

DAILY REPORT #59 – DORIS NORTH INFRASTRUCTURE/ NORTH DAM

Prepared by:	Iozsef Miskolczi Lawrence Borowski	Date:	2012.03.04
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 No Yes 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 Valeriote – Construction Manager	Yes No No Yes 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 No
	EBA Engineering Consultants Ltd.	Jeff Orr – Project Manager Jennifer Stirling – Geologist Thomas Bradshaw – Junior Engineer Ernest Palczewski – Geologist	Yes Yes No 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 Yes No Yes No No No Yes No No Yes Yes No Yes Yes 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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those external parties.

WEATHER (ROBERTS BAY)

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

Temperature/Wind Chill (°C)	6AM: -40/-40	12PM: -33/-33	6 PM: -32/-46	12 AM: -32/-46
Precipitation (mm)	Rain: None		Snow: None	
Conditions	Day Shift: Clear, cold, light wind		<ul style="list-style-type: none"> Night Shift: Clear sky. Light to moderate wind. Blowing snow. Very cold. 	
Daily norms (°C)	24 hour high: -31.6		24 hour low: -40.4	

HEALTH, SAFETY AND ENVIRONMENT

- Lawrence Borowski and Jeff Orr attended the weekly safety meeting.
- Iozsef Miskolczi and Jennifer Sterling attended the weekly safety meeting.

COMMENTS, CORRESPONDENCE AND ACTIVITIES

DAILY MEETING WITH NUNA AND HBML TEAM:

- The daily meeting was attended by HBML [Katsky Venter], Newmont [Dean Wold], JDS [Gerry Graham, Kevin Whieldon, Mark Valeriote,]; Nuna [Nick Stoneberger] and SRK [Lawrence Borowski,]

Topic	Status
Health and Safety and Environment	<ul style="list-style-type: none"> • Safety: One incident yesterday. Worker slipped and injured ankle. • ESR: Discussion on the berm at windy. Can be removed after freschet.
North Dam	<ul style="list-style-type: none"> • Five loads of FCM were placed during day shift on a narrow wedge from Sta 1+40 to 1+80. • FC plant was scheduled to start at 9:30 am, but due to burner issues did not start until 2:00 pm. • FCM was placed until 4:30 pm • Operating temperature was ~ 37C • Cleaning at south end will commence this morning. • Freezeback was achieved overnight.
Water Management Structures	<ul style="list-style-type: none"> • Lids for sumps are currently being constructed in the shop. • SRK noted that snow was not being removed from the key trench prior to placing the geotextile liner. Snow will be removed after access is created for the excavator.
General	<ul style="list-style-type: none"> • Drilling at quarry 2 to continue

SURVEY:

Required	•
Data Received	<ul style="list-style-type: none"> • Frozen core volumes (Mar 03rd) • Doris North Survey Data (Mar 03rd) • QC cross sections of work in progress (Mar 04th)
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 at 11:00 am, and produced FCM until 17:00 hrs.
- A total of 26 loads were mixed.
- Water content was reduced once in mid-afternoon.
- Temperatures were set at +30C

Nightshift

- Some maintenance and cleanup at the beginning of the shift.
- Preparations for plant start-up were completed around 2:30 AM, but the plant could not start due to technical issues with the burner. The fuel tank was hoarded and heated for about one hour, after which the plant was successfully started.
- The material of the chute was too wet, and the operator was asked to turn the water down from 54.5 to 54. After about one half of a truckload, the operator was asked to turn the water further down, but he refused, citing a request from Mark Valeriotte according to which the water was not to be turned lower than 54 on the pump speed dial.
- Material off the chute was about 40 degrees C, and a total of three truckloads were produced.

Dam Shell*Dayshift*

- Hauled ROQ to the downstream side until 11:00 am.
- Resumed hauling ROQ in the middle of the afternoon.
- Lift thickness was approaching 1.8 m. To be checked by surveys.

Nightshift

- Transition material and ROQ was placed on the downstream side and compacted.
- The transition material was placed against the core placed on dayshift, and it was not compacted.
- The snow noted around Sta. 0+60 was not yet removed. The area was not cleaned due to blowing snow conditions, but was left open (uncovered by transition material) in order to be cleared in the coming shifts.

