



**CHANGE ORDER APPROVAL  
RECOMMENDATION**

Meeting Date: March 30, 2023  
 Contact: Alexander Ralph  
 Contact No.: 604 829 2092

TO: Bid Committee  
 FROM: Chief Procurement Officer

**RECOMMENDATION**

Recommendation to approve a change order to an existing contract in relation to Professional Services Agreement PS20181579 - Consultant for Phase 4 Closure - Vancouver Landfill with:

Sperling Hansen Associates Inc.  
 8-1225 East Keith Road  
 North Vancouver, BC V7J 1J3

The Chief Purchasing Official recommends that the Bid Committee approve the change order to the contract, under the authority of the City’s Procurement Policy ADMIN-008.

Agreement Number:	PS20181579 - Consultant for Phase 4 Closure - Vancouver Landfill
Description of the Goods or Service:	Consulting design and construction supervision services for the Phase 4 closure project.
Recommended Vendor:	Sperling Hansen Associates Inc.
Original contract value:	\$1,598,198.00
Cumulative cost of change orders	\$1,291,219.99
Maximum contract value including current, contemplated, and future change orders	\$2,889,417.99

## **BACKGROUND**

The Landfill's Operational Certificate (OC) requires that final cover be constructed no later than one year after final placement of garbage. To achieve this timing and meet regulatory requirements, careful planning and forecasting of the fill progression is required to properly time the closure construction which requires dry summer periods. Progressive closure for each phase on completion minimizes the environmental impact of the Landfill by maximizing landfill gas capture and minimizing leachate generation from closed areas.

In March 2019, the City of Vancouver entered into an agreement with the consultant, Sperling Hansen Associates Inc., as per Request for Proposals No. PS20181579 - Consultant for Phase 4 Closure - Vancouver Landfill. Sperling Hansen Associates Inc. as the Engineer of Record, to develop the detailed design for construction.

In Fall 2019, Invitation to Tender No. PS20191496 Construction Services for the Phase 4 Closure and Gas System Upgrades (ITT) was issued by the City of Vancouver to retain a contractor to perform the construction services. The ITT was awarded to King Hoe Excavating Ltd in early 2020.

## **REASON FOR CHANGE ORDER**

The contract was awarded in 2019 and construction started in the midst of the COVID-19 Pandemic in 2020. This created a number of challenges over the course of construction and, at the City's request, design changes were needed to address the impacts on fill progression and sequencing of work in Phase 4.

During the first few months of the pandemic, overall garbage volumes reduced significantly, resulting in delays in filling the sections requiring closure. In Phase 4 South, the turnover of the area was delayed by a month, which delayed the start and ultimately the completion of construction. Waste tonnages remained low through 2020, preventing the City from turning over the full area of Phase 4 North in time to meet the requirement for 2021 summer construction. Moreover, the project schedule and overall construction progress were deeply impacted due to reduced crew sizes and their availability on site in order to accommodate new COVID-19 health and safety protocols.

Considerable redesign by the consultant was required in order to minimize the impacts of delay claims from the construction contractor and mitigate the differential settlement impact between Phase 4 North and South. The redesign split Phase 4 North into two distinct areas to create an area large enough for construction activities to progress in 2021 and to allow filling on the remaining portion of Phase 4 North to continue in time for closure in summer 2022. This split approach was economically and technically a better alternative instead of a one-year delay and would result in reduced costs to all stakeholders. Additionally, this approach allowed the City to negotiate soil disposal rates

with the contractor, which generated a \$610K credit to the City to offset the additional costs related to the schedule extension.