

DAILY REPORT #24 – DORIS NORTH INFRASTRUCTURE/ NORTH DAM

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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 Yes Yes No No Yes No No
	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 Yes Yes No No Yes Yes
Engineering Design Consultants	SRK Consulting (Canada) Inc.	John Kurylo – Site Engineer Megan Miller – Site Engineer Lawrence Borowski – Site Engineer Murry McGregor – Site Engineer Iozsef Miskolczi – Site Engineer	Yes Yes No No No
	EBA Engineering Consultants Ltd.	Jeff Orr – Project Manager Jennifer Stirling – Geologist Thomas Bradshaw – Junior Engineer Ernest Palczewki – Geologist	Yes Yes No No
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 Peters – Foreman Ron MacMaster – Surveyor Simon Chipper – Civil Supervisor	Yes No Yes Yes Yes No No No No Yes Yes Yes Yes No No No No Yes
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WEATHER (ROBERTS BAY)

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

Temperature/Wind Chill (°C)	6AM: N/A	12PM: -37.2/-37.2	6 PM: -36.3/-40	12 AM: -33.6/-60
Precipitation (mm)	Rain: None		Snow: None	
Conditions	Day Shift: Cold, light to moderate wind.		Night Shift: Moderate wind, clear sky, cold.	
Daily norms (°C)	24 hour high: -32.6		24 hour low: -37.7	

HEALTH, SAFETY AND ENVIRONMENT

- Megan Miller attended the weekly Nuna safety meeting.
- A small amount of hydraulic fluid was note on the W side of the North Dam key trench. This was from the bobcat brush and was cleaned before placement. This was noted to Nuna and JDS personnel.

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

- The daily meeting was attended by ADCO, Williams Wireless, Nuna [Doug Haverland, Kyle Kuntz], Newmont Safety [Don Ethelston], ESR [Katsky Venter], JDS [Doug Fielding, Mark Valeriote, Kevin Whieldon, Sven Archimowtiz, Calvin Goldschmidt, Lloyd Jackson], SRK [John Kurylo].

Topic	Status
Health and Safety and Environment	<ul style="list-style-type: none"> • Safety and ESR had no issues to report. • Due to the low temperature no manlifts are to be used today (unless temperature warm up). • Additional discussions resulted about the small antifreeze spill noted out front of the camp, believed to be from a telehandler (see daily repot #23 for additional details).
North Dam	<ul style="list-style-type: none"> • SRK provided a summary/ overview of construction activities at the North Dam for 2012/ 01/ 28. <ul style="list-style-type: none"> ○ Saturated FCM was placed yesterday from ~1+60 to 1+70. ○ On nighshift the belt on the conveyor from the hopper to the FCP broke. Nuna will be putting on a new belt, sourced from the crusher inventory. ○ Freezeback was achieved on the FCM placed on Jan 27th nightshift but not on the area placed on dayshift. • Placement resulted on nightshift until ~ 11pm yesterday. • JDS inquired if there was an itemized spare parts list for the FCP. At thtis time this does not exist. JDS requested that Nuna create a list, with storage locations, of spare parts available for the FCP. • The 308 excavator has been moved to the FCP to assist with setting up/ putting on the new belt for the FCP.
Water Management Structures	<ul style="list-style-type: none"> • Tli Cho to work on heating and hording around the cables located within the Sump #1 footprint. If there is enough slack in the cables then they will be moved. If there is not enough slack in the cables then a new cable is expected to be put in to replace the existing cable(s), as required.
General	<ul style="list-style-type: none"> • With the arrival of the northern flight to site yesterday Nuna now has additional operators on site. • Williams Wireless to take the electronic equipment out of the ACI office. • Williams Wireless will be running a new fiber line to the DN Tank Farm area. • ADCO requested a zoom boom to move some of the DN tank Farm foam suppression equipment/ supplies around. • The main power plant is expected to go online on Wednesday (Feb 1st). Final checks are currently being performed on the power plant.

