

## DAILY REPORT #110– DORIS NORTH INFRASTRUCTURE/ NORTH DAM

Prepared by:	Lawrence Borowski	Date:	2012.04.24
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 Dean Wold - Safety Jill Turk – ESR Coordinator Katsky Venter – ESR Manger Michelle Tanquay – ESR Site Manager Stirling Kelly – HSLP Advisor	Yes Yes No No Yes No Yes
	JDS	Doug Fielding – Construction Manager Ishan Fechter – Construction Coordinator Jerry Graham – Construction Manager Mark Valeriote – Construction Manager Calvin Goldschmidt – Construction Coordinator	Yes No No No Yes
Engineering Design Consultants	SRK Consulting (Canada) Inc.	Megan Miller – Site Engineer Lawrence Borowski – Site Engineer Iozsef Miskolczi – Site Engineer	No Yes No
Earthworks Contractor	Nuna Logistics	Doug Haverland - Area Superintendent Gary Sodhi – Field Engineer Georges Cornelissen – Survey Manager Jeff Roberts - Surveyor Jim Cardinal – Foreman Jordan Gunter – Foreman (Day Shift) Margaret Caley – Surveyor Mike MacMaster – Surveyor Mike Price – Field Engineer Rick Peter – Foreman (Night Shift) Trevor Sorken – Superintendent	No No No No Yes Yes No Yes Yes No Yes
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: -21.1/-21.1	12PM:-7.7/-7.7	6PM: -0.9/-0.9	12AM : -20.5/-20.5
Precipitation (mm)	<b>Rain:</b> None		<b>Snow:</b> None	
Conditions	<b>Day Shift:</b> Clear, calm. Warm, snow and ice melting on roads		<b>Night Shift:</b> N/A.	
Daily norms (°C)	24 hour high: -0.9C		24 hour low: -22.7C	

## HEALTH, SAFETY AND ENVIRONMENT

### COMMENTS, CORRESPONDENCE AND ACTIVITIES

#### DAILY MEETING WITH NUNA AND HBML TEAM:

- The daily meeting was attended by Nuna [Trevor Sorkin,], ESR [Katsky Venter, Angela Holzapfel], JDS [Doug Fielding, Calvin Goldschmidt], SRK [Lawrence Borowski,], HBML [Don Ethelston], Newmont IT [Brian Haagsman]

Topic	Status
Health and Safety and Environment	<ul style="list-style-type: none"> <li>Safety: No issues.</li> <li>ESR: No issues. ERN inspection is going well.</li> <li>West Arc has unsorted waste. They are to label waste.</li> </ul>
North Dam	<ul style="list-style-type: none"> <li>SRK provided update. Cables at Sta 1+30 were brought up the downstream slope to the termination point with no issues.</li> <li>Work started on the upstream side at Sta 0+85. Excavation was taken up to the top of the dam, bit not across. By end of shift final layer of crush was placed.</li> </ul>
Water Management Structures	<ul style="list-style-type: none"> <li>Electrical panels are now in place.</li> </ul>
General	<ul style="list-style-type: none"> <li>There is a plan to move 78 sea cans containing lubes and oils into tank farm 1. Seacans can only be moved if the 5,000,000 litre tank is empty. JDS assures that tank is empty except for some ice in the bottom.</li> <li>Batt will need to return to the site to complete work at the high wall. SRK will not sign off in current state.</li> <li>The thermistor at the jetty will be installed by West Arc today.</li> </ul>

#### SURVEY:

Required	<ul style="list-style-type: none"> <li>The following as-built files for the North Dam:             <ul style="list-style-type: none"> <li>Final compiled Core surface and linework</li> <li>Final compiled upper GCL surface and linework (including patches)</li> <li>Final compiled lower GCL surface</li> <li>Final compiled transition material surface and linework</li> <li>Final compiled overliner material surface and linework</li> <li>Compiled file of thermistor cables and thermistor cable bedding material (surfaces and linework) this would be for the entire path of the thermistor cables including the information from last year.</li> </ul> </li> </ul> <p>Sumps:</p> <ul style="list-style-type: none"> <li>○ Annulus crush backfill</li> <li>○ Annulus overburden backfill</li> </ul> <ul style="list-style-type: none"> <li>• Diversion Berm             <ul style="list-style-type: none"> <li>○ Final compiled surface and linework of ROQ cover</li> <li>○ Final compiled surface and linework of ROQ berm</li> </ul> </li> </ul>
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<b>Data Received</b>	<ul style="list-style-type: none"> <li>• Vent Raise Plenum and Heat Units</li> </ul>
<b>Outstanding</b>	<ul style="list-style-type: none"> <li>• None</li> </ul>
<b>Upcoming</b>	<ul style="list-style-type: none"> <li>• The following as-built files for the North Dam: <ul style="list-style-type: none"> <li>• Final compiled ROQ surface and linework</li> <li>• Final surface and linework of over thermosyphon crush (after compaction)</li> <li>• Survey monuments and any backfill materials associated with these monuments.</li> <li>• Instrumentation</li> </ul> </li> </ul>