Key Trench/ Central Core*Dayshift*

- Cleaned section from Sta 0+60 to 1+40
- FCM placed in a small wedge from Sta 1+40 to Sta 0+70
- Thickness varied to a maximum of 300 mm.
- Upstream slope was over built, packed, then cut with the excavator and raked. The resulting slope of 2.5:1 was achieved using a level mounted on a triangle with the correct slope.
- All test results were within specification limits.
- Water was pooling on the final surface after compaction.
- One single bead thermister installed.
- Labourers maintained hoarding on the upstream edge of the key trench, where two frost fighters were set up to melt ice and 5/8 crush over the GCL liner.

Nightshift

- Three truckloads of FCM were placed in the upstream wedge between Sta. 1+30 and Sta. +75.
- The weather was very cold with blowing snow, and freezing of the place core was occurring shortly

after placement making it impractical for detailed finishing work to be undertaken. A decision was made by the foreman at the suggestion of the SRK engineer to stop placement about 30 cm from the actual toe of the 2.5H:1V slope, leaving the sloped area to be placed another day when conditions are more suitable for lengthy finishing work.

- The full width of the core north of the inflection point is now more or less at the same elevation, except for a small dip where the lift placed on dayshift and the lift placed on nightshift end.

Field Geotechnical Testing, Laboratory and Sampling

SINGLE BEAD THERMISTERS SUMMARY

Installed Today			Active					
Id	Station	U/S, D/S, CL	Id	Station	U/S, D/S, CL	Id	Station	U/S, D/S, CL
SB19	0+80	D/S	SB20	1+45	U/S	SB4	1+45	U/S
SB18	1+45	U/S				SB5	1+10	U/S
						SB3	0+70	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-FCP-CORE-PSD63-QA-20120303 HB12-FCP-CORE-PSD64-QA-20120303

MOISTURE CONTENT SUMMARY

Collected	Testing In Progress	Completed
HB12-FCP-CORE-MC254-20120304		HB12-FCP-CORE-MC254-20120304
HB12-ND-CORE-MC255-20120304		HB12-ND-CORE-MC255-20120304
HB12-ND-CORE-MC256-20120304		HB12-ND-CORE-MC256-20120304
HB12-FCP-CORE-MC257-20120304		HB12-FCP-CORE-MC257-20120304
HB12-ND-CORE-MC258-20120304		HB12-ND-CORE-MC258-20120304
HB12-FCP-CORE-MC259-20120304		HB12-FCP-CORE-MC259-20120304
HB12-FCP-CORE-MC260-20120304		HB12-FCP-CORE-MC260-20120304
HB12-ND-CORE-MC261-20120304		HB12-ND-CORE-MC261-20120304
HB12-FCP-CORE-MC262-20120304		HB12-FCP-CORE-MC262-20120304
HB12-FCP-CORE-MC263-20120304		HB12-FCP-CORE-MC263-20120304
HB12-FCP-CORE-MC264-20120304		HB12-FCP-CORE-MC264-20120304
HB12-ND-CORE-MC265-20120304		HB12-ND-CORE-MC265-20120304
HB12-FCP-CORE-MC266-20120304		HB12-FCP-CORE-MC266-20120304
HB12-ND-CORE-MC267-20120304		HB12-ND-CORE-MC267-20120304
HB12-ND-CORE-MC268-20120304		HB12-ND-CORE-MC268-20120304

DRILLED CORE

Collected	Testing In Progress	Completed
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HB12-ND-CORE-DC64-20120304 HB12-ND-CORE-DC65-20120304		HB12-ND-CORE-DC63-20120303 HB12-ND-CORE-DC64-20120304
<p>DORIS NORTH DIVERSION BERM:</p> <ul style="list-style-type: none">• Geotextile has been placed over the HDPE up to Sta.0+400• HDPE was placed by Layfield up to Sta 0+400• Excavator was shaping top of berm by cutting width of berm and casting ROQ into the key trench.• Work started at ~Sta 0+585, and stopped in mid afternoon due to equipment breakdown. <p>DORIS SUMPS:</p> <ul style="list-style-type: none">• No activity: sumps are covered with tarps• Construction of the lids has not started. <p>QUARRY #2:</p> <ul style="list-style-type: none">• Two drills working on dayshift only.• ROQ was loaded and hauled to the North Dam in the morning until the FC plant started operating at 11:00 am.• ROQ was hauled to the North Diversion until mid afternoon. <p>GENERAL:</p> <ul style="list-style-type: none">• SRK's vehicle is back in the shop with a leaking radiator• The ice strip on Doris Lake was cleared of excess snow and graded.		

