

DAILY REPORT #69 – DORIS NORTH INFRASTRUCTURE/ NORTH DAM

Prepared by:	John Kurylo Lawrence Borowski	Date:	2012.03.14		
Reviewed by:		Project #:	1CH008.058.0320		
Role	Company	Personnel – Position	On Site		
Client	Hope Bay Mining Limited (HBML)	Angela Holzapfel – ESR Compliance Manager	Yes		
		David Vokey – ESR Coordinator	Yes		
		Don Ethelston – HSLP Advisor	No		
		Dean Wold - Safety	Yes		
		Jill Turk – ESR Coordinator	No		
		Katsky Venter – ESR Manger	No		
		Michelle Tanquay – ESR Site Manager	Yes		
		Stirling Kelly – HSLP Advisor	Yes		
	JDS	Lloyd Jackson – Mechanical Superintendent	No		
		Doug Fielding – Construction Manager	No		
		Ishan Fechter – Construction Coordinator	Yes		
		Jerry Graham – Construction Manager	Yes		
		Kevin Whieldon – Project Coordinator	No		
		Mark Valeriote – Construction Manager	Yes		
Engineering Design Consultants	SRK Consulting (Canada) Inc.	John Kurylo – Site Engineer	Yes		
		Megan Miller – Site Engineer	No		
		Lawrence Borowski – Site Engineer	Yes		
		Murray McGregor – Site Engineer	No		
		Iozsef Miskolczi – Site Engineer	No		
		Lowell Wade – Senior Engineer	No		
	EBA Engineering Consultants Ltd.	Jeff Orr – Project Manager	Yes		
		Jennifer Stirling – Geologist	Yes		
		Thomas Bradshaw – Junior Engineer	No		
		Ernest Palczewski – Geologist	No		
		Earthworks Contractor	Nuna Logistics	Bradford Watkin – QC Manager	No
				Doug Haverland – Area Superintendent	Yes
Gary Sodhi – Field Engineer	Yes				
Georges Cornelissen – Survey Manager	No				
Jeff Roberts - Surveyor	Yes				
Jim Cardinal – Foreman	Yes				
Jordan Gunter – Foreman	No				
Kevin Oakes – Project Engineer	No				
Kevin Kozdrowski – Foreman (Night shift)	Yes				
Kyle Kuntz – Project Engineer	No				
Margaret Caley – Surveyor	No				
Matt McKay – Civil Supervisor	No				
Mike MacMaster – Surveyor	No				
Mike Price – Field Engineer	No				
Nick Stoneberger – Superintendent	No				
Rick Peter – Foreman (Day shift)	Yes				
Ron MacMaster – Surveyor	Yes				
Simon Chipper – Civil Supervisor	Yes				
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/-30	12PM: N/A	6PM: -28/-44	12AM: N/A
Precipitation (mm)	Rain: None		Snow: ~5cm	
Conditions	Day Shift: Clear, very windy, very cold. Visibility ~ ½ mile in blowing snow and haze		Night Shift: Cold, strong winds, blowing snow.	
Daily norms (°C)	24 hour high:-24		24 hour low: -28	

HEALTH, SAFETY AND ENVIRONMENT

- John Kurylo and Jennifer Stirling attended the nightly Nuna toolbox meeting.
- SRK is using a pickup provided by Nuna on dayshift and provided by JDS on nightshift.

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

- The daily meeting was attended by HBML [Michelle Tanguay, Angela Holzapfel] Newmont [Sterling Kelly], JDS [Gerry Graham, Ishan Fechter, Mark Valeriot]; Nuna [Doug Haverland, Kyle Kuntz] and SRK [Lawrence Borowski, Jeff Orr, John Kurylo].

Topic	Status
Health and Safety and Environment	<ul style="list-style-type: none"> • Safety: No issues. Worker who complained of back pain resulting from repetitive lifting discharged from Yellowknife hospital and is ready to return home to Cambridge Bay. • ESR: reminder that smoking in vehicles is distractive and against the law. • Seat belts must be worn. • There are still vehicles that are plugged in and are idling • Update on requirement for overburden at Boston.
North Dam	<ul style="list-style-type: none"> • Overall a good day at the dam. FCM was placed for the entire length as well as in the SE corner. • Placed 322 cu.m. • Today will be a freezeback day. No FCM placement expected. • Plan to start laying the cables at Sta 1+75 across the back slope.
Water Management Structures	<ul style="list-style-type: none"> • Placed ROQ on two 50 meter sections of key trench. • Due to extreme winds yesterday was a weather day for Layfield. • Plan to move forward with liner installation today. • Discussed backfilling Sump 2.
General	<ul style="list-style-type: none"> • One drill working at Quarry 2, day shift and night shift • Grader worked on runway last night.

