

DAILY REPORT #50 – DORIS NORTH INFRASTRUCTURE/ NORTH DAM

Prepared by:	Murray McGregor Iozsef Miskolczi Lawrence Borowski	Date:	2012.02.24
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 No Yes No No No Yes No
	JDS	Lloyd Jackson – Mechanical Superintendent Doug Fielding – Construction Manager Ishan Fechter – Construction Coordinator Jerry Graham – Construction Manager Kevin Whieldon – Project Coordinator Mark Valeriote – Construction Manager	Yes Yes No No Yes No
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	No No Yes Yes Yes
	EBA Engineering Consultants Ltd.	Jeff Orr – Project Manager Jennifer Stirling – Geologist Thomas Bradshaw – Junior Engineer Ernest Palczewski – Geologist	Yes No Yes 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 Kyle Kuntz – Project Engineer Margaret Caley – Surveyor Matt McKay – Civil Supervisor Mike MacMaster – Surveyor Mike Price – Field Engineer Nick Stoneberger – Superintendent Rick Peter – Foreman Ron MacMaster – Surveyor Simon Chipper – Civil Supervisor	No No No Yes No Yes Yes No No No No Yes Yes Yes Yes Yes No No 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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WEATHER (ROBERTS BAY)

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

Temperature/Wind Chill (°C)	6AM: n/a	12PM: n/a	6 PM: -33/-41	12 AM:-33/-46
Precipitation (mm)	Rain: None		Snow: None	
Conditions	Day Shift: Clear, calm and cold.		Night Shift: Cold. Clear sky. Calm to moderate wind.	
Daily norms (°C)	24 hour high: -31.8*		24 hour low: -33.7*	

*The local weather station was down for most of the day. High/Low temperatures are based on data between 4:30 PM and midnight.

HEALTH, SAFETY AND ENVIRONMENT

- Iozsef Miskolczi and Thomas Bradshaw attended the daily toolbox meeting.

COMMENTS, CORRESPONDENCE AND ACTIVITIES**DAILY MEETING WITH NUNA AND HBML TEAM:**

- The daily meeting was attended by Williams Wireless, Newmont [Don Ethelston], JDS [Doug Fielding, Kevin Whieldon] Nuna [Nick Stoneberger] and SRK [Murray McGregor, Lawrence Borowski, Jeff Orr]

Topic	Status
Health and Safety and Environment	<ul style="list-style-type: none"> • A minor discussion was held to inform the HSLP cross shift about the seacan hand smash incidents. • No ESR representative.
North Dam	<ul style="list-style-type: none"> • SRK reported freeze-back across the entire dam • SRK requests that the center be completed first in the event there are mechanical issues with machinery or the plant; Nuna confirms that they plan to start in the center of the dam. • Nuna will possibly look at GCL repairs in the next day or two. • Nuna expects there will be a hot shift tonight due to the surface available for placement.
Water Management Structures	<ul style="list-style-type: none"> • Nuna stated that the sump 1 excavation is nearly completed; sump 2 is ready to go in, but Nuna plans to wait until more work-force is available to install it. • Nuna inquired about the Jetty thermistor progress since last rotation; SRK stated it has not been installed.
General	<ul style="list-style-type: none"> • JDs inquired how long the crusher will operate; Nuna stated there is roughly 2 ½ weeks of crushing to be done. • JDS inquired about care and maintenance stockpiles; Nuna stated there should be over 10,000 cubes of ¾ crush at the end of first quarter construction. • SRK stated their vehicle has been down for over 24 hours; Nuna offered one of either truck 17 or truck 31 for today.

SURVEY:

Required	<ul style="list-style-type: none"> • As-built survey of Transition placed Feb 23, 2012 • As-built survey of FCM placed Feb 24, 2012
Data Received	•
Outstanding	•
Upcoming	<ul style="list-style-type: none"> • 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*

- Frozen core plant started up at 12:00, material was ready for placement within 10 minutes.
- The burner angle was changed to reduce the temperature after start-up; average chute temperature was 32°C.
- Extra water was added briefly at 14:00, and then reset to original settings after field assessment.

Nightshift

- Hot shift change between the dayshift and nightshift crews.
- The plant continued working from dayshift until about 7PM when the CAT 330 excavator stopped working due to mechanical problems.
- Maintenance and cleanup in the plant was carried out while the excavator was being fixed.
- Crushed core material was hauled and stockpiled at the FCP.

Dam Shell*Dayshift*

- No activity.

Nightshift

- ROQ was reshaped to create a flat surface, flush with the existing frozen core. The new surface was shaped with the Cat 345 excavator and compacted.
- A few loads of Transition material were placed near Sta. 0+60 to fill in a low spot.

