Indian and Northern Affairs Canada
Affaires indiennes et du Nord Canada

Nunavut Regional Office
P.O. Box 2200
Iqaluit, NU, X0A 0H0

February 09, 2009

Attn: Mr. Thomas Kabloona, A/Chief Executive Officer
Nunavut Water Board
P.O. Box 119
Gjoa Haven, Nunavut
X0B 1J0

RE: Nunavut Water Board (NWB) Licence No. 1BR-ROB0813 (NWB's Required Submissions)

As per the table of required submissions on page iii of the Roberts Bay/ Ida Bay's NWB Licence # 1BR-ROB0813, please find the following documents enclosed:

1. NWB's Table of Required Submissions (with INAC's responses);
2. Modifications to final Remedial Action Plan (RAP) – highlighting some modifications made to the project since the submission of the final RAP to NWB. The modifications were effected in the Project Specifications;
3. Roberts and Ida Bay Project Specifications;
4. General Monitoring Plan (as per Part K of the Water Licence # 1BR-ROB0813);
5. Long Term Monitoring plan;
6. Abandonment and Restoration Plan;
7. Operations and Maintenance Plan for Sewage Disposal Facility;
8. Site Specific Health and Safety Plan; and
9. Tailings Freezeback Report.

Should you have any questions or require any clarifications, please contact the undersigned or the Project Manager, Dele Morakinyo at dele.morakinyo@inac-ainc.gc.ca, or by telephone at (819) 934-9224

Sincerely,

Natalie Plato, P. Eng.
Director, Contaminated Sites Program (NRO)
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Canada

Figures

Part 1 General

1.1 SECTION INCLUDES

.1 This section includes the requirements for excavating, trench backfilling and backfilling depressions as follows but not limited to:

.1 Fill trench at Ida Bay. Trench is located in the basaltic ridge west of the adit. The trench is about 1.2 metres wide, 8 to 10 metres long and 1.0 metres deep.

.2 Cover adits (two at Roberts Bay and one at Ida Bay) following collapse of roofs.

.3 Fill vent raise at Ida Bay.

.4 Remove surface debris from waste dump area prior to placing cover.

.5 Segregate hazardous and non hazardous materials.

.6 Removed non hazardous debris to be relocated to the non hazardous waste landfill facility.

.7 Cover remains of former camp waste dump containing domestic waste. Estimated area of existing dump is 310 $m^{2.}$

.8 Borrow area reclamation.

1.2 QUALITY ASSURANCE

.1 Health and Safety Requirements:

.1 Do construction occupational health and safety in accordance with Section 01 35 32 – Site Specific Health and Safety Plan.

1.3 MEASUREMENT OF PAYMENT

.1 Payment for excavating and backfilling at Roberts Bay will be made at the unit price per cu.m; tendered under item 31 23 10 -1 on the Basis of Payment form. Quantity of material excavated will be measured by truck box measurement where applicable. Engineer and contractor to determine most effective method of measurement for other methods of measurement. Price to include all labour, equipment, and materials necessary to excavate waste rock and place at the locations indicated.

.2 Payment for excavating and backfilling at Ida Bay will be made at the unit price per cu.m; tendered under item 31 23 10 -2 on the Basis of Payment form. Quantity of material excavated will be measured by truck box measurement where applicable. Engineer and contractor to determine most effective method of measurement for other methods of measurement. Price to include all labour, equipment, and materials necessary to excavate waste rock and place at the locations indicated.

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.3 Except as otherwise indicated herein, work under this section will not be measured. Include all costs in Item BOPC-1, Balance of Project Costs in the Basis of Payment Schedule. Indicate the cost of this work as a separate line item in the cost breakdown specified in Section 01 32 19 - Project Management and Construction Schedule.

Part 2 Products

2.1 MATERIALS

.1 Type 1 Granular Fill: Waste rock, obtained from the Robert's Bay and Ida Bay stockpiles.

.2 Type 2 Granular Fill: Sand / Sand and Gravel, obtained from the Robert's Bay borrow areas.

Part 3 Execution

3.1 SITE PREPARATION

.1 Remove obstructions, ice, and snow, from surfaces to be excavated within limits indicated.

3.2 BACKFILLING

.1 Do not proceed with backfilling operations until Engineer has inspected and approved installations.

.2 Areas to be backfilled to be free from debris, snow, ice, water, and frozen ground.

.3 Do not use backfill material which is frozen or contains ice, snow, or debris, with the exception of waste rock that may be used to meet the requirements of this specification at Ida Bay.

.4 Backfill trench at Ida Bay using Type 1 Granular Fill (waste rock).

.5 Backfill trench in one lift. Compact to 95% of maximum dry density

.6 Backfill depressions over collapsed adits and vent raise. Backfill in layers not exceeding (1) metre. Place final lift to a thickness of 500 mm. Compact to 95% of maximum dry density.

.7 Thickness of cover over the adits and vent raise will be determined by surrounding topography. Fill to a height of 1 m above surrounding ground.

.8 Regrade existing camp dump at Roberts Bay to a minimum slope of 20:1 and to blend into the surrounding topography.

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.9 Place Type 1 Granular Fill (waste rock) cover over the regraded existing camp waste landill at Roberts Bay to a minimum thickness of 1 metre. Place and compact in 300 mm maximum lift thicknesses.

.10 Type 1 and Type 2 Granular Fill to be compacted to a minimum of 95% of maximum dry density in accordance with ASTM 698 or as determined from a control strip density. The method for determining the maximum dry density will be established by the Engineer. Provide all equipment and resources necessary to carry out a control density test upon request.

.11 Place a 0.5 metre thickness of waste rock cover over the concrete cap at Roberts Bay.

.12 Control Strip Density:

.1 A control strip is a lift of granular material placed over a minimum of 300 m^2 area that requires regrading.

.2 To determine the Control Strip Density, moisture and density readings is to be taken by the Engineer during the compaction process until a maximum dry density is attained.

.3 The density and moisture content of the Control Strip is to be measured by the Engineer after each pass of the compaction equipment to determine the type of equipment and number of passes required to obtain the specified density.

.4 A new Control Strip will be required if, as established by the Engineer, the materials type, moisture content, or subgrade of the area to be regraded is significantly different that that of the Control Strip.

.5 Proof-roll areas compacted in accordance with the Control Strip Density upon completion of grading and compaction or as requested by the Engineer.

.6 Use a fully loaded tandem axle gravel truck for the proof-rolling operation. The speed of the vehicle is not to exceed 4 km per hour during proof-rolling. The Engineer may authorize the use of alternate proof-rolling equipment.

.7 Make sufficient passes with the proof-rolling equipment to subject every point on the surface to three separate passes of a loaded tire.

.8 Where proof-rolling reveals areas of defective granular fill, remove and recompact the granular fill, and modify the compaction process, as required.

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.9 The Contol Strip Density method for compaction is not intended to relax the specified compaction requirements, but to reduce compaction testing requirements.

3.3 BORROW AREA RECLAMATION

.1 Leave borrow areas in a tidy, well drained condition, free of standing surface water to satisfaction of the Engineer.

.2 Regrade borrow areas as directed by the Engineer.

END OF SECTION

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