SURVEY:

Required	<ul style="list-style-type: none"> • Transition material placed on March 11th • Recently placed ROQ on the downstream.
Data Received	<ul style="list-style-type: none"> • Transition and FCM placed on March 12th and 13th. • GCL patched on the lower liner (preliminary – provided for review).
Outstanding	<ul style="list-style-type: none"> •
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**

- The following multi-bead thermistors were read:
 - ND-HTS-040-31.5, ND-HTS-040-33.5, ND-VTS-040-KT
 - ND-HTS-060-28.8, ND-HTS-060-31.0, ND-HTS-060-33.5, ND-VTS-060-KT, ND-VTS-060-US
 - ND-HTS-085-33.5, ND-VTS-085-US
 - Note: the last bead on thermistor string ND-HTS-085-33.5 is still not working.
 - ND-VTS-130-33.5, ND-VTS-130-US
 - ND-HTS-175-32.5, ND-HTS-175-33.5, ND-VTS-175-KT
 - Difficulties were had taking the multibead readings last night. The LCD screen / readout box would freeze after a couple measurements and was required to be heated before the next cables readings were attempted.

Frozen Core Plant*Dayshift*

- No activity

Nightshift

- No activity at the plant
- Transition material was loaded by a loader at the stockpile W of the Batch Plant and was hauled to the FCP Pad area.

Dam Shell*Dayshift*

- Placed separation material for part of the morning.
- Hauled and stockpiled ¾ in material for bedding cables.
- Started hauling and placing ROQ on the ramp from the north end.
- Excavated a ramp through the east backslope. Hauled the material to the west dam shell.
- Excavated through previously placed ramp material, placed ¾ in material and strung out thermistor cables at Sta. 1+75, and backfilled with ¾ in material. This was then covered with select ROQ before continuing with ROQ placement.
- Continued placing ROQ to Sta 1+40.
- Constructed a pad to string thermistor cables at Sta 1+30. Strung out cables and covered with ~ .5 m of ¾ in crush with a surface width of 1 m minimum.
- Cables at Sta 1+75 and 1+30 were surveyed as they were being placed.

Nightshift

- ROQ material was placed on the downstream from ~1+50 to 1+20..
 - One vibrator packer briefly worked on packing ROQ. The last ~ 10m of tonight's ROQ placement has not been paced.
 - ROQ material was placed with a D6.
- Some stockpiles of material, that were generated as the upstream slope was pulled back and the areas over the fillet expansion was cleaned (i.e. the inside adjacent core slope pulled back), were short hauled to the downstream and dumped.
- Some snow was removed on the upstream around the south end (~ 0+40 to 0+10 areas). The excavator worked in this area to create additional access. Some of the ROQ was shaped in this area.
 - Snow removed from the dam shell today was separated into 'dirty' and clean snow. 'Dirty' snow was hauled to the overburden dump, while clean snow was transported onto Tails Lake.
- Reject material was removed in areas from the upstream dam shell. Minor work with the excavator clearing buried 5/8 and HDPE material continued on the south end of the dam.

- Select ROQ material was placed over the protective crush placed over the multibeads at 1+30.
- The 10 ton vibrator compactor worked on packing the upstream dam shell.

Key Trench/ Central Core

Dayshift

- No activity
- Single bead thermistors were monitored.
- Multi bead thermistor ND-HTS-085-33.5 was read. No reading for the last bead.

Nightshift

- No FCM placement resulted today. As of March 14th 9,897 m³ of FCM have been placed at the dam in 2012.
- Sections, provided by Nuna survey, showing the remaining planned lifts at the North Dam are provided as Figure 3 at the end of this report. Based on review of these sections it can be seen that the SSE upstream slope area is expected to be last area to be completed.
- At this time it is planned that GCL placement will start from the North end and progress to the South as the FCM in the aforementioned SSE upstream slope area is brought up to grade in small lifts.
- Single bead thermistors were monitored.
 - The section from ~ 1+00 to 0+60 was noted as being -1.8C at the end of nightshift.
 - The SSE around station 0+55 to 0+20 has had a lot of snow drifted over this location. The single bead reading for this nightshift placement is currently around +1.5C. It is expected that the snow is also slightly insulating this area and the corresponding single bead.

