

DAILY REPORT #30 – DORIS NORTH INFRASTRUCTURE/ NORTH DAM

Prepared by:	Murray McGregor John Kurylo / Megan Miller	Date:	2012.02.04
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 No No No Yes Yes No Yes
	JDS	Lloyd Jackson – Mechanical Superintendent Sven Archimowtiz – Electrical Superintendent Doug Fielding – Construction Manager Ishan Fechter – Construction Coordinator Jerry Graham – Construction Manager Kevin Whieldon – Project Coordinator Mark Valeriote – Construction Manager	Yes No 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	Yes Yes No Yes No
	EBA Engineering Consultants Ltd.	Jeff Orr – Project Manager Jennifer Stirling – Geologist Thomas Bradshaw – Junior Engineer Ernest Palczewski – Geologist	No Yes No 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	No No No Yes Yes No No Yes Yes No Yes No Yes No Yes Yes No 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: -25/-42	12PM: -26/-44	6 PM: -30/-46	12 AM: N/A
Precipitation (mm)	Rain: None		Snow: None	
Conditions	Day Shift: Whiteout in the morning with moderate winds throughout the day.		Night Shift: Calm, cloudy, warm.	
Daily norms (°C)	24 hour high: -24		24 hour low: -30	

The Hope Bay weather station is down; the daily weather reported above is for Cambridge Bay

(<http://www.theweathernetwork.com/index.php?product=obs24h&placecode=canu0005>).

HEALTH, SAFETY AND ENVIRONMENT

- Megan Miller attended the nightly 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, Nuna [Nick Stoneberger, Kevin Oakes, Simon Chipper], Newmont Safety [Stirling Kelly], ESR [Katsky Venter], JDS [Jerry Graham, Mark Valeriotte, Kevin Whieldon, Lloyd Jackson], SRK [John Kurylo, Megan Miller].

Topic	Status
Health and Safety and Environment	<ul style="list-style-type: none"> • The report on the 600 volt cable, that was noted to be damaged and previously flash arcing, will be submitted today or tomorrow. HBML to consult Nuna to review the investigation that have already prepared. HBML and JDS planned to have a field visit to the damaged cable location today, around the Sump #1 area. • The weather should be watched. Snowfall and blowing snow was noted last night. • One spill was noted under the Geotech truck. This was reported and cleaned up. This spill was noted by ESR as being ~ 2L in volume. • ESR outlined that leaks, especially around vehicles that have been parked for a while (a number of days), have been noted recently. Leaks around parked vehicles are expected to be from parts shrinking in the cold. Additional spill pans have been ordered and some have arrived on site. • Additional discussions on equipment hours were held between ESR and Nuna. Nuna is working on compiling vehicle hour use estimates, since 2008 for ESR. The additional monitoring of pollutants is for the National Pollution Release Inventory. • The sprinkler system in a portion of the camp/ admin may need to be drained down. JDS inquired with ESR about the discharge of the water from the pipe. ESR and JDS to have further discussions on this.
North Dam	<ul style="list-style-type: none"> • SRK provided an update for construction activities on 2012/ 02/03. See daily report #29 for full details. • Nuna outlined that the dam construction plan is to clear snow and place lifts when enough area is available for placement. • When not placing Nuna plans to crush material at the Quarry #2 crusher. • A snow road is going to be cleared across Doris Lake to the

	downstream area of the North Dam in the coming days.
Water Management Structures	<ul style="list-style-type: none"> Some blasting was completed at the Doris North Diversion berm yesterday. Layfield is planned/ scheduled to come to site for the DN Diversion Berm liner installation on February 16th. A supply of 10" pipe is coming in to site. This pipe is expected to be used for the discharge pipeline to Tails Lake. Cables around the Sump #1 location are expected to be re-routed around the area in the coming days.
General	<ul style="list-style-type: none"> SRK requested that the lab water, used for testing, be removed from the lab. A slightly higher sediment load is expected in the used lab water however, otherwise it is clean of contaminants. This water is expected to be discharged through the roads/ pads or onto snow roads (if required/ available). The crusher ran last night for a short period (~ less than an hour). ADCO's man lift needs some attention. Jersey barriers and blocks are going to be poured at the Batch Plant by Tli Cho. JDS asked Nuna to remove/ suck out the diesel that is currently being stored in the underground tank. JDS requested manpower projections from Nuna for February and March. Discussions about manpower and the potential of decommissioning the barge in the future were discussed.

