

DAILY REPORT #47 – DORIS NORTH INFRASTRUCTURE/ NORTH DAM

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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 No No Yes 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 Yes No No 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	No No No Yes Yes
	EBA Engineering Consultants Ltd.	Jeff Orr – Project Manager Jennifer Stirling – Geologist Thomas Bradshaw – Junior Engineer Ernest Palczewski – Geologist	No No Yes Yes
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 Yes No Yes No Yes Yes No No Yes Yes Yes Yes Yes No 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: -24/-37	12PM: -24/-35	6 PM: -26/-34	12 AM:-30/--
Precipitation (mm)	Rain: None		Snow: None	
Conditions	Day Shift: Sunny with a light breeze throughout the day.		Night Shift: Cold. Clear sky. Calm to moderate wind.	
Daily norms (°C)	24 hour high: -22.8		24 hour low: -29.6	

HEALTH, SAFETY AND ENVIRONMENT

- Iozsef Miskolczi and Thomas Bradshaw attended the daily toolbox meeting.
- Ernest Palczewski 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 [Michelle Tanquay], JDS [Doug Fielding, Mark Valeriote, Ishan Fechter], Nuna [Doug Haverland, Kyle Kuntz] and SRK [Murray McGregor, Iozsef Miskolczi]

Topic	Status
Health and Safety and Environment	<ul style="list-style-type: none"> • No new safety incidents. • ESR inquired about the Jetty thermistor; SRK confirmed that no credible reading were obtainable.
North Dam	<ul style="list-style-type: none"> • SRK reported additional FCM placement at the dam; good compaction was observed. • SRK nightshift reported transition material placement and compaction along the downstream side. • Nuna plans to continue cleaning for another placement today.
Water Management Structures	<ul style="list-style-type: none"> • SRK inquired about the activity at Sump #1; Nuna stated the drill was working there most of yesterday. • SRK is satisfied with the work so far at the Doris Berm; cleaning has been diligent. • Nuna plans to continue work at Sump #1. • Nuna stated they will be sharing one drill between Doris Berm and Quarry 2; the other will be dedicated to drilling Sump #1. • Nuna stated an electrical issue was reported; Nuna is sending electricians to the sump area to confirm that the issue non-related.
General	<ul style="list-style-type: none"> • JDS stated there are some pipes to be buried through a ramp; Nuna will provide trenching support. • Nuna stated minor wear and tear to Cat 330 and Cat 385 excavators; neither need imminent maintenance.

SURVEY:

Required	•
Data Received	<ul style="list-style-type: none"> • Survey of Core placed on Feb. 19 • Survey of Core placed on Feb. 20 • Survey of Transition placed on Feb. 19
Outstanding	•
Upcoming	<ul style="list-style-type: none"> • Survey of FCM after placement (ongoing). • Survey of Doris North Diversion berm excavation.

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

- The thermistors at Sta. 1+30 were downloaded after excavating the core from around the cables was completed. All three thermistors appear to be in good working order.

Frozen Core Plant*Dayshift*

- The plant had a smooth start-up around 11:00AM; material was ready for placement within the first 10 minutes.
- Temperatures at the chute averaged 37°C.
- Hardy any reject at start-up and shutdown; less than half a truck combined.
- A variety of fine tune settings were utilized today; material had less moisture than yesterday.

Nightshift

- No FCM was produced.
- The plant operator brought in for night shift performed maintenance and cleanup of the plant.
- Core material was hauled to the FCP stockpile.

Dam Shell*Dayshift*

- No activity.

Nightshift

- Transition material was placed and compacted from Sta. 0+60 to Sta 1+10.
- ROQ and Transition material was placed along the core placed on day shift from Sta. 1+10 to Sta. 1+85.
- A new access point into the key trench was created at Sta. 1+70 on the downstream side, by filling a ramp from the ROQ level onto the transition material.