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
			SB30	0+70	CL	SB17	0+60	CL
			SB27	0+38	U/S	SB18	0+50	U/S
						SB14	0+35	D/S
						SB11	1+08	CL

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

PARTICLE SIZE DISTRIBUTION SUMMARY

Collected	Testing In Progress	Completed

MOISTURE CONTENT SUMMARY

Collected	Testing In Progress	Completed

DRILLED CORE

Collected	Testing In Progress	Completed

		HB12-ND-CORE-DC75-20120313 HB12-ND-CORE-DC76-20120313 HB12-ND-CORE-DC77-20120313
<p>DORIS NORTH DIVERSION BERM:</p> <ul style="list-style-type: none"> Placed and packed underliner bentonite from Sta. 3+00 to 3+35 Labourers cleaned key trench between Sta 2+50 and Sta 3+00 Small excavator pushing snow from back of trench between Sta 5+30 and 5+85. By afternoon drifting snow started filling trenches. Any work done between Sta 2+50 and Sta 3+35 will need to be redone. Work in this area was suspended. The small excavator completed pushing snow from the back of the key trench between Sta 5+30 and 5+85. This area too was starting to fill back with snow. In the afternoon excavator was placing the second lift of ROQ between Sta 3+95 and Sta 4+45 The second Layfield weather day. <p>DORIS SUMPS:</p> <ul style="list-style-type: none"> Plates for the second lid have been welded together. The circle has not been cut out. <p>QUARRY 2:</p> <ul style="list-style-type: none"> One drill working during day shift and one drill working on nightshift (i.e. one drill working 24 hours). The HDPE liner that was being removed from the North Dam has been hauled to the middle bench at Quarry #2 for temporary storage. This liner is extremely damaged (i.e. non salvageable for use). A D9 was used around the crusher area to help move ROQ and clean up around the crush stockpiles. <p>GENERAL:</p> <ul style="list-style-type: none"> Snow ended during the night, but winds were strong all day. Drifting became an issue at the berm, and drifts are apparent in several areas at the dam. At times visibility was limited due to drifting snow and haze. Today was truly a miserable day for those who were exposed to the elements for any length of time. SRK's truck remains down. SRK is currently sharing a truck with Nuna supervisor and field engineering crew on dayshift. Additional vehicles are available on nightshift due to the smaller crew size. The excavator that was parked at the Diversion Berm was borrowed from nightshift for other work. This was returned at the end of shift. The airstrip was graded on nightshift. 		

PHOTOS:



Photo 1: Progress photo, looking SSEE down centerline.



Photo 2: North dam facing south, closer view.



Photo 3: Drifting in the south east corner on dayshift.