SURVEY:

Required	<ul style="list-style-type: none"> Survey of FCM placed Feb 4, 2012.
Data Received	<ul style="list-style-type: none">
Outstanding	<ul style="list-style-type: none">
Upcoming	<ul style="list-style-type: none"> Survey of placed core material (ongoing). Survey of placed transition material (ongoing).

NORTH DAM/FROZEN CORE PLANT PAD:

- SRK met with JDS and the Nuna foreman at the center of the key-trench to discuss downstream core placement expectations. SRK highlighted one area around ~ station 0+80 to 0+90 that required further cleaning so that the core could be built out to/ slightly beyond the IFC core limits. See Photo 7.

Frozen Core Plant*Dayshift*

- Attempts were made to start the FCP, starting at approximately 2:00 PM.
- Problems with the belt (from the hopper to feed to the plant) persisted until shift change. The belt was noted to be tracking and slipping.
- No material was produced/ sent to the dam from the FCP.

Nightshift

- At the beginning of shift the problems with the belt were fixed.
- The plant started running at ~9:15 and ran without issues to the end of shift.
- Initial plant temperature was read to be 39°C, the operator was asked to turn the temperature down and plant temperatures were 32°C and 33°C. At the end of shift a temperature reading of 37°C was obtained.
- To decrease the temperature the operator said he increased the belt speed and increased the suction of the exhaust fan.

Dam Shell*Dayshift*

- Minor snow clearing on the downstream side of the dam occurred, roughly from 1+00 to 1+70.

Key Trench/ Central Core*Dayshift*

- CAT 345 excavator removed snow atop transition material on the south side of the core area, from chainage 0+80 to 1+50.
- CAT 345 chipped some ice puddles to better clean the previous core.
- Skid steer with broom swept frozen core from 0+80 to 1+20 in anticipation for core placement.
- No core material was placed on dayshift today due to the FCP not running.
- All installed vertical and horizontal multi bead thermistors were read.
- Figure 1 presents the North Dam nightshift construction progress, for 2012/02/04.

Nightshift

- At the start of shift the key trench was cleaned from ~0+85 to 0+60.
 - Labourers and the CAT 930 loader cleaned snow from the edge of the transition material near station 0+90.
 - The skid steer with broom attachment was not working on nightshift.
 - Compacted snow from tire tracks was cleaned with hand shovels and broom by labourers, survey, site engineer and geologist. Some small, thin, discontinuous pieces of compacted snow remained after cleaning.
 - Material placement could have started at ~0+50; however additional cleaning was required in this area when the plant was ready to start up; therefore this area was left for next time.
- FCM was placed from station. 0+60 to 1+20, including the under built area from 1+20 to 1+10.
 - Temperature readings of the placed material after placement and compaction were read at 22°C. This reading was taken before the temperature of the plant was reduced.
 - There was a ~1 hour break in core placement for lunch, after this break water was ponding on the surface of the placed material.
 - On start-up after lunch the first few loads were on the dry side; after additional compaction these loads met the compaction and saturation requirements. The water content at the plant was increased.
 - Two single bead thermistors were installed in the placed FCM; one bead was located at 0+80 and another bead at 1+05.
 - A total of 23 very full CAT 730 truckloads were placed.
- A significant amount of snow had blown into the key trench due to the morning's storm.
 - Labourers cleaned snow from around all thermistor cables, in preparation for snow cleaning with equipment on dayshift.
 - Haul trucks were driving over the snow covered FCM. It is expected that the compacted snow from the truck traffic will have to be scraped with the excavator.
- Figure 2 presents the North Dam nightshift construction progress, for 2012/02/04.

