

August 1, 2014

Yukon Zinc Corp.
#701 – 475 Howe Street
Vancouver, British Columbia
V6C 2B3

Robin McCall
Wolverine Mine Environmental Superintendent

Dear Mr. McCall:

Wolverine Mine Tailings Facility
2014 Annual Tailings Facility Physical Inspection

1 INTRODUCTION

1.1 General

This letter report presents the findings from the annual Dam Safety Inspection (DSI) of the Wolverine Tailings Facility as required by Quartz Mining License QML-0006. The inspection was carried out on June 10 to June 12, 2014 by Mr. Lowell Constable of Klohn Crippen Berger Ltd. (KCB). This report includes a summary of the stability and status of inspected structures, and provides recommendations for remedial action where necessary. Recommendations made in this report are compiled in Table 5.1 at the end of the letter.

The starter dam for the Wolverine tailings facility was constructed in 2009 and 2010 and was commissioned in October 2009. The main facility components that were constructed in 2009 include:

- a 19 m high homogeneous earthfill dam constructed with borrow material excavated from the impoundment area;
- a 40 mil LLDP geomembrane liner over the impoundment area. The liner is anchored into the dam crest and perimeter of the impoundment in a ditch backfilled with soil; and
- Diversion Ditch A and Diversion Ditch B, which direct non-contact runoff water around the impoundment.

The main facility components that were constructed in 2010 include:

- the reclaim pump barge and access ramp;
- tailings delivery pipelines and water reclaim pipelines;
- starter dam emergency spillway;
- seepage recovery pond dyke and water pump-back system; and

- monitoring instrumentation.

The dam was raised in 2012 to the Stage 2 crest elevation (El. 1313.5 m). The main facility components that were constructed in 2012 include:

- a 6 m high downstream dam raise;
- a 60-mil LLDPE liner on the raised impoundment;
- relocated Diversion A, to direct non-contact surface water around the impoundment; and
- riprap lined emergency spillway.

The tailings impoundment has been accumulating water from runoff, mine discharge, and the sewage treatment plant since October 2009. Tailings have been discharged to the impoundment since September 2010. The tailings solids volume at the time of the site visit was approximately 444,100 m³. This was taken from reported tailings tonnages provided by YZC at an assumed *in situ* density of 1.6 t/m³. The volume of water at the time of the site visit was approximately 405,600 m³, based on the total volume estimated from the pond elevation and the as-built stage-storage curve.

1.2 Dam Classification

The Canadian Dam Association Dam Safety Guidelines (CDA 2007) were adopted to confirm the classification of the tailings facility for seismic and flood protection criteria. The selected dam classification, based on the dam break analysis and assessment of consequences of failure is “High” to “Very High”, and the criteria for Very High has been selected for design. The use of the Very High rating provides additional security for the long term performance of the tailings facility after closure.

The impoundment is designed to safely route the 1:10,000 year return period flood through the Stage 2 spillway located in the west flank of the dam. During operations, the tailings facility will also store the 1:200 year return-period flood event, without the release of water. The design earthquake is a 1:10,000 year return period, with a peak ground acceleration of 0.22 g. The minimum geotechnical factors of safety during operations are 1.5 for static stability and 1.1 for pseudo-static stability.

1.3 Documentation

The main documentation for the Wolverine Tailings Facility includes:

- Yukon Zinc Corp., Wolverine Project, Tailings Facility, *Operations, Maintenance and Surveillance (OMS) Manual*, V2010-01, August 2010.
- Klohn Crippen Berger Ltd. (2009). *Wolverine Project - Tailings and Related Infrastructure Design and Construction Plan*, V2009-02. Vancouver: Klohn Crippen Berger Ltd.
- Klohn Crippen Berger Ltd. (2010). *Wolverine Project – Starter Tailings Storage Facility – 2009 Civil Works Construction Summary Report*. Vancouver: Klohn Crippen Berger Ltd.

- Klohn Crippen Berger Ltd. (2011a). 2010 Civil Works Addendum to *Starter Tailings Storage Facility – 2009 Civil Works Construction Summary Report*. Vancouver: Klohn Crippen Berger Ltd.
- Klohn Crippen Berger Ltd. (2011b). *Annual Tailings Facility Physical Inspection*.
- Klohn Crippen Berger Ltd. (2012). *2012 Civil Works Construction Summary Report*. Vancouver: Klohn Crippen Berger Ltd.
- Yukon Water Board. (2007, October 4). Type A Water Use Licence QZ04-065. Whitehorse, YT, Canada.

YZC provided KCB with Monthly Impoundment Monitoring Reports which conform to Operations, Maintenance and Surveillance (OMS) Manual requirements.

The OMS Manual was last updated in July 2010, before the facility was raised to its current crest elevation. A review of the OMS Manual and update if required is recommended.

2 SITE INSPECTION OBSERVATIONS

A walkover inspection of the facility was carried out during the June 10 to June 12 site visit. Observations of various components of the facility were made and these are documented in the following sections for record purposes. Weather during the walkover was sunny. Select photos of the facilities are provided in Appendix I.

2.1 Dam

- The dam is in good condition and there are no signs of settlement, cracking or slope movement. Some minor cracks were observed around the reclaim line on the dam crest, likely due to surficial settlement due to local loading.
- In 2011 there had been clear seepages along the toe of the starter dam), observed and noted in the 2011 Annual Tailings Facility Inspection Report. The seepages were buried during the 2011 dam raise and have not reappeared.

2.2 Stage 2 Dam Emergency Spillway

The spillway would only be used during an extreme event (e.g. >200 year flood) when the impoundment is near full storage capacity. The spillway is located within natural ground. The spillway outlet consists of a riprap lined channel through the dam crest.

Currently the spillway channel reports to the east ditch along the Mine Haul Road. The closure spillway design extends the flow channel across the Mine Haul Road to report to the existing catch basin above Go Creek. YZC will extend the spillway to the catch basin for closure.

2.3 Impoundment Area and LLDPE Geomembrane Liner

- The liner was generally in good condition, with the exception discussed in item 2 and 3 below. YZC inspects the liner for defects as a part of routine surveillance as laid out in the OMS. Defects are not considered a concern provided they are small and patched when they are found.
- The north slope of the impoundment had slumped affecting the anchoring of the liner. During the DSI the length of the liner affected by the slump was approximately 3 meters along the anchor trench. Since then site has reported the condition is worsening. It is probable that water from Diversion Ditch A is seeping to the toe of the impoundment slope and causing the instability. KCB recommended that Diversion Ditch A be lined to cut off this seepage path and that tailings be placed in the north end of the impoundment to shore up the toe of the impoundment slope. This remedial work is underway.
- Cracking observed along the crest at the north end of the impoundment in 2013 had reopened as a part of the instability described in Item 2 above. Cracks ranged from 1 mm to 10 cm wide and ran approximately 100 m parallel to the crest of the impoundment slope. KCB recommends that the cracks be covered with plastic in the short term to prevent direct water ingress while the remedial works to Diversion Ditch A are completed. Once Diversion Ditch A is lined, the cracked area can be regraded and recompacted to close the cracks. This area should be monitored regularly during weekly and monthly inspections and after major storm events or seismic events.

2.4 Liner Underdrains

The liner underdrains, which consist of a French drain with a perforated pipe under the liner and two solid pipes under the dam, are performing as designed. There was no inflow into the underdrains at the upstream end of the impoundment Ditch A and the underdrain inlet.

The flow out of the underdrains daylighting downstream of the seepage dam is approximately 7 L/s, similar to flows observed during the 2013 DSI.

The purpose of the underdrains was to relieve uplift pressure on the liner during construction. As the impoundment becomes full, and the weight of water and tailings increases, the requirement for the underdrain diminishes and they will be decommissioned at a later stage of operations.

2.5 Seepage Recovery Pond and Dyke

The seepage recovery pond is a contingency structure which was installed to provide further security against the very low risk of impoundment seepage. The dam is formed by the mine access road and extreme flood flows are routed through a spillway culvert through the dam. Since construction of the TSF, water collected in the seepage recovery pond is currently pumped back to the tailings impoundment. The seepage impoundment area consists of an irregular pond partially shaped by areas excavated for construction of the main dam and the natural topography. No water quality data was reviewed but YZC reports that water in the seepage collection pond meets release targets but is still pumped back into the tailings impoundment at an average rate of 900 m³ per month.

The spillway culverts in the seepage pond exits into a rockfill channel-stilling area, which flows towards Go Creek. The rockfill appeared to be in good condition and will function to control erosion during extreme events.

Seepage collection ditches along the toe of the dam fill were dry. No seepage was observed from any of the dam faces or abutments.

2.6 Diversion Ditch A and Diversion Ditch B

Diversion Ditch B had no observed flow in the channel east of the tailings impoundment. The soils in the base of the ditch and along the slope that the ditch traverses are relatively pervious and most slope runoff appears to infiltrate into the slope. The ditch exits into a culvert, which extends down the slope towards the toe of the seepage dam, where it outlets into a rockfill stilling basin. The stilling basin was in good condition. ~0.1 L/s was observed coming out of the culvert on the downstream end.

Diversion Ditch A was in good condition. Coconut mats had been used to limit sediments in 2013 had been removed because they had partially blocked the culverts and water had built up in the ditch to as much as 1 m deep. During the 2014 DSI the ditch was flowing at approximately 20 cm deep. The ditch exits into a culvert and rockfill stilling basin. The stilling basin was in good condition. The flow into the stilling basin was ~2 L/s.

2.7 Other Infrastructure

The tailings water reclaim pump barge, pumps and reclaim water lines have been installed and are readily accessible with a ramp down the upstream slope of the dam. Short stretches of the outer reclaim pipe wall had been damaged by equipment during relocation during the 2012 construction, but there was no indication reported by YZC that the damage was limiting the performance of the pipeline.

The tailings delivery pipelines were in place to the northwest side of the impoundment.

The tailings water reclaim pump barge and pumps are in place at the south end of the impoundment. A thick conveyor liner has been placed under the ramp to protect the geomembrane liner. No areas of liner damage were observed. The design called for relocation of the reclaim barge closer to the final spillway, and relocation of the tailings deposition spigots to the crest of the main dam, in order to gradually move the pond away from the dam face and closer to the spillway for closure. The relocation will be undertaken at the earliest opportunity.

Construction of a water treatment plant has been delayed, and as such the impoundment is currently storing more water than anticipated. Since the current volume of tailings is less than anticipated the overall current storage volume is close to what was predicted by the design water balance. YZC is in process of designing the water treatment plant for construction and commissioning in the next year.

2.8 Waste Rock Pad

North of the tailings facility is a temporary lined waste rock storage pad. The diversion ditches were dry but appeared to be functional. The service layer above the liner which had not been covered by waste rock was washed out and loose. Since the waste rock is currently being removed and complete removal of the stockpile is planned over the next year, remediation of the reduced service layer is not required, provided care is taken during operations near the liner, and any damage to the liner is repaired.

3 INSTRUMENTATION

Instrumentation for the dam consists of piezometers, survey pins and inclinometers. Groundwater monitoring wells, upstream and downstream of the tailings facility, continue to be monitored.

Piezometers were installed in both the dam foundation and the damfill. In general, piezometric levels in the foundation are about 2 m below the foundation elevation. Piezometric levels in the dam fill are about 2 m above the foundation level. Elevated groundwater levels in April, May and June are due to seasonal changes, and there appears to be a pattern to these fluctuations over the past 3 years. All water levels are within parameters required for stability (i.e. below “yellow trigger” levels defined in the OMS Manual), with the exception of a spike in pore water pressure reading in May and June, 2012 in PZ-10-03. This spike coincided with the beginning of fill placement for the Stage 2 Dam raise, and it is likely, given the subsequent drop off in water level, that the spike was due to a pore water response to initial fill placement. The piezometer data is presented in Appendix II.

Inclinometers were installed in the downstream slope of the dam. Both inclinometers have been damaged. YZC is considering installation of alternate slope monitoring array technology in the inclinometer casing to re-establish monitoring this location. KCB has no objections to this approach, but recommends the survey monuments specified in the design be installed around the crest of the dam to provide some monitoring of slope movement. The inclinometer data collected to date has not indicated any significant slope movement. The inclinometer data is presented in Appendix III.

4 WATER BALANCE

The water balance was reviewed and updated with as-built data from the Monthly Monitoring Reports and updated forecasts regarding production and water treatment. The water balance indicates that if the water treatment plant is operational by May, 2015, the pond elevation can be managed by treating at an average rate of 14 m³/hr for 6 months out of the year. This will allow YZC to manage release times to best take advantage of natural high flow periods to limit the impact of introducing additional flows.

The updated water balance is presented in Appendix IV.

5 CONCLUSIONS AND RECOMMENDATIONS

The tailings facility is performing as expected. The dam structure appears stable and no indicators of concerns were observed.

The main recommendations of this review are summarized in Table 5.1. Deadlines for action on the recommendations have been categorized as:

- (A) requiring attention within 3 months; or
- (B) requiring attention within 12 months.

