

CITY OF CHILLIWACK
Regular Meeting of Council
Addendum

Tuesday, June 20, 2023, 2:00 pm

8550 Young Road,
Chilliwack, BC V2P 8A4

15. Other Business

15.2 Additional Items

*15.2.1 Engineering - Bailey Landfill NE Wedge Liner Extension Project - RFP Evaluation

Recommendation

That Council accept the proposal for the design and construction of the "Bailey Landfill NE Wedge Liner Extension Project" from the lead proponent, Metric Civil Contractors Ltd./Sperling Hansen Associates in the amount of \$2,609,870.00 (plus applicable taxes); and further, that the Mayor and Corporate Officer be authorized to sign any necessary documentation.

STAFF REPORT ON

Bailey Landfill NE Wedge Liner Extension Project – RFP Evaluation

PREPARED BY:	<u>Frank Van Nynatten</u>	DATE:	<u>Jun 19, 2023</u>
POSITION:	<u>Assistant Manager of Environmental Services</u>	DEPARTMENT:	<u>Engineering</u>

1. DEFINITION OF ISSUE:

The City of Chilliwack invited proposals from proponents to design and construct the Bailey Landfill NE Wedge Liner Extension Project. Two (2) compliant proposals were received by the stipulated closing time.

A decision to accept a proposal for the Bailey Landfill NE Wedge Liner Extension Project is required.

2. BACKGROUND:

2.1 The City of Chilliwack is seeking qualified Respondents to develop, design and construct the Bailey Landfill – NE Wedge Liner Extension. The purpose of the Request for Proposals (RFP) is to solicit submissions from Respondents with expertise in landfill liner engineering design and construction.

2.2 The Bailey Sanitary Landfill site has been a permitted landfill since 1974 with numerous expansion phases occurring over the years. This Design-Build expansion project is the NE Wedge Liner Extension. The need for the NE Wedge Liner Extension is prescribed in the 2020 Design, Operations and Closure Plan (DOCP) for the Site prepared by GHD Limited. The purpose of that document is to fulfill the requirements specified in the Operational Certificate and the Landfill Criteria for Municipal Solid Waste (Landfill Criteria), both issued by the BC Ministry of Environment and Climate Change Strategy.

2.3 Landfilling in the NE Wedge Liner Extension area will take place over top of the existing east Site access road and fill in the wedge between the North East Expansion Area and the Original Landfill Area. The existing leachate collector pipes that drain the southern and eastern portions will be re-routed through this lined area to discharge into non-perforated leachate pipes. Leachate from within the NE Wedge Liner Extension area will be collected in perforated lateral drainage pipes, or a drainage net to a collector pipe located along the northern edge of the liner extension. As part of the NE Wedge Liner Extension, surface water that is currently piped through this area will also be re-routed (See Appendix A for map of locations).

2.4 The anticipated schedule outlined in the Proposal call was as follows:

Issue RFPs to Selected Proponents for Stage 2	April 3 rd , 2023
Request for Proposal Closing	May 17 th , 2023 at 3:00 pm
Staff Report to Council /Acceptance	June 20 th , 2023
Substantial Completion	September 15 th , 2023

3. FACTORS:

3.1 Three (3) proponents were invited to submit proposals based on the RFEI evaluation:

1. Matcon Environmental Limited/Ecora Engineering Resource Group Limited
2. Metric Civil Contractors Ltd./Sperling Hansen Associates
3. Secure Energy/Associated Engineering

Matcon Environmental Limited/Ecora Engineering Resource Group Limited notified the City on April 28th that they regrettably would not be able to proceed with RFP process. The reason given was that Ecora Engineering, the firm that Matcon engaged in the process had informed them that they could do the necessary Liner Design within the allotted time provided in the RFP process.

3.2 A five (5) member evaluation committee evaluated the two (2) remaining proponents based on information contained within their respective technical proposals.

3.3 Based on information contained within the technical proposals, the City of Chilliwack retained the services of geotechnical (GeoWest Engineering) and civil/environmental (GHD Limited) consultants to provide advice on the submissions, including the slope stability of the liner area and drainage layer design.

3.4 GeoWest Engineering advised that the City should require a minimum interim factor of safety of 1.3 prior to waste placement. The Secure Energy proposal had indicated that their base proposal did not meet this factor of safety. Secure Energy provided clarification in a letter dated June 19, 2023 that the additional cost to add a slope buttress to achieve the factor of safety would add \$1,678,770 to their base cost.

3.5 Secure Energy also provided clarification that including 300mm of protective soil cover and geocomposite drainage layer to meet the intended specification, as recommended by GHD Limited, would add \$351,900 in cost.

3.6 The revised Secure Energy price would need to include an additional \$2,030,670 to meet minimum requirements.

- 3.7 The Financial Proposals remained sealed until all rated criteria evaluations of the technical proposals were finalized and documented. The City Finance Department provided and opened the Financial Proposals at the conclusion of the technical evaluation.
- 3.8 The table below summarizes the proposal prices and points awarded for technical elements:

<i>Proponent Teams</i>	<i>Base Price</i>	<i>Adjusted Price</i>	<i>Technical Points /45</i>	<i>Price Points /55</i>	<i>Total Points /100</i>
Metric Civil Contractors Ltd.	\$ 2,609,870	\$ 2,609,870	37.8	55	92.8
Secure Energy	\$ 1,525,820	\$ 3,556,490	36.9	15.1	52

- 3.9 Based on the total points, Metric Civil Contractors Ltd./Sperling Hansen Associates is deemed to be the lead proponent.
- 3.10 The bid price of \$2,609,870 is higher than the original budget of \$2,235,000. The additional \$374,870 is available in the Landfill Reserve. The additional cost does not significantly affect the cost-benefit of the project, which will substantially increase the landfill airspace available for waste.

4. **RECOMMENDATION & SUBSTANTIATION:**

Recommendation:

Recommendation that Council accept the proposal for the design and construction of the “Bailey Landfill NE Wedge Liner Extension Project” from the lead proponent, Metric Civil Contractors Ltd./Sperling Hansen Associates in the amount of \$2,609,870.00 (plus applicable taxes); and further, that the Mayor and Corporate Officer be authorized to sign any necessary documentation.

Substantiation:

The NE Wedge Liner Extension is required prior to waste placement in the extension area to ensure environmental protection, and to maintain compliance with the 2020 DOCP, Operational Certificate, and Landfill Criteria.

Appendix A – Site Plan

