



REPORT

To: Chair and Directors

Report Number: ENV-BRD-150

From: Gerritt Lacey, Solid Waste

Date: August 17, 2023

Subject: Bessborough Landfill Phase 4A Engineering Services – Contract Increase

RECOMMENDATION: [Corporate Unweighted]

That the Regional Board increase the total value of the “Bessborough Landfill Phase 4A Cell Development” contract that was awarded to Tetra Tech Canada Inc. from the original amount of \$112,488.90 to a new total of \$162,488.90 (excluding taxes) to allow for a geotechnical investigation of the subsurface soils at the Bessborough Landfill to take place in 2023.

BACKGROUND/RATIONALE:

On May 4, 2023, the Regional Board passed the following resolution:

MOVED, SECONDED, and CARRIED

That the Regional Board award Request for Proposal 25-2023 titled “Bessborough Landfill Phase 4A Cell Development” to Tetra Tech Canada Inc. at a cost of \$112,488.90 (excluding taxes) for a two year term; further, that the Chair and Chief Administrative Officer be authorized to sign the agreement on behalf of the Peace River Regional District.

In British Columbia, specifications for the permitting and construction of landfills is outlined in the 2016 Landfill Criteria for Municipal Solid Waste (2016 Criteria) set out by the Province of BC. These specifications include thickness and permeability of subsurface soils and distance from water tables for the construction of landfill cells. While gathering the available geotechnical background information for the Bessborough Landfill, Tetra Tech has identified that the current information set for the site does not meet the requirements of the 2016 Criteria. In order to meet the requirements, a geotechnical investigation is needed to assess the soil conditions under the proposed landfill cell.

The cost of the investigation is \$50,000 and will provide the necessary soil information for both Phase 4A and 4B, so a second investigation is not required when constructing Phase 4B in approximately 5 years. Should the existing soils meet the requirements of the 2016 Criteria, they will be able to be used as is for the construction of the cell liner, if not, additional clay material may be required to be brought to the site during the construction phase. The findings of the investigation will be incorporated into the design and tender documents being created in 2023 for the construction of the cell in 2024.

ALTERNATIVE OPTIONS:

1. That the Regional Board provide further direction.

STRATEGIC PLAN RELEVANCE:

☒ Not Applicable to Strategic Plan

FINANCIAL CONSIDERATION(S):

The Bessborough Landfill Phase 4A Contract was awarded to Tetra Tech Canada at a cost of \$112,488.90 for a 2 year term. With the additional geotechnical investigation, the total cost of the contract will come to \$162,488.90.

- \$81,239.70 in 2023 for design and tendering services.
- \$81,249.20 in 2024 for construction administration services.

The Business case of the Bessborough Landfill Phase 4A Project estimated engineering costs for the project to be \$200,000, \$60,000 in 2023 and \$140,000 in 2024.

In 2023, \$60,000 was budgeted for the project. The additional cost of the geotechnical assessment will put the project \$21,239.70 over budget; however, the current Capital envelope can accommodate the additional work. Table 1 below has been included to show the budgeted versus awarded capital costs to date.

Table 1: 2023 Solid Waste Capital Program

		Budgeted	Awarded	Total Including PST	Difference
2019 CHLF – Phase B Closure	Carry Forward	\$442,000	\$325,000	\$325,000	\$117,000
2020 BBLF – Phase 3B & Leachate Construction, Phase 1B Closure	Carry Forward	\$46,100	N/A	\$46,100	-
2022 NPRLF – Phase 1 Closure (QA/QC & Construction)	Carry Forward	\$3,000	N/A	\$3,000	-
BBLF Phase 4A Engineering Services	New	\$60,000	\$81,239.70	\$81,239.70	-\$21,239.70
Compaction Trailer Purchases	New	\$1,050,000	\$988,752.00	\$1,057,964.64	-\$7,964.64
Hudson's Hope Tier 1 Upgrade	New	\$30,000	\$76,639.50	\$76,639.50	-\$46,639.50
Land Purchases Hasler Flats and Beaton River	New	\$200,000	TBD	TBD	TBD
TS Design Groundbirch, Lebel, Lone Prairie	New	\$100,000	\$137,461.25	\$137,461.25	-\$37,461.25
NPRLF Surface Water Diversion Works	New	\$285,000	TBD	TBD	TBD
TOTALS		\$2,216,100		\$1,727,459.09	\$3,967.91

*PST not applied to services such as engineering.

To date, including the proposed geotechnical assessment, the capital budget envelope for the awarded contracts is \$3,967.91 under budget.

COMMUNICATIONS CONSIDERATION(S): None at this time.

OTHER CONSIDERATION(S): None at this time.

External Links:

1. [May 4, 2023 Regional Board Meeting](#) – See Item 8.12 “Awarding RFPs 25-2023, 26-2023, and 27-2023, ENV-BRD-140