Table 5.1 Table of Recommendations from 2013 Dam Safety inspection

Recommendation	Deadline for Action
Continue to operate the facility as described in the Operation, Maintenance and Surveillance Manual V2010-01. Include regular monitoring of the slumping and cracking at the north end as a part of regular surveillance of the facility.	B
Conduct remedial works on Diversion Ditch A and on cracked and slumped area at north end of the impoundment.	A
Finalize design for and construct water treatment plant.	B
Install survey pins around dam crest and include in monthly monitoring.	B
Assess alternatives for relocating the reclaim barge and put a plan in place for this work.	B
Review OMS Manual and Update as required	B
The next Dam Safety Inspection should be in 1 year.	B

6 CLOSING

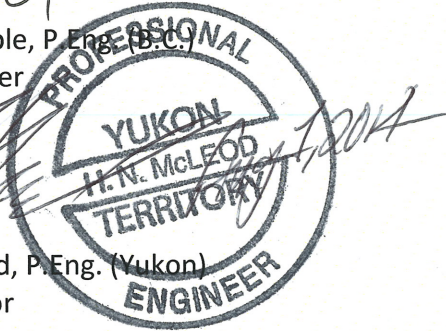
This report is an instrument of service of Klohn Crippen Berger Ltd. The report has been prepared for the exclusive use of Yukon Zinc Corp. (Client) for the specific application to the Wolverine Mine Tailings Facility. The report's contents may not be relied upon by any other party without the express written permission of Klohn Crippen Berger. In this report, Klohn Crippen Berger has endeavoured to comply with generally-accepted professional practice common to the local area. Klohn Crippen Berger makes no warranty, express or implied.

Yours truly,

KLOHN CRIPPEN BERGER LTD.



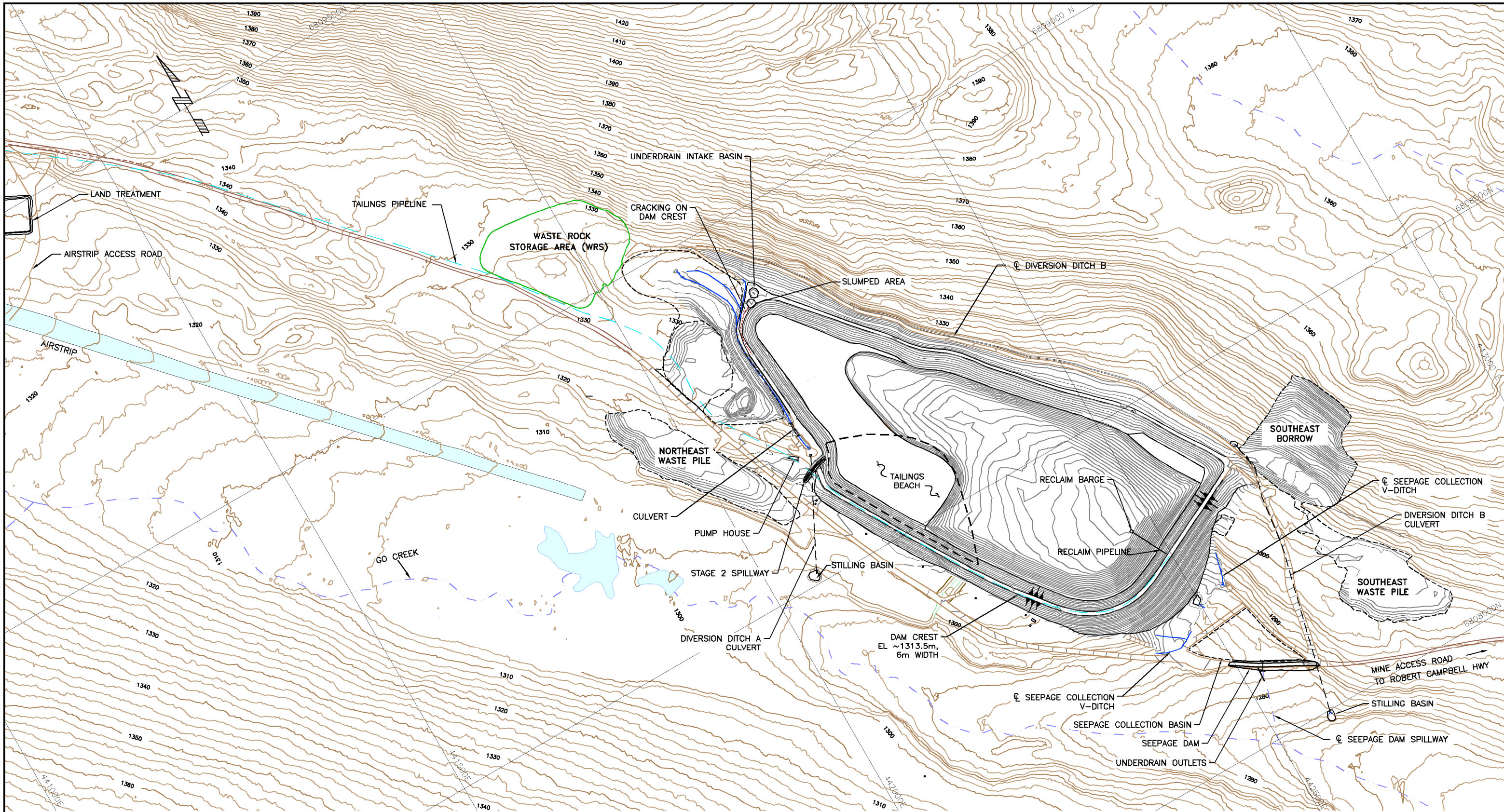
Lowell Constable, P. Eng. (B.C.)
Project Manager



Harvey McLeod, P. Eng. (Yukon)
Project Director

LC:jcp

- Attachments:
- Figure 1 - Plan of 2014 Site Visit Observations
 - Appendix I - Photo Record
 - Appendix II - Piezometric Water Levels
 - Appendix III – Inclinator Readings
 - Appendix IV – Water Balance
 - Appendix V – 2014 Dam Safety Inspection Checklist



NOTES
 1. NOT ALL CULVERTS HAVE BEEN SHOWN.
 2. ALL ELEVATIONS IN METRES.

NOT FOR CONSTRUCTION



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DWG. NO. REFERENCE DRAWINGS		PROJECT PROCESS: CIVIL, MECH, STRUCT, PIPING, SERVICES, ELECT, INSTR, NO		PROJECT PROCESS: CIVIL, MECH, STRUCT, PIPING, SERVICES, ELECT, INSTR, NO		A ISSUED FOR 2014 ANNUAL INSPECTION REPORT LC AUG 15/13 NO DESCRIPTION ISSUE/REVISIONS BY DATE	

