

This document can be made available in other accessible formats as soon as practicable and upon request

STAFF REPORT: ENGINEERING AND PUBLIC WORKS DEPARTMENT



REPORT TO: **Committee of the Whole**
MEETING DATE: **April 7, 2014**
REPORT NO.: **EPW.14.028**
SUBJECT: **Tender Award 2014-04-T-EPW –
Landfill Reclamation and Re-
engineering**
PREPARED BY: **Jeffery Fletcher, Manager of Solid
Waste and Environmental Initiatives
on behalf of the Tender/Proposal
Award Committee**

A. Recommendations

THAT Council receive Report EPW.14.028, “Tender Award 2014-04-T-EPW –Landfill Reclamation and Re-engineering;

AND THAT Tender Award 2014-04-T-EPW –Landfill Reclamation and Re-engineering be awarded to Arnott Construction Limited, for the mining of previously landfilled waste, installation of a landfill liner and leachate collection system and daily landfilling operations, in the total amount of 3,719,950.00 excluding HST;

AND THAT the Mayor and the Clerk be authorized to execute the Contract Documents with Arnott Construction Limited.

B. Background

The Landfill expansion and re-engineering project has entered the construction stage. Prior to this construction stage, detailed design and approval work was completed and an Environmental Screening under the Environmental Protection Act was conducted. Through the Environmental Screening process, Scenario 2 – vertical expansion and mining of the Thornbury and The Blue Mountains areas – developed as the environmentally preferable option. This Scenario 2 also maximizes the new landfill capacity and has the potential to provide approximately 20 years capacity.

An amendment to the Site’s Design and Operations Plan has been approved by the Ministry of the Environment based on the mining and expansion concept. This approval permits the mining and expansion of the Site by 200,000 cubic metres.

Under Scenario 2 a number of phasing options were presented to Council. In November of 2013 Council adopted a recommendation that approved “the implementation of landfill expansion Option 3 to start in 2014, described as 50% mining and 50% liner and leachate system, which will provide the Town with an estimated 10 years of new capacity and delay the construction of an additional 9 years of capacity until approximately 2024”.

The Town released a Request for Pre-Qualification to initiate a 2 stage tender process on January 8, 2014 for the landfill expansion construction project. Following the public request for pre-qualification, seven respondents submitted packages for consideration by the Town's evaluation committee. Following evaluations three respondents scored the minimum required 80 out of 100 points to be pre-qualified to progress to the tender stage of the of process.

On February 21, 2014 tender documents were circulated to three pre-qualified contactors. A bidders meeting was held during the tendering period and tenders were received and opened on March 20, 2014.

Tender Results

The following submissions were received. Upon opening and analysis of Tender 2014-04-T-EPW, the lowest responsive and responsible bidder was Arnott Construction Limited:

Bidders Name	Total Bid Price Excluding HST
Arnott Construction Limited	\$3,719,950
Tervita Corporation	\$5,840,930
Cedarwell Excavating	\$6,127,056

The Town's project engineer from Golder Associates has reviewed the schedule of items and prices for any irregularities in the tender. The project engineer has recommended awarding the bid to Arnott Construction Limited (Arnott) based on the tender submitted.

Maintenance Period Waste Compaction

Daily waste compaction and covering operations, currently a contracted service, will become part of the reclamation project work and the responsibility of the project contractor upon the commencement of the construction project. As part of the project the Contractor will have control over the tipping face and responsibility for directing traffic to the daily tipping area. The Contractor will also continue to manage the tipping face throughout the one year project maintenance period, scheduled to end August 2016.

Next Steps

The Contractor will begin construction in early May of 2014 and substantial completion is scheduled for no later than July 31, 2015. Construction efforts will largely stop during the winter months. However, the Contractor will continue to be responsible for tipping face maintenance and waste compaction operations for the life of the construction contract.

Over the next year Town Staff will prepare a cost comparison of potential options for ongoing waste compaction and covering operations to ensure a decision is in place for the end of the maintenance period.

C. The Blue Mountains' Strategic Plan

Addressing the Town's municipal infrastructure needs.
Providing a strong, well managed municipal government.

D. Environmental Impacts

One of the primary reasons for undertaking the mining portion of this expansion project, in addition to gaining new capacity, is to improve the environmental performance of the Site. Removing existing waste and lining the eastern portion of the Site creates an additional buffer to the adjacent Indian Brook. This will be a significant improvement over the existing limit of waste that is understood to run as close as 10 to 15 metres from the Disposal Site property boundary.

E. Financial Impact

The 2014 budget has \$4,650,864 allocated for related landfill mining and expansion construction and engineering. The waste compaction operational budget, during the anticipated construction period (2014 to 2016), is \$289,000. The Table below shows the expected cost savings related to the 2014 Budget and the actual bid prices.

Project Cost Areas	Actual Cost	Budget	Cost Savings
Engineering	\$270,564	\$270,564	0
Construction	\$3,551,950	\$4,380,300	\$828,350
Daily Compaction (Operational Budget)	\$250,300*	\$289,000	\$38,700
Total	\$3,990,514	\$4,857,564	\$867,050

*\$168,000 paid to Arnott's Construction during the construction and the remaining \$82,300 paid outside of the contract.

Currently there is \$3,461,396 to be transferred into unfinanced in the 2014 budget if these cost savings are realized this number would be reduced to \$2,633,046. These cost savings could also be directed towards a conceptual plan of piping leachate from the Landfill Site to the Town's treatment plant. A future Staff report will be brought forward to Council discussing these options and recommending a plan of action.

F. In Consultation With

Serena Wilgress, Manager of Purchasing and Risk Management
Sam Dinsmore, Financial Analyst

G. Attached

None

Respectfully submitted,

Jeffery Fletcher
Jeffery Fletcher
Manager of Solid Waste and Environmental Initiatives

Tender Proposal Award Committee

Troy Speck
Troy Speck
Chief Administrative
Officer

Reg Russwurm
Reg Russwurm
Director of Engineering
and Public Works

Serena Wilgress
Serena Wilgress
Manager of
Purchasing and Risk
Management