



City of
Peterborough

To: **Members of the Committee of the Whole**

From: **W.H. Jackson, Director of Utility Services**

Meeting Date: **June 22, 2015**

Subject: **Report USEP15-007
Award of the Completion of all Necessary Documents and
Application for the Former Harper Road Landfill Environmental
Compliance Approval**

Purpose

A report to award the Completion of all Necessary Documentation and Application of the Former Harper Road Landfill Environmental Compliance Approval (ECA) to Dillon Consulting Limited, 235 Yorkland Blvd., Suite 800, Toronto, Ontario, M2J 4Y8.

Recommendation

That Council approve the recommendation outlined in Report USEP15-007 dated June 22, 2015, of the Director of Utility Services, as follows:

That the Completion of all Necessary Documentation and Application of the Harper Road Landfill ECA be awarded to Dillon Consulting Limited, 235 Yorkland Blvd., Suite 800, Toronto, Ontario, M2J 4Y8 at a total cost of \$187,450.00 plus HST of \$24,368.50 for a total of \$211,818.50.

Budget and Financial Implications

The total net \$190,749.12 requirement, after applicable HST rebates, for the Completion of all Necessary Documentation and Application of the Former Harper Road Landfill ECA can be accommodated within the uncommitted balance of \$1,171,223.83, within the approved 2012 capital budget (reference #5-9.07).

Background

Brief Description of the Work

In 2012, the City of Peterborough retained Dillon (RFP-10-12), to complete a detailed environmental characterization of the Former Harper Road Waste Disposal Site ("HWDS"), implement short-term mitigation measures to address the movement of PCB impacted sediment off-site (installation of PCB absorbing booms and berms), and develop a Landfill Plan for addressing environmental impacts present as a result of the HWDS.

The Landfill Plan was based on the results of the environmental characterization and included a review of potential options/approaches for mitigating the environmental impacts and selection of the preferred approach. Additional investigations (accommodated within the original project schedule and budget) were undertaken on the lands to the east of the HWDS (Harper Road East) and to the south (Crawford Drive and MTO Lands). Environmental characterization of the HWDS was achieved through installation of test-pits, borehole and monitoring wells, geophysical surveys, scoped species-at-risk and wetland screenings/evaluations and environmental sampling (soil, waste, surface water, sediment, groundwater, drinking water and landfill gas). The preliminary findings of the environmental characterization and the Landfill Plan were:

- The extent of the HWDS was defined horizontally and vertically across the site. North of the CP Rail line, landfill material consisted of primarily municipal solid waste with some minor amounts of industrial waste (e.g., electrical components, insulators); south of the CP Rail line, waste consisted of material more industrial in nature with less municipal solid waste;
- PCB impacts originating from the HWDS were identified in surface water and sediment within the HWDS footprint and in surface water and sediment immediately down-stream of the HWDS. PCB impacts resulting from surface water discharge from within the HWDS were identified in the creek crossing Sir Sandford Fleming Blvd. and The Parkway;
- It was established through sampling and analysis of PCB concentrations, including specialized PCB characterization (homologue analysis) and with the assistance of Trent University, that PCB impacts identified in the Otonabee River by the Ministry of the Environment and Climate Change ("MOECC") were **not** related to the HWDS;
- Landfill-derived impacts were not identified in potable water wells located along Johnson Drive;
- a groundwater plume consisting of volatile organic compounds (particularly perchloroethylene, trichloroethylene, cis-1,2-dichloroethylene and vinyl chloride) was identified emanating off the HWDS, under Crawford Drive and onto the lands currently occupied by the MTO;

- impacts from the landfill were not noted in the wetlands and natural areas to the north of the HWDS (i.e., Harper Park); and
- additional investigations completed on the Harper Road East land did not identify landfill-related impacts to surface water and groundwater in this area.

