

RE: Hope Bay - 2011 As-Built Survey Data Review

Calvin Goldschmidt [Calving@jdsmining.ca]

Sent: Wednesday, February 15, 2012 12:25 PM**To:** Kurylo, John**Cc:** Wade, Lowell; Rykaart, Maritz; Bay, Hope; Miller, Megan

John et all,

See attached. Based on the list you sent the critical EOR reviews/signoffs can now be completed. Please ensure that these are completed as soon as possible.

Regarding Change order for this work, please assemble the expected hours/estimate to complete so I have back-up for this.

Also, if there is any further communication regarding missing data from Nuna, please keep me in the loop.

Thanks.

Calvin.

604-377-4522

From: Kurylo, John [mailto:jkurylo@srk.com]

Sent: Wednesday, February 15, 2012 10:46 AM

To: Calvin Goldschmidt

Cc: Wade, Lowell; Rykaart, Maritz; Bay, Hope; Miller, Megan

Subject: RE: Hope Bay - 2011 As-Built Survey Data Review

Hey Calvin,

To follow-up with our earlier discussions please find attached an updated spreadsheet with the survey tracking information / summary included. Note that today Georges / Nuna sent out the as-built information for the Roberts Bay Tank Farm. I have briefly reviewed this data and have made some updates to that row of the tracking / summary table.

We will start the Pollution and Sed Pond reviews now however, until we dive into this we will not be able to provide an accurate time estimate for completion. In the coming days / weeks we will work with you towards getting the required final as-built packages completed.

Let me know if you have any questions or concerns.

Regards,

John

jkurylo@srk.com

Staff Consultant, EIT

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From: Calvin Goldschmidt [<mailto:Calving@jdsmining.ca>]
Sent: Wednesday, February 15, 2012 8:38 AM
To: Kurylo, John
Subject: RE: Hope Bay - 2011 As-Built Survey Data Review

John, can you send the xl of this table?

From: Kurylo, John [<mailto:jkurylo@srk.com>]
Sent: Tuesday, February 14, 2012 1:13 PM
To: Calvin Goldschmidt
Cc: Wade, Lowell; Rykaart, Maritz; Bay, Hope
Subject: RE: Hope Bay - 2011 As-Built Survey Data Review

Hey Calvin,

Below please find a summary table that outlines the information that we have and the information that is required for Nuna to produce the complete 3D models for each element. This would then allow SRK to produce red line drawings (i.e. comparison of design versus as-built lines and surfaces). Note the columns on the far right of the table will require some input from yourself (i.e. 'AB Priority and ' Proposed Date for AB Review Submission'). For the sake of completeness, I have also attached e-mail communications which details some of the more recent discussions regarding redline or record drawings.

Table: 2011 Survey As-Built

Location	Data Received	~ Latest Date Data Received	Data Missing	Comments	Final AB Review Possible	AB Priority	Proposed Date for Final AB Review DWG Submission (AB vs Design Comparison)
Doris North		18-Nov-11	Initial set-up of survey data formats and data transmittal system with Nuna Survey.				
Airstrip Expansion	ROQ placed to date on North Apron, 3D faces of original ground surface	5-Dec-11	Compiled 3D face file, linerwork and points for bulk ROQ placement that resulted within the Airstrip Expansion footprint in 2011	Major components for the airstrip expansion have been received however do to upcoming reduction in site activities a final compilation would be required for this area.	Yes for North Apron	10	
Doris Camp Pads/Water Diversion Berm	Received linerwork and points for DN Diversion berm (reviewed) but have not received surfaces (3D face files or LandXML).	8-Dec-11	Compiled as-built surfaces (3D faces) of final as-built (all components).	Have 2010 AB surface for camp pads. Need to update area/surface for 2011. Can supply 2010 AB surface upon request.	No	4	
Doris Windy Road	As-built of ROQ placed in 2011	11-Jan-12	As-built of Surfacing material placed in 2011, if any was	Able to do this review if no surfacing material survey information is available.	Yes?	9	