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APPENDIX I

Photo Record

Appendix I Photo Record



Photo 1 **Dam crest and downstream face**



Photo 2 **View from west side of impoundment, looking south**



Photo 3 **View from west side of impoundment, looking east**



Photo 4 View from west side of impoundment, looking north



Photo 5 **Reclaim Line and upstream dam face**



Photo 6 Reclaim Barge

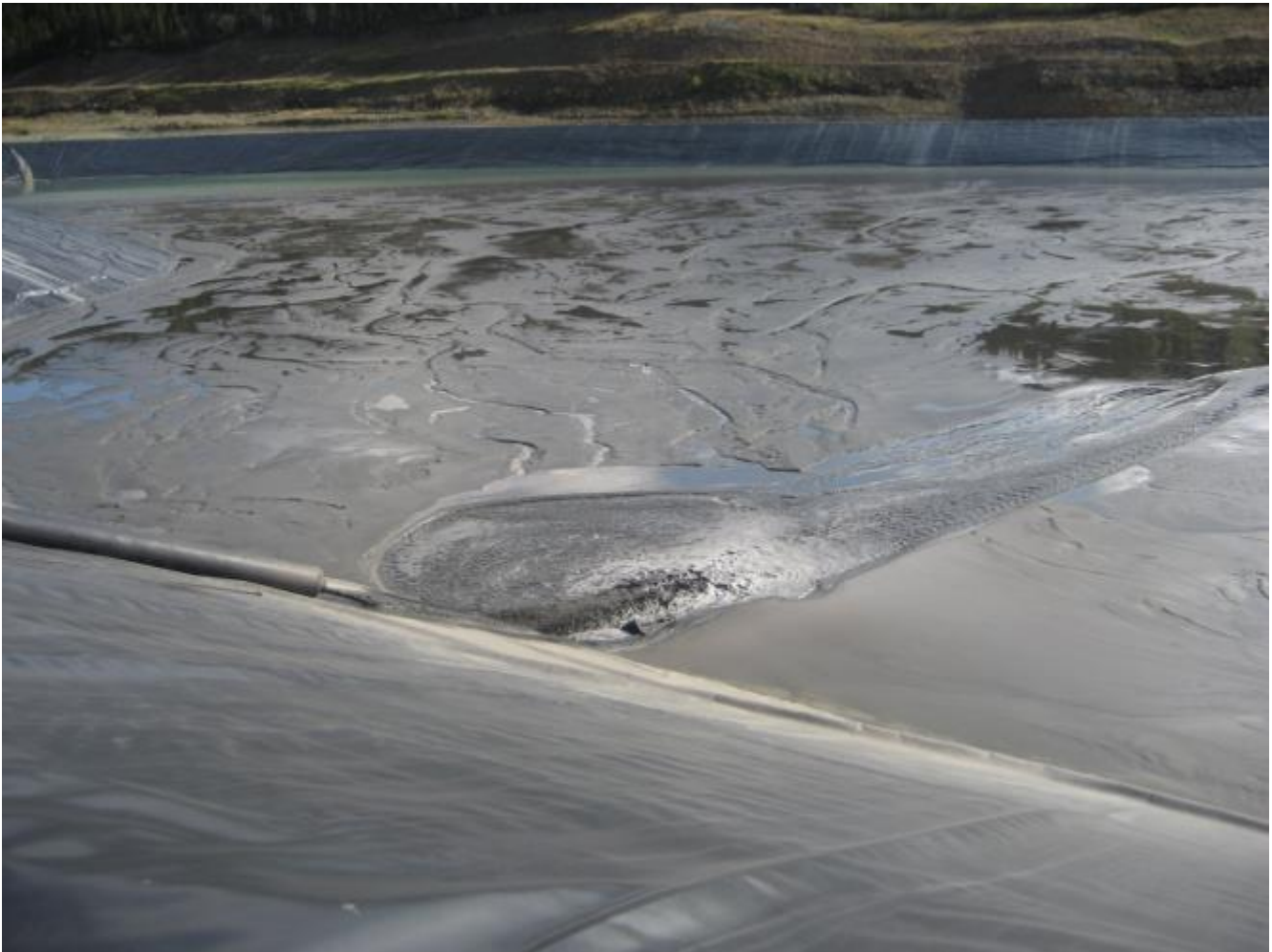


Photo 7 Tailings deposition in northwest corner



Photo 8 Tailings Beach from east side of impoundment looking west



Photo 9 **Impoundment from east abutment looking north**

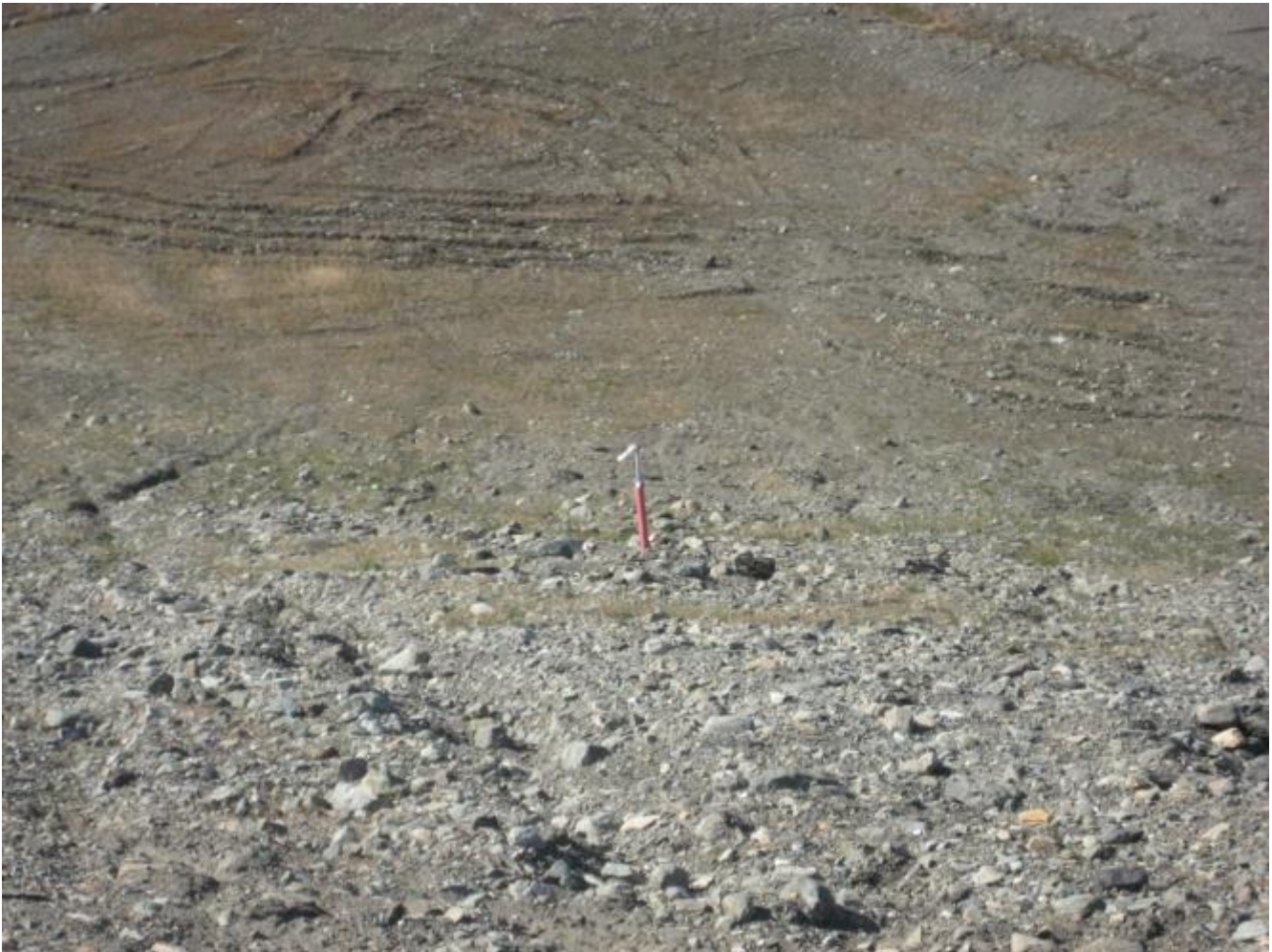


Photo 10 **Inclinometer IN-10-02**



Photo 11 **Toe of West arm of dam**



Photo 12 **Toe of Southeast arm of dam**



Photo 13 Underdrain inlet north of impoundment



Photo 14 **Underdrain outlet**



Photo 15 **Downstream of underdrain outlet**



Photo 16 Spillway taken from Mine Access Road



Photo 17 **Diversion B looking downstream**



Photo 18 **Diversion B culvert inlet**



Photo 19 **Diversion B culvert outlet**



Photo 20 **Diversion A**



Photo 21 **Diversion A culvert inlet**



Photo 22 **Diversion A culvert outlet**



Photo 23 **Cracks at North End of impoundment**



Photo 24 Cracks at north end of impoundment on crest



Photo 25 **Slumping in north end of impoundment**



Photo 26 Cracks around slumping area



Photo 27 Slump at north end of impoundment from dam



Photo 28 **Seepage Collection Basin**



Photo 29 **Seepage Collection Basin Spillway**



Photo 30 **Waste Rock Storage Pile**



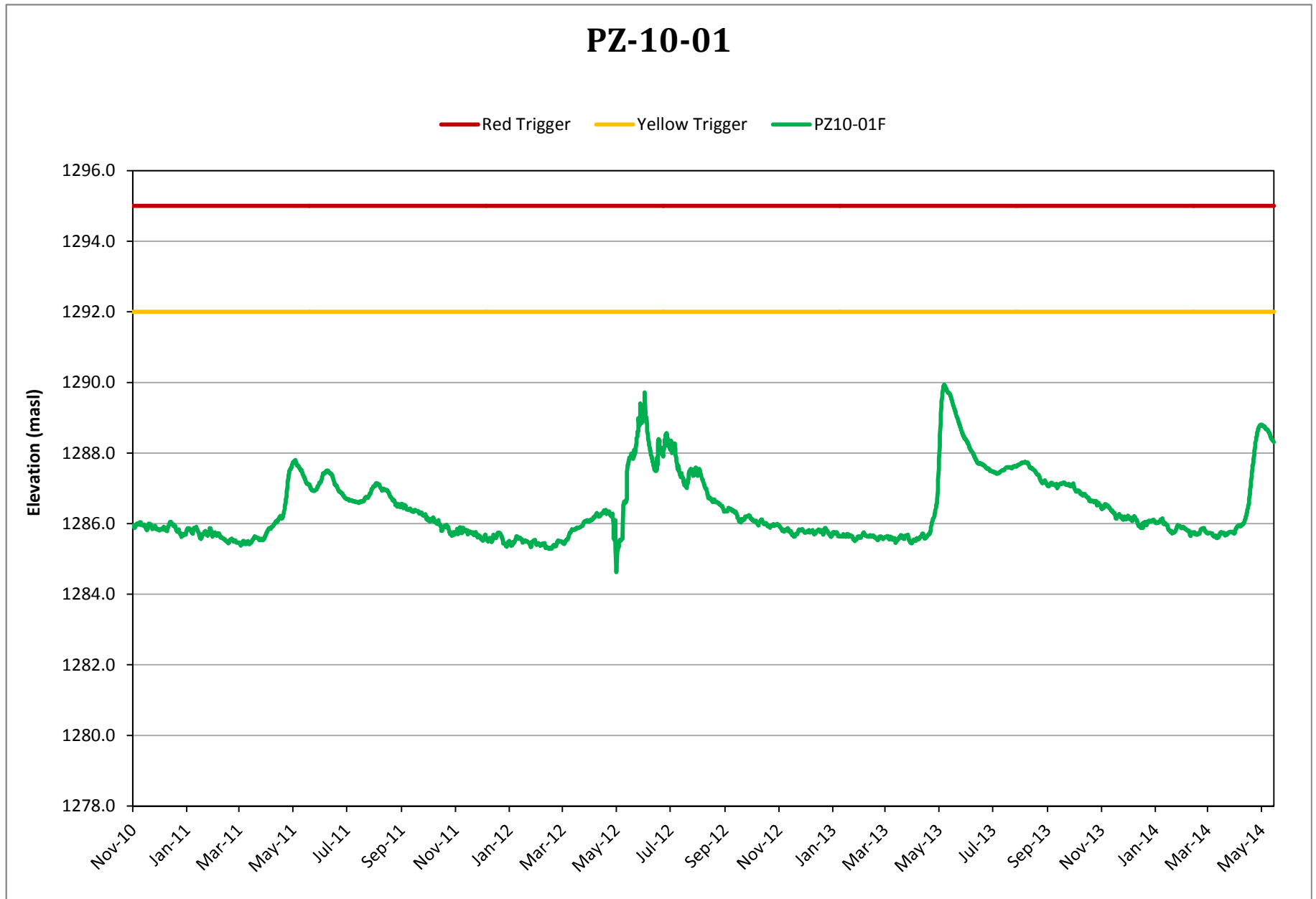
Photo 31 **Waste Rock Seepage Collection**

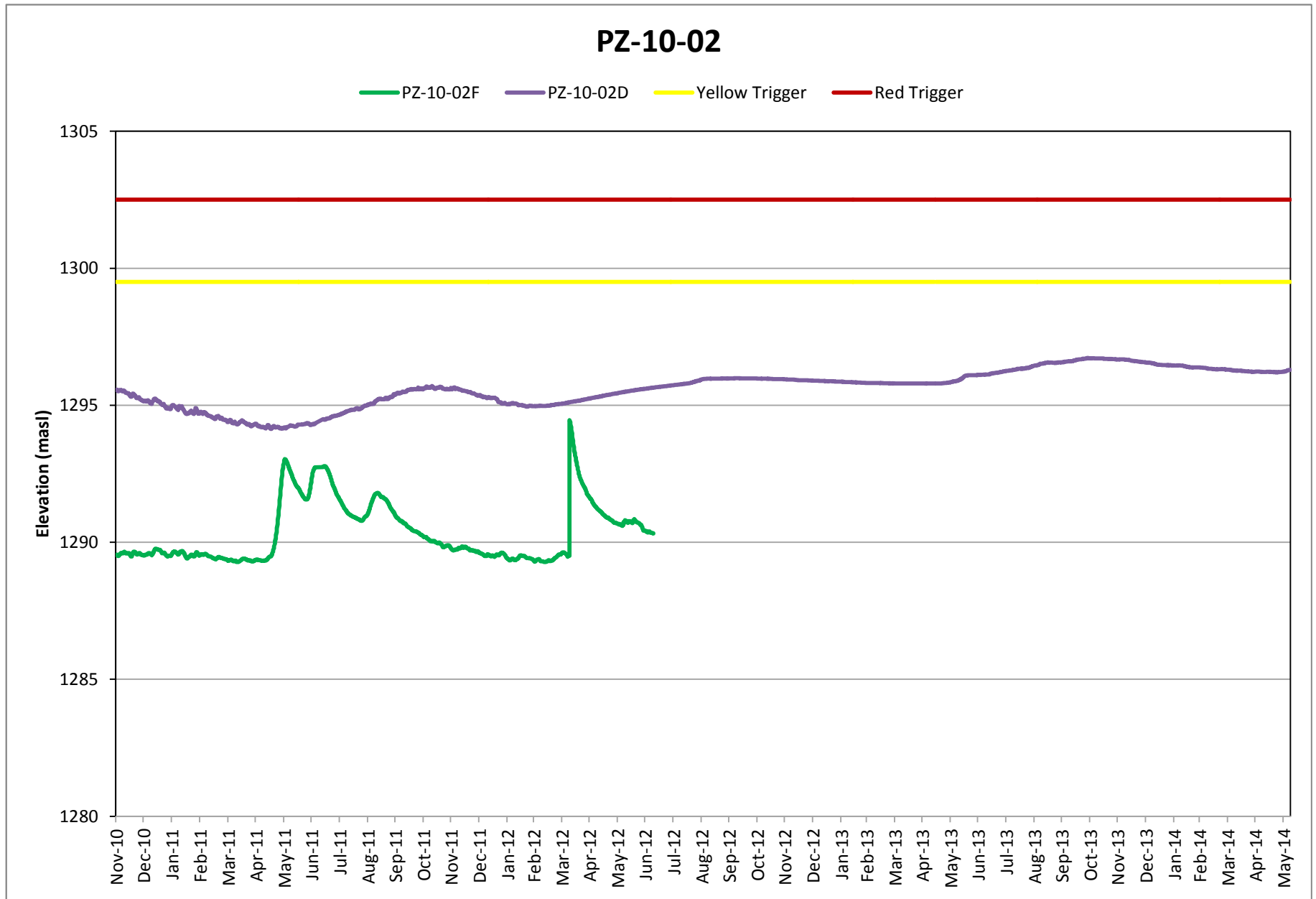


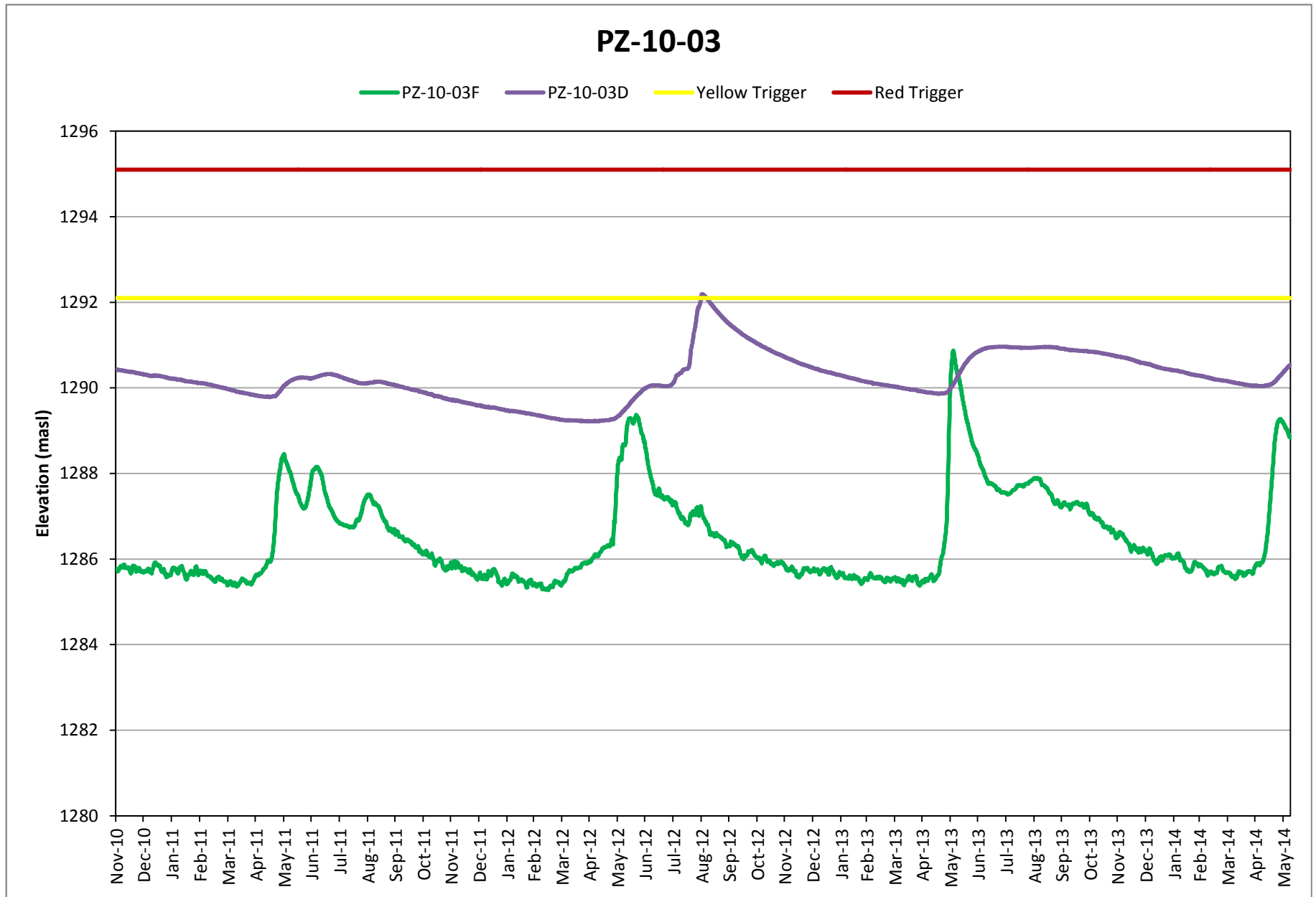
Photo 32 **Waste Rock Seepage and Underdrain outlets**