Key Trench/ Central Core*Dayshift*

- An area from 1+25 to 0+60 was cleaned for placement; the area had an odd shape dictated by last day's placement.
- Some additional spot cleaning was required near ledges before approval for placement was given.
- Material placed was drier than yesterday, but still had a noticeable sheen in most areas.
- Diligent compaction was observed resulting in smoother finished surfaces.
- All Troxler measurements indicated acceptable saturation and compaction.

Nightshift

- No FCM placement.
- The single bead thermistors were monitored throughout the night for freeze-back. The temperature at 5:30 AM was -6 on the lift placed Feb. 20 and around 0 on the lift placed Feb. 21.
- The FCM placed on Feb. 19 was cleaned with the mechanical broom in preparation for placement on day shift.
- The FCM placed on day shift was overbuilt by as much as 1 m between Sta. 1+30 and 1+50, and slightly underbuilt in one spot around Sta. 1+75.
- The overbuilt section at Sta. 1+35 resulted in the encasement on the thermistor cables in the frozen core. The nightshift foreman was notified; workers used a jackhammer to break up the frozen core to get the cables loose.
- The lift placed on Feb. 20 was cleaned using the mechanical broom attachment of the skid steer in preparation for core placement on day shift.
- The removal of ice and 5/8 crush from along the upstream edge of the 2011 core placement is essentially complete north of the inflection point.

- The heating tents were moved to the south side of the inflection point, along the upstream edge of the 2011 core placement.
- Elevation and grades of the exposed 2011 core at the north end of the keytrench were checked with the help of the surveyor. The 5/8 crush was essentially completely removed, with only dental cleaning being required for 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
SB29	1+68	U/S	SB13	0+73	Center	SB25	0+75	Center
SB22	1+16	D/S	SB24	1+28	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-PSD43-20120221		HB12-CR-CORE-PSD43-20120221
HB12-CR-CORE-PSD45-20120221		HB12-ND-CORE-PSD44-20120221
HB12-CR-CORE-PSD46-20120221		HB12-CR-CORE-PSD45-20120221
		HB12-CR-CORE-PSD46-20120221

MOISTURE CONTENT SUMMARY

Collected	Testing In Progress	Completed
HB12-FCP-CORE-MC171-QA-20120221		HB12-FCP-CORE-MC171-QA-20120221
HB12-FCP-CORE-MC172-QA-20120221		HB12-FCP-CORE-MC172-QA-20120221
HB12-FCP-CORE-MC173-QA-20120221		HB12-FCP-CORE-MC173-QA-20120221
HB12-ND-CORE-MC174-QA-20120221		HB12-ND-CORE-MC174-QA-20120221
HB12-ND-CORE-MC175-QA-20120221		HB12-ND-CORE-MC175-QA-20120221
HB12-FCP-CORE-MC176-QA-20120221		HB12-FCP-CORE-MC176-QA-20120221
HB12-ND-CORE-MC177-QA-20120221		HB12-ND-CORE-MC177-QA-20120221
HB12-ND-CORE-MC178-QA-20120221		HB12-ND-CORE-MC178-QA-20120221

DRILLED CORE

Collected	Testing In Progress	Completed
HB12-ND-CORE-DC44-20120221		
HB12-ND-CORE-DC45-20120221	HB12-ND-CORE-DC46-20120221	HB12-ND-CORE-DC44-20120221
HB12-ND-CORE-DC46-20120221	HB12-ND-CORE-DC47-20120221	HB12-ND-CORE-DC45-20120221
HB12-ND-CORE-DC47-20120221		

DORIS NORTH DIVERSION BERM:

- Cat 325 excavator hoisted bentonite chip bags into the key-trench.
- Labourers continued cleaning the upstream wall for bentonite tie-in; then bentonite was spread in a 100mm lift across the bottom of the key-trench.
- Two 730 haul trucks hauled ROQ to the central berm area; Cat 345 excavator spread ROQ for the berm.
- Survey was present throughout key Diversion Berm activities.