Key Trench/ Central Core*Dayshift*

- Placement started from 1+30 upstream, and then fanned out over the entire dam to 0+80.
- Some placement was thicker than the optimal 250mm.
- One single bead was added at 0+85 chainage.
- Minor bleeding was observed on most of the FCM placed.

Nightshift

- Core placement continued from dayshift, with a hot shift change. Core placement stopped around 7PM when the CAT 330 excavator broke down on the placement area. Mechanics were working on disengaging the drive cogs to move the excavator off the frozen core, but by the end of the nightshift the excavator was still parked in the same spot. No further placements occurred on nightshift.
- The extreme south end of the key-trench was cleared of snow and the excess 5/8 was excavated to the edge of the liner. Spot checks of the elevation were done by the surveyor and SRK and it was found that essentially all the 5/8 crush was removed. The area was approved for dental cleaning before core placement.

Field Geotechnical Testing, Laboratory and Sampling**SINGLE BEAD THERMISTOR STATUS**

Installed Today			Active			Destroyed / Abandoned		
ID	Station	US/DS/Center	ID	Station	US/DS/Center	ID	Station	US/DS/Center
SB17	0+90	CL				SB23	0+83	CL
						SB21	1+60	CL

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

PARTICLE SIZE DISTRIBUTION SUMMARY

Collected	Testing In Progress	Completed
HB12-ND-CORE-PSD51-QA-20120224	HB12-CR-CORE-PSD53-QA-20120224	HB12-ND-CORE-PSD51-QA-20120224
HB12-CR-CORE-PSD52-QA-20120224		HB12-CR-CORE-PSD52-QA-20120224
HB12-CR-CORE-PSD53-QA-20120224		

MOISTURE CONTENT SUMMARY

Collected	Testing In Progress	Completed
HB12-FCP-CORE-MC194-20120224		HB12-FCP-CORE-MC194-20120224
HB12-ND-CORE-MC195-20120224		HB12-ND-CORE-MC195-20120224
HB12-ND-CORE-MC196-20120224		HB12-ND-CORE-MC196-20120224
HB12-FCP-CORE-MC197-20120224		HB12-FCP-CORE-MC197-20120224
HB12-ND-CORE-MC198-20120224		HB12-ND-CORE-MC198-20120224
HB12-ND-CORE-MC199-20120224		HB12-ND-CORE-MC199-20120224
HB12-FCP-CORE-MC200-20120224		HB12-FCP-CORE-MC200-20120224
HB12-FCP-CORE-MC201-20120224		HB12-FCP-CORE-MC201-20120224
HB12-ND-CORE-MC202-20120224		HB12-ND-CORE-MC202-20120224
HB12-ND-CORE-MC203-20120224		HB12-ND-CORE-MC203-20120224

DRILLED CORE

Collected	Testing In Progress	Completed
HB12-ND-CORE-DC52-20120224		HB12-ND-CORE-DC50-20120223
HB12-ND-CORE-DC53-20120224		HB12-ND-CORE-DC51-20120223
		HB12-ND-CORE-DC52-20120224
		HB12-ND-CORE-DC53-20120224

DORIS NORTH DIVERSION BERM:

- Cat 325 excavator continued burying the lower geotextile with 100mm minimum crush.
- More bentonite was added in the key-trench after survey picked up the as-built of the key-trench.
- Layfield placed roughly 100 meters of HDPE and fusion welded all overlaps; destruction tests were completed every 150m.
- Survey continued to pick up as-builts for liner, crush, key-trench and bentonite fill.

DORIS SUMPS:

- Cat 308 excavator finished final touches of the excavation at Sump #1; survey picked up the final as-built.

QUARRY #2:

- Crusher continued re-crushing $\frac{3}{4}$ inch into new FCM; one sample was taken by the dayshift crusher operator.
- Crusher ran all nightshift. One sample was collected from the belt for PSD analysis.

GENERAL:

- Building of the snow road across Doris Lake continues to be built using a Snow Cat and water truck. Snow was hauled from the ice airstrip to the tundra portion of the road, near the dam.
- The generator used for core drilling is leaking fuel. Repairs are necessary before it can be used again.

PHOTOS:



Photo 1: Progress photo of North Dam from photo point 1. ~SSE view



Photo 2: Progress photo of North Dam from photo point 2. ~NW view



Photo 3: Progress photo of North Dam from photo point 3. ~NE view



Photo 4: Daily progress photo of Sump #1.



Photo 5: Daily progress photo of Sump #2.



Photos 6: SRK and EBA drilling cores at the dam.



Photos 7&8: Drill core ND-CORE-DC52-20120224 and drill core ND-CORE-DC53-20120224 respectively.