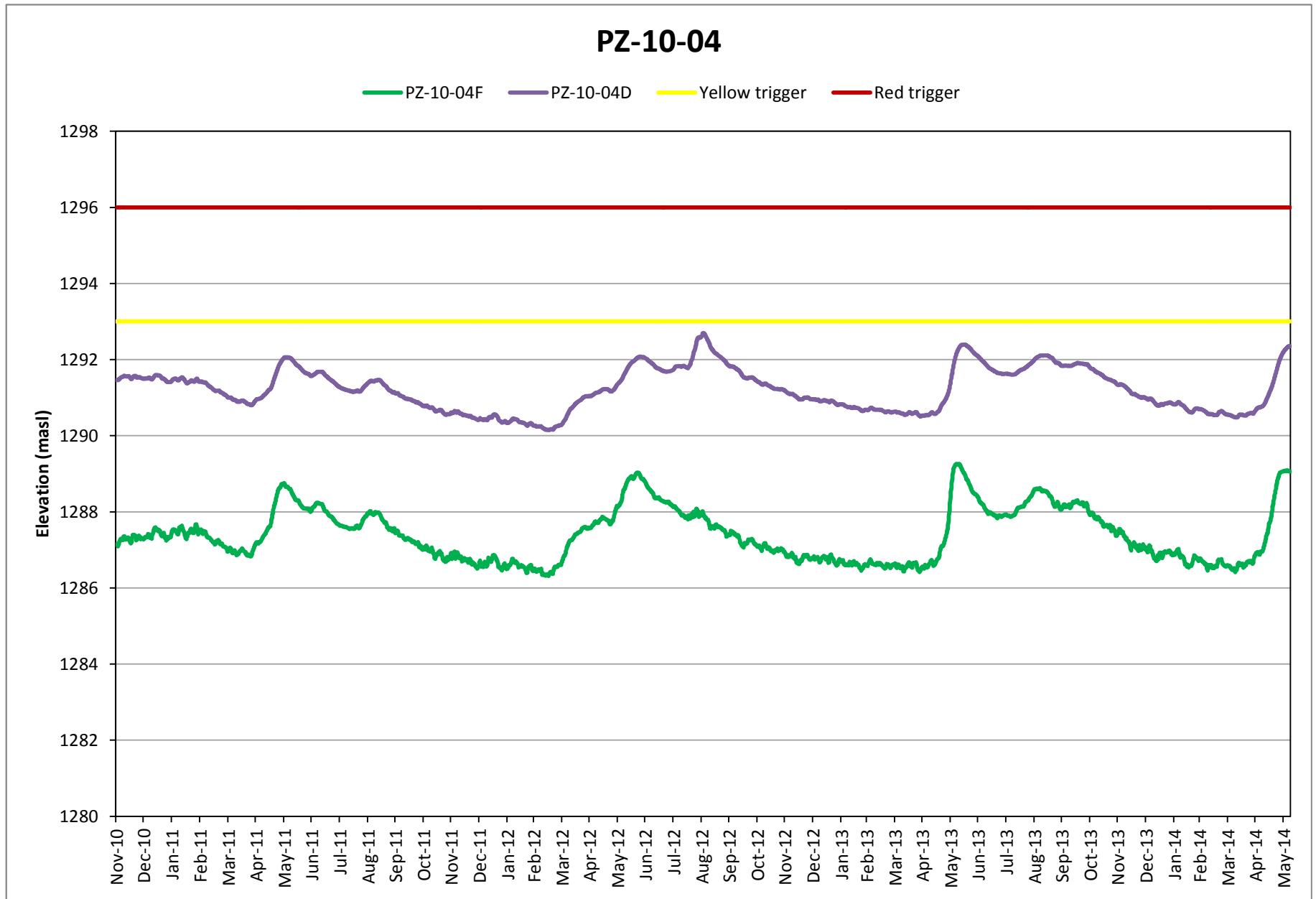
APPENDIX II

Piezometric Water Levels









APPENDIX III

Inclinometer Readings

RST Digital Inclinometer Data					RST Digital Inclinometer Data					RST Digital Inclinometer Data					RST Digital Inclinometer Data				
File Version 2.2					File Version 2.2					File Version 2.2					File Version 2.2				
File Type Digital Inclinometer					File Type Digital Inclinometer					File Type Digital Inclinometer					File Type Digital Inclinometer				
Site TAILINGS DAM					Site TAILINGS DAM					Site TAILINGS DAM					Site TAILINGS DAM				
Borehole IN10-01					Borehole IN10-01					Borehole IN10-01					Borehole IN10-01				
Probe Serial# DP06420000					Probe Serial# DP06420000					Probe Serial# DP06420000					Probe Serial# DP06420000				
Reel Serial# DR11930000					Reel Serial# DR11930000					Reel Serial# DR11930000					Reel Serial# DR11930000				
Reading Date(m/d/y) 06/01/2011 10:18:26					Reading Date(m/d/y) 07/04/2011 11:58:38					Reading Date(m/d/y) 09/07/2011 10:16:53					Reading Date(m/d/y) 08/23/2012 7:35:36				
Depth -13.5 -0.5					Depth -13.5 -0.5					Depth -13.5 -0.5					Depth -25 -0.5				
Interval 0.5					Interval 0.5					Interval 0.5					Interval 0.5				
Depth Units meters					Depth Units meters					Depth Units meters					Depth Units meters				
Reading Units meters					Reading Units meters					Reading Units meters					Reading Units meters				
Operator					Operator					Operator					Operator				
Comment:					Comment:					Comment:					Comment:				
Comment End:					Comment End:					Comment End:					Comment End:				
Offset Correction 0					Offset Correction 0					Offset Correction 0					Offset Correction 0				
Depth	Face A+	Face A-	Face B+	Face B-	Depth	Face A+	Face A-	Face B+	Face B-	Depth	Face A+	Face A-	Face B+	Face B-	Depth	Face A+	Face A-	Face B+	Face B-
-0.5	0.03549719	-0.03484	-0.00044	0.00152	-0.5	-0.03277902	-0.00198	0.003351	-0.035486	-0.5	0.03684534	-0.00286189	-0.00157251	-0.035073	-0.5	0.2644787	-0.263826	-0.039963	0.040553
-1	0.02959396	-0.02889	-0.00355	0.004268	-1	-0.02575174	-0.00481	0.004691	-0.028627	-1	0.03064328	-0.00520407	-0.00421596	-0.02866	-1	0.2633183	-0.262579	-0.03975	0.040726
-1.5	0.01618515	-0.01617	-0.00122	0.002106	-1.5	-0.0112382	-0.00294	-0.00019	-0.0155	-1.5	0.01724242	-0.0023579	-0.00189857	-0.013927	-1.5	0.2465453	-0.245933	-0.036788	0.036972
-2	0.00541703	-0.00458	0.003651	-0.00324	-2	-0.00533758	0.003481	-0.00195	-0.005247	-2	0.00597843	0.00311221	0.00321947	-0.005267	-2	0.2209121	-0.220221	-0.033191	0.03314
-2.5	0.00774799	-0.00696	0.000624	-9.7E-05	-2.5	-0.00814819	0.000785	0.000941	-0.007312	-2.5	0.00788357	0.00051606	0.00062805	-0.007561	-2.5	0.2122052	-0.211373	-0.029576	0.030814
-3	0.0086958	-0.00791	-0.00137	0.001842	-3	-0.00773835	-0.00134	0.002234	-0.008194	-3	0.00885866	-0.00131236	-0.00145419	-0.00816	-3	0.2006788	-0.200079	-0.03033	0.030147
-3.5	0.00764286	-0.00674	-0.00203	0.002501	-3.5	-0.00670413	-0.00189	0.002492	-0.0071	-3.5	0.00775447	-0.00196087	-0.00209352	-0.007126	-3.5	0.1617234	-0.160807	-0.029086	0.02984
-4	0.00655298	-0.00574	-0.00189	0.002301	-4	-0.00555293	-0.00169	0.002166	-0.006036	-4	0.00669529	-0.00176738	-0.00183402	-0.005853	-4	0.1463327	-0.145789	-0.031244	0.03092
-4.5	0.00531532	-0.00469	-0.0016	0.00213	-4.5	-0.00404134	-0.00153	0.002406	-0.004693	-4.5	0.00548341	-0.0015107	-0.00163974	-0.004689	-4.5	0.1326445	-0.131769	-0.024853	0.024763
-5	0.00258903	-0.00175	-0.00163	0.002158	-5	-0.001607	-0.00149	0.002087	-0.001993	-5	0.00257662	-0.00157502	-0.00178374	-0.00192	-5	0.1184334	-0.118564	-0.020735	0.023881
-5.5	0.00117924	-0.00033	0.00018	0.000214	-5.5	-0.00020902	0.000338	-0.00072	-0.000606	-5.5	0.00253933	0.00024245	-0.00168629	-0.00055	-5.5	0.1168787	-0.115398	-0.023495	0.03661
-6	0.00067715	0.000149	0.002656	-0.00222	-6	0.00057452	0.002834	-0.00215	-6.36E-05	-6	0.00122692	0.00283278	0.00015837	-6E-05	-6	0.1595054	-0.15639	-0.049575	0.068024
-6.5	-0.00084669	0.001706	0.002741	-0.00232	-6.5	0.00198169	0.002824	-0.00266	0.001594	-6.5	0.00071888	0.0027921	0.00258431	0.001555	-6.5	0.1764502	-0.190842	-0.102417	0.078703
-7	-0.00157433	0.002307	0.004002	-0.00365	-7	-0.00231279	0.004301	-0.0039	0.002178	-7	-0.00159324	0.00419577	0.00397	0.00213	-7	0.1799327	-0.189965	-0.098745	0.083569
-7.5	-0.0019792	0.002741	0.005498	-0.00507	-7.5	0.00312999	0.004753	-0.00483	0.003685	-7.5	-0.00185139	0.00575885	0.00555828	0.002571	-7.5	0.1630579	-0.17407	-0.087042	0.075715
-8	-0.00450982	0.005366	0.003584	-0.00309	-8	0.00540544	0.004381	-0.00326	0.005389	-8	-0.00448922	0.00373999	0.00353981	0.00505	-8	0.1294781	-0.128295	-0.022684	0.022939
-8.5	-0.00488626	0.005681	0.004691	-0.00433	-8.5	0.00540274	0.005827	-0.00442	0.004745	-8.5	-0.0049078	0.00487652	0.00472243	0.005667	-8.5	0.12518	-0.124939	-0.018989	0.017547
-9	-0.00393315	0.00476	0.006089	-0.00573	-9	0.0045731	0.006287	-0.00583	0.004483	-9	-0.00395238	0.00618817	0.00598978	0.004568	-9	0.1026617	-0.101815	-0.010091	0.0112
-9.5	-0.00281408	0.003628	0.008076	-0.00766	-9.5	0.00365276	0.008317	-0.00766	0.003406	-9.5	-0.00283752	0.00814804	0.00801293	0.003721	-9.5	0.07582869	-0.075343	-0.016763	0.016985
-10	-0.00099548	0.000809	0.009516	-0.00918	-10	0.00078289	0.009845	-0.00916	0.0003	-10	-0.00026409	0.00976668	0.00946137	0.000409	-10	0.05201747	-0.050787	-0.012859	0.013022
-10.5	0.00121419	-0.00056	0.011221	-0.0109	-10.5	-0.00049003	0.011462	-0.01082	-0.000378	-10.5	0.00118301	0.01144902	0.01123339	-0.000504	-10.5	0.03917777	-0.038715	-0.006355	0.006333
-11	0.00156495	-0.00056	0.011484	-0.0111	-11	-0.00049439	0.011651	-0.01117	-0.000804	-11	0.00144067	0.01168861	0.01156014	-0.000847	-11	0.02611825	-0.024688	0.004313	-0.00392
-11.5	0.00230779	-0.00159	0.011545	-0.01125	-11.5	-0.00159868	0.011829	-0.01131	-0.001761	-11.5	0.00222801	0.01179569	0.01154338	-0.001705	-11.5	0.01356231	-0.012698	0.0012426	-0.01232
-12	0.00392225	-0.00306	0.011152	-0.01074	-12	-0.00305542	0.011248	-0.01076	-0.003291	-12	0.00387195	0.01132225	0.01114401	-0.003207	-12	0.01275911	-0.01201	0.012017	-0.01143
-12.5	0.00439624	-0.00357	0.010235	-0.0098	-12.5	-0.00356452	0.010227	-0.00982	-0.00364	-12.5	0.00435088	0.01040505	0.01022866	-0.003738	-12.5	0.00047152	0.000677	0.011897	-0.01163
-13	0.00464138	-0.00376	0.009978	-0.00954	-13	0.00386496	0.01018	-0.0094	-0.003953	-13	0.00459494	0.01015973	0.00996239	-0.003971	-13	0.00716074	-0.006374	0.009068	-0.00867
-13.5	0.00466299	-0.00382	0.010171	-0.0097	-13.5	-0.00382475	0.010339	-0.00973	-0.004122	-13.5	0.00465565	0.01031684	0.01016845	-0.004066	-13.5	0.0303039	-0.029183	0.008676	-0.0083
															-14	0.01176959	-0.01108	0.007523	-0.00711
															-14.5	0.00936354	-0.008284	0.002143	-0.00199
															-15	0.01214896	-0.011392	-0.000764	0.001066
															-15.5	0.01015355	-0.009276	-0.002292	0.002669
															-16	0.00785714	-0.006854	-0.001926	0.002217
															-16.5	0.00584126	-0.005167	-0.000368	0.001077
															-17	0.00393498	-0.002754	-0.002754	0.002709
															-17.5	0.00299441	-0.002143	-0.000879	0.001122
															-18	0.00385332	-0.00305	0.005277	-0.00516
															-18.5	0.00299624	-0.002034	0.001925	-0.00169
															-19	-0.00100475	0.001857	-0.001246	0.00157
															-19.5	-0.00052736	0.000932	0.00424	-0.00378
															-20	-0.00316181	0.004446	0.001631	-0.00168
															-20.5	-0.00316575	0.005911	0.001626	-0.00323
															-21	-0.00502883	0.004321	0.003465	-0.00475
															-21.5	-0.00358821	0.004049	0.004964	-0.0078
															-22	-0.00311866	0.001226	0.008003	-0.00857
															-22.5	-0.00038444	-0.000311	0.008797	-0.01113
															-23	0.00119653	-0.000594	0.011276	-0.01147
															-23.5	0.00146504	-0.0018	0.011724	-0.01123
															-24	0.0025807	-0.003213	0.011339	-0.01071
															-24.5	0.00470021	-0.003744	0.010135	-0.00993
															-25	0.00478425	-0.003901	0.009792	-0.00946