Landfill Plan

Based on the findings of the environmental characterization a management-in-place conceptual landfill plan was developed for the HWDS. This plan included:

- the removal of PCB impacted soil and waste at locations where PCB levels were identified above the PCB hazardous waste classification limit of 50 ppm;
- placement of low-permeability cap over the two fill areas to limit the potential for infiltration into the waste material (which would have the effect of lowering the water level within the fill material);
- grading of the cap and diverting surface water (i.e., channeling of streams and creeks) away from the fill areas and through un-impacted areas;
- establishment of a Contaminant Attenuation Zone ("CAZ") in the area south of Harper Road (the "MTO Lands") where the subsurface groundwater plume (e.g., vinyl chloride) would attenuate - this would include development of a monitoring program with triggering mechanisms and contingency plans and potentially a risk assessment to evaluate land use;
- following completion of the onsite activities (capping, grading and diversion of surface water) removal of the PCB impacted sediments along Sir Sandford Fleming Drive was recommended.

Comments on the draft reports were received from the MOECC. In addition to comments related specifically to technical matters, a recommendation to obtain an ECA for the landfill was included - "I further recommend that a Ministry Environmental Compliance Approval be obtained for the proposed alterations to this large disposal site to bring it under long term regulatory control..." - B. Holland, Groundwater Review, Kingston Regional Office, MOECC.

In late 2013, Dillon continued to work on the Former Landfill in the following two-step approach:

- Complete additional environmental monitoring at the HWDS – additional monitoring was to address, in part comments received from the MOECC, on the draft Dillon July 2013 reports.
- Initiate the pre-consultation process for application of an ECA for the HWDS that included a Closure Plan based on the preferred approach identified by Dillon.

A pre-consultation meeting held in January 2015, between representatives of MOECC (Peterborough District Office and Approvals Branch (Toronto), City and Dillon confirmed that the application of an ECA amendment to the Compost Facility ECA that included a

Closure Plan for the HDWS based on Dillon's conceptual approach would be an appropriate route for addressing the impacts arising from the former landfill. A timeline was also established at the meeting with a commitment to submit the application by early summer 2015. It is expected that the review period and period for exchange of comments and responses would be in the order of 8 to 9 months. This will be accomplished in the following manner:

- Submission of an ECA application package to refine the conceptual Landfill Plan, address MOECC comments on the draft Dillon reports, develop a monitoring plan (including triggering mechanisms and contingency measures) and coordinate with the Harper Road Compost Facility closure.
- Meet and consult with the City, MOECC and other stakeholders (e.g., Otonabee Region Conservation Authority) as necessary through the application process.

Recommended Bidder

Dillon Consulting Limited has been working on all aspects of the HWDS since 2012 and has produced the background information that would be used to complete the remaining work described in this report. Section 9.1.2 (i) of Purchasing By-law 14-127 allows a non-competitive process:

“When a Consultant has been used to provide a service, and additional work is required that builds upon or is dependent upon the previous work undertaken, and when it could not reasonably be determined at the time the original work was approved additional services would be required.”

Based on this information, the Director of Corporate Services has approved a non-competitive process in this matter and it is proposed that Dillon Consulting Limited, 235 Yorkland Blvd., Suite 800, Toronto, Ontario, M2J 4Y8 be awarded the Completion of the Necessary Documents and Application of the Harper Road Landfill Environmental Compliance Approval. Dillon has completed all past environmental studies on this project and has the knowledge and tools necessary to complete the necessary submittals to the Ministry of the Environment Approvals Branch.

Council Approval Required

Part 8.2.1 of the Purchasing By-law 14-127 states Council must approve an award where the expenditure is greater than \$100,000. The proposed works for the completion of all necessary documents and application for the former Harper Road Landfill Environmental Compliance Approval (ECA) meets this requirement and must be approved by Council.

Timelines

If the recommendation is approved, the purchase will be confirmed via a new purchase order before the work commences.

Summary

The proposed award for the Completion of all Necessary Documents and Application of the Former Harper Road Landfill ECA has been issued in accordance with the City's Purchasing By-law 14-127 and can be awarded within approved budgets as recommended in this report.

Submitted by,

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Director Utility Services

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