



# A6

## ADMINISTRATIVE REPORT

Report Date: December 1, 2009  
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Meeting Date: December 15, 2009

TO: Vancouver City Council  
FROM: General Manager of Engineering Services  
SUBJECT: Award of PS09081 - Landfill Water Quality Monitoring Program - Annual Review and Reporting

### *RECOMMENDATION*

- A. THAT, subject to the conditions set out in Recommendations B, C, and D, Council authorize a contract with SNC-Lavalin Environment Inc., a division of SNC-Lavalin Inc., to provide Consulting Services for the Landfill Water Quality Monitoring Program - Annual Review and Reporting for the calendar years 2009, 2010 and 2011 at a total estimated cost of \$83,300 (including disbursements) plus applicable taxes, to be funded from the Landfill Operating Budget for 2010, 2011 and 2012;
- B. THAT, the Director of Legal Services be authorized to execute and deliver on behalf of the City all legal documents required to implement Recommendation A;
- C. THAT all such legal documents be on terms and conditions satisfactory to the General Manager of Engineering Services, the Manager of Supply Management and the Director of Legal Services; and
- D. THAT no legal rights or obligations will be created by Council's adoption of Recommendations A, B and C above unless and until such legal documents are executed and delivered by the Director of Legal Services.

### *GENERAL MANAGER'S COMMENTS*

The General Manager of Engineering Services RECOMMENDS approval of the foregoing.

### *COUNCIL POLICY*

Consultant agreements exceeding \$30,000 require Council Authorization.  
Contracts are to be awarded on the basis of best overall value for the City.

### ***PURPOSE***

The purpose of this report is to seek Council authority to engage SNC-Lavalin Environment Inc. to provide Consulting Services for the Landfill Water Quality Monitoring Program - Annual Review and Reporting for the calendar years 2009, 2010 and 2011 at a total estimated maximum cost of \$83,300 (including disbursements) plus applicable taxes.

### ***BACKGROUND***

The Vancouver Landfill ("Landfill") is owned and operated by the City of Vancouver and located in the southwest corner of Burns Bog in Delta, BC. The Landfill serves over one million people and is authorized to accept 750,000 tonnes of municipal solid waste each year. The Ministry of Environment administers Operational Certificate MR-01611 for the Landfill, which requires regular sampling and analysis of landfill leachate, and ground and surface waters in the vicinity of the Landfill. The Operational Certificate also requires annual reporting of the collected data with interpretation. The Greater Vancouver Sewerage & Drainage District administers Waste Discharge Permit SC-100168-FSA ("Waste Discharge Permit"), which places limits on the quality of leachate entering their sewer system.

Leachate is collected in the inner ditch of a twin ditch containment system that surrounds the 225 hectare Landfill footprint. Clean surface water runoff in the outer drainage ditch is maintained at a higher elevation than the leachate ditch level to any sub-surface flow between the ditches is towards the Landfill and leachate is contained. The inner ditch is graded towards the southwest corner of the site, where leachate enters the pump station. In 2008, approximately 1,392,000 m<sup>3</sup> of leachate was pumped into the sanitary sewer system and conveyed to the Annacis Island Wastewater Treatment Plant.

The ultimate deliverable for the Project is a detailed annual report on the water quality monitoring data for the calendar years 2009, 2010 and 2011 to fulfil the requirements set out in the Landfill's Operational Certificate. The scope of work includes a review and interpretation of the water quality monitoring data, an assessment of compliance with the Quality Assurance/Quality Control Program, and the preparation of an annual report for each calendar year. Each report will build on previous reviews with the addition of another year of monitoring data to the dataset with subsequent interpretation. Annual water quality monitoring program reviews and reporting have been conducted since 1999.

### ***DISCUSSION***

In October 2009, the General Manager of Engineering Services and the Manager of Supply Management sought proposals for Consulting Services for the Landfill Water Quality Monitoring Program - Annual Review and Reporting ("Project") through an RFP process (PS09081). Bidders were required to provide the annual cost to review and report on the water quality monitoring program in 2009, 2010 and 2011, and to provide a one-time cost to update the Landfill's outdated water sampling and quality control manual as an optional task.

In November 2009, three proposals were received and reviewed by the interdepartmental staff evaluation team (comprised of representatives from Engineering Services and Supply Management). A comparative and consistent matrix format was developed and used to compare the proponent's Project teams, proposal contents, proposal details and cost.

Through the evaluation review process, it was determined by the evaluation team that SNC-Lavalin Environment Inc.'s ("SLEI") proposal offered the best overall value to the City. SLEI's proposal reflected a thorough understanding of the Project objectives, scored the highest on technical requirements, and offered the lowest price. Additionally, the senior hydrogeologist/technical advisor that will be the sub-consultant to the SLEI team has completed the annual water quality monitoring program reviews for the City for the previous four years as a private consultant.

### ***FINANCIAL IMPLICATIONS***

The recommended contract with SNC-Lavalin Environment Inc., a division of SNC-Lavalin Inc., to provide Consulting Services for the Landfill Water Quality Monitoring Program - Annual Review and Reporting for the calendar years 2009, 2010 and 2011 is estimated at \$83,300 (including disbursements) plus applicable taxes, and will be funded from the Landfill Operating Budget in 2010, 2011 and 2012 with costs allocated to users of the Landfill. This amount includes \$4,590 to update the Landfill's water sampling and quality control manual, which will be completed in 2010. The analysis and reporting tasks for each annual review are to commence after City staff have collected all of the data for the particular calendar year (data is collected up to and including December 31). The following table lists the costs by deliverable and budget year, including disbursements and excluding applicable taxes.

<b>Deliverable</b>	<b>Budget Year</b>	<b>Cost (excluding taxes)</b>
2009 Review and Report	2010	\$27,890
Updated Water Sampling & Quality Control Manual	2010	\$4,950
2010 Review and Report	2011	\$24,920
2011 Review and Report	2012	\$25,540
	<b>Total</b>	<b>\$83,300</b>

### ***ENVIRONMENTAL IMPLICATIONS***

The City is required to meet the obligations outlined in the Landfill's Operational Certificate issued by the Ministry of Environment, including the provision of an annual report containing a review and interpretation of the water quality monitoring program data. The annual report is required to be submitted to the Ministry of Environment by March 31 of the following year. Annual review allows comparisons of the preceding year's data with that collected since 1995 for trend analysis and monitoring efforts to be focussed where needed.

### ***CONCLUSION***

Following an RFP process and the evaluation of the three proposals received, the General Manager of Engineering Services recommends that the contract for Consulting Services for the Landfill Water Quality Monitoring Program - Annual Review and Reporting be awarded to SNC-Lavalin Environment Inc. SNC-Lavalin Environment Inc.'s proposal provides the overall best value to the City for the required scope of work at an estimated cost of \$83,300 (including disbursements) plus applicable taxes for the calendar years 2009, 2010 and 2011 with funding provided from the Landfill Operating Budgets for 2010, 2011 and 2012.

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