Field Geotechnical Testing, Laboratory and Sampling

- Single bead 47 (installed near 0+80) and single bead 50 (installed near 1+05) 45, and 49 were monitored today. Single bead 43 and 60 was decommissioned.

SINGLE BEAD THERMISTOR STATUS

Installed Today			Active			Destroyed / Abandoned		
ID	Station	US/DS/Center	ID	Station	US/DS/Center	ID	Station	US/DS/Center
SB47	0+80	CL	SB45	0+45	U/S	SB60	0+75	CL
SB50	1+05	CL	SB45	0+45	U/S	SB43	1+15	D/S

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

PARTICLE SIZE DISTRIBUTION SUMMARY

Collected	Processed	Completed
HB12-ND-CORE-PSD15-20120204		
HB12-ND-CORE-PSD16-20120204		

MOISTURE CONTENT SUMMARY

Collected	Processed	Completed
HB12-FCP-CORE-MC48-QA-201200204		
HB12-FCP-CORE-MC49-QA-201200204		
HB12-FCP-CORE-MC50-QA-201200204		
HB12-FCP-CORE-MC51-QA-201200204		
HB12-FCP-CORE-MC52-QA-201200204		
HB12-FCP-CORE-MC53-QA-201200204		

DRILLED CORE

Collected	Processed	Completed
HB12-ND-CORE-DC20-QA-20120204 HB12-ND-CORE-DC21-QA-20120204	HB12-ND-CORE-DC20-QA-20120204 HB12-ND-CORE-DC21-QA-20120204	HB12-ND-CORE-DC17-QA-20120203 HB12-ND-CORE-DC18-QA-20120203 HB12-ND-CORE-DC19-QA-20120203

- Two drilled cores were taken. These cores were taken from the placement completed on Feb 1st nightshift. Photo 4 and 5 show these cores.
- Drilled core HB12-ND-CORE-DC20-QA-20120204 was taken from 1+60 CL to upstream.
- Due to the poor quality (from drill spin) of DC 20 an additional core was drilled. Core HB12-ND-CORE-DC21-QA-20120204 was taken from 1+54 CL.

DORIS NORTH CAMP:

- Westarc continues drilling along the DN Diversion berm alignment.
- Blast around 4:00PM for the DN diversion berm keytrench.

SECONDARY ROAD:

- Some snow blew onto the area cleared in the buttress footprint.

QUARRY #2:

- Additional cleaning and maintenance was performed in the morning to help get the crusher to an operational state.

GENERAL:

- SRK day and night shift overlapped in the field to observe FCM placement together. This was done to assist with cross-shifts and to help calibrate FCM moistures and temperatures across shifts/ placements.

PHOTOS:



Photo 1: Progress photo of North Dam from photo point 2. ~WNW view.



Photo 2: Progress photo of North Dam from photo point 1. ~SSE view.



Photo 3: Progress photo of North Dam from photo point 3. ~NE view.



Photo 4: Drill core HB12-ND-CORE-DC-20-QA-20120204. Poor quality due to spinning gravel in barrel. Taken from 1+60 CL to upstream.



Photo 5: Drill core HB12-ND-CORE-DC-21-QA-20120204. Taken from 1+54 CL.



Photo 6: Downstream side of key trench snow clearing in preparation for core material placement.



Photo 7: Area where additional snow clearing is required before core placement commences; approximately 0+95 looking southwest.



Photo 8: Cat 345 excavator placing FCM on nightshift.



Photo 9: Excavator tying-in upstream edge with FCM.



Photo 10: Labourers removing snow from around the thermistor cables.

