

DAILY REPORT #88 – DORIS NORTH INFRASTRUCTURE/ NORTH DAM

Prepared by:	lozsef Miskolczi Megan Miller	Date:	2012.04.02
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 Yes No Yes
	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 Calvin Goldschmidt – Construction Coordinator	No No No Yes No In Yes
Engineering Design Consultants	SRK Consulting (Canada) Inc.	John Kurylo – Site Engineer Megan Miller – Site Engineer Lawrence Borowski – Site Engineer Murray McGregor – Site Engineer lozsef Miskolczi – Site Engineer Lowell Wade – Senior Engineer	No Yes No No Yes No
	EBA Engineering Consultants Ltd.	Jeff Orr – Project Manager Jennifer Stirling – Geologist Thomas Bradshaw – Junior Engineer Ernest Palczewski – Geologist	No No No Out
Earthworks Contractor	Nuna Logistics	Benny Vostermans – Foreman (Day Shift) Doug Haverland – Area Superintendent Gary Sodhi – Field Engineer Georges Cornelissen – Survey Manager Jeff Roberts - Surveyor Jim Cardinal – Foreman (Day Shift) Jordan Gunter – Foreman Kevin Kozdrowski – Foreman Kyle Kuntz – Project Engineer Margaret Caley – Surveyor Matt McKay – Civil Supervisor Mike MacMaster – Surveyor Mike Price – Field Engineer Rick Peter – Foreman (Night Shift) Simon Chipper – Civil Supervisor	Yes No Yes Out No Yes No No No No No Yes Out Yes No
External Distribution List:	SRK: Maritz Rykaart, Lowell Wade, Seema Kang, Silkie Wong EBA: Robert Zschuppe Nuna: Chris Petrovic HBML: Dave Power		
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WEATHER (ROBERTS BAY)

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

Temperature/Wind Chill (°C)	6AM: -10/-17	12PM: -8/-16	6 PM: -7/-15	12 AM: -7/-15
Precipitation (mm)	Rain: None		Snow: 2 to 3 mm	
Conditions	Day Shift: Overcast with moderate wind, high winds in the afternoon.		Night Shift: Overcast. Moderate wind. Light flurries in the evening. Blowing snow.	
Daily norms (°C)	24 hour high: -6.3		24 hour low: -11.4	

HEALTH, SAFETY AND ENVIRONMENT

- Megan Miller attended Nuna's morning toolbox meeting.

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

- The daily meeting was attended by Nuna [Lucas Evans, Trevor Sorken, Gary Sodhi], ESR [Katsky Venter], Nuna Safety [Stirling Kelly], JDS [Jerry Graham, Calvin Goldschmidt], SRK [Megan Miller]

Topic	Status
Health and Safety and Environment	<ul style="list-style-type: none"> No safety incidents. The environmental incident with the day tank overflowing was discussed. An investigation is ongoing. Smoking in the vicinity of fuel transfer stations and fuel tanks was discussed.
North Dam	<ul style="list-style-type: none"> SRK provided a review of yesterday's construction activities at the dam.
Water Management Structures	<ul style="list-style-type: none"> JDS asked about the status of the RFI for the sumps. This will be looked into. Nuna plans on having the diversion berm essentially done by Thursday. Sump one has been backfilled. Nuna will be acquiring and thawing additional overburden material to complete the sump 2 backfill tonight. Nuna expects that the sump lids will be insulated in the next few days.
General	<ul style="list-style-type: none"> JDS discussed the RFI sent in for the RBTF diversion berm. SRK and JDS to meet and look at the area later in the day. ESR and Nuna discussed crush and overburden requirements for Boston. Drilling of the thermistor cables for the Doris-Windy road bridges was discussed. Today Nuna plans on 'honeycombing' the trench needed to bed the thermistor cable to ease excavation. Nuna plans on using the regular blasting drills. SRK mentioned that this drill did not work when installing the thermistors for the Doris Creek bridge as the hole kept closing. The last blast occurred in Quarry 2 yesterday.

- Prior to this meeting SRK and Nuna briefly discussed the settlement monuments. SRK requested that an RFI be sent as the sketch sent by Nuna yesterday constitutes a change from the design. SRK has some concerns with the stiffeners at the bottom. This was to be discussed later in the day.

SURVEY:

Required	•
Data Received	• None
Outstanding	• None
Upcoming	• Diversion Berm material as placed • Dam material (ongoing)

- There is currently only one surveyor on site.

