

## DAILY REPORT #93 – DORIS NORTH INFRASTRUCTURE/ NORTH DAM

Prepared by:	Lawrence Borowski Iozsef Miskolczi	Date:	2012.04.07
Reviewed by:		Project #:	1CH008.058.0320
Role	Company	Personnel – Position	On Site
Client	Hope Bay Mining Limited (HBML)	Angela Holzapfel – ESR Compliance Manager David Vokey – ESR Coordinator Dean Wold - Safety Jill Turk – ESR Coordinator Katsky Venter – ESR Manger Michelle Tanquay – ESR Site Manager Stirling Kelly – HSLP Advisor	No Yes Yes No No Yes No
	JDS	Doug Fielding – Construction Manager Ishan Fechter – Construction Coordinator Jerry Graham – Construction Manager Mark Valeriote – Construction Manager Calvin Goldschmidt – Construction Coordinator	No Yes Yes Yes No
Engineering Design Consultants	SRK Consulting (Canada) Inc.	Megan Miller – Site Engineer Lawrence Borowski – Site Engineer Iozsef Miskolczi – Site Engineer	No Yes Yes
Earthworks Contractor	Nuna Logistics	Benny Vostermans – Foreman (Day Shift) Doug Haverland – Area Superintendent Gary Sodhi – Field Engineer Georges Cornelissen – Survey Manager Jeff Roberts - Surveyor Jim Cardinal – Foreman Jordan Gunter – Foreman (Day Shift) Kyle Kuntz – Project Engineer Margaret Caley – Surveyor Mike MacMaster – Surveyor Mike Price – Field Engineer Rick Peter – Foreman (Night Shift) Simon Chipper – Civil Supervisor Trevor Sorken – Superintendent	Yes Yes Yes No Yes No No Yes No No No Yes No No
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## WEATHER (ROBERTS BAY)

<http://www.wunderground.com/weatherstation/WXDailyHistory.asp?ID=INUNAVUT3>

Temperature/Wind Chill (°C)	6AM:-21/-31	12PM: -18/-27	6 PM: -18/-27	12 AM:-21/-31
Precipitation (mm)	<b>Rain:</b> None		<b>Snow:</b> None	
Conditions	<b>Day Shift:</b> Clear, moderate wind, very cold		<b>Night Shift:</b> N/A.	
Daily norms (°C)	24 hour high: -16.6		24 hour low:-21.5	

## HEALTH, SAFETY AND ENVIRONMENT

- A red fox was seen west of Quarry D on the tundra.

## COMMENTS, CORRESPONDENCE AND ACTIVITIES

### DAILY MEETING WITH NUNA AND HBML TEAM:

- The daily meeting was attended by Nuna [Doug Haverland, Gary Sodhi], ESR [Michelle Tanquay], HBML [Dean Wold], JDS [Jerry Graham, Mark Valeriote, Ishan Fechter], SRK [Lawrence Borowski, Iozsef Miskolczi]

Topic	Status
Health and Safety and Environment	<ul style="list-style-type: none"> <li>HSLP reported an incident resulting with a sprained toe.</li> <li>There was a short power outage last night and again this morning. Both were caused by faulty sensors.</li> <li>ESR enquired when their lab could be moved and connected to power and internet.</li> </ul>
North Dam	<ul style="list-style-type: none"> <li>ROQ was hauled to the dam during the day, and spread with the D6 dozer.</li> <li>Night shift hauled and placed transition material to fill low areas.</li> <li>There was no compaction on material that was placed and there is a need for grading on slopes.</li> </ul>
Water Management Structures	<ul style="list-style-type: none"> <li>No activity during the day shift.</li> <li>Night shift loaded and hauled snow. The hauled snow was not from the key trench. It was from the south face of the berm.</li> </ul>
General	<ul style="list-style-type: none"> <li>Nuna is planning to continue with the relocation of the core boxes at Windy today</li> <li>Trenches were excavated for the two thermistors at bridge 4. Nuna plans to start drilling this morning.</li> <li>Some discussion on the inverts of the culverts at the pollution pond. Surveys last November indicated that they were low. At the time installing elbows to bring them up to grade was discussed. Survey to check elevations.</li> <li>Some discussion on the diversion berm required at south end of the Roberts Bay Tank farm. Site to be inspected this afternoon.</li> </ul>