SURVEY:

Required	•
Data Received	•
Outstanding	<ul style="list-style-type: none"> • Isopach map of FCM lift thickness placed on 2012/ 01/ 27 (see Figure 3) • Pick-up of 5/8" material removal from 2012/01/25
Upcoming	•

NORTH DAM/FROZEN CORE PLANT PAD:**Frozen Core Plant***Dayshift*

- The dayshift crew working on preparing and putting on a new, slightly thicker, belt on the conveyor leading from the hopper into the FCP. By the end of dayshift the belt had been put on.
- The 325 excavator, a D8 dozer and a loader were used at the FCM stockpile to sort and break down unsaturated frozen lumps from the FCM stockpile (on the FCP Pad).
 - Suitable feed material was stockpiled in preparation for future placement.
 - Large lumps of FCM were hauled to the crusher. These large lumps are planned to be re-crushed. Some of the lumps being hauled away were very large (greater than 3 m in size).
 - See Photos 1 and 9.

Nightshift

- Some additional work was done to get the conveyor from the hopper in working order.
- The regular loader to feed the plant was not available on night shift and the replacement loader needed repair at the beginning of the shift.
- The plant started up at ~11:30 and worked until the end of shift.
 - The plant was shut down briefly to check some clamps on the belt.

Dam Shell

- No significant activity.

Key Trench*Dayshift*

- Minor cleaning resulted in the key trench around ~0+70 to 0+30. A small amount of hydraulic fluid from the skid steer brush was noted on the area cleaned by night shift on 2012/ 01/ 28.
- No FCM placement resulted on dayshift at the dam. This was due to a broken feed belt at the plant. As outlined above Nuna took advantage of the down time by working the stockpile at the frozen core plant and sorting out the frozen lumps.
- Freezeback of the material placed on Jan 27th dayshift was achieved today around 1:00pm (~44 hours after placement).
- As requested by SRK, Nuna survey provided an isopach of the lift thickness placed on January 27th. This is presented as Figure 3.
- Figure 1 presents today's dayshift construction progress at the North Dam.

Nightshift

- The leaked hydraulic fluid from the skid steer was scrapped with the CAT 308 excavator and then swept off with the skid steer broom. Some small spots remained when the next lift was placed but nothing significant.
- The floor of the key trench was cleaned from 0+80 south east to the end of the trench and 1+70 north with the skid steer with the broom attachment.
 - The upstream slope between 0+80 and 1+70 was also cleaned with the skid steer to examine the removal of 5/8" material along the slope. In general the removal of 5/8"

material looks good, though there are a few spots where additional scrapping will be required. The night shift foreman decided that they would leave the additional scrapping to a later time.

- Snow and debris was cleared from along the downstream edge of the placed transition material.
- FCM was placed from 0+80 working up the hill to 0+40.
 - The first few loads of this material were on the dry side; however with some additional passes with the compactor using the vibrator the saturation requirements were met. The moisture content of the plant was increase and the rest of the placed material looked good.
 - The FCM was tied into the transition material on the downstream side.
- The broken thermistor cable at sta. 0+60 was under a heated tarp.
- All thermistors located within the key trench (vertical and horizontal) were read with the exception of the two thermistors located at 0+60. All thermistors read were found to be in working order.

Field Geotechnical Testing, Laboratory and Sampling

- Single bead #57, 58 and 41 were monitored today. Single bead 42 was installed in the center of the dam at 1+45.

SINGLE BEAD THERMISTOR STATUS

Installed Today			Active			Destroyed / Abandoned		
ID	Station	US/DS/Center	ID	Station	US/DS/Center	ID	Station	US/DS/Center
SB42	0+45	Center	SB57	1+10	Center	SB58	1+40	Center
			SB41	1+65	DS			

- A summary of the material testing progress for 2012/01/29 is presented in the tables below.

