial government approval. However, these strategies do serve as input into Provincial government decision-making as related to approval of the Residual Waste Disposal component.

The Residual Waste Disposal Strategy involves the development of a long-term plan to manage residual waste (waste after resource recovery) and involves completion of an Individual Environmental Assessment (EA) as prescribed by the Ministry of Environment & Climate Change (MOECC).

City staff are responsible for the overall direction, management, community engagement and some of the technical work of the Resource Recovery and Residual Waste Disposal Strategies including the EA. Consultants are hired as required to prepare and/or assist in the preparation of supporting documentation and completion of technical studies.

In spring 2016, the City staff sought competitive proposals to provide consulting services for:

- Preparation of the Proposed Terms of Reference
- Completion of the Planning/Evaluation portion of the Environmental Assessment
- Assistance with Resource Recovery Plan
- Assistance with the Community Engagement Program

Six (6) submissions were received in response to Request for Qualifications. Based on the submissions received, a shortlist of three consulting firms were invited to submit a formal proposal. The evaluation of the three proposal submissions gave Golder Associates Ltd. the highest score based on their understanding of the work, technical expertise, experience and price. The assignment to Golder Associates Ltd. was for $567,000 from an overall budget of $2.8 million.

It is noted that the completion of technical studies was not included in the initial proposal call because the type and requirements of the various technical studies cannot be finalized until after initiation of the community engagement process and further discussions with the Ministry of Environment & Climate Change (MOECC). Further, City staff wanted to assemble the best team of technical specialists based on staff's understanding of the W12A Landfill and previous work that had been completed at the site and not rely on a consulting firm to create the team on our behalf.

DISCUSSION

It has been proposed that the expansion of the W12A Landfill is the overall preferred alternative to meet the City of London's long term residual waste needs. This is based on the conclusions of the *W12A Landfill Area Study* (IBI & MacViro, 2005) and an assessment of residual waste disposal alternatives using screening criteria from the *Terms of Reference Codes of Practice* (MOECC, 2014).

The proposed expansion of the W12A Landfill will occur above and/or immediately beside the existing W12A Landfill. Expansion alternatives (referred to as "Alternative Methods" in an Environmental Assessment) will be developed and presented to stakeholders in the fall of 2017. It is anticipated there will be three or four expansion Alternative Methods.

The selection of the preferred Alternative Method will require a systematic evaluation of the three to four Alternative Methods. The proposed evaluation criteria used to determine the overall preferred alternative for the landfill expansion are presented in Table 1 below.

Table 1 – Proposed Evaluation Criteria

Component	Sub-component	Rationale for Sub-component
Natural Environment Criteria		
Atmosphere	Air quality (including odour and greenhouse gases)	Landfill expansion and associated operations can produce gases containing contaminants that degrade air quality if they are emitted to the atmosphere. Construction activities associated with landfill expansion and continued landfill operation can lead to levels of particulates (dust) in the air. Landfill operation can also result in odour effects.
	Noise	Landfill expansion and associated operations will generate noise that will be emitted into the atmosphere and could affect off-site points of reception.

Table 1 – Proposed Evaluation Criteria

Component	Sub-component	Rationale for Sub-component
Natural Environment Criteria (continued)		
Biology	Aquatic ecosystems	Landfill expansion can remove or disturb the functioning of natural aquatic habitats and species, including rare, threatened or endangered species.
	Terrestrial ecosystems	Landfill expansion could remove or disturb the functioning of natural terrestrial habitats and vegetation, including rare, threatened or endangered species.
Geology and Hydrogeology	Groundwater quality	Contaminants associated with the landfill expansion and associated operations can enter the groundwater and impact off-site groundwater or surface water.
Surface Water	Surface water quality	Contaminants associated with the landfill expansion and associated operations can seep or enter into surface water and adversely affect water quality and aquatic life.
	Surface water quantity	Operations associated with the landfill expansion can alter runoff and peak flows.
Socio-Economic Criteria		
Agriculture	Agriculture	The agricultural land base or agricultural operations may be impacted by the landfill expansion and associated operations.
Archaeology	Archaeological	A horizontal landfill expansion has the potential to affect archaeological resources.
Culture	Cultural Heritage Landscapes	Identified cultural heritage landscapes can be altered by the landfill expansion. Depending on the nature of identified cultural heritage landscapes, there could be an impact by the ongoing operation of the landfill.
	Cultural Heritage Resources	Heritage attributes of identified cultural heritage resources could be impacted by the landfill expansion and associated operations.
Land Use	Current and planned future land uses	Waste disposal facilities can potentially affect the use and enjoyment of sensitive uses in the vicinity of the site.
Socio-economic	Economic	The continued operation of the landfill can influence employment in the regional area.
Visual	Visual	The landfill expansion can affect the local community by changes in the visual appearance of the site.
Transportation	Traffic	The operations at the landfill can impact the surrounding traffic through changes in truck traffic to/from the landfill.
Technical Criteria		
Design and Operations	Design and Operations	Sites that require less engineering to assure protection of off-site groundwater or air quality are typically preferred from a public and regulatory perspective.

Eleven (11) technical studies will be required to generate the information and data necessary to undertake the comparative evaluation using the criteria in Table 1. Each of these studies are listed in Table 2 along with the recommended method of consultant selection.