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

- All multi-bead thermistor readings were collected. Thermistor ND-HTS-085-33.5 is not functional.

Dam Shell*Dayshift*

- ROQ placement continued in a second lift above the transition material from station 0+85 southwards on the upstream side of the core. The ROQ was placed with the CAT D6 dozer and compacted as placement occurred with the 10T vibratory roller. The dozer shaped the upstream slope while advancing forward.
- The CAT 330 excavator sloped the final lift of ROQ on the downstream side from approximately 1+75 to 1+50. Excess material from this sloping was hauled to the dozer and incorporated into that fill.
- The CAT 330 excavator was used to remove compacted snow from the portion of the dam fill used as an access road during core construction on the upstream side of the dam.

Nightshift

- Placement of ROQ continued. A third lift of ROQ was started around Station 1+30, progressing south to about Station 0+80. This lift is final on the upstream slopes, but it ends flush with the transition material on the centerline side.
- The second lift of ROQ placed previously was compacted using the 10 tonne compactor in vibration mode.
 - A rubble zone consisting of boulder size rocks and virtually no fines was noted at the interface between the second lift of ROQ and the transition material, near the south end of the placed ROQ. This zone is not very thick, essentially one layer of rocks.
- ROQ was of very good quality, well graded and free of oversize.
- The snow stockpiled on the upstream side near the south end of the dam was loaded into trucks and hauled to the snow dump near Doris Camp.
- Cleanup of the leftover GCL liner and the installation implements was done. The remaining GCL was stored in a seacan container at the south-west corner of the FCP.
- Finishing of the 4H:1V slope on the upstream side was continued, reaching Station 1+45.
 - A wide swath of snow and rock was left around the thermistor cables at Station 1+75.
 - The toe and partway up the slope is already at grade, with only the last lift or placed ROQ requiring sloping and finishing.

DORIS NORTH DIVERSION BERM:

- Laborers continued to clean snow from the blown in section of the diversion berm in the morning.
- The edge of the liner along the bottom bentonite was examined; a few small tears along the edge of the HDPE and one small hole were noticed. As all of this was at the bottom of the berm where the HDPE was lying on the bentonite it was decided that additional welding was not need, as long as the bentonite 'plug' was extended such that it covered ~0.1 m beyond these areas.
- The bentonite 'plug' and ¾" crush overliner material were placed in this area and placement of the first lift of ROQ was started.
- ¾" crush material and the first lift of ROQ were placed from approximately station 000 to 050.

SUMPS:

- No activity.

QUARRY #2:

- The CAT 385 excavator loaded ROQ material from the middle bench and the CAT 980 loader loaded ROQ and crush from the floor of the Quarry.
- The ROQ from the blast April 1, 2012 was examined. The ROQ is of good quality with lots of fines and not very many pieces of big rock.

GENERAL:

- Ernest Palczewski left site today; there is no longer any EBA personnel on site.
- Some additional tidying the geotechnical laboratory was performed. All of the items belonging to SRK were transported to the SRK seacan for storage.
- SRK and JDS did not meet at Roberts Bay to discuss the tank farm diversion as planned.
- About 36 megabags were filled on nightshift with overburden soil from the Sump #1 excavation. The megabags were placed on wood pallets for ease of transportation.

PHOTOS:

Photo 1: Progress photo of North Dam from photo point 1. Looking south west.



Photo 2: Progress photo of North Dam from photo point 2. Looking north west.



Photo 3: Progress photo of North Dam from photo point 3. Looking north east along dam alignment.



Photo 4: North Dam – View of progress on north dam. Dozer placing second lift of ROQ material over transition on upstream side of dam.



Photo 5: Diversion Berm – View of diversion berm area after snow clearing, photo looking east.



Photo 6: Diversion Berm – Closer view of bottom bentonite after snow cleaning.



Photo 7: Diversion Berm – Bentonite plug placed in bottom of diversion berm. Photo looking east.



Photo 8: Quarry 2 – ROQ material from blast April 1, 2012. Very fine ROQ material with lots of fines.



Photo 9: North Dam – rubble zone near the south end of the dam. Photo looking north from Sta. 0+30



Photo 10: North Dam – excavator sloping and finishing the downstream face around Sta. 1+75. Photo taken from ice road, looking south



Photo 11: North Dam – snow cleared and crush surface levelled near the north thermosyphon radiators. Photo looking west.