PARTICLE SIZE DISTRIBUTION SUMMARY

Collected	Processed	Completed
HB12-FCP-CORE-PSD11-20120129		

MOISTURE CONTENT SUMMARY

Collected	Processed	Completed
HB12-FCP-CORE-MC28-QA-20120129		HB12-FCP-CORE-MC27-QA-20120128
HB12-FCP-CORE-MC29-QA-20120129		HB12-FCP-CORE-MC27-QA-20120128
HB12-FCP-CORE-MC30-QA-20120129		HB12-FCP-CORE-MC27-QA-20120128

DRILLED CORE

Collected	Processed	Completed
HB12-ND-CORE-DC10-QA-20120129	HB12-ND-CORE-DC8-QA-20120127	
HB12-ND-CORE-DC11-QA-20120129	HB12-ND-CORE-DC9-QA-20120127	

- Two drilled cores were collected on dayshift, see Figure 1 for core location. The drilled cores were processed and put in the oven for moisture content on nightshift.

COMPACTION TESTING SUMMARY

Number of Tests	Material	Tested By	Shift	Notes
5	Core	JS	Night	All Passed

- Compaction and saturation results from the nuclear densometer were acceptable.

DORIS NORTH CAMP:

- Westarc continues drilling at the main bedrock outcrop noted towards the east central area of the DN Diversion Berm. The WestArc excavator working around the drilling site on the DN Diversion berm to remove snow and overburden.
- The 325 excavator, spotted by Nuna survey, continued to remove snow around the location of sump 1, over the location of the buried cables. The snow was removed with ~0.3m from the top of the cables. The area where the cables intersect the Sump #1 footprint was horded/ covered and frost fighters were brought into to thaw out the area and further expose the cables. Hand shovelling is expected to result around this location in the coming days. See Photo 15.
- The 325 excavator (equipped with the tooth bucket) started to excavate material from the drilled/ 'honeycombed' footprint of Sump 2. The excavator appeared to be working well for removing material from within the Sump #2 footprint. See Photo 16.
- Til Cho has completed the fabrication/ installation of the insulation/ bottom portion of one of the Doris North camp sumps. The bases of the sumps are being stored in the batch plant and the top of the sumps (the portion with the holes/ slots that have been cut out of them) are being stored at the Roberts Bay laydown.

GENERAL:

- SRK inspected the crossing along the Doris-Windy All Weather Road (AWR). See photos 12 to 14.

PHOTOS:



Photo 1: 345 excavator and D8 dozer working on breaking up unsaturated lumps of FCM at the stockpile on the FCP pad; ~W view



Photo 2 (top center): ~ WNW down key trench, photo taken in the am.



Photo 3 (right middle): ~ NE view down key trench. Note that the material in the forefront of the picture was placed on Jan 27th.



Photo 4: ~ NWW view of hording and frost fighter set up to warm thermistor string ND-HTS-060-28.8 for repair.



Photo 5: Drilled Core 10 (HB12-ND-CORE-DC10-QA-20120129), taken from ~ 0+92 around the centerline.



Photo 6: Drilled Core 11 (HB12-ND-CORE-DC11-QA-20120129), taken from ~ 1+25 on the upstream. Note that the central portion of the drill is narrower due to drill chatter (from dislodged gravel).



Photo 7: Progress photo of North Dam from photo point 1. ~SSE view.



Photo 8: Progress photo of North Dam from photo point 2. ~WNW view.



Photo 9: ~NE view towards the FCM stockpile on the FCP pad. Note the 345 excavator, 730 haul truck and loader working on breaking up the frozen stockpile.



Photo 10: Progress photo of North Dam from photo point 3. ~ENE view.



Photo 11: ~NNE view of the Doris North Camp area. Taken from the 2010 construction progress photo point.



Photo 12: ~ENE view of Bridge/ Crossing #2 and #3, stitched panoramic view.



Photo 13: ~ NE view towards the S end of Culvert/ Crossing #1 on the Doris-Windy AWR.



Photo 14: ~N view of Bridge/ Crossing #4 on the Doris-Windy AWR.



Photo 15: ~E view towards the Doris Camp Sump #1. Note that the green and orange spray-paint marks the as-built location of the cables which intersect the Sump #1 footprint.



Photo 16: ~E view of the 325 excavator (with toothed bucket) working on excavating material from the drilled Sump #2 footprint.

