

## **Appendix B**

### **Landfill Monitoring – NWS Landfill**

The Collection of Landfill Monitoring Data at the PIN-3 –  
Lady Franklin Point 2006 Report  
APPENDIX B NWS Landfill

## B.1 NWS Landfill

### ~~3.2.1~~B.1.1 Landfill Summary

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The NWS Landfill is located approximately 700 m west of the main station buildings and occupies an area of approximately 42,000 m<sup>2</sup> with a thickness of approximately 0.5 m. The NWS Landfill was previously used as a waste burn pit during the operation of the site. The landfill configuration is provided on Figure B-1. Prior to the remedial work in 2004, DCC had classified the landfill as a moderate potential environmental risk. Remediation of the landfill included the excavation of surface contaminated soils, and regrading with the placement of additional granular fill. The landfill cover comprises three distinct cells which are herein referred to as the East, Central and West Cell.

There is no monitoring instrumentation installed at this location.

### ~~3.2.2~~B.1.2 Visual Monitoring

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Based on the visual inspection, the NWS Landfill area appears to be in good condition and to function as designed. The granular cover over all cells has a relatively low profile (i.e., rises only a few meters above the surrounding natural topography at most), and the side slopes are shallow. The condition of the granular cover appears consistent with the site photos available from the previous inspection in 2005, and shows no evidence of problematic or degraded conditions.

Minor rutting, which appears to be associated with construction equipment traffic, was noted at several locations (refer to Photographs 9, 17 and 23). None of the ruts appear to warrant remediation at this time, and show no evidence of recent degradation or risk of further degradation.

An isolated area of ponded water was observed between the East and Central Cells, towards the southeast corner of the Central Cell (refer to Photograph 11). The area of ponded water appears to be an artifact of construction, and may be outside of the actual footprint of the defined cells. There is no clear evidence that the ponded water is seepage-related. The water quality was not sampled, as per DCC's instruction. The presence of the ponded water is not considered problematic.

The overall performance of the landfill is considered acceptable. There is no as-built survey data available for this landfill.

### ~~3.2.3~~B.1.3 Soil Sampling

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Soil sampling was not scheduled for the 2006 monitoring year. The next soil sampling event will be 2007.

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**Figure B-1 Main Landfill South**

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# **Appendix B Attachments**

- B1 Site Condition/Visual Inspection Records**
- B2 Geotechnical Inspection Photographic Records**
- B3 Field Notes**

# Appendix B1

## Site Condition/Visual Inspection Records

## **Appendix B2**

### **Geotechnical Inspection Photographic Records**

# Appendix B3

## Field Notes