Photo 12: North Dam – remaining rolls and scraps of GCL liner left at the dam were placed in a seacan container at the FCP.



Photo 13: Location of thermistor strings was marked with stakes on the abutments of Bridge #4. Photo looking south.



Photo 14: North Dam – progress photo of ROQ placement. Photo looking west from Sta. 0+80.

FIGURES:

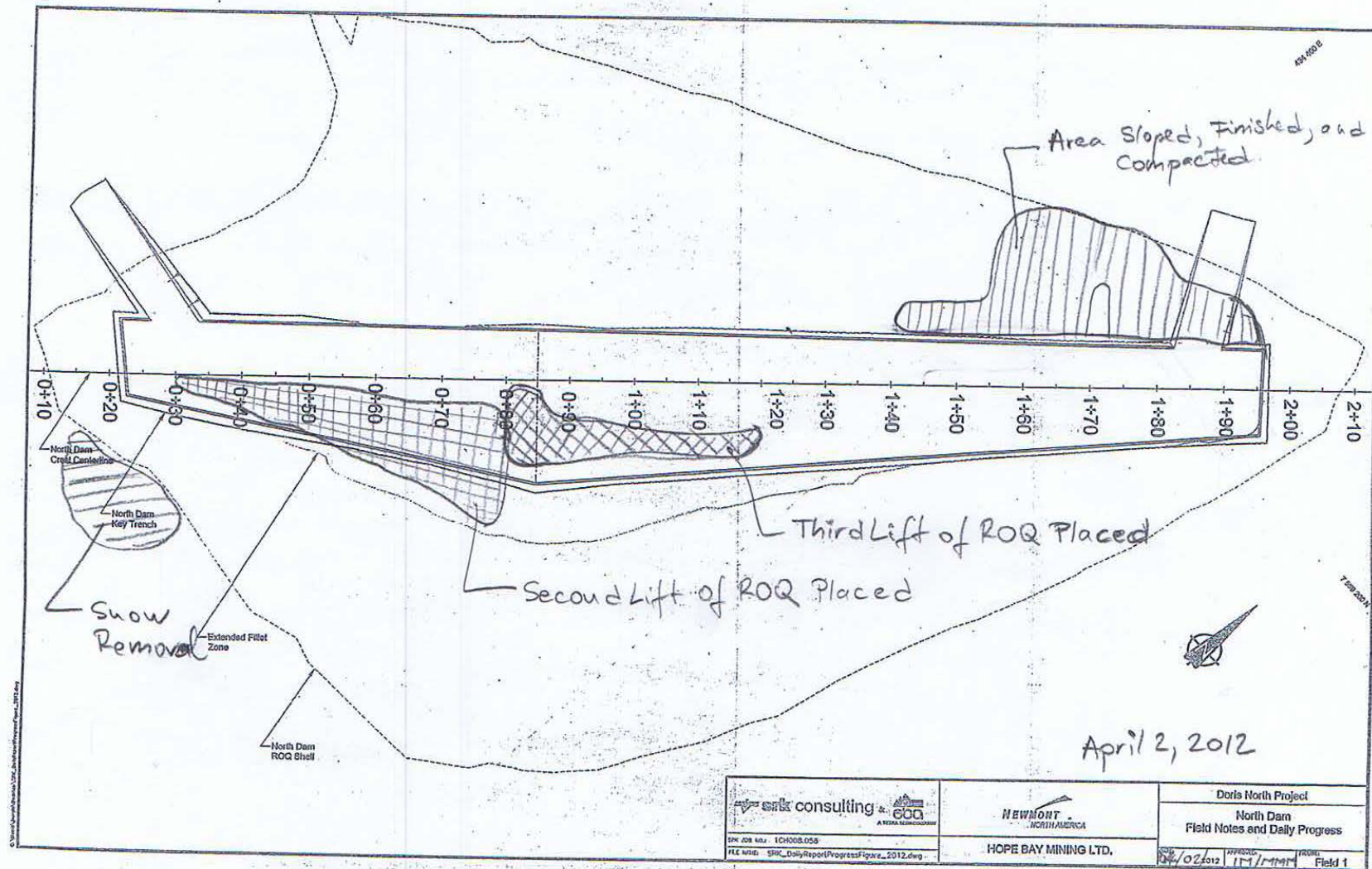


Figure 1: North Dam Progress Figure