DORIS SUMPS:

- Cat 330 excavator with ripper tooth started excavations at Sump #1.

SECONDARY ROAD:

- No activity.

QUARRY #2:

- Crusher continued re-crushing ¾ inch into new FCM; two samples were taken by the crusher operator.
- The crusher was running all night shift. One sample was collected by the crusher operator.

GENERAL:

- Nuna electricians repaired the cable for the EBA coring drill.
- One SnowCat was pushing snow along the alignment of the short-haul route across Doris Lake. The snow at the end of the ice road near the dam was graded and watered.

PHOTOS:



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



Photo 2: Progress photo of North Dam from photo point 3. ~NE view



Photo 3: Snow cat pushing snow across Doris Lake for the snow road to the north dam



Photo 4: Placement of the last two beads of a horizontal thermistor cable at chainage 1+30



Photo 5: Covering thermistor cable at chainage 1+30



Photo 6: Photo of today's FCM placement



Photo 7: Honeycombed drill pattern at Sump #1; orange survey line represents extends of required excavation



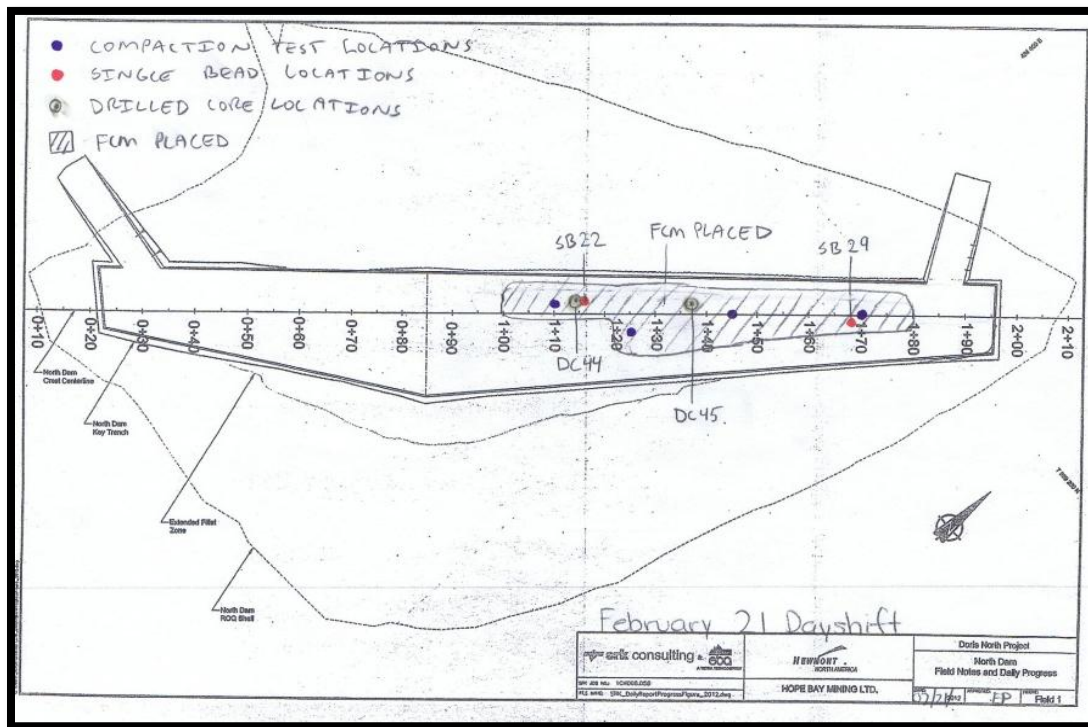
Photo 8: Photo of bentonite tie-in at the base of the Doris North Diversion Berm key-trench



Photo 9: Workers breaking up the frozen core around the thermistor cables at Sta. 1+30.



Photo 10: Access point created at Sta1+70. Note the red line along the frozen core marking the crest of the new lift. The core was slightly underbuilt around Sta. 1+75.

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