

RPT 21-204

TITLE: Landfill Cell Expansion - Tender Award

DATE: April 25, 2021

TO: City Council

PUBLIC: X

INCAMERA:

RECOMMENDATION:

1. That the Landfill Cell 1B, Cell 1A and Cell 2A Expansion Construction Tender be awarded to Tervita Corporation for a total cost of \$5,680,910.23, including Provincial Sales Tax.
2. That the Mayor and City Clerk be authorized to execute the agreement and any other necessary documents, on behalf of the City, once prepared
3. That expenditures of the budgeted contingencies be subject to the approval of the City Manager.

TOPIC & PURPOSE:

To award the tender for the Landfill Cell 1B, Cell 1A and Cell 2A Expansion Construction.

BACKGROUND:

The existing landfill site consists of two existing cells; Cell 1A and Cell 2A for municipal solid waste (MSW) disposal and Cell 1B for disposal of hydrocarbon impacted soil and to compost biosolids from the City's wastewater treatment plant. Cell 1A and 2A were built in 2002 and 2012 respectively and are currently both active. Cell 1B, constructed in 2015, is not currently being utilized for MSW disposal. With the current MSW disposal rate of 60,000 - 65,000 cubic meters per year, construction of a new cell is required in 2021.

The City retained the services of Tetra Tech Canada Inc. in the summer of 2020 to design a MSW disposal cell after determining that the existing MSW cells were reaching capacity and new cell construction would be required in 2021. Constructing a new Cell is a substantial

financial investment, so the Consultant in conjunction with the City designed the new Cell to include maximizing on the available airspace providing **20 years** capacity and setting the City up so the future cell expansion after 20 years to Cell 2B will have an estimated **40 years** of additional waste capacity. There were challenges with the design that had to be resolved to accomplish the 20 year design.

1. Expanding the footprint of Cell 1B to the north. This area is currently utilized as the concrete waste stockpile and in previous years, concrete waste had been spread to fill in the low lying area. The buried concrete was not included in the design estimate and could potentially cost \$250,000 to remove and replace with clean fill material. Currently equipment is relocating the concrete waste and concrete stockpile to fill in low areas where the future proposed transfer station is estimated to be built, building a new access road which will be required to access the top of the landfill as the existing access road will be taken out of use when the Cells are expanded to the south and stockpiled for future concrete crushing.
2. Expanding Cell 1A and 2A to the south and Cell 1A to the east. It has been recognized that historic operational practices had overfilled the waste over the edge of the existing waste cell liners and the existing face of the south and east cells do not meet the approved design slope of 3(H):1(V). There were two options to remedy, relocate the overburdened waste to the top of the landfill or the solution the Consultant has designed. Cells 1A and 2A will be expanded past the overburdened area providing for a larger cell footprint which will allow for additional MSW.

On January 21, 2021, the Sanitation Budget for project was approved at \$6,000,000. The Tender for the the Landfill Cell 1B, Cell 1A and Cell 2A Expansion Construction was issued on April 1, 2021 and closed on April 23, 2021.

PROPOSED APPROACH AND RATIONALE:

The tender for the Landfill Cell 1B, Cell 1A and Cell 2A Expansion Construction included a pre-qualification screening to ensure that only qualified Contractors in good standing could bid. Six contractors were prequalified and those six were required to attend a mandatory site meeting prior to submitting their bid.. The Tender closed on April 23, 2021 with five Contractors submitting qualified bids. The lowest bid and third lowest bid were within 5% of each other indicative of the quality of the tender package. The results of the Tender including PST were;

Tervita Corporation	\$5,680,910
DC Trenching Ltd.	\$5,775,442
Get Green Erosion Control Inc	\$5,983,985
BTO Contracting Ltd.	\$6,386,115
Kelsey Pipelines Ltd.	\$6,551,272

CONSULTATIONS:

To prepare the Tender documents, the City met with the Consultants to establish the scope of the project and finalize the design for the Landfill Cell 1B, Cell 1A and Cell 2A Expansion Construction. Consultation with the Ministry occurred to ensure compliance.

COMMUNICATION AND/OR ANNOUNCEMENT PLAN:

Notice of the request for pre-qualified Contractors and the tender was posted on SaskTender's website.

Upon the awarding of the Tender, the Department will forward the agreement to Clerk's Office to be signed and sealed.

FINANCIAL IMPLICATIONS:

In addition to the Tender bid documents, the City will be procuring the pumps for the project and the contractor will be responsible for their installation and the electrical components. The total project cost from Tervita Corporation, Pumps & Electrical, Engineering Services, PST, plus 5% contingency are listed below.

Tervita Corporation Bid	\$5,359,349
Engineering Services	\$327,800
Electrical & Pumps	\$250,000
PST	\$336,561
5% Contingency	\$313,686
Total Estimated Project Cost	\$6,587,395.74
2020 / 2021 Sanitation Budget	\$6,327,800.00

The Sanitation Budget from 2020 & 2021 was approved at \$6,327,800. Additional estimated budget required is **\$260,000**. The additional budget cost is due to;

1. The concrete infill material that is currently being removed and will be replaced with clean fill.
2. The estimated increase in cost for materials due to COVID-19 and the power outage storm experienced in Texas affecting the resin factories which is used in the manufacturing of poly pipe and geosynthetic liners.
3. Over the past year construction costs have become very unpredictable with some suppliers declaring Force Majeure, indicating that they are not willing to guarantee prices due to uncertainty if supply demand can be met.

OTHER CONSIDERATIONS/IMPLICATIONS:

There are no Policy, Privacy or Official Community Plan implications, or options to recommendations.

STRATEGIC PLAN:

The construction of a new Landfill Municipal Waste Disposal Cell supports the City's strategic goal of creating infrastructure that supports growth while planning for continuous improvement.

PUBLIC NOTICE:

Public Notice pursuant to the Public Notice Bylaw No. 24 of 2015 is not required.

ATTACHMENTS:

1. Landfill Site Plan

Written by: Nykol Miller, Capital Projects Manager

Approved by: Director of Public Works & City Manager