Project Completion Report
Job Opportunities Program
7 Mile Landfill Environmental Upgrade and Expansion (7MEUE) Project

A. Objectives of the overall project

The 7MEUE Project's objectives are as follows:

- Construct a lined expansion for the disposal of solid waste generated within the Regional District of Mount Waddington
- Construct a multi phase leachate treatment system
- Construct a cover system over retired solid waste cells to reduce the generation of leachate and Green House Gasses

The economic values of the project will be the ability of the communities with the Regional District to dispose of the solid waste generated through commercial and residential activities. Environmental values protected from the project include surface and sub-surface water quality and the reduction of gases that increase the risk of climate change.

B. JOP Investment Schedule Number and Project Number

JOP Investment Schedule Number: COTFL371051

Project Number: 1051002

C. Recipient Name and Division/MFR District/MFR Region

Regional District of Mount Waddington

North Island-Central Coast Forest District

Coast Forest Region

D. Author(s) of the Project Completion Abstract

Patrick Donaghy PEng, RFT, MSc
Operations Manager
Regional District of Mount Waddington
2044 McNeill, Box 729
Port McNeill
V0N 2R0
(250) 956-3161
Fax (250) 956-3232

E. Name of Watershed/Sub-basin, & Location

The watershed in which the landfill is located has no specific name. It lies between the Cluxewe and Keogh river systems but is independent of both with its own access to the Broughton Strait.

F. Introduction

7 Mile Landfill and Recycling Center (7MLRC) has been the regional landfill serving the communities of the Regional District of Mount Waddington since the mid 1990's. Located at the site of an old aggregate pit, the landfill is projected to serve the communities of the North Island into the later half of the 21st century. To achieve this potential of service, periodically the Regional District must make significant capital investments to develop air space for waste sequestering and to cover areas of garbage disposal no longer in use. In addition, the landfill has relied upon the downstream wetlands for mitigation of the environmental impacts of the leachate generated by the decomposition of buried solid waste.

In 2006, the Regional District initiated a Design and Operation Plan study of the landfill which eventually resulted in the design that is being currently implemented of which JOP funding is contributing to the cost of the construction. The project when complete will result in the development of a waste disposal area that will capture all resultant leachate which will then be treated to BC water quality standards prior to being released. The leachate treatment system involves a four stage system that utilizes aeration and an engineered wetland. The final component is a landfill cover system which will reduce the generation of leachate and green house gasses such as methane.

G. Description of Completed Works

The project works implemented in 2009 were the Phase 3 Expansion and the Equalization Pond. Work commenced in late July with the construction concluding in December. The area encompassed by the Expansion and the Equalization Pond were 2 Ha and 1.5 Ha respectively.

H. Suggestions for Improvement

The standards applicable to the project were based on the engineered design developed specifically for this project. The ability of the JOP program to adopt this flexibility was a key to its success.

I. Cost Summary Information

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Total Cost of Labour for Project	$247194.50
Total Number of Hours of Employment	9268.5
Total Cost of JOP Eligible Employment	$185,111.50
Total Number of JOP Eligible Hours of Employment	6760.00
Total Number of Non-JOP Eligible Hours of Employment	2508.5

J. Optional:

Photo 1: Phase 3 Expansion Excavation

Photo 2: Phase 3 Expansion with Liner and Aggregate Cover

Photo 3: Equalization Pond with Liner