

## DAILY REPORT #36 – DORIS NORTH INFRASTRUCTURE/ NORTH DAM

Prepared by:	Murray McGregor Megan Miller	Date:	2012.02.10
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	Yes No Yes Yes 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 Yes No Yes No
	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	Ben Vostermans - Foreman Bradford Watkin – QC Manager Doug Haverland – Area Superintendent Gary Sodhi – Field Engineer Georges Cornelissen – Survey Manager Jeff Roberts - Surveyor Jim Cardinal – 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	Yes No No Yes No Yes Yes Yes Yes No Yes No No 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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**WEATHER (ROBERTS BAY)**

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

Temperature/Wind Chill (°C)	6AM:-12.8/-21	12PM: -8.2/-17	7 PM: -8.1/-16	12 AM: -13.4/-19
Precipitation (mm)	<b>Rain:</b> None		<b>Snow:</b> None	
Conditions	<b>Day Shift:</b> Calm, balmy and sunny. Mild winds in the afternoon.		<b>Night Shift:</b> Clear, calm, warm.	
Daily norms (°C)	24 hour high: -7.6		24 hour low: -25.7	

**HEALTH, SAFETY AND ENVIRONMENT**

- Megan Miller and Thomas Bradshaw attended the nightshift Nuna 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 ADCO, Newmont [ Jill Turk], Nuna [Nick Stoneberger], JDS [Jerry Graham, Mark Valeriotte, Lloyd Jackson], and SRK [Megan Miller, Murray McGregor]

Topic	Status
Health and Safety and Environment	<ul style="list-style-type: none"> <li>• No new safety incidents; there were two incidents from yesterday's nightshift involving high winds; one window broken, one hand smashed in a seacan door.</li> <li>• JDS suggested that wind awareness be brought up in everyone's next toolbox meeting.</li> <li>• ESR inquired if the stacks for the powerhouse are in; ADCO stated there were problems with the lift and they will attempt to finish them today.</li> <li>• ESR inquired what flow meter will be used for Tail Lake; JDS has ordered the pump and can provide information.</li> <li>• ESR inquired about the jetty thermistor; Nuna stated it will have low priority since the focus will be on water management structures</li> </ul>
North Dam	<ul style="list-style-type: none"> <li>• SRK stated there was some transition placed during dayshift and packed during nightshift; thermistors were pulled back and buried in crush in the area</li> <li>• SRK inquired about getting water for the soils lab; Nuna stated it would be best to have the water truck fill the barrel when the FCP is being topped up.</li> </ul>
Water Management Structures	<ul style="list-style-type: none"> <li>• JDS inquired about the sumps; Nuna stated they are revising their work plan before any sump work will be done</li> <li>• Nuna stated Westarc will be blasting throughout the day</li> </ul>
General	<ul style="list-style-type: none"> <li>• Nuna was on hold to help ADCO with snow clearing.</li> <li>• Nuna's new crusher operator has completed orientation; he will possibly help out today.</li> <li>• JDS inquired about Quarry 2; Nuna will not be working in Quarry 2 today</li> </ul>

**SURVEY:**

<b>Required</b>	<ul style="list-style-type: none"> <li>• As-built survey of FCM placed Feb 8, 2012</li> </ul>
<b>Data Received</b>	<ul style="list-style-type: none"> <li>• None</li> </ul>
<b>Outstanding</b>	<ul style="list-style-type: none"> <li>• As-built survey of FCM placed Feb 6, 2012</li> <li>• As-built survey of ROQ placed Feb 5, 2012</li> <li>• As-built survey of Transition Material placed Feb 5, 2012</li> </ul>

	<ul style="list-style-type: none"> <li>As-built surfaces of FCM placed Jan 15 to Jan 22th in AutoCAD of .xml format.</li> <li>As-built survey of ROQ placed Feb 7, 2012</li> </ul>
<b>Upcoming</b>	<ul style="list-style-type: none"> <li>Survey of FCM after placement (on going).</li> <li>Survey of Doris North Diversion berm excavation.</li> </ul>

- An email was sent to survey to remind them that survey files have not been received in several days.

