

DAILY REPORT #56 – DORIS NORTH INFRASTRUCTURE/ NORTH DAM

Prepared by:	Iozsef Miskolczi Lawrence Borowski	Date:	2012.03.01
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 Don Ethelston – HSLP Advisor Dean Wold - Safety Jill Turk – ESR Coordinator Katsky Venter – ESR Manger Michelle Tanquay – ESR Site Manager Stirling Kelly – HSLP Advisor	No Yes Out In No Yes Yes No
	JDS	Lloyd Jackson – Mechanical Superintendent Doug Fielding – Construction Manager Ishan Fechter – Construction Coordinator Jerry Graham – Construction Manager Kevin Whieldon – Project Coordinator Mark Valeriotte – Construction Manager	Yes Out No In Yes Yes
Engineering Design Consultants	SRK Consulting (Canada) Inc.	John Kurylo – Site Engineer Megan Miller – Site Engineer Lawrence Borowski – Site Engineer Murray McGregor – Site Engineer Iozsef Miskolczi – Site Engineer Lowell Wade – Senior Engineer	No No Yes No Yes Out
	EBA Engineering Consultants Ltd.	Jeff Orr – Project Manager Jennifer Stirling – Geologist Thomas Bradshaw – Junior Engineer Ernest Palczewski – Geologist	Yes In Out No
Earthworks Contractor	Nuna Logistics	Bradford Watkin – QC Manager Doug Haverland – Area Superintendent Gary Sodhi – Field Engineer Georges Cornelissen – Survey Manager Jeff Roberts - Surveyor Jim Cardinal – Foreman Jordan Gunter – Foreman Kevin Oakes – Project Engineer Kevin Kozdrowski – Foreman (Night shift) Kyle Kuntz – Project Engineer Margaret Caley – Surveyor Matt McKay – Civil Supervisor Mike MacMaster – Surveyor Mike Price – Field Engineer Nick Stoneberger – Superintendent Rick Peter – Foreman (Day shift) Ron MacMaster – Surveyor Simon Chipper – Civil Supervisor	No No In Out In Out Out No In No Out In Yes Yes Yes In In No
External Distribution List:	SRK: Maritz Rykaart, Lowell Wade, Seema Kang, Silkie Wong EBA: Robert Zschuppe Nuna: Chris Petrovic JDS: Bob Prince-Wright, Calvin Goldschmidt HBML: Dave Power, Gerry Benson		
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those external parties.

WEATHER (ROBERTS BAY)

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

Temperature/Wind Chill (°C)	6AM:-33/-48	12PM:-33/-51	6 PM: -32/-45	12 AM: -35/-46
Precipitation (mm)	Rain: None		Snow: None	
Conditions	Day Shift: Clear, windy, very cold		Night Shift: Clear sky. Moderate wind.	
Daily norms (°C)	24 hour high: -32		24 hour low: -36	

HEALTH, SAFETY AND ENVIRONMENT

- Iozsef Miskolczi attended the daily tool box meeting.

COMMENTS, CORRESPONDENCE AND ACTIVITIES

DAILY MEETING WITH NUNA AND HBML TEAM:

- The daily meeting was attended by HBML [Katsky Venter], Newmont [Don Ethelston], JDS [Doug Fielding, Kevin Whieldon, Mark Valeriotte, Lloyd Jackson]; Nuna [Nick Stoneberger] and SRK [Lowell Wade, Lawrence Borowski,]

Topic	Status
Health and Safety and Environment	<ul style="list-style-type: none"> • Safety: No incidents to report • ESR: No incidents to report.
North Dam	<ul style="list-style-type: none"> • Under adverse weather conditions good progress was made at the north dam yesterday. Covered area between Sta 70 and Sta 115. • 23 loads were placed during the day shift. • Four loads were placed at the north end. One load was rejected (no saturation). A second load was removed to get access to the first load. • Some 6" material hauled during the night shift. • Crushing is complete for now.
Water Management Structures	<ul style="list-style-type: none"> • Sumps were installed. • 5/8" clear material placed around sump #2. • Tarps were placed over both sumps. • Layfield completed destructive testing. • Layfield leaving the site today and will return Monday. • Little progress at the berm due to weather conditions (snow drifting into the key trench)
General	<ul style="list-style-type: none"> • Drilling at quarry 2 to continue. • Shift change today.