FIGURES:
Figure 1 – North Dam Progress – February 4th DAYSHIFT

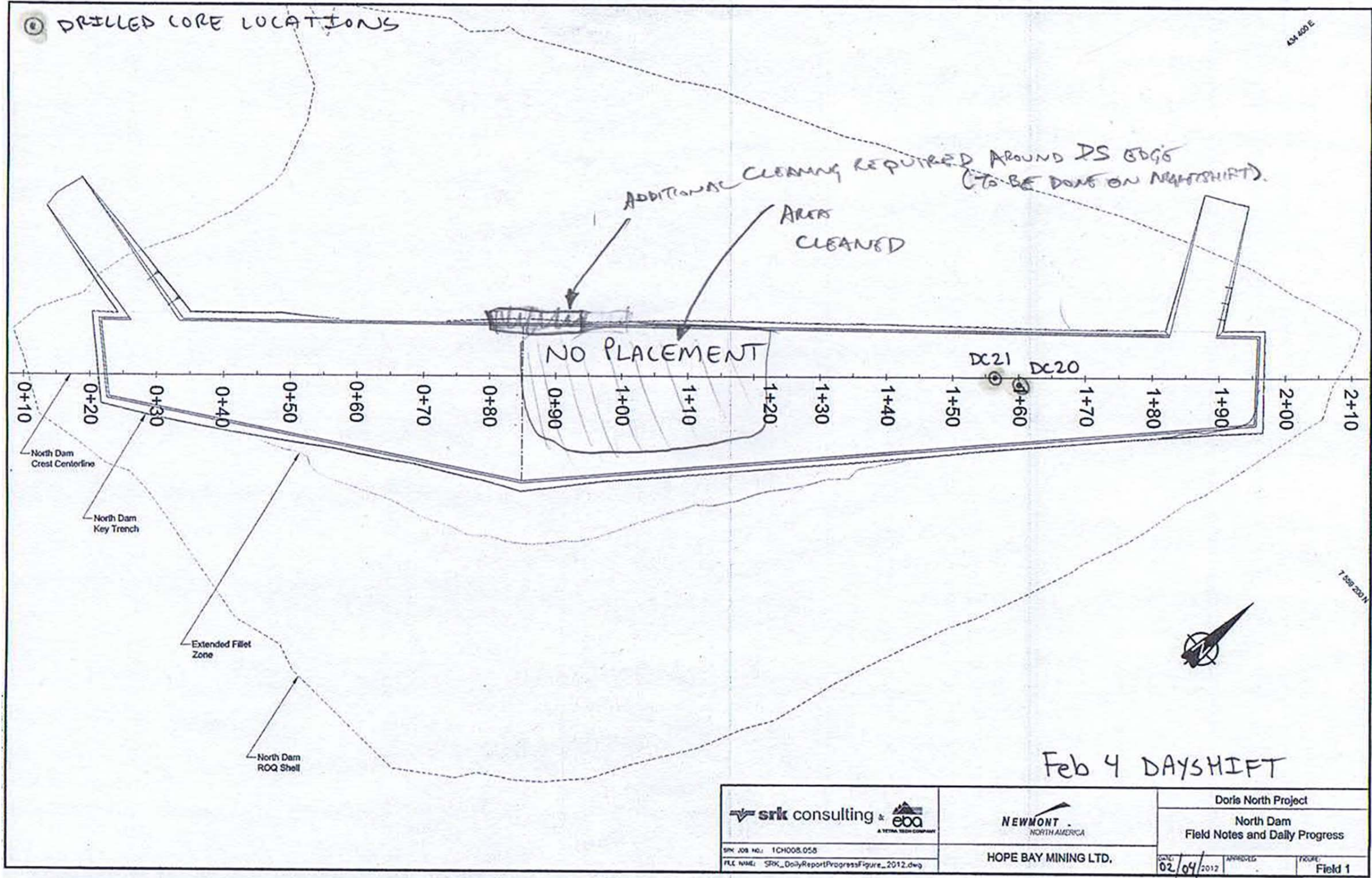


Figure 2 – North Dam Progress – February 4th NIGHTSHIFT