PHOTOS:



Photo 1: Progress photo from photo point 1, facing SSE



Photo 2: Progress photo from photo point 2, facing NNW



Photo 3: Progress photo from photo point 3, facing NNE



Photo 4: Sump 1



Photo 5: Sump 2



Photo 6: FCM work area facing south Sta 1+35 to Sta 0+70



Photo 7: Frost fighters at the SE corner thawing ice over GCL.



Photo 8: Placing FCM. Labourers to the right shape edges to achieve 2.5:1 slopes



Photo 9: ROQ placement, downstream. ROQ is good quality.



Photo 8: Reshaping the North Diversion Berm



Photo 9 : Progress filling key trench.

FIGURES:

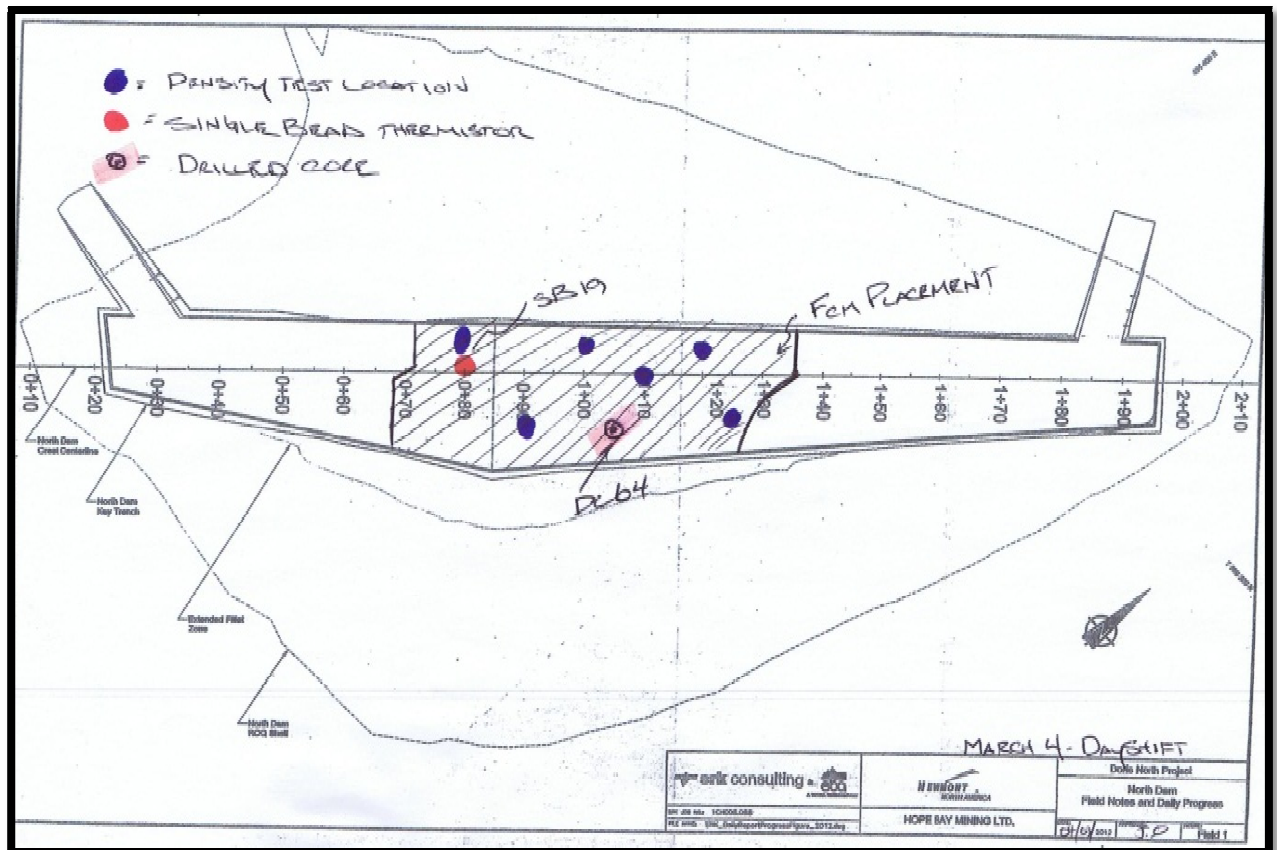


Figure 1 – North Dam Progress – Dayshift

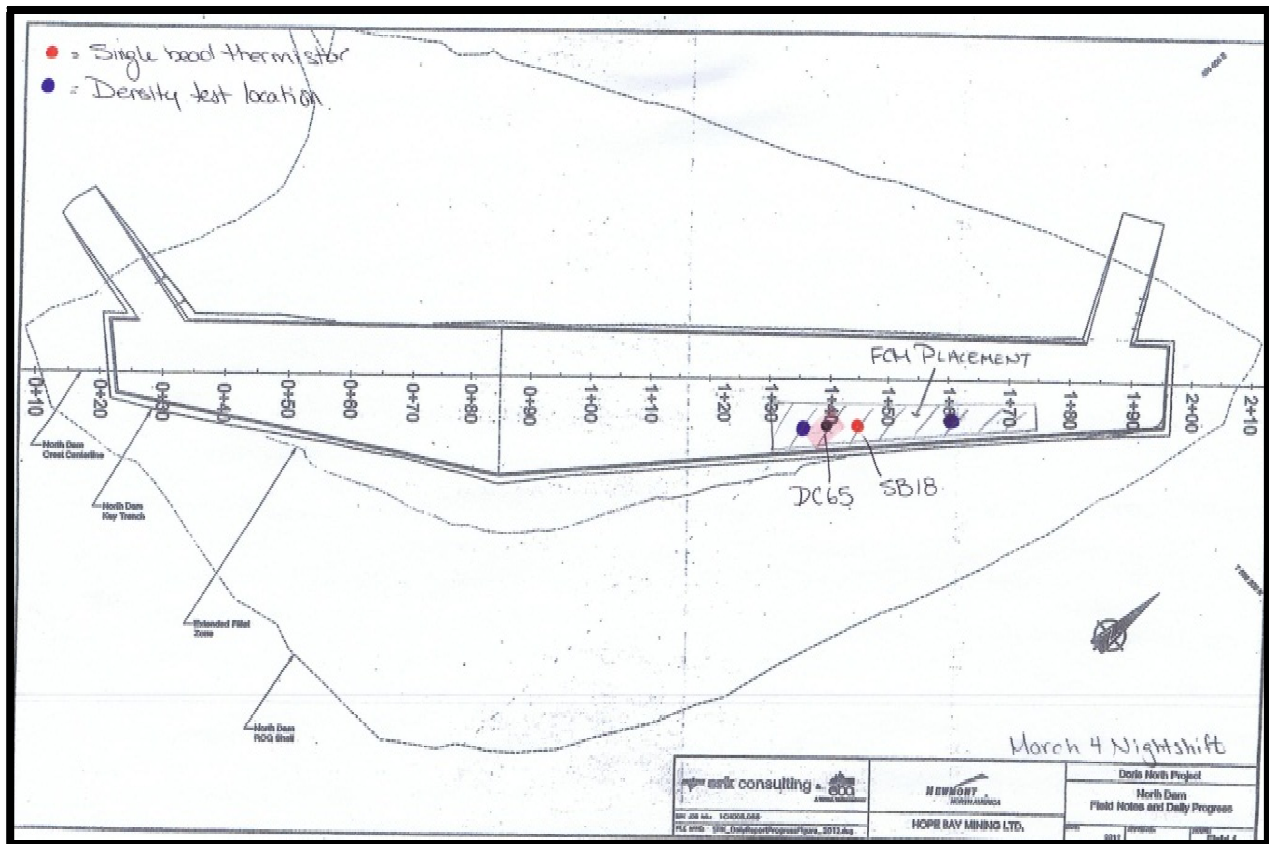


Figure 2 – North Dam Progress – Nightshift