RST Digital Inclinometer Data					RST Digital Inclinometer Data					RST Digital Inclinometer Data					RST Digital Inclinometer Data					RST Digital Inclinometer Data				
File Version 2.2					File Version 2.2					File Version 2.2					File Version 2.2					File Version 2.2				
File Type Digital Inclinometer					File Type Digital Inclinometer					File Type Digital Inclinometer					File Type Digital Inclinometer					File Type Digital Inclinometer				
Site TAILINGS DAM					Site TAILINGS DAM					Site TAILINGS DAM					Site TAILINGS DAM					Site TAILINGS DAM				
Borehole IN10-01					Borehole IN10-01					Borehole IN10-01					Borehole IN10-01					Borehole IN10-01				
Probe Serial# DP06420000					Probe Serial# DP06420000					Probe Serial# DP06420000					Probe Serial# DP06420000					Probe Serial# DP06420000				
Reel Serial# DR11930000					Reel Serial# DR11930000					Reel Serial# DR11930000					Reel Serial# DR11930000					Reel Serial# DR11930000				
Reading Date(m/d/y) 10/13/2012 11:33:16					Reading Date(m/d/y) 12/12/2012 15:31:56					Reading Date(m/d/y) 01/16/2013 17:08:05					Reading Date(m/d/y) 05/13/2013 15:18:45					Reading Date(m/d/y) 06/30/2013 16:16:19				
Depth -25 -0.5					Depth -25 -0.5					Depth -25 -0.5					Depth -25 -0.5					Depth -25 -0.5				
Interval 0.5					Interval 0.5					Interval 0.5					Interval 0.5					Interval 0.5				
Depth Units meters					Depth Units meters					Depth Units meters					Depth Units meters					Depth Units meters				
Reading Units meters					Reading Units meters					Reading Units meters					Reading Units meters					Reading Units meters				
Operator					Operator					Operator					Operator					Operator				
Comment:					Comment:					Comment:					Comment:					Comment:				
Comment End:					Comment End:					Comment End:					Comment End:					Comment End:				
Offset Correction 0					Offset Correction 0					Offset Correction 0					Offset Correction 0					Offset Correction 0				
Depth	Face A+	Face A-	Face B+	Face B-	Depth	Face A+	Face A-	Face B+	Face B-	Depth	Face A+	Face A-	Face B+	Face B-	Depth	Face A+	Face A-	Face B+	Face B-	Depth	Face A+	Face A-	Face B+	Face B-
-0.5	0.2752143	-0.2746643	-0.039348	0.040008	-0.5	0.2755904	-0.27506	-0.0388	0.039668	-0.5	-0.2747057	0.040985	0.038494	0.269764	-0.5	0.3123006	-0.30587	-0.03343	0.034095	-0.5	0.3134685	-0.30588	-0.03303	0.03359
-1	0.2697984	-0.2691209	-0.039524	0.040141	-1	0.2698145	-0.26911	-0.03915	0.039848	-1	-0.2690597	0.044073	0.038836	0.264627	-1	0.2850564	-0.28433	-0.03164	0.032194	-1	0.3127659	-0.30543	-0.03241	0.032935
-1.5	0.246401	-0.2455954	-0.036283	0.036972	-1.5	0.2465341	-0.24567	-0.03575	0.036865	-1.5	-0.2455629	0.028221	0.036679	0.246425	-1.5	0.2371694	-0.23635	-0.02759	0.028174	-1.5	0.2863542	-0.30586	-0.0315	0.032776
-2	0.2206132	-0.2199429	-0.032967	0.032842	-2	0.2206083	-0.21988	-0.03257	0.032724	-2	-0.2197203	0.032891	0.032518	0.220377	-2	0.230039	-0.22915	-0.02625	0.027476	-2	0.2373708	-0.28544	-0.02746	0.031479
-2.5	0.212056	-0.2111975	-0.029478	0.030586	-2.5	0.2120381	-0.21112	-0.02922	0.030507	-2.5	-0.2110544	0.030549	0.029973	0.211674	-2.5	0.2107186	-0.20996	-0.02993	0.029864	-2.5	0.2301815	-0.23642	-0.02599	0.027866
-3	0.2003444	-0.1997859	-0.030184	0.029976	-3	0.2004098	-0.19978	-0.02927	0.029875	-3	-0.1996874	0.025119	0.029645	0.2001	-3	0.1630027	-0.16202	-0.02938	0.030261	-3	0.2119958	-0.22937	-0.02999	0.026749
-3.5	0.1609747	-0.1599877	-0.028984	0.02965	-3.5	0.1610645	-0.16002	-0.02874	0.029554	-3.5	-0.160015	0.026486	0.029157	0.160027	-3.5	0.1461772	-0.14542	-0.03063	0.030696	-3.5	0.1664463	-0.21122	-0.03034	0.029597
-4	0.1459556	-0.1453721	-0.031193	0.030893	-4	0.1459559	-0.14534	-0.03093	0.030759	-4	-0.1452963	0.030556	0.030412	0.146177	-4	0.1315055	-0.1305	-0.02402	0.024233	-4	0.1463614	-0.16536	-0.03065	0.030994
-4.5	0.1317569	-0.1309067	-0.024898	0.024785	-4.5	0.1317757	-0.13084	-0.02463	0.024686	-4.5	-0.1308149	0.021858	0.02454	0.133501	-4.5	0.1176289	-0.11655	-0.0211	0.018704	-4.5	0.1320006	-0.14564	-0.02329	0.030398
-5	0.1178318	-0.116734	-0.020407	0.019236	-5	0.11775	-0.11664	-0.02053	0.019065	-5	-0.1165468	0.01907	0.018817	0.117315	-5	0.1164255	-0.11531	-0.02378	0.034132	-5	0.1131607	-0.13081	-0.02028	0.023927
-5.5	0.1164481	-0.1151595	-0.023417	0.035568	-5.5	0.1163676	-0.11531	-0.02329	0.033833	-5.5	-0.1152385	0.021086	0.033614	0.115319	-5.5	0.1597193	-0.16448	-0.05049	0.040986	-5.5	0.1188887	-0.11209	-0.02135	0.018104
-6	0.1594478	-0.162186	-0.049914	0.054171	-6	0.159243	-0.15779	-0.0497	0.067321	-6	-0.1578438	0.033601	0.066328	0.160047	-6	0.1751916	-0.18194	-0.10273	0.092221	-6	0.1568623	-0.11873	-0.04663	0.026818
-6.5	0.1774905	-0.2033967	-0.10052	-0.034464	-6.5	0.1757541	-0.18214	-0.10227	0.093089	-6.5	-0.1820744	0.09692	0.092886	0.182581	-6.5	0.1790719	-0.18452	-0.0995	0.090649	-6.5	0.1799125	-0.15223	-0.10612	0.066317
-7	0.1817839	-0.2039681	-0.096524	-0.036871	-7	0.180082	-0.18476	-0.09841	0.090477	-7	-0.1846705	0.08784	0.090327	0.186341	-7	0.1602831	-0.18084	-0.08964	0.072247	-7	0.1834098	-0.19332	-0.09937	0.084622
-7.5	0.1620275	-0.182353	-0.086747	-0.041036	-7.5	0.164974	-0.17038	-0.08255	0.082547	-7.5	-0.1701308	0.06539	0.083059	0.175514	-7.5	0.1290455	-0.12955	-0.02191	0.009256	-7.5	0.1635515	-0.19041	-0.08594	0.086846
-8	0.1290407	-0.1077177	-0.022496	-0.073929	-8	0.1290487	-0.1278	-0.02228	0.022729	-8	-0.1277462	0.08391	0.022421	0.097012	-8	0.1246092	-0.12493	-0.01808	0.009254	-8	0.1290921	-0.17708	-0.02204	0.060094
-8.5	0.1248607	-0.1018491	-0.018582	-0.071745	-8.5	0.1248695	-0.12443	-0.01834	0.017523	-8.5	-0.1243025	0.080217	0.017519	0.093319	-8.5	0.1020781	-0.10171	-0.00959	0.001166	-8.5	0.1243872	-0.12855	-0.01792	0.018195
-9	0.1023163	-0.08016751	-0.009889	-0.059137	-9	0.1023069	-0.10137	-0.00972	0.011011	-9	-0.1012815	0.062687	0.010736	0.079257	-9	0.0755543	-0.07629	-0.01644	0.006645	-9	0.1018924	-0.12452	-0.00952	0.014111
-9.5	0.07575792	-0.0654823	-0.016674	-0.040138	-9.5	0.07576249	-0.07512	-0.01658	0.017131	-9.5	-0.07501658	0.054749	0.016799	0.057276	-9.5	0.05151587	-0.05136	-0.01253	0.007312	-9.5	0.0746281	-0.07524	-0.0166	0.008396
-10	0.05167773	-0.04495163	-0.012882	-0.026054	-10	0.05169173	-0.05045	-0.0127	0.012924	-10	-0.05068864	0.039857	0.011576	0.033422	-10	0.03906313	-0.0387	-0.00615	0.002255	-10	0.05199935	-0.05171	-0.01239	0.007021
-10.5	0.03911767	-0.03168496	-0.006322	-0.022194	-10.5	0.0391225	-0.03876	-0.00622	0.00647	-10.5	-0.03867544	0.028244	0.004999	0.025424	-10.5	0.02643885	-0.02461	-0.003978	-0.00642	-10.5	0.03855023	-0.03807	-0.00623	0.003248
-11	0.0264947	-0.01499224	0.004023	-0.021126	-11	0.02751558	-0.02508	0.005527	-0.00355	-11	-0.0248375	0.012725	-0.00531	0.020188	-11	0.01367902	-0.01134	0.013218	-0.01447	-11	0.0266954	-0.02468	0.004027	-0.00597
-11.5	0.0132948	0.00059391	0.013064	-0.020298	-11.5	0.01407925	-0.01228	0.010814	-0.01342	-11.5	-0.01145374	-0.00195	-0.01407	0.018777	-11.5	0.01589696	-0.01475	0.004288	-0.00748	-11.5	0.01362362	-0.01147	0.013302	-0.01473
-12	0.014659	-0.003326	0.00761	-0.013981	-12	0.01574583	-0.01478	0.002468	-0.00447	-12	-0.01466133	4.77E-06	-0.00606	0.015083	-12	0.00033541	0.000713	0.011784	-0.01177	-12	0.01551001	-0.01282	0.006795	-0.01398
-12.5	0.00047542	0.00736893	0.011809	-0.013164	-12.5	0.00053365	0.00052	0.011822	-0.01171	-12.5	0.00058014	-0.00882	-0.0118	0.005172	-12.5	0.00744681	-0.0068	0.009133	-0.00876	-12.5	0.0002722	0.000744	0.01174	-0.01183
-13	0.00733418	-0.0019985	0.009133	-0.018187	-13	0.0073806	-0.0068	0.00925	-0.00862	-13	-0.00672237	0.00264	-0.00878	0.017079	-13	0.03034867	-0.0292	0.008898	-0.00872	-13	0.00791012	-0.00717	0.008984	-0.00873
-13.5	0.03054328	-0.01936674	0.008947	-0.017901	-13.5	0.03056208	-0.02927	0.009029	-0.00847	-13.5	-0.02924207	0.012204	-0.00866	0.017949	-13.5	0.01147107	-0.01048	0.007553	-0.00708	-13.5	0.0305856	-0.02922	0.008931	-0.00881
-14	0.01154883	-0.00496349	0.007529	-0.009347	-14	0.01145513	-0.01073	0.007685	-0.00691	-14	-0.0107065	0.001639	-0.00695	0.007301	-14	0.00989301	-0.00874	0.002208	-0.00219	-14	0.01117991	-0.01016	0.007309	-0.00705
-14.5	0.0098576	-0.00602936	0.002195	-0.00703	-14.5	0.0098954	-0.00876	0.002294	-0.00208	-14.5	-0.00870244	0.004903	-0.00218	0.005323	-14.5	0.01292685	-0.012	-0.00078	0.001038	-14.5	0.01005019	-0.00891	0.002061	-0.00215
-15	0.01281938	-0.01045248	-0.000754	-0.005699	-15	0.01288376	-0.0121	-0.00067	0.001082	-15	-0.01199197	0.009238	0.001045	0.004237	-15	0.01079804	-0.00981	-0.00234	0.002566	-15	0.01295136	-0.01199	-0.00094	0.001034
-15.5	0.01063861	-0.00938956	-0.002328	-0.004553	-15.5	0.01073813	-0.00986	-0.00225	0.002719	-15.5	-0.00979581	0.008933	0.002601	0.003167	-15.5	0.00837873	-0.00736	-0.00182	0.002035	-15.5	0.01080407	-0.00976	-0.00246	0.002511
-16	0.00820223	-0.00715076	-0.001878	-0.004166	-16	0.00832087	-0.00738	-0.00174	0.002178	-16	-0.00734973	0.007011	0.002088	0.002411	-16	0.00615663	-0.00534	-0.00027	0.000776	-16	0.0083654	-0.00734	-0.0019	0.00192
-16.5	0.0060638	-0.00430063	-0.000251	-0.003061	-16.5	0.00610964	-0.00543	-0.00017	0.000895	-16.5	-0.00537731	0.004781	0.000806	0.000565	-16.5	0.00433742	-0.00365	-0.0025	0.00273	-16.5	0.006365	-0.00561	-0.00074	0.00076
-17	0.00464786	-0.00460134	-0.00273	-0.003679	-17	0.00470966	-0.00358	-0.00267	0.002832	-17	-0.00358829	0.004867	0.002745	0.002499	-17	0.00405512	-0.00304	-0.00072	0.000931	-17	0.00455783	-0.00347	-0.00229	0.002465
-17.5	0.00387475	-0.00298567	-0.000665	-0.006145	-17.5	0.00393291	-0.003	-0.00062	0.															