SURVEY:

Required	•
Data Received	<ul style="list-style-type: none"> • Survey of frozen core materials (Rec'd Feb 28th) • Frozen core volumes (Rec'd Feb 29th) • QC cross sections at North dam (Rec'd Feb 29th.) • Sump 1 and sump 2 survey data (Rec'd Feb 29th) • Survey frozen core placed (Rec'd Mar 01) • Frozen core volumes (Mar 01) • Planning map of lifts (Mar 01)
Outstanding	•

Upcoming

- Survey of FCM after placement (ongoing).
- Survey of Doris North Diversion berm (ongoing).

NORTH DAM/FROZEN CORE PLANT PAD:**Multi-Bead Thermistors**

- No activity

Frozen Core Plant*Dayshift*

- Plant operated for a short period in the morning prior to plane time.

Nightshift

- Core material was produced starting at midnight.
- The moisture was set to 54 at the beginning, but upon visual inspection the finished product was found to be too dry. Moisture content was increased in three steps by about 0.5 units each time. After the first two loads were placed the moisture was further increased by another 0.5 units. The final moisture setting was 56.5.
- The temperature of the material off the chute was around 36 degrees and continually increased to just over 40 degrees.
- The plant was shut down around 3 AM.

Dam Shell*Dayshift*

- No activity.

Nightshift

- ROQ hauled into place during dayshift was spread out and compacted from Sta. 0+40 to Sta 0+85.
- Transition material and ROQ were placed downstream of the core, from Sta. 0+85 to Sta. 0+97. The ROQ was excavated from the stockpile on the upstream side of the dam. A few clumps of snow were observed in the ROQ.
- Some snow was removed on the upstream side of the core near the south end of the dam.

Key Trench/ Central Core*Dayshift*

- Two loads of FCM placed in a dip at ~ Sta 68.
- Compaction tests and saturation met specifications.
- Single bead thermistors monitored

Nightshift

- A lift of variable thickness (about 500 mm max.) was placed along the upstream edge of the frozen core, from Sta. 1+30 to Sta. 1+75. The material was first placed at angle of repose and compacted. Subsequently the upstream slope was cut back to approximately 2.5H:1V. the final slope was finished by manual labor to match the design slope.
- The initial density testing showed approx. 85% compaction and 12% moisture content. Following four passes with the vibratory compactor the compaction increased to 90% Proctor, and the moisture increased to 12.9%.
- A sheen of water was noted developing on the surface following vibratory compaction. Although the material felt quite elastic while walking on the surface, no pooling of water on the surface was observed, neither was discharge of excess water at the base of the new lift.
- While compacting the last loads of placed material the compactor turned 180 degrees to compact the last corner, but backed up onto the already compacted and partially frozen area, leaving distinct tire marks on the core surface and causing the frozen crust to break up. Removal of the broken material is

required. The matter was discussed with the foremen (both the dayshift and the nightshift foreman were present) who advised that it is easier to remove and smooth over the broken portion after the material is completely frozen.

- Single bead thermistors were monitored throughout the nightshift. No freeze-back occurred on the material placed on Feb. 29 dayshift in the inflection point.

Field Geotechnical Testing, Laboratory and Sampling

SINGLE BEAD THERMISTOR STATUS

Installed Today			Active			Destroyed / Abandoned		
ID	Station	U/S, D/S, CL	ID	Station	U/S, D/S, CL	ID	Station	U/S, D/S, CL
SB4	1+45	U/S	SB30	0+85	CL			
			SB16	1+25	D/S			

- A summary of today's material testing progress is presented in the tables below.

PARTICLE SIZE DISTRIBUTION SUMMARY

Collected	Testing In Progress	Completed
HB12-CR-CORE-PSD62-QA-20120301	HB12-CR-CORE-PSD62-QA-20120301	HB12-CR-CORE-PSD60-QA-20120229
		HB12-CR-CORE-PSD61-QA-20120229

MOISTURE CONTENT SUMMARY

Collected	Testing In Progress	Completed
HB12-FCP-CORE-MC237-QA-20120301		HB12-FCP-CORE-MC237-QA-20120301
HB12-ND-CORE-MC238-QA-20120301		HB12-ND-CORE-MC238-QA-20120301
HB12-FCP-CORE-MC239-QA-20120301		HB12-FCP-CORE-MC239-QA-20120301
HB12-ND-CORE-MC240-QA-20120301		HB12-ND-CORE-MC240-QA-20120301
HB12-ND-CORE-MC241-QA-20120301		HB12-ND-CORE-MC241-QA-20120301

DRILLED CORE

Collected	Testing In Progress	Completed
None	None	None

DORIS NORTH DIVERSION BERM:

- Drill continued to drill high spots that were identified in the key trench.
- Excavators continue shaping the slopes
- Crush hauled and placed to construct working platform starting at Sta 0+580 working east.
- Labourers started cleaning snow in the key trench.