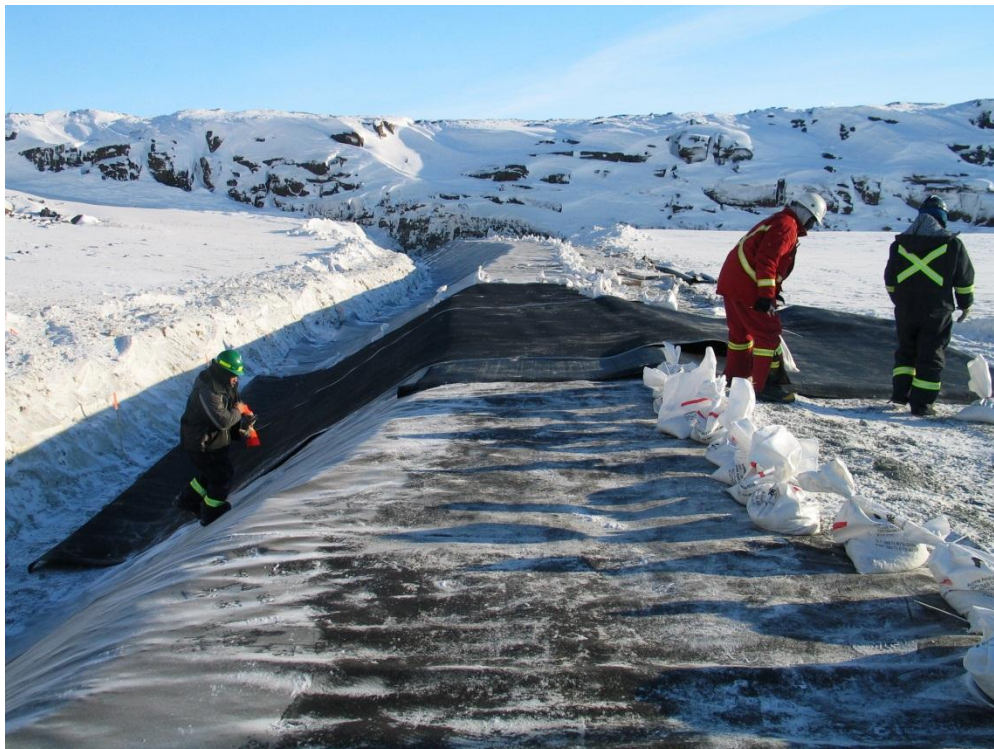


Photo 9: Layfield installing HDPE liner at the Doris North Diversion Berm.



Photo 10: Today's frozen core placement. A sheen was consistently present on the surface. Steam caused poor visibility from the excavator cab.