RST Digital Inclinometer Data			
File Version	2.2		
File Type	Digital Inclinometer		
Site	TAILINGS DAM		
Borehole	IN10-01		
Probe Serial#	DP06420000		
Reel Serial#	DR11930000		
Reading Date(m/d/y)	07/28/2013	15:46:39	
Depth	-25	-0.5	
Interval	0.5		
Depth Units	meters		
Reading Units	meters		
Operator			
Comment:			
Comment End:			
Offset Correction	0		

RST Digital Inclinometer Data			
File Version	2.2		
File Type	Digital Inclinometer		
Site	TAILINGS DAM		
Borehole	IN10-01		
Probe Serial#	DP06420000		
Reel Serial#	DR11930000		
Reading Date(m/d/y)	08/28/2013	15:59:43	
Depth	-25	-0.5	
Interval	0.5		
Depth Units	meters		
Reading Units	meters		
Operator			
Comment:			
Comment End:			
Offset Correction	0		

RST Digital Inclinometer Data			
File Version	2.2		
File Type	Digital Inclinometer		
Site	TAILINGS DAM		
Borehole	IN10-01		
Probe Serial#	DP06420000		
Reel Serial#	DR11930000		
Reading Date(m/d/y)	09/21/2013	11:34:17	
Depth	-25	-0.5	
Interval	0.5		
Depth Units	meters		
Reading Units	meters		
Operator			
Comment:			
Comment End:			
Offset Correction	0		

RST Digital Inclinometer Data			
File Version	2.2		
File Type	Digital Inclinometer		
Site	TAILINGS DAM		
Borehole	IN10-01		
Probe Serial#	DP06420000		
Reel Serial#	DR11930000		
Reading Date(m/d/y)	11/23/2013	11:00:41	
Depth	-25	-0.5	
Interval	0.5		
Depth Units	meters		
Reading Units	meters		
Operator			
Comment:			
Comment End:			
Offset Correction	0		

Depth	Face A+	Face A-	Face B+	Face B-
-0.5	0.3134861	-0.30589	-0.03296	0.0339
-1	0.3128611	-0.30586	-0.03236	0.03305
-1.5	0.28635	-0.28564	-0.03136	0.031768
-2	0.2374173	-0.23656	-0.02739	0.028093
-2.5	0.2302726	-0.22953	-0.02583	0.026878
-3	0.2120626	-0.21137	-0.02961	0.029878
-3.5	0.1663943	-0.16548	-0.03033	0.031143
-4	0.1463802	-0.14573	-0.03054	0.03056
-4.5	0.1321366	-0.13098	-0.02348	0.024077
-5	0.1132469	-0.11222	-0.01999	0.018179
-5.5	0.1188802	-0.11882	-0.02151	0.026045
-6	0.1568663	-0.15223	-0.04636	0.067119
-6.5	0.178986	-0.18636	-0.10725	0.095773
-7	0.1832641	-0.187	-0.09954	0.092708
-7.5	0.1625773	-0.16935	-0.08657	0.082583
-8	0.1290986	-0.12956	-0.02197	0.010034
-8.5	0.124522	-0.12478	-0.01786	0.011227
-9	0.1019686	-0.10163	-0.00946	0.002013
-9.5	0.07472759	-0.07543	-0.0165	0.008921
-10	0.05193619	-0.05173	-0.01233	0.007961
-10.5	0.0384955	-0.0381	-0.00621	0.004065
-11	0.02673639	-0.02498	0.004007	-0.00562
-11.5	0.01473877	-0.01182	0.014467	-0.01423
-12	0.01373629	-0.01305	0.01389	-0.01415
-12.5	0.00021974	0.000704	0.011805	-0.01178
-13	0.00778973	-0.00714	0.009063	-0.00867
-13.5	0.03044206	-0.02924	0.00899	-0.00874
-14	0.01115982	-0.01025	0.007433	-0.00701
-14.5	0.01000588	-0.00884	0.002155	-0.00209
-15	0.01292731	-0.01203	-0.00085	0.001074
-15.5	0.01076631	-0.0098	-0.00237	0.002575
-16	0.00834174	-0.00738	-0.00183	0.001986
-16.5	0.00644773	-0.00554	-0.00072	0.000825
-17	0.00440817	-0.00359	-0.00218	0.002589
-17.5	0.00403335	-0.00308	-0.00064	0.00086
-18	0.00861737	-0.00798	0.009961	-0.00966
-18.5	0.00486097	-0.00558	0.00092	-0.00387
-19	-0.00410683	0.004949	-0.00632	0.006474
-19.5	0.00068245	0.000255	0.003937	-0.00355
-20	-0.00292455	0.003943	0.001239	-0.0014
-20.5	-0.00466235	0.005526	0.003309	-0.00319
-21	-0.00272686	0.003684	0.005031	-0.00493
-21.5	-0.00284384	0.003705	0.008248	-0.00805
-22	0.00016958	0.000708	0.008973	-0.00878
-22.5	0.00121413	-0.0006	0.011605	-0.01143
-23	0.00223939	-0.00097	0.011629	-0.01151
-23.5	0.0031392	-0.00228	0.011473	-0.01126
-24	0.00442743	-0.00344	0.010856	-0.01069
-24.5	0.00497683	-0.00405	0.01007	-0.00989
-25	0.00500032	-0.00407	0.00975	-0.00953

Depth	Face A+	Face A-	Face B+	Face B-
-0.5	0.31347	-0.3059	-0.03279	0.033871
-1	0.3129046	-0.30587	-0.03232	0.033025
-1.5	0.2862851	-0.28554	-0.03145	0.03137
-2	0.237422	-0.23655	-0.02742	0.027942
-2.5	0.2302957	-0.22958	-0.02585	0.02675
-3	0.212022	-0.21125	-0.02967	0.02978
-3.5	0.166274	-0.16533	-0.03042	0.03108
-4	0.1463802	-0.14571	-0.03053	0.030557
-4.5	0.1321724	-0.13095	-0.02343	0.024011
-5	0.1132496	-0.1134	-0.02062	0.024203
-5.5	0.1188054	-0.11831	-0.0225	0.030644
-6	0.1572439	-0.15051	-0.0412	0.075018
-6.5	0.1790814	-0.1865	-0.10713	0.095903
-7	0.1828378	-0.18704	-0.10016	0.092611
-7.5	0.1620296	-0.16915	-0.08752	0.082286
-8	0.1291067	-0.1296	-0.02203	0.010386
-8.5	0.1245414	-0.12458	-0.0179	0.012701
-9	0.1019773	-0.10149	-0.00953	0.003717
-9.5	0.07469944	-0.07507	-0.01655	0.0104
-10	0.05205549	-0.05191	-0.01242	0.006553
-10.5	0.0384547	-0.03805	-0.00624	0.002683
-11	0.02674938	-0.02479	0.003733	-0.00642
-11.5	0.0136457	-0.0115	0.013486	-0.01462
-12	0.01493905	-0.01303	0.01153	-0.01394
-12.5	0.00022459	0.000714	0.01178	-0.01174
-13	0.00780006	-0.00726	0.009042	-0.0087
-13.5	0.03050068	-0.02928	0.009003	-0.00866
-14	0.01116499	-0.01019	0.007411	-0.00707
-14.5	0.01004784	-0.0089	0.002056	-0.00206
-15	0.01293368	-0.01209	-0.00089	0.001168
-15.5	0.01078103	-0.00984	-0.0024	0.002689
-16	0.00838272	-0.00738	-0.00182	0.002051
-16.5	0.00649888	-0.00556	-0.00069	0.000873
-17	0.00439576	-0.00356	-0.0022	0.002631
-17.5	0.00417193	-0.00308	-0.00063	0.00093
-18	0.0087303	-0.0081	0.010001	-0.00969
-18.5	0.0049247	-0.00556	0.00101	-0.00378
-19	-0.00419904	0.00506	-0.00645	0.006622
-19.5	0.00060979	0.000214	0.003999	-0.00354
-20	-0.00294059	0.003949	0.001226	-0.00131
-20.5	-0.00468025	0.005518	0.003273	-0.00316
-21	-0.00270979	0.003678	0.004982	-0.00489
-21.5	-0.00285737	0.003695	0.008205	-0.008
-22	0.00020769	0.000699	0.008996	-0.00874
-22.5	0.00124097	-0.00068	0.011542	-0.01138
-23	0.00219043	-0.00102	0.011602	-0.01147
-23.5	0.00310726	-0.0023	0.01142	-0.01122
-24	0.00439107	-0.00347	0.010805	-0.01068
-24.5	0.00495313	-0.00408	0.010028	-0.00989
-25	0.00496067	-0.0041	0.009704	-0.00949

Depth	Face A+	Face A-	Face B+	Face B-
-0.5	0.3134747	-0.30589	-0.03216	0.033352
-1	0.3128818	-0.30587	-0.03184	0.032654
-1.5	0.2861486	-0.2854	-0.03108	0.031424
-2	0.2373687	-0.23648	-0.0272	0.02789
-2.5	0.2302879	-0.2295	-0.02547	0.026638
-3	0.2119295	-0.21123	-0.02942	0.029592
-3.5	0.1661968	-0.16532	-0.03026	0.030868
-4	0.1463592	-0.14568	-0.03037	0.03043
-4.5	0.1320825	-0.13095	-0.02306	0.023932
-5	0.1132777	-0.11226	-0.02069	0.018141
-5.5	0.1188098	-0.11833	-0.02234	0.029885
-6	0.1569408	-0.15221	-0.04648	0.066632
-6.5	0.1871595	-0.18617	-0.09909	0.096639
-7	0.1873	-0.18682	-0.09509	0.09301
-7.5	0.1625771	-0.16919	-0.08675	0.08241
-8	0.1291014	-0.12789	-0.02177	0.021924
-8.5	0.1245742	-0.12415	-0.01771	0.017058
-9	0.1020225	-0.10107	-0.00933	0.010394
-9.5	0.0747646	-0.07406	-0.01639	0.016498
-10	0.05206434	-0.05074	-0.01235	0.012547
-10.5	0.03847434	-0.03794	-0.00615	0.006262
-11	0.02680527	-0.02526	0.003971	-0.00368
-11.5	0.01386721	-0.01317	0.013584	-0.01327
-12	0.01548552	-0.00982	0.007877	-0.01455
-12.5	0.0002373	0.000759	0.01181	-0.01174
-13	0.00773951	-0.00708	0.009122	-0.00868
-13.5	0.03051579	-0.02924	0.009062	-0.00876
-14	0.01120211	-0.01018	0.007494	-0.00704
-14.5	0.01003325	-0.00883	0.002175	-0.00212
-15	0.01297795	-0.01206	-0.00082	0.001043
-15.5	0.01080848	-0.00981	-0.00235	0.00257
-16	0.00837864	-0.00739	-0.00181	0.002015
-16.5	0.00666197	-0.00558	-0.0006	0.000862
-17	0.00427327	-0.0036	-0.00219	0.002619
-17.5	0.0040687	-0.00307	-0.00071	0.000896
-18	0.00876289	-0.00803	0.010027	-0.00969
-18.5	0.00499651	-0.00566	0.001079	-0.00399
-19	-0.00429339	0.005158	-0.00656	0.006762
-19.5	0.00062446	0.000248	0.004023	-0.00353
-20	-0.00285816	0.003955	0.001244	-0.00137
-20.5	-0.0046063	0.005556	0.003367	-0.00315
-21	-0.00269586	0.003697	0.005011	-0.00488
-21.5	-0.0028383	0.003744	0.008257	-0.00803
-22	0.00017063	0.000746	0.008966	-0.00875
-22.5	0.0013575	-0.00033	0.011566	-0.01144
-23	0.00213331	-0.00119	0.011673	-0.01142
-23.5	0.00315447	-0.00225	0.011485	-0.01125
-24	0.00442408	-0.00341	0.010862	-0.01069
-24.5	0.00500283	-0.00402	0.010086	-0.00991
-25	0.00499257	-0.00406	0.009748	-0.00952

Depth	Face A+	Face A-	Face B+	Face B-
-0.5	0.3134807	-0.3059	-0.03209	0.033411
-1	0.3128135	-0.30587	-0.03183	0.032896
-1.5	0.2860534	-0.28527	-0.03104	0.031487
-2	0.2373908	-0.23648	-0.02711	0.027946
-2.5	0.2302851	-0.22951	-0.02556	0.026654
-3	0.2118602	-0.2111	-0.02951	0.029679
-3.				