#### **Multi-bead Thermistors**

- The following thermistors were read:
- ND-VTS-085-US
- ND-VTS-060-US
- Doris Creek west
- Doris Creek East

#### **DAM SHELL:**

- Work today started with cable ND-VTS-085-US. About ½ of this cable had been installed yesterday. Excavation continued across the top of the dam to the termination point. Cable was laid without incident and was of sufficient length.
- The final cable to be installed is ND-VTS-060-US
- This cable was similar to the cable at Sta 0+85 with the bottom section in two pipes each ~20 feet long
- Nuna were successful in uncoupling the pipes and completely removing the end section.
- The section that was not extracted is under the pad constructed for the pumps, and extends ~ 1 m beyond the pad.
- The location of the cable at ground level was marked, and a 1 m deep trench was excavated from the end of the pipe along side it.
- A buttress will be constructed over the 1<sup>st</sup> pipe and a minimum of 1 m beyond. Currently this is the pad for the pump and extends <1 m beyond the pad. The buttress cannot be constructed until the pump is in place. Then crush/6 in will be placed to achieve a 1 m cover.
- The cable at ground level not enclosed in a pipe is bedded in crush ~ 1 m down.
- Excavation was carried through to the termination point.
- The cable was strung out and found to be short. 5 m extension cables were on site. One cable length was used. Electricians were called in to join the two sections. They wrapped the join with a rubberized tape that they claim will stop any moisture coming in.
- Cables were covered. By the end of the shift the cables should be backfilled with ROQ>

#### **QUARRY #2**

- Loading and hauling ¾ in crush as required for the thermistor installations.

#### **GENERAL:**

- Thermistor at the jetty installed. (*Attempt was unsuccessful. Hole caved in at 5.5 m*)

#### **PHOTOS:**



**Photo 1:** Excavation across dam, Sta 0+85 US



**Photo 2:** Excavation at Sta 0+60 US





**Photo 3:** Excavation across dam at Sta 0+60 US



**Photo 4:** Cable joined by electricians.





**Photo 5:** Cable placed across dam at Sta 0+60 US



**Photo 6:** Final lift of crush Sta 0+60 US





**Photo 7:** End of pipes and location where cable had been coiled.



**Photo 8:** Sta 0+60 US. End of pipe and start of pump pad. Red line is location of underlying cable.





**Photo 9:** Surveyor locating approx.end of pipe



E 434300

E 434400

30

CURRENT STATUS.

ND-SSP-155-2

Apr 22  
2

ND-SMP-160-US

ND-SSP-155-1

Apr 15

Apr 16

ND-SMP-160-US

ND-SSP-140-2

ND-SMP-140-US

ND-SSP-140-1

ND-SMP-140-US

ND-SSP-125-2

ND-IN-120-3

ND-IN-120-2

ND-SSP-125-1

ND-IN-120-1

ND-DSP-120

ND-SMP-120-US

ND-SSP-110-1

ND-SMP-120-US

ND-SSP-110-3

ND-SSP-110-2

ND-SSP-095-3

ND-SSP-095-2

ND-DSP-100

ND-SMP-100-US

ND-SSP-080-3

ND-SSP-080-2

ND-SSP-065-3

ND-SSP-065-2

ND-IN-070-3

ND-IN-070-2

ND-DSP-070

ND-SSP-065-1

ND-SMP-065-US

ND-SMP-045-US

ND-SMP-045-US

ND-SMP-045-US

ND-SMP-045-US

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Apr 23

Apr 22

6H:TV

Apr 24

Apr 15

Apr 23

Apr 14

Apr 24

Upstream

North Dam Crest Centerline