			placed				
Frozen Core Pad	As-Built with 3D faces of ROQ and Surfacing Material	8-Dec-11			Yes	6	
Landfarm	ROQ, Liner, Overliner Points and Linework	12-Aug-11		As- Built Files compiled and surfaces made by SRK in Sept, 2011. Preliminary as-built review/ containment checks completed. Surfaces made by SRK from 3Dpolylines and point files.	Yes	4	
North Dam	-	On-going	No additional files needed from 2011.	On-going in 2012. This will be a very high priority item for 2012 As-builts	No	-	-
Pollution Control Pond	Bentonite under liner, underliner surface, overliner surface and key trench, HDPE, ROQ and RIP RAP (surfaces)	28-Nov-11		Would be nice to have surfaces made for culvert however we do have the data and are capable of doing this.	Yes	1	
RB Fuel Transfer Access Road	3D faces of final as-built (ROQ and surfacing)	9-Dec-11			Yes	7	
RB Sedimentation Berm	3D faces of ROQ berm/road	9-Dec-11			Yes	7	
Roberts Bay Laydown 5	3D faces of final as-built (ROQ and surfacing)	9-Dec-11			Yes	7	
Roberts Bay Tank Farm - New	Various files for the bedrock excavation, liner placement, highwall and overliner placement.	19-Nov-11	3d surfaces of final as-built components including laydown expansion to the north (underliner, overliner, liner, ramp, ROQ fills). In general lots of pieces with lots of gaps. Need a compiled survey package,	We already have a surface for ROQ though not complete and a surface for the highwall	No	3	
Secondary Road	Slope failure area	25-Nov-11	3D faces of as-built surfaces (ROQ and surfacing)	Need compiled survey for ROQ and surfacing from DN Camp to the end of the FCP Pad. Have lots of pieces but nothing compiled and up to date.	No	4	
Sedimentation Control Pond	As-built with 3D faces of all components of the sedimentation pond. Excavation, ROQ, Crush, HDPE.	6-Dec-11	Would be nice to get a compile surface file or LandXML file with all of the surface in one file.	Would be nice to have surfaces made for culvert however we do have the data and are capable of doing this.	Yes	2	
Tail Lake Access Road	3D faces of final as-built (ROQ and surfacing)	12-Dec-11			Yes	8	
Temporary Water Pond on Pad D	Survey of waste rock berm, 3D faces of waste rock berm	12-Dec-11			Yes/ NA	-	
Vent Raise Pad	3D faces of excavation, ROQ, Crush (above and below) and Liner	13-Dec-11	Concrete slab around open excavation, infrastructure (if available)	We have the bulk of what we need but to close the loop it would be good to have more data for a more comprehensive data around the Vent Raise area to assist with assessing potential grading. Mainly data around the actually	No	5	

				vent raise tunnel daylights around the Vent Raise Pad would be beneficial.			
Windy Berm	3D faces of final berm	28-Nov-11	3D faces of bentonite liner surface	Preliminary review previously completed by SRK for this area.	No	11	
Windy camp-Quarry D	OG files	14-Jul-11	Survey files (at least breaklines) to show work completed at Quarry D in 2011.		No	12	

Note that at this time we have received enough survey information to complete the following 2011 as-built reviews:

- Pollution Pond
- Sediment Pond
- Airstrip North Apron
- Frozen Core Plant Pad
- Landfarm
- RB Fuel Transfer Access Road
- RB Sedimentation Berm
- RB Laydown 5
- Tail Lake Access Road

The main areas that we still require a compilation and transmittal of survey data in agreed upon formats with Nuna Survey are for the:

- Roberts Bay Tank Farm
- Secondary Road
- Doris North Camp (2010 AB surface updated)

Finally there is a few smaller elements that we would expect more data on for the following areas:

- Vent Raise Pad
- Windy Diversion Berm Liner
- A compilation of the ROQ placed adjacent to the Airstrip, within the Airstrip Expansion Footprint.

As outlined in the conference call yesterday, in an effort to move forward, SRK is capable of completing the redline or record drawings (preliminary and final comparison of as-built versus design) for the 2011 as-builts however, it is outside of SRK's scope of work. A change order to cover this incremental work can be discussed at a later date.

It is still expected that by the end of this year's construction activities Nuna Survey will be able to provide SRK with a final compiled as-built surface for the Doris North Site earthworks. Note that this would be expected to be just one surface showing the existing infrastructure (i.e. surfaces for liners etc... would be included in the models for the individual areas and only the top surface would be included in the compiled as-built surface). By having Nuna complete this compiled/merged as-built surface the errors, omissions and time associated with interpretation/ merging of the final survey data can hopefully be reduced.

I hope this list meets your needs. Please let me know if you have any additional questions or concerns.