RST Digital Inclinometer Data					RST Digital Inclinometer Data					RST Digital Inclinometer Data				
File Version	2.2				File Version	2.2				File Version	2.2			
File Type	Digital Inclinometer				File Type	Digital Inclinometer				File Type	Digital Inclinometer			
Site	TAILINGS DAM				Site	TAILINGS DAM				Site	TAILINGS DAM			
Borehole	IN10-01				Borehole	IN10-01				Borehole	IN10-01			
Probe Serial#	DP06420000				Probe Serial#	DP06420000				Probe Serial#	DP06420000			
Reel Serial#	DR11930000				Reel Serial#	DR11930000				Reel Serial#	DR11930000			
Reading Date(m/d/y)	01/14/2014		16:00:27		Reading Date(m/d/y)	02/15/2014		12:18:14		Reading Date(m/d/y)	03/12/2014		16:00:36	
Depth	-25	-0.5			Depth	-25	-0.5			Depth	-25	-0.5		
Interval	0.5				Interval	0.5				Interval	0.5			
Depth Units	meters				Depth Units	meters				Depth Units	meters			
Reading Units	meters				Reading Units	meters				Reading Units	meters			
Operator					Operator					Operator				
Comment:					Comment:					Comment:				
Comment End:					Comment End:					Comment End:				
Offset Correction	0				Offset Correction	0				Offset Correction	0			
Depth	Face A+	Face A-	Face B+	Face B-	Depth	Face A+	Face A-	Face B+	Face B-	Depth	Face A+	Face A-	Face B+	Face B-
-0.5	0.3136524	-0.30599	-0.03686	0.037441	-0.5	0.3136696	-0.30601	-0.03707	0.037894	-0.5	0.3136709	-0.30601	-0.03774	0.038204
-1	0.3135105	-0.30592	-0.03441	0.034727	-1	0.3135862	-0.30595	-0.03569	0.035289	-1	0.3135825	-0.30595	-0.03571	0.035701
-1.5	0.2859445	-0.28537	-0.03136	0.031017	-1.5	0.2859477	-0.28529	-0.03104	0.031332	-1.5	0.2858366	-0.28523	-0.03109	0.031422
-2	0.2374095	-0.23659	-0.02731	0.028161	-2	0.2373898	-0.23657	-0.02702	0.027849	-2	0.2372701	-0.23649	-0.02746	0.027863
-2.5	0.230306	-0.22956	-0.02571	0.026867	-2.5	0.2302421	-0.22956	-0.02561	0.026607	-2.5	0.2301827	-0.22946	-0.02575	0.026612
-3	0.2115272	-0.21101	-0.02971	0.029799	-3	0.2114511	-0.21085	-0.02949	0.029583	-3	0.2114657	-0.21082	-0.02966	0.029761
-3.5	0.1659162	-0.16512	-0.03034	0.031119	-3.5	0.1657981	-0.16499	-0.03033	0.030902	-3.5	0.1658164	-0.16518	-0.03034	0.030984
-4	0.1462512	-0.14566	-0.0304	0.030395	-4	0.1462022	-0.14559	-0.03039	0.030512	-4	0.1462071	-0.14555	-0.03037	0.030396
-4.5	0.131704	-0.13075	-0.02321	0.02397	-4.5	0.1317018	-0.13063	-0.02303	0.023904	-4.5	0.13167	-0.13061	-0.02295	0.023891
-5	0.1133349	-0.11238	-0.01976	0.018075	-5	0.1133394	-0.11242	-0.02003	0.017964	-5	0.1131764	-0.11234	-0.01736	0.018034
-5.5	0.1186621	-0.11789	-0.02186	0.018262	-5.5	0.1191275	-0.11914	-0.02166	0.025976	-5.5	0.1191182	-0.11849	-0.02007	0.029907
-6	0.1570003	-0.16199	-0.0472	0.031382	-6	0.1581475	-0.15751	-0.04354	0.057242	-6	0.157276	-0.152	-0.04811	0.067952
-6.5	0.1868984	-0.18319	-0.09936	0.104615	-6.5	0.1797898	-0.18624	-0.10598	0.095813	-6.5	0.1763152	-0.18625	-0.10979	0.095903
-7	0.1888767	-0.18703	-0.09424	0.092494	-7	0.1804865	-0.18714	-0.1028	0.092404	-7	0.1824778	-0.1869	-0.1003	0.092384
-7.5	0.1684304	-0.16844	-0.07761	0.081926	-7.5	0.1454457	-0.16778	-0.11753	0.082073	-7.5	0.1636744	-0.16807	-0.0864	0.082057
-8	0.1290334	-0.12807	-0.02199	0.021868	-8	0.129118	-0.12966	-0.0218	0.011435	-8	0.1207888	-0.12986	0.048273	0.007349
-8.5	0.1244222	-0.12402	-0.01768	0.017105	-8.5	0.1242207	-0.12458	-0.0174	0.009476	-8.5	0.1156896	-0.12459	0.044388	0.009075
-9	0.1018231	-0.10095	-0.00954	0.010447	-9	0.1016168	-0.10137	-0.00947	0.0101023	-9	0.09218975	-0.10136	0.038658	4.59E-05
-9.5	0.07444419	-0.07381	-0.01655	0.016514	-9.5	0.07412498	-0.07489	-0.01649	0.008382	-9.5	0.07135633	-0.07502	0.023152	0.007471
-10	0.05197209	-0.05067	-0.01232	0.012555	-10	0.05186915	-0.05139	-0.01214	0.00896	-10	0.05022544	-0.05138	0.018228	0.008821
-10.5	0.03827727	-0.03783	-0.00662	0.006199	-10.5	0.0381174	-0.03777	-0.00606	0.004269	-10.5	0.0358374	-0.03774	0.015488	0.004329
-11	0.02678286	-0.02527	0.003891	-0.00374	-11	0.02748729	-0.02494	0.005468	-0.0053	-11	0.02058196	-0.02498	0.017452	-0.00541
-11.5	0.01348061	-0.01244	0.01365	-0.01366	-11.5	0.01279657	-0.01185	0.015204	-0.01427	-11.5	0.00580718	-0.0119	0.020083	-0.01439
-12	0.0180954	-0.01437	0.015486	-0.0117	-12	0.01529702	-0.01441	0.008923	-0.01118	-12	0.01539488	-0.01197	0.008977	-0.01318
-12.5	0.00013082	0.000716	0.011804	-0.01174	-12.5	0.00005537	0.000801	0.011815	-0.01172	-12.5	0.00007172	0.000771	0.011752	-0.01177
-13	0.00800993	-0.00738	0.009062	-0.00864	-13	0.00812549	-0.00744	0.009042	-0.0088	-13	0.00805233	-0.00733	0.00902	-0.00886
-13.5	0.03047357	-0.0293	0.009092	-0.0088	-13.5	0.03043032	-0.02933	0.009112	-0.00882	-13.5	0.03043362	-0.0293	0.009058	-0.00883
-14	0.01099634	-0.01023	0.007331	-0.00706	-14	0.01089038	-0.00998	0.007315	-0.00703	-14	0.01093361	-0.01013	0.007294	-0.00704
-14.5	0.01011104	-0.00902	0.002028	-0.00207	-14.5	0.01009763	-0.00909	0.002028	-0.00208	-14.5	0.01010858	-0.00901	0.002008	-0.00213
-15	0.01288905	-0.0121	-0.00089	0.001063	-15	0.01284879	-0.01212	-0.00089	0.001067	-15	0.01287743	-0.01211	-0.0009	0.001002
-15.5	0.01072988	-0.00985	-0.00241	0.002592	-15.5	0.01069434	-0.00986	-0.00238	0.002591	-15.5	0.01073169	-0.00982	-0.00241	0.002559
-16	0.00829075	-0.00744	-0.00184	0.001992	-16	0.00831514	-0.00745	-0.00175	0.001979	-16	0.00829525	-0.00741	-0.00185	0.001958
-16.5	0.00607474	-0.00561	-0.00081	0.00084	-16.5	0.00618227	-0.00566	-0.00063	0.000884	-16.5	0.00611862	-0.00561	-0.00078	0.000838
-17	0.00449099	-0.00355	-0.00222	0.002501	-17	0.00455934	-0.00353	-0.00226	0.002491	-17	0.00456379	-0.00354	-0.00227	0.002506
-17.5	0.00400133	-0.00315	-0.00066	0.000857	-17.5	0.00412284	-0.00315	-0.00061	0.000854	-17.5	0.00403372	-0.00312	-0.00067	0.000854
-18	0.0091552	-0.00855	0.010482	-0.01043	-18	0.00925659	-0.0087	0.010647	-0.01046	-18	0.00934039	-0.00866	0.010635	-0.01057
-18.5	0.00478706	-0.00562	0.000659	-0.00394	-18.5	0.00470801	-0.00558	0.000618	-0.00379	-18.5	0.00479717	-0.00561	0.000617	-0.00384
-19	-0.00460441	0.005371	-0.00671	0.006891	-19	-0.00470517	0.005362	-0.00677	0.006865	-19	-0.00473853	0.005575	-0.00688	0.007082
-19.5	0.00067305	0.000172	0.003907	-0.00357	-19.5	0.00056906	0.000212	0.004009	-0.0035	-19.5	0.00062216	0.000229	0.003978	-0.00352
-20	-0.00299504	0.003879	0.001258	-0.00136	-20	-0.00300627	0.003878	0.001225	-0.00134	-20	-0.00294614	0.003913	0.001192	-0.00135
-20.5	-0.00463958	0.005474	0.003338	-0.00316	-20.5	-0.00470742	0.005478	0.003286	-0.00316	-20.5	-0.0046596	0.005515	0.003256	-0.00317
-21	-0.00277109	0.003653	0.005068	-0.00484	-21	-0.0027448	0.003623	0.00503	-0.00491	-21	-0.00271674	0.003652	0.004987	-0.0049
-21.5	-0.002857	0.003644	0.008236	-0.00805	-21.5	-0.00288157	0.003663	0.008245	-0.00805	-21.5	-0.00284827	0.003709	0.008214	-0.00805
-22	0.00013832	0.000646	0.008951	-0.00878	-22	0.00018027	0.00066	0.009032	-0.00878	-22	0.00018848	0.00071	0.008957	-0.00878
-22.5	0.00128964	-0.00059	0.011478	-0.01145	-22.5	0.00111896	-0.00064	0.011645	-0.01144	-22.5	0.00117473	-0.00045	0.01158	-0.01147
-23	0.00207455	-0.0012	0.011684	-0.01143	-23	0.00228084	-0.00118	0.011592	-0.01147	-23	0.00229028	-0.00124	0.011573	-0.01147
-23.5	0.00313435	-0.00234	0.011462	-0.01127	-23.5	0.00310925	-0.00234	0.011459	-0.01127	-23.5	0.00314642	-0.00231	0.011424	-0.01127
-24	0.00436492	-0.00351	0.010845	-0.0107	-24	0.00437966	-0.00349	0.010844	-0.0107	-24	0.00441444	-0.00345	0.010807	-0.0107
-24.5	0.00496893	-0.00411	0.010053	-0.00993	-24.5	0.00495084	-0.0041	0.010073	-0.00992	-24.5	0.00498634	-0.00407	0.010025	-0.00993
-25	0.00497358	-0.00413	0.009722	-0.00952	-25	0.00496762	-0.00413	0.009748	-0.00952	-25	0.00503114	-0.0041	0.009717	-0.00953