DORIS SUMPS:

- No activity: sumps are covered with tarps

QUARRY #2:

- Crushing complete for now.
- One drill working.

GENERAL:

- Used glycols moved to waste management for disposal.
- Today was shift change. Crew sizes were reduced.

PHOTOS:



Photo 1: Key trench from point 3 facing north east in mid afternoon. The only work being done was some cleanup at the NE corner.



Photo 2: Key trench facing SW. No work being done. Mid morning photo.



Photo 3: Sump 1 with tarp.



Photo 4: Sump 2 with tarp.



Photo 5: Start of modifications to the surface of the berm to permit equipment access. Sta. 580



Photo 6: Labourers removing snow in key trench.



Photo 7: Drill working in key trench



Photo 8: Removing snow from the south end of the dam, on the upstream side.



Photo 9: Worker cleaning the frozen core in preparation for placement on night shift.



Photo 10: Excavator placing ROQ around Sta. 1+90, downstream of the core.

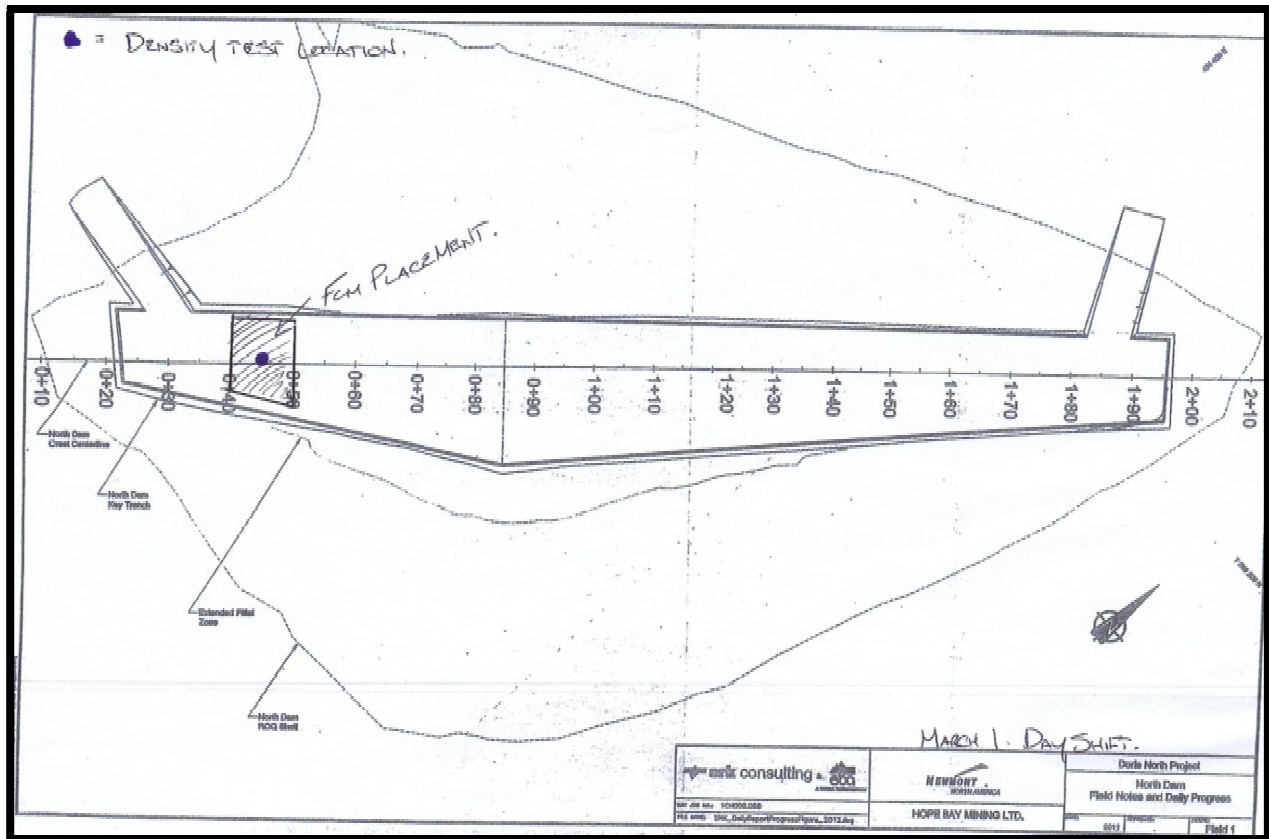
FIGURES:

