



**Capital Budget Request - DESIGN & CONSTRUCTION**

Project Name **Landfill - Storm Pond #1 Modifications** \$ **375,000**

Order Code \_\_\_\_\_ Project Location Fort McMurray

Project Category Environmental Ward 1 - Fort McMurray

Type of Project Lifecycle - Construction Municipal Function 43 - Solid Waste - Coll/Disposal

**Project Description and Scope**

Current levels of Chemical Oxygen Demand (COD) in surface water surrounding the Landfill site is almost double the landfill approval release rate of 120 mg/l from storm pond # 1. The current configuration of the storm pond does not allow for the optimum retention time. To better utilize the storm pond it is recommended that storm pond # 1 be subdivided to increase surface water contact time (to lower the COD prior to release) by using floating baffle curtains.

In addition, aeration will be required to treat the COD in the pond, improving water quality, reducing blue green algae blooms which has been a problem in 2019 and removing phosphorus, aeration can also break down unwanted bacteria, help with mosquito problems, and remove foul odors from a pond -- all by circulating the water and adding dissolved oxygen.

Aeration and floating baffle curtains will be installed when repairs to the storm pond wall are completed in 2020.

**Project Cash Flows**

Year	Total Annual Cost	Federal Grant	Provincial Grant	Reserve	Other
2019 & Prior	-				
2020	375,000				
2021	-				
2022	-				
2023	-				
2024	-				
2025	-				
Thereafter	-				
<b>Total Budget</b>	<b>375,000</b>	-	-	-	-

**Additional Funding Details**

Business Case created by Lyndon Payne

Project Sponsor Branch Solid Waste Services

Project Sponsor Department Public Works

Project Delivery Branch Engineering

Project Delivery Department Engineering Services