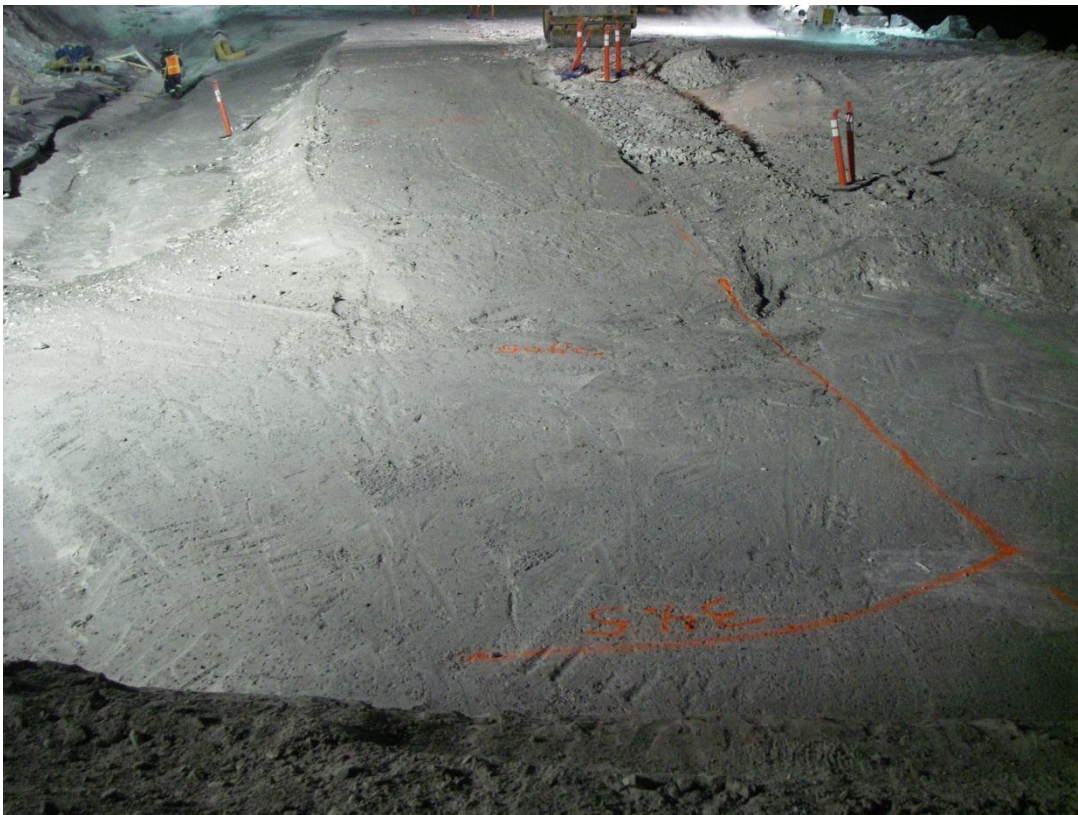


Photo 11: Photo of the north-east end of the frozen core. The surveyor marked up the current elevation of the core (34.5 m).



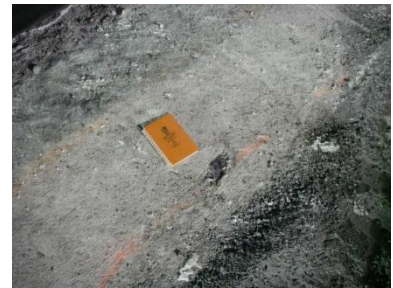
Photo 12: Photo of the southern extent of the frozen core placed on dayshift. The CAT 330 excavator broke down in the work area and could not be moved.



a)



b)

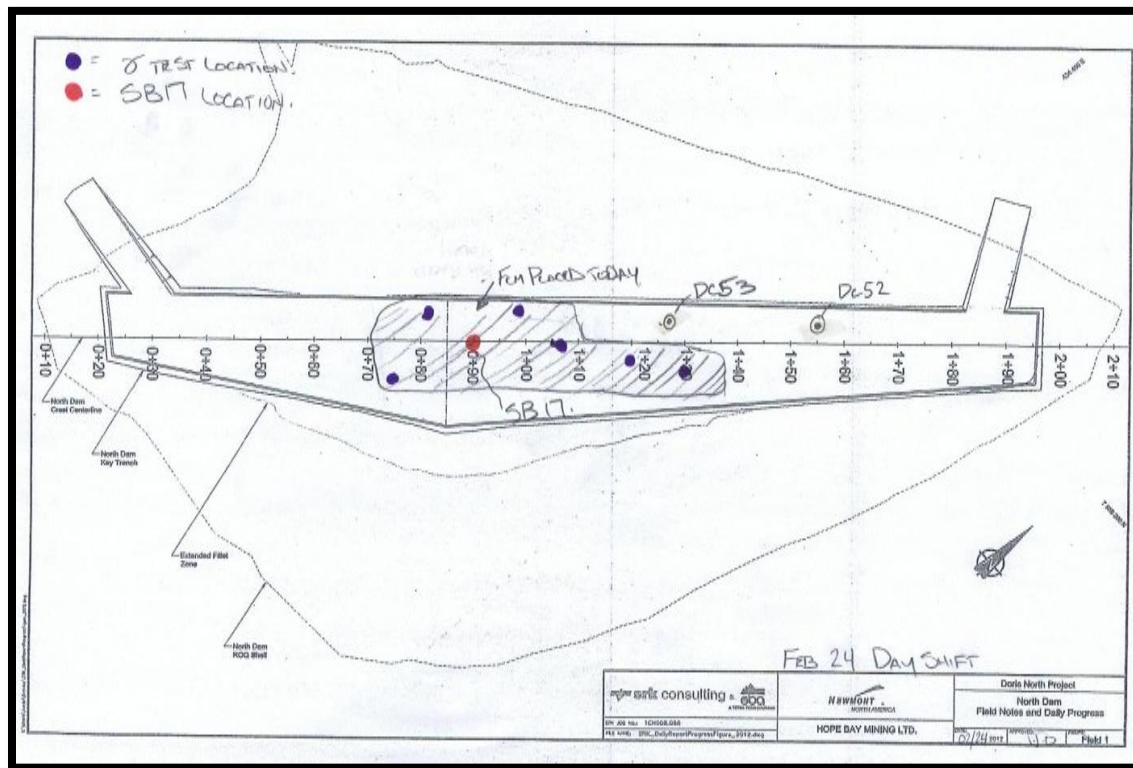


c)

Photo 13: Examples of tears in the GCL liner between Sta. 1+50 and 1+85. Note the field book (12 cm x18 cm) for size reference.



Photo 9: Workers cleaning the frozen core and the GCL liner near Sta. 1+40. Photo looking north from Sta. 1+00.

FIGURES:**Figure 1 – North Dam Progress – Dayshift****Figure 2 – North Dam Progress – Nightshift**