### SURVEY:

Required	<ul style="list-style-type: none"> <li>Dam crush over south thermosyphons pipes where they extend to the radiator (after compaction is complete)</li> <li>Diversion Berm material as placed</li> <li>Dam final ROQ</li> <li>Bridge#4 thermistor cable locations</li> </ul>
Data Received	<ul style="list-style-type: none"> <li>Final as-built for crush, HDPE liner, and bentonite placement</li> </ul>
Outstanding	<ul style="list-style-type: none"> <li>None</li> </ul>
Upcoming	<ul style="list-style-type: none"> <li>Bridges and Pollution/Sedimentation Ponds thermistor cable locations</li> <li>RBTF diversion berm as-built</li> </ul>

### NORTH DAM/FROZEN CORE PLANT PAD:

#### Multi-bead Thermistors

- No activity.

#### Dam Shell

- An inspection of works completed on April 6<sup>th</sup> revealed that the section between station 0+20 and 0+40 is still low, by amounts up to 0.5m at the extreme south end.
- The 10 ton packer worked on the ROQ placed yesterday and the transition material placed during night shift.
- No activity on side slopes between Sta 0+20 and 0+40.

#### **DORIS NORTH DIVERSION BERM:**

- Snow clearing on the south face of the berm was completed during the day shift. This will permit backsloping on the berm to commence.
- Snow clearing from the key trench commenced about mid afternoon. Approx. 100 meters were cleared from Sta 4+50 to Sta 5+50. Section was approved for placing final ROQ..

#### **SUMPS:**

- No activity.

#### **QUARRY #2**

- Loader was sorting good quality ROQ from the quarry face.
- Core fine material hauled to Bridge#4 for use backfilling thermistor trenches.

#### **GENERAL:**

- Cable trenches at the two abutments of Bridge #4 were excavated April 6<sup>th</sup>.
- Thermistor SRK-DWB5 located at the south end of Bridge#4 was the 1<sup>st</sup> thermistor installed today. Installation was as follows:
  - Hole was drilled to a depth of 10 meters below the bottom of the cable trench.
  - Hole was measured. The cable was then measured, and marked at the 9.4 m mark. This was the distance from bottom of the cable trench to the lowest bead.
  - A piece of rebar was strapped to the end of the thermistor cable and the cable lowered. The hole was then backfilled with fine core material.
  - A bedding lift of fine core material was placed in the cable trench, and packed with the bucket.
  - The thermistor cable was wrapped with geotextile and placed in the cable trench. Location was surveyed.
  - The final backfill of the cable trench consisted of a layer of fine core material followed by a thin layer (~0.15m) of select ROQ, capped with fine core material.
  - Each layer was surveyed, and compacted with the bucket.
  - Final compaction by mechanical methods will be done at a later time.
  - Termination in a junction box will be undertaken at a later date.
- Thermistor SRK-DWB4 located at the north end of Bridge#4 was installed following the same procedure as thermistor SRK-DWB5.
- Diversion berm location at the Roberts Bay tank farm was inspected by JDS [Jerry Graham], Nuna [Doug Haverland and Gary Sodhi] and SRK [Iozsef Miskolczi and Lawrence Borowski]. While a general concept of the solution was discussed the presence of deep snow in the area made it difficult to arrive at any definitive conclusions.
- Tests on the thermosyphons were started. Thermosyphons 4,5 and 6 were selected. Single bead thermistors were fastened to the pipes and wrapped with insulation. These thermosyphons and the remaining nine will be tested tomorrow.

**PHOTOS:**



**Photo 1:** Progress photo of North Dam facing north. Photo shows ROQ placed April 6<sup>th</sup>. 10 ton packer is starting to pack.



**Photo 2:** Downstream slope between Sta 0+20 and 0+40 still needs to be graded and packed.





**Photo 3:** Snow was cleared from the south side of the North Diversion Berm from ~ Sta 1+50 to Sta 5+50



**Photo 4:** Snow cleared from ~ Sta 4+50 to Sta 5+50. Section approved for second lift ROQ.





**Photo 5:** Drilling for thermister SRK –DWB5



**Photo 6:** Bedding for cables...core material



**Photo 7:** Backfilling hole.



**Photo 8:** Wrapping cable with geotextile.



**Photo 9:** Testing thermosyphons 4,5 and 6