FIGURES:
Figure 1 – North Dam Progress – Jan 29th DAYSHIFT

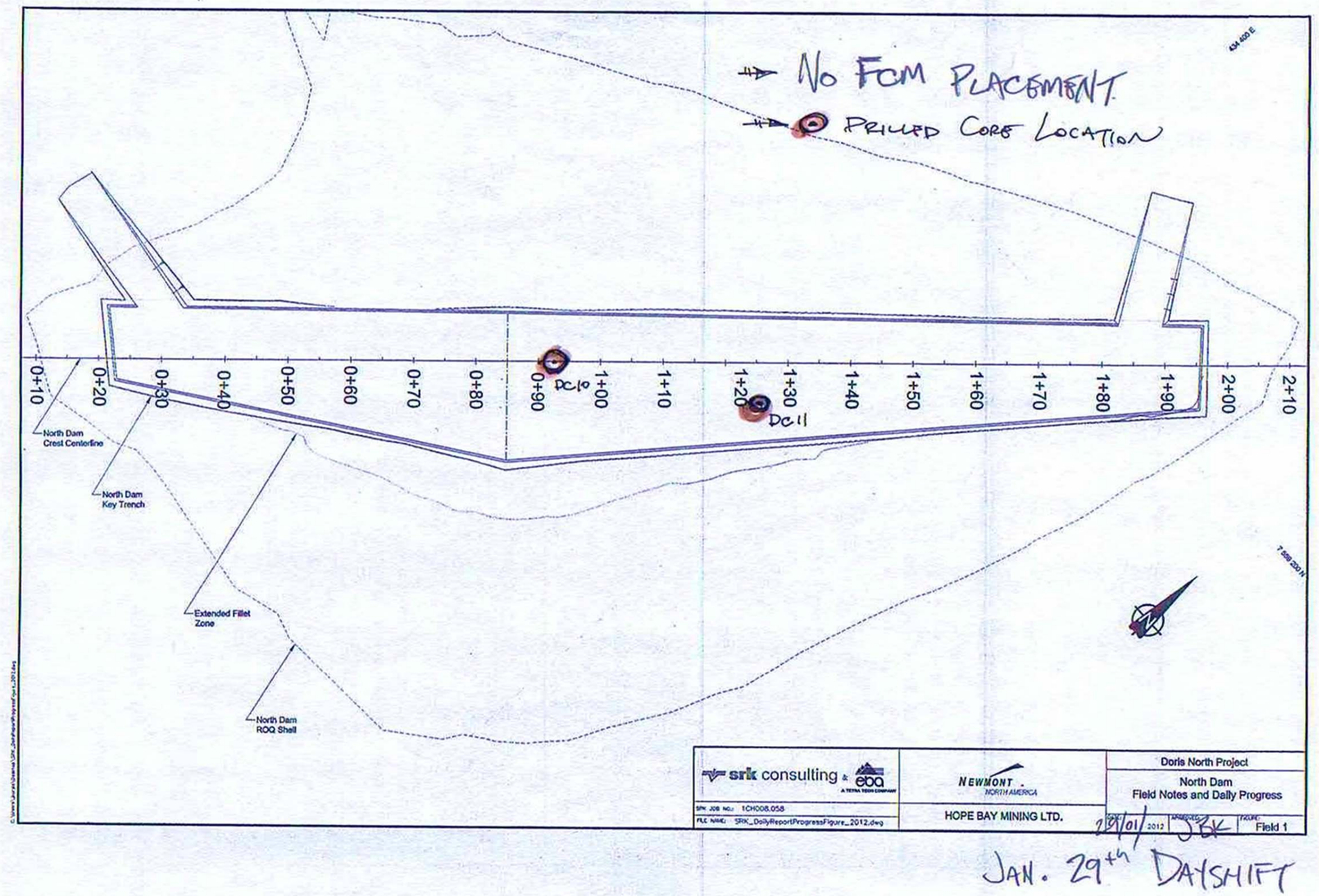


Figure 2 – North Dam Progress – Jan 29th NIGHTSHIFT

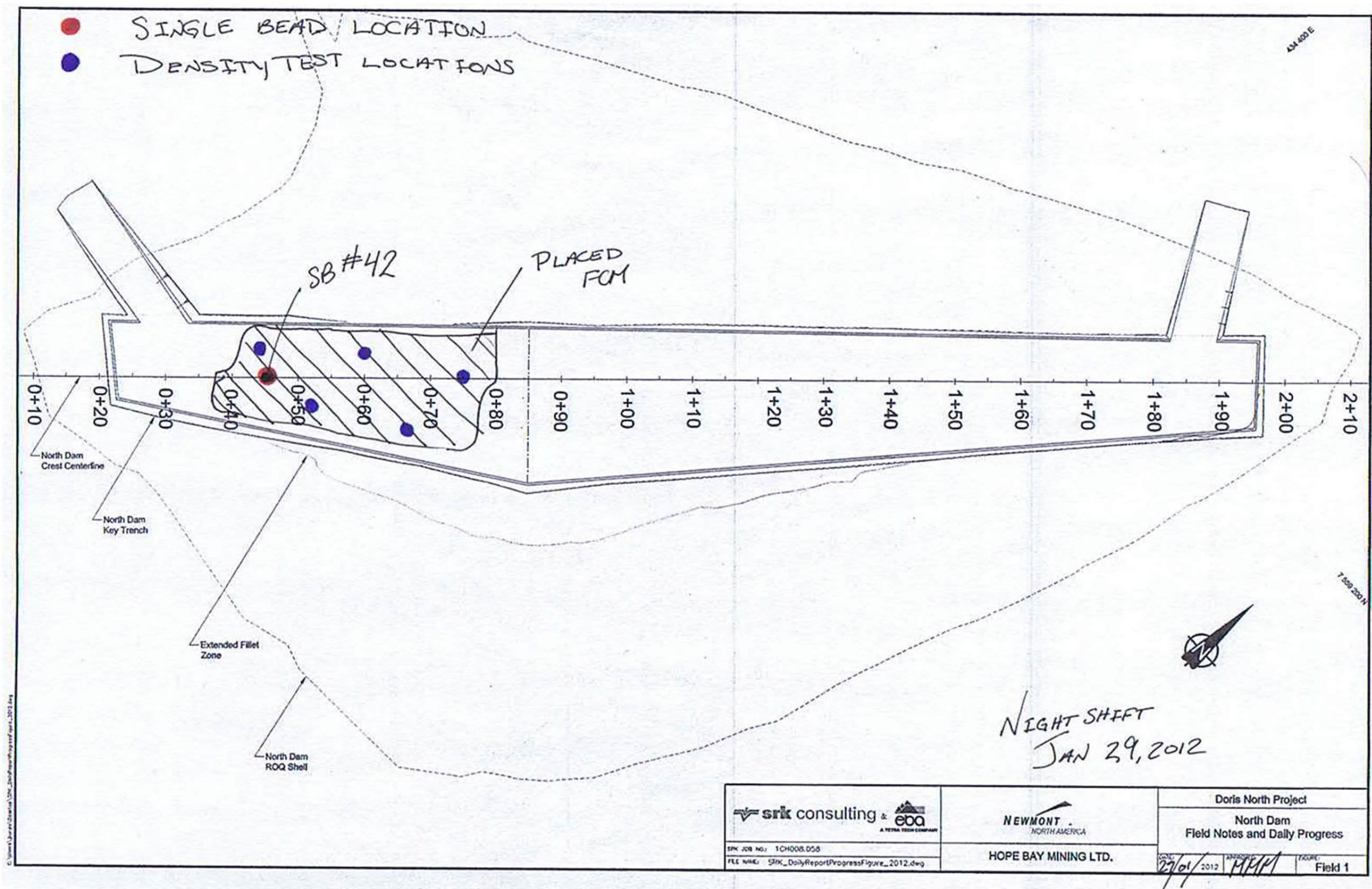


Figure 3 – Isopach showing thickness of Jan 27th FCM placement. Note the approximate locations of single bead 57 and 58 are shown on this drawing for reference.