Figure 1 – North Dam Progress – Dayshift

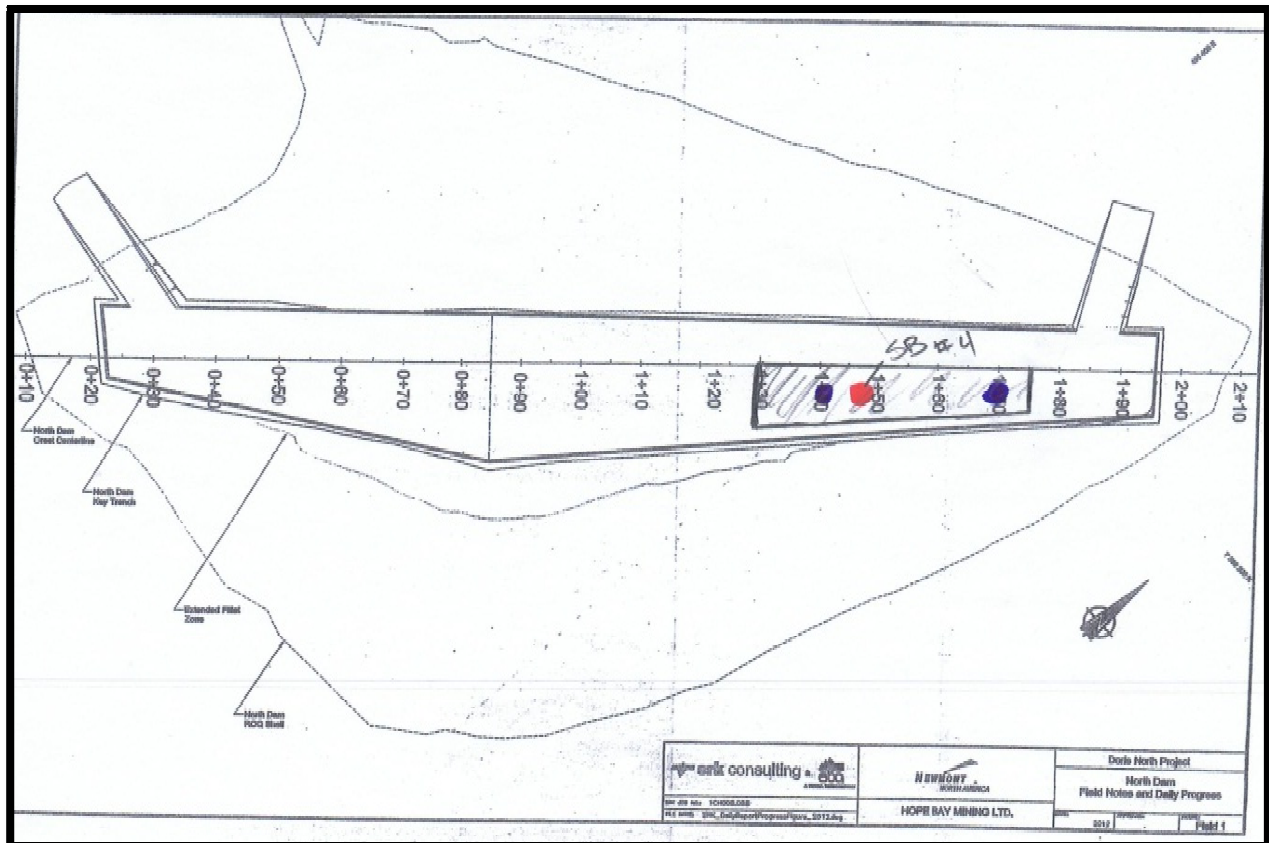


Figure 2 – North Dam Progress – Nightshift