Cheers,

John K

John Kurylo, EIT

Staff Consultant



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RE: Hope Bay Test Results - 2012/02/15 Update

Wade, Lowell

Sent: Wednesday, February 15, 2012 11:42 AM**To:** Mark Valeriote [Markv@jdsmining.ca]; Kurylo, John; Rykaart, Maritz**Cc:** Orr, Jeff [JOrr@eba.ca]; Klassen, Renata [rklassen@eba.ca]; Bay, Hope; Horne, Bill (bhorne@eba.ca)

Hi Mark,

Your comments are correct. EBA has indicated that they can / will only report on results that they know to be accurate / true. Moving forward the field compaction test results will be calculated based on oven moisture contents rather than from the Troxler gauge. At each location that a Nuclear Densometer reading is taken, field staff will also collect moisture content sample for verification. To help provide 'on the fly' field indications / preliminary checks of compaction and saturation the Nuclear Densometer will be used however, going forward, only the Troxler tests that have been correlated to the true oven dried moisture contents will be officially reported by EBA.

Based on this and last year's laboratory testing, we have observed that the current FCM blend, with moisture contents around the ~ 9 to 11.5% range could be placed and compacted to meet our minimum saturation and compaction specifications. We have observed that if we go below this range we typically are not meeting our saturation requirements and if we go above this range then we have historically run into issues of excessive FCM ponding and bleeding. As a rough generalization, it has been observed in the field, there is approximately a 2% variation between the Laboratory and Nuclear Densometer moisture contents. In the past, those in the field have been looking for Troxler moisture contents around the 11+% range to ensure that saturation is being upheld. If memory serves me correctly, SRK, EBA and you have had discussions about this periodically through the North Dam construction.

The main change here will just be in the reporting of the compaction test results. Construction activities will remain unchanged; however, SRK and EBA field staff will be instructed to be extra vigilant to ensure that we are only placing FCM with high enough moisture contents to achieve the minimum saturation requirements.

Please contact us if you would like to discuss any of this.

Sincerely,

Lowell Wade and John Kurylo

From: Mark Valeriote [mailto:Markv@jdsmining.ca]

Sent: Wednesday, February 15, 2012 7:45 AM

To: Kurylo, John; Wade, Lowell; Rykaart, Maritz

Cc: Orr, Jeff; Klassen, Renata

Subject: RE: Hope Bay Test Results - 2012/02/15 Update

I see that a few caveats have now been added to the compaction test result report.

* Moisture content from Troxler gauge is not accurate

** Degree saturation calculated based on moisture content from Troxler gauge is not accurate and is for indication purposes only.

If the moisture content from the Troxler is not correct the resultant dry density and compaction is not right, unless one obtains a sample for an oven-dried moisture content which is then used to determine dry density, compaction, and saturation.

From: Palczewski, Ernest [mailto:epalczewski@eba.ca]

Sent: Wednesday, February 15, 2012 7:46 AM

To: Palczewski, Ernest; Kurylo, John; Wade, Lowell; Rykaart, Maritz; Mark Valeriot; Bay, Hope; EBA.Hopebay

Cc: Orr, Jeff; Klassen, Renata; Borowski, Lawrence; Miller, Megan; McGregor, Murray; Stirling, Jennifer; Bradshaw, Thomas; Zschuppe, Robert; Horne, Bill; Miskolczi, Iozsef

Subject: Hope Bay Test Results - 2012/02/15 Update

Hey everyone,

Please find attached the updated 'unreviewed draft' test results from recent North Dam material testing. Additional results to follow in the coming days.

Thanks,
Ernest

Ernest Palczewski B.Sc., Geol.I.T. | Junior Geologist - Arctic
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Replaced Jetty Thermistor Information

Mike Price [mikepr@nunalogistics.com]

Sent: Monday, April 30, 2012 7:30 AM
To: Jill Turk [Jill.Turk@Newmont.com]; David Vokey [David.Vokey@Newmont.com]; Bay, Hope; Wade, Lowell
Cc: Gary Sodhi [garys@nunalogistics.com]; Trevor Sorken [trevors@nunalogistics.com]; Doug Haverland [dough@nunalogistics.com]
Attachments: AB 120426 JETTY THERMISTO~1.CSV (379 B) ; AB 120426 JETTY THERMISTE~1.dwg (105 KB)

Jill / Dave,

Below are the revised bead depths for the new thermistor at the Roberts Bay Jetty.

Jetty T2		
	Elevation	Bead Spacing (m)
Road Surface	1.75	
Collar of hole	1.44	
1st bead	1.14	
2nd bead	0.54	0.6
3rd bead	0.14	0.4
4th bead	-0.36	0.5
5th bead	-0.86	0.5
6th bead	-1.86	1
7th bead	-4.36	2.5

Thanks,

Mike Price

Site Engineer - Hope Bay Project
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