#### **NORTH DAM/FROZEN CORE PLANT PAD:**

##### **Frozen Core Plant**

###### *Dayshift*

- Frozen core plant started at roughly 10:00AM; problem with water and feed caused material to flow down the belt and over the guards.
- Hopper was jammed around 10:30, which took labourers half an hour to clear.
- After starting back up, the moisture and feed were still inconsistent; the plant was shut down and underwent further repairs.
- At 11:15, the plant was up and running and material was coming through consistently.
- Just when material was within spec, a belt blew just below the tower and material started piling on the ground.
- FCP operator and crew spent the remainder of the day taking the belt out and replacing it.

###### *Nightshift*

- No activity, no FCM was produced.
- No frozen core plant operator was available on nightshift.

##### **Dam Shell**

###### *Dayshift*

- Cat 330 excavator removed ROQ on the upstream side of the dam above the 5/8 clear cover.

###### *Nightshift*

- Some ROQ material from the upstream side was hauled and end dumped on the upstream side near station 1+30. After the material had accumulated on the upstream side the excavator placed the material. No compaction was observed on this material.

##### **Key Trench/ Central Core**

###### *Dayshift*

- Skid steer swept FCM surface, primarily from 1+05 to 1+25.
- Hoarding tents were set up over frozen 5/8 clear near the end of shift.

###### *Nightshift*

- No FCM placement.
- Herman Nelson heaters and light plants were placed in the dam to heat the 5/8" clear material covering the liner on the upstream side. The hot box was also used as some of the Herman Nelsons were not functioning.
  - The tarped area being heated is from approximately station 0+90 to 1+50.
  - Thawing of the core material was observed where the trunks of the heaters were laid on the ground. The trunks were then raised off the core material with rocks.
- Unfrozen, loose 5/8" clear material was removed from on top of the liner from approximately station 0+85 to 0+70 with hand shovels and the CAT 330 excavator.

#### **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
			SB10	1+00	Center	SB3	0+77	Center

			SB6	0+58	Center			
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- 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-PSD22-QA-20120209	HB12-FCP-CORE-PSD21-20120208

**MOISTURE CONTENT SUMMARY**

Collected	Testing In Progress	Completed
		HB12-FCP-CORE-MC64-QA-201200208
		HB12-FCP-CORE-MC65-QA-201200208
		HB12-FCP-CORE-MC66-QA-201200208
		HB12-FCP-CORE-MC67-QA-201200208
		HB12-FCP-CORE-MC68-QA-201200208
		HB12-FCP-CORE-MC69-QA-201200208
		HB12-FCP-CORE-MC70-QA-201200208
		HB12-FCP-CORE-MC71-QA-201200208
		HB12-FCP-CORE-MC72-QA-201200208

**DRILLED CORE**

Collected	Testing In Progress	Completed
HB12-ND-CORE-DC30-QA-201202010	HB12-ND-CORE-DC30-QA-201202010	HB12-ND-CORE-DC29-QA-20120209
HB12-ND-CORE-DC31-QA-201202010	HB12-ND-CORE-DC31-QA-201202010	

**DORIS NORTH CAMP:**

- Small blasts occurred throughout the day at the Doris North Diversion Berm. Cat 345 excavator continued mucking out the blast and lifting blast mats.
- The nightshift crew worked on clearing snow from the berm footprint until 11 pm. Then the crew went into camp. This crew is switching to dayshift.

**SECONDARY ROAD:**

- No activity.

**QUARRY #2:**

- The crusher was not running on the day or nightshift.

**GENERAL:**

- Two foremen work working the night shift. Once foreman was in charge of the dam and the other was working on the diversion berm.
- The size of the nightshift crew has increased significantly.



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:** Material escaping from the feed belt at the frozen core plant



**Photo 5:** Drilled core HB12-ND-CORE-DC30-QA-201202010. Some drill chatter wore on the sides of the sample.



**Photo 6:** Drilled core HB12-ND-CORE-DC31-QA-201202010. Some gravel stuck in the annulus prompted a premature removal of this core.





**Photo 7:** Labourers shoveling 5/8" core material from the HDPE liner on the upstream side.



**Photo 8 (Left):** Looking at Herman Nelson heaters and hotbox heating liner hinge area. Photo looking north east along trench.

**Photo 9 (Below):** Some melting of the core material was observed where the trunks for the heaters rested on the ground. Rocks were used to bring the trunks off the ground.



**Photo 10:** View of exposed HDPE liner which covers the GCL liner on the upstream side.



**Photo 11:** A closer look at the exposed HDPE.



**Photo 12:** CAT 330 excavator placing ROQ material on downstream side of the dam.



Figure 2 – North Dam Progress – February 10<sup>th</sup>