Photo 4: Bedding cables at Sta 1+75. Trench was cut in ramp



Photo 5: Photo from the secondary road facing east



Photo 6: Cables at Sta 1+35



Photo 7: Final cover over cables at Sta 1+35



Photo 8: Packing bentonite between Sta 3+00 to Sta 3+35



Photo 9: Cleaning bottom of key trench Sta 2+50 to 3+00



Photo 10: Drifting by mid afternoon Sta 3+00 to Sta 3+35



Photo 11: Placing second lift of ROQ ~ Sta 4+60

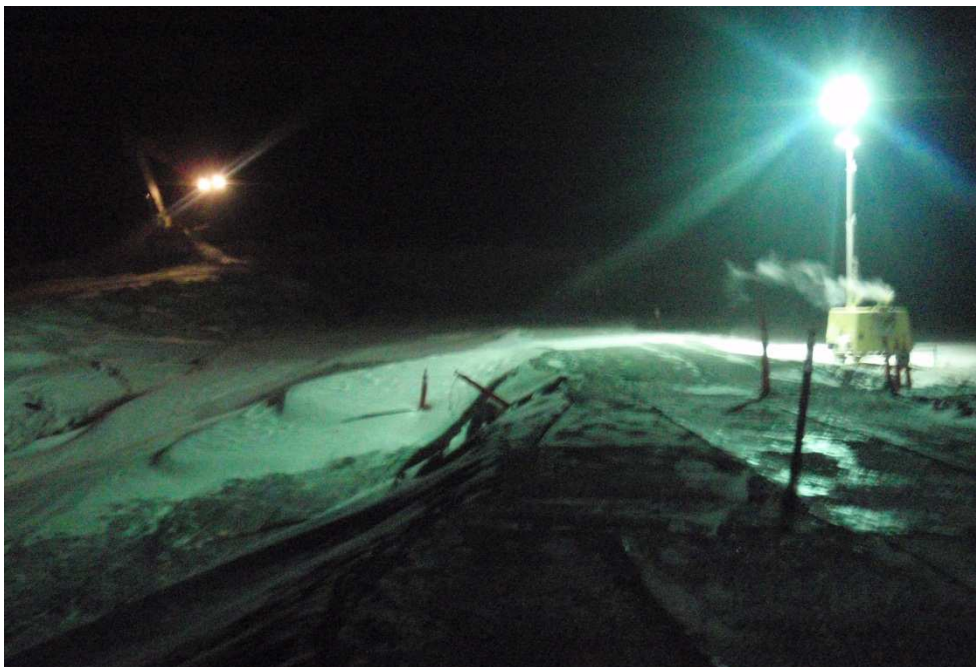


Photo 12: View of snow drifting into the underbuilt SSE upstream portion of the dam.



Photo 13: Excavator working on upstream S potion of dam.



Photo 13: D6 spreading ROQ on the downstream dam shell.

FIGURES:

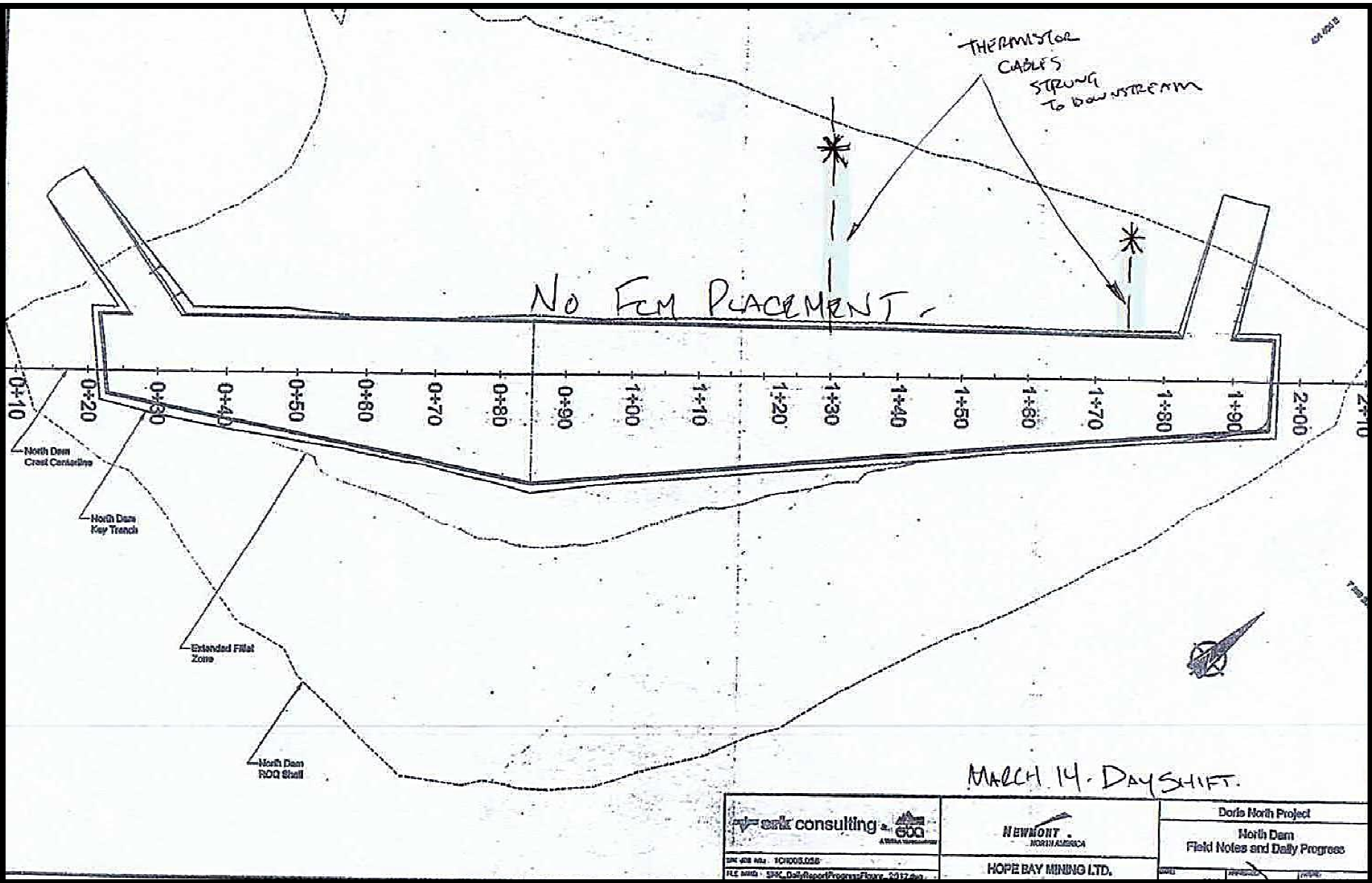


Figure 1 – North Dam Progress – Dayshift

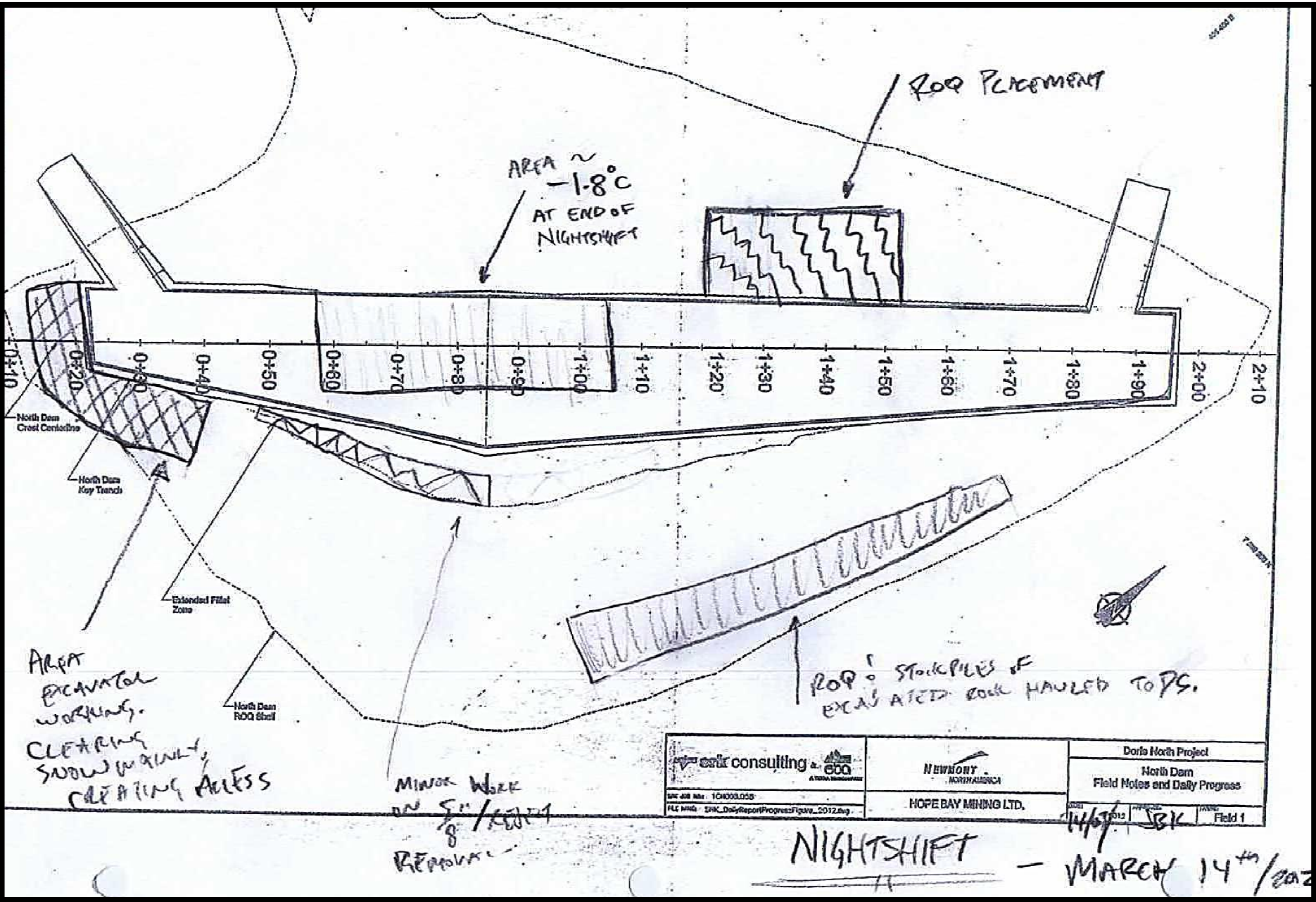


Figure 2 – North Dam Progress – Nightshift

Figure 3 – North Dam, Remaining FCM Lifts to GCL Grade

