



**Capital Budget Request - DESIGN & CONSTRUCTION**

<b>Project Name</b>	<b>FMM Landfill Closure Cells 1,2,3, Lateral Expansion and Old Landfill</b>	<b>\$ 6,500,000</b>
<b>Order Code</b>	<b>601869</b>	<b>Project Location</b> Fort McMurray
<b>Project Category</b>	Environmental	<b>Ward</b> 1 - Fort McMurray
<b>Type of Project</b>	New Asset - Construction	<b>Municipal Function</b> 43 - Solid Waste - Coll/Disposal

**Project Description and Scope**

The old landfill began operations in 1974 and was in service into 2010. From 2010 to 2016 the landfill went through the process of installing Bioreactor (compost the landfill internally) to capture the landfill gas and potentially mining out the old landfill to remove any remaining metals, plastics and tires. In 2016 before the system could get up and running, the system sustained substantial damage. Despite the loss of most of the above ground infrastructure, about 1650 of the 1800 wells are still operational. Landfill Cells 1,2,3 and Lateral Expansion should be completely filled sometime in 2019/2020. In October 2017, InnoTech Alberta completed a report to identify several closure options for the old and new landfill cells and to evaluate the technical and economic feasibility of landfill gas mitigation. The options included for repairing the bioreactor at the old landfill, Landfill gas capture and flaring and methane biofilter. To determine the appropriate method, further analysis of the old landfill is currently underway and should be complete by the end of October 2018. Analysis of the new landfill will be completed once the lateral expansion is at capacity. This request is for the closure of cells 1, 2, 3, lateral expansion, and old landfill which would include the following: Design/Completion of final cover, erosion control, surface water drainage, leachate collection, landfill gas monitoring and control systems, decommissioning and removal of structures, and preparation of the post closure plan.

**Project Cash Flows**

Year	Total Annual Cost	Federal Grant	Provincial Grant	Reserve	Other
<b>2019 &amp; Prior</b>	-				
<b>2020</b>	6,500,000				
<b>2021</b>	-				
<b>2022</b>	-				
<b>2023</b>	-				
<b>2024</b>	-				
<b>Thereafter</b>	-				
<b>Total Budget</b>	<b>6,500,000</b>	-	-	-	-

**Additional Funding Details**

<b>Business Case created by</b>	<u>Lyndon Payne</u>
<b>Project Sponsor Branch</b>	<u>Solid Waste Services</u>
<b>Project Sponsor Department</b>	<u>Public Works</u>
<b>Project Delivery Branch</b>	<u>Solid Waste Services</u>
<b>Project Delivery Department</b>	<u>Public Works</u>