Table 2 – Proposed Studies and Consultant Selection

Study	Consultant Selection	Rationale
Natural Environment Criteria		
Atmosphere (Air Emissions, Odour, Dust and Noise)	Competitive	• Administrative award as per purchasing policy 12.0 (value of work less than $100,000). • Inviting firms to submit proposals with experience in undertaking requested studies.
Biology (Aquatic Terrestrial ecosystems)	AECOM	• Administrative award as per purchasing policy 15.2 c) (value of work less than $100,000). • Performed original biology assessment for W12A Landfill Area Study. • AECOM has an experienced team, clear understanding of study requirements and experience at the W12A Landfill.
Hydrogeology	Golder	• Council Award as per purchasing policy 15.2 g) (value of work is less than $100,000 but in combination with other assignments will exceed $100,000). • Golder has completed several previous hydro-geological & geotechnical studies at the W12A Landfill. • Have develop new contaminant transport model for W12A Landfill as existing work plan for development of the Terms of Reference. • Golder has an experienced team, clear understanding of study requirements and experience at the W12A Landfill.
Natural Environment Criteria		
Surface Water	Dillon (Hydrology)	• Administrative award as per purchasing policy 15.2 c) (value of work less than $100,000). • Performed original hydrology assessment for W12A Landfill Area Study. • Dillon has an experienced team, clear understanding of study requirements and experience at the W12A Landfill.
	Golder (SWM Ponds)	• Council Award as per purchasing policy 15.2 g) (value of work is less than $100,000 but in com-bination with other assignments will exceed $100,000). • Golder has extensive experience in doing SWM Pond studies for landfill EAs. • Closely linked to Design and Operations study. • Provides financial advantage to the City to have EA consultant also able to undertake SWM Pond study.
Socio-Economic Criteria		
Agriculture and Land Use	Competitive	• Administrative award as per purchasing policy 12.0 (value of work less than $100,000). • Inviting firms to submit proposals with experience in undertaking requested studies.

Table 2 – Proposed Studies and Consultant Selection

Study	Consultant Selection	Rationale
Socio-Economic Criteria (continued)		
Archaeology, Cultural and Heritage	Golder	• Council Award as per purchasing policy 15.2 g). • Performed original archaeology/heritage assessment for W12A Landfill Area Study. • Golder has completed several other archeological, cultural and heritage studies at and around the W12A Landfill for the City. • Golder has an experienced team, clear understanding of study requirements and experience at the W12A Landfill.
Economic	Golder	• Council Award as per purchasing policy 15.2 g) (value of work is less than $100,000 but in combination with other assignments will exceed $100,000). • Golder has extensive experience undertaking economic studies for landfill EAs. • Provides financial advantage to the City to have EA consultant also able to undertake economic study.
Transportation	Competitive	• Administrative award as per purchasing policy 12.0 (value of work less than $100,000). • Inviting firms to submit proposals with experience in undertaking requested studies.
Visual	Competitive	• Administrative award as per purchasing policy 12.0 (value of work less than $100,000). • Inviting firms to submit proposals with experience in undertaking requested studies.
Technical Criteria		
Design and Operations	Golder	• Council Award as per purchasing policy 15.2 g) (value of work is less than $100,000 but in combination with other assignments will exceed $100,000). • Golder has extensive experience in specialized field of landfill design. • Provides financial advantage to the City to have EA consultant also able to undertake design and operation study.

It is proposed to single source the hydrogeology; stormwater management (SWM) pond; archaeology, cultural and heritage; economic; and design and operations studies to Golder Associates Ltd. The value of these assignments is $290,520 and therefore requires Municipal Council approval as per clause 15.2 (g) of the Procurement of Goods and Services Policy (PGSP) because the combined value of the studies exceeds $100,000 in value. The rationale for recommending to single source this work to Golder Associates Ltd. is discussed below and summarized in Table 2.

Golder Associates Ltd. has extensive current experience conducting EAs for expansion of existing municipal landfills or development of new landfills in Ontario. Since 1998, and in particular since 2005, they have been retained by both the public and private sector to lead or take a significant role on waste management EAs for 15 sites in Ontario. To date all but two of these projects (which are currently in the approval process) have received EA approval. On many of these EAs, most of the technical studies have also been carried out by Golder technical specialists, including the specific technical studies listed

above. As such, these technical specialists have considerable experience in working individually and as a team doing this work, have done this work recently and are therefore familiar with the requirements of the various regulatory agencies. In summary Golder Associates Ltd. has demonstrated an understanding of the City's requirements, has applicable knowledge for this project and will provide value to the City.

Golder Associates Ltd. has provided a proposal to undertake the work. City staff have reviewed the fee submissions in detail considering the hourly rates provided for each consultant staff member. City staff have confirmed that hourly rates are consistent with those submitted through competitive processes. City staff also reviewed the time allocated to each project related task. Staff can confirm that the amount of time allocated to each project task is consistent with prior projects of a similar nature that have been awarded through a competitive process. In general, all of the assignments are found to be reasonable and in-line with those that would be expected through a competitive process.

It is also proposed to single source the biology and hydrology studies to AECOM Canada Ltd. and Dillon Consulting Ltd. respectively. Each of these studies is below $100,000 and therefore can be awarded administratively as per clause 15.2 c) of the PGSP. The rationale for single sourcing the work is provided in Table 2. AECOM Canada Ltd. and Dillon Consulting Ltd. have provided proposals to undertake their respective assignments. City staff undertook the same review steps of the proposals as noted above for Golder Associates. In general, both of the assignments were found to be reasonable and in-line with those that would be expected through a competitive process.

All seven (7) technical studies noted above have fallen within the budgeted amount allocated for this work.

A competitive bid process will be used to select consultants to undertake the agricultural and land use, atmosphere, transportation and visual impact studies. Each of these assignments are estimated to be less than $100,000 and therefore can be awarded administratively as per clause 12 of the PGSP.

ACKNOWLEDGEMENTS

This report was prepared with assistance from Mike Losee, Division Manager, Solid Waste Management.

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Attach: Appendix A – Sources of Financing

cc: John Freeman, Manager, Purchasing and Supply
Golder Associates Ltd. (1931 Robertson Road, Ottawa, K2H 5B7)