RST Digital Inclinometer Data					RST Digital Inclinometer Data					RST Digital Inclinometer Data					RST Digital Inclinometer Data				
File Version	2.2				File Version	2.2				File Version	2.2				File Version	2.2			
File Type	Digital Inclinometer				File Type	Digital Inclinometer				File Type	Digital Inclinometer				File Type	Digital Inclinometer			
Site	TAILINGS DAM				Site	TAILINGS DAM				Site	TAILINGS DAM				Site	TAILINGS DAM			
Borehole	IN10-02				Borehole	IN10-02				Borehole	IN10-02				Borehole	IN10-02			
Probe Serial#	DP06420000				Probe Serial#	DP06420000				Probe Serial#	DP06420000				Probe Serial#	DP06420000			
Reel Serial#	DR11930000				Reel Serial#	DR11930000				Reel Serial#	DR11930000				Reel Serial#	DR11930000			
Reading Date(m/d/y)	06/01/2011 10:03:28				Reading Date(m/d/y)	07/04/2011 11:48:07				Reading Date(m/d/y)	09/07/2011 10:06:07				Reading Date(m/d/y)	08/23/2012 7:05:31			
Depth	-15 -0.5				Depth	-15 -0.5				Depth	-15 -0.5				Depth	-10 -0.5			
Interval	0.5				Interval	0.5				Interval	0.5				Interval	0.5			
Depth Units	meters				Depth Units	meters				Depth Units	meters				Depth Units	meters			
Reading Units	meters				Reading Units	meters				Reading Units	meters				Reading Units	meters			
Operator					Operator					Operator					Operator				
Comment:					Comment:					Comment:					Comment:				
Comment End:					Comment End:					Comment End:					Comment End:				
Offset Correction	0				Offset Correction	0				Offset Correction	0				Offset Correction	0			
Depth	Face A+	Face A-	Face B+	Face B-	Depth	Face A+	Face A-	Face B+	Face B-	Depth	Face A+	Face A-	Face B+	Face B-	Depth	Face A+	Face A-	Face B+	Face B-
-0.5	-0.00241169	0.00339	0.012339	-0.01178	-0.5	-0.00430749	-0.01208	0.012651	-0.00355	-0.5	-0.00583816	0.01547	0.015933	0.006279	-0.5	0.232192	-0.23202	-0.0643	0.06463
-1	-0.00331789	0.00395	0.011984	-0.01171	-1	-0.00350436	-0.01214	0.01237	-0.0033	-1	-0.00397576	0.013508	0.013503	0.00414	-1	0.2264163	-0.22604	-0.06431	0.063976
-1.5	-0.00448572	0.005258	0.013	-0.01267	-1.5	-0.00422151	-0.01271	0.013299	-0.00437	-1.5	-0.00429449	0.013697	0.013546	0.004745	-1.5	0.2140903	-0.21451	-0.06254	0.057037
-2	-0.00450316	0.005319	0.01968	-0.0191	-2	-0.00442568	-0.01897	0.01957	-0.00441	-2	-0.00451677	0.019654	0.019654	0.004962	-2	0.2121653	-0.21149	-0.05838	0.05432
-2.5	-0.0049488	0.005726	0.020258	-0.01993	-2.5	-0.00491237	-0.01965	0.020147	-0.00493	-2.5	-0.00494129	0.020477	0.020241	0.005576	-2.5	0.2069767	-0.20709	-0.06059	0.055155
-3	-0.00472657	0.005486	0.018574	-0.01806	-3	-0.00493752	-0.0178	0.020192	-0.00473	-3	-0.00470458	0.018617	0.018491	0.005343	-3	0.2190463	-0.21909	-0.05911	0.053756
-3.5	-0.00468653	0.005496	0.017723	-0.0172	-3.5	-0.00470375	-0.0171	0.017642	-0.00459	-3.5	-0.00475943	0.01796	0.017667	0.005297	-3.5	0.223327	-0.22393	-0.05816	0.04963
-4	-0.0044427	0.005182	0.016886	-0.01651	-4	-0.0044219	-0.01639	0.01682	-0.00442	-4	-0.00442861	0.017143	0.016834	0.00501	-4	0.213751	-0.21445	-0.054	0.044587
-4.5	-0.00413776	0.004996	0.015851	-0.01544	-4.5	-0.00413384	-0.01517	0.015804	-0.0044	-4.5	-0.00415501	0.01611	0.015818	0.00478	-4.5	0.1902593	-0.19018	-0.05307	0.045204
-5	-0.00438674	0.005193	0.014844	-0.01436	-5	-0.00430256	-0.01417	0.01479	-0.00454	-5	-0.00431741	0.01495	0.014809	0.004858	-5	0.1828448	-0.18171	-0.04406	0.052472
-5.5	-0.00583168	0.006544	0.014453	-0.01414	-5.5	-0.00582394	-0.01397	0.014417	-0.00585	-5.5	-0.00584656	0.014639	0.014422	0.006213	-5.5	0.2288324	-0.23771	-0.09783	0.071135
-6	-0.00798527	0.008828	0.013692	-0.01331	-6	-0.00796657	-0.01303	0.013643	-0.00818	-6	-0.00799013	0.013806	0.013674	0.008579	-6	0.2110338	-0.2105	-0.08871	0.088119
-6.5	-0.01134704	0.012209	0.012422	-0.01198	-6.5	-0.01132138	-0.01178	0.012361	-0.01155	-6.5	-0.01132635	0.01256	0.012344	0.011955	-6.5	0.1585943	-0.16082	-0.0892	0.084839
-7	-0.01363224	0.01437	0.011833	-0.01155	-7	-0.01352065	-0.01131	0.011864	-0.0137	-7	-0.01362349	0.012029	0.011807	0.014235	-7	0.1458759	-0.15403	-0.10424	0.089525
-7.5	-0.01416566	0.014984	0.011143	-0.01073	-7.5	-0.01414583	-0.01043	0.011089	-0.01449	-7.5	-0.01418436	0.011322	0.011118	0.014816	-7.5	0.1490021	-0.15681	-0.09828	0.080708
-8	-0.01342628	0.014313	0.010543	-0.01006	-8	-0.01340649	-0.00984	0.010472	-0.01372	-8	-0.01340985	0.010699	0.010502	0.014147	-8	0.1406154	-0.1461	-0.08429	0.070897
-8.5	-0.01313701	0.014021	0.012001	-0.01147	-8.5	-0.01313723	-0.01128	0.01193	-0.01336	-8.5	-0.01314912	0.012183	0.011966	0.013673	-8.5	0.1091129	-0.11186	-0.07139	0.064657
-9	-0.01247086	0.013123	0.015301	-0.01495	-9	-0.01245778	-0.01479	0.015227	-0.0126	-9	-0.01247553	0.01548	0.015275	0.012803	-9	0.08783096	-0.09284	-0.06686	0.057275
-9.5	-0.01177471	0.012649	0.015469	-0.01505	-9.5	-0.0117772	-0.01484	0.015371	-0.01203	-9.5	-0.01181073	0.015689	0.015401	0.012453	-9.5	0.06829032	-0.07456	-0.06248	0.048961
-10	-0.01153688	0.012227	0.015021	-0.0147	-10	-0.01152348	-0.01465	0.014951	-0.01146	-10	-0.01152749	0.015339	0.015014	0.012089	-10	0.06730075	-0.0706	-0.04489	0.034831
-10.5	-0.01136489	0.012251	0.014413	-0.01405	-10.5	-0.01133007	-0.01363	0.014323	-0.01139	-10.5	-0.01136118	0.014666	0.014408	0.012025					
-11	-0.01136445	0.01221	0.013034	-0.01268	-11	-0.01135688	-0.01254	0.012959	-0.0113	-11	-0.01137858	0.013327	0.013031	0.011961					
-11.5	-0.01137887	0.012235	0.012564	-0.01209	-11.5	-0.01139534	-0.01196	0.01247	-0.01148	-11.5	-0.01140646	0.012777	0.012518	0.012022					
-12	-0.01153112	0.011879	0.011656	-0.01109	-12	-0.0115187	-0.01101	0.011576	-0.01128	-12	-0.01152937	0.011801	0.011655	0.012063					
-12.5	-0.01161823	0.01258	0.009093	-0.00876	-12.5	-0.01161698	-0.0085	0.00899	-0.012	-12.5	-0.01161279	0.009198	0.009058	0.01236					
-13	-0.01222567	0.012898	0.008163	-0.00785	-13	-0.01220954	-0.0077	0.008086	-0.01225	-13	-0.01221634	0.00842	0.008169	0.012775					
-13.5	-0.0119145	0.01277	0.007604	-0.00723	-13.5	-0.01193501	-0.00698	0.007492	-0.01217	-13.5	-0.01193456	0.007806	0.007576	0.012628					
-14	-0.01205993	0.01293	0.007243	-0.00684	-14	-0.01206166	-0.00667	0.007146	-0.01219	-14	-0.01207351	0.007361	0.007224	0.012673					
-14.5	-0.01179441	0.012547	0.007123	-0.00678	-14.5	-0.01184492	-0.00654	0.006959	-0.012	-14.5	-0.01184668	0.007411	0.007044	0.012334					
-15	0	0.012556	0	-0.00673	-15	-0.01175278	-0.00656	0.007094	-0.01185	-15	-0.01178733	0.007347	0.007148	0.012286					

APPENDIX IV

Water Balance

WOLVERINE TAILINGS FACILITY WATER BALANCE

UPDATE FOR 2013 ANNUAL REVIEW

	---> Stage 2 construction complete																																			
Mine Year	3			3			3			3			4			4			4			4			5			5			5			0		
Calendar Year	2012			2012			2012			2013			2013			2013			2013			2013			2014			2014			2014			2014		
Month	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct				
Mean Monthly Temperature	-12	-8	2	9	11	8	2	-7	-10	-18	-15	-16	-12	-8	2	9	11	8	2	-7	-10	-18	-15	-16	-12	-8	2	9	11	8	2	-7				
Monthly percent of annual precip.	5%	4%	7%	11%	14%	11%	10%	9%	8%	8%	8%	6%	5%	4%	7%	11%	14%	11%	10%	9%	8%	8%	6%	5%	4%	7%	11%	14%	11%	10%	9%					
Monthly Precipitation (mm)	26.5	20.0	42.3	65.3	77.7	62.3	57.1	48.8	46.7	47.4	42.8	33.2	26.5	20.0	42.3	65.3	77.7	62.3	57.1	48.8	46.7	47.4	42.8	33.2	26.5	20.0	42.3	65.3	77.7	62.3	57.1	48.8				
Average monthly runoff (% of annual)	0%	1%	19%	35%	17%	9%	9%	6%	3%	1%	0%	0%	0%	1%	19%	35%	17%	9%	9%	6%	3%	1%	0%	0%	1%	19%	35%	17%	9%	9%	6%					
Monthly Evaporation (mm)	9.5	21	72	86.5	90	61.5	32	14.5	6	2	5	4.5	9.5	21	72	86.5	90	61.5	32	14.5	6	2	5	4.5	9.5	21	72	86.5	90	61.5	32	14.5				
Incremental ice thickness on pond (m)	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.4	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.4	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
Tailings to TSF (tpd)	805.8	1044.6	822.1	542.3	413.7	641.8	652.1	711.2	857.0	859.5	752.3	810.8	1055.4	715.7	811.2	1068.6	710.5	426.6	489.7	616.4	448.9	597.6	347.6	500.0	657.9	557.5	533.3	533.3	533.3	533.3	533.3					
Tailings to paste (tpd)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
Water Inputs (m³/hr)																																				
Tailings water	149.52	206.30	177.68	162.57	143.92	180.70	148.87	153.30	152.65	149.17	147.62	152.61	201.95	196.82	183.60	180.94	140.49	103.46	101.81	125.83	107.66	85.87	59.99	121.6	120.5	113.60	102.62	106.04	102.62	102.62	106.04	102.62				
Paste plant overflow	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
Balance of process plant	12.01	25.33	16.71	23.44	16.57	19.44	15.76	14.79	15.44	16.44	11.32	9.93	8.68	9.85	34.44	14.90	15.00	15.07	15.13	14.82	12.50	6.56	12.83	15.5	17.1	32.86	8.55	8.55	8.55	8.55	8.55					
Climate	4.64	3.61	7.39	11.78	13.57	10.88	10.31	8.53	8.42	8.28	7.47	6.41	4.64	3.61	7.39	11.78	13.57	10.88	10.31	8.53	8.42	8.28	7.47	6.41	4.64	3.61	7.39	11.78	13.57	10.88	10.31	8.53				
Runoff from unlined area	0.02	0.03	0.47	0.75	0.86	0.69	0.66	0.08	0.00	0.00	0.00	0.00	0.02	0.03	0.47	0.75	0.86	0.69	0.66	0.08	0.00	0.00	0.00	0.00	0.02	0.03	0.47	0.75	0.86	0.69	0.66	0.08				
Snowmelt runoff from unlined area	0.00	0.29	0.84	0.87	0.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.29	0.84	0.87	0.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.29	0.84	0.87	0.84	0.00	0.00	0.00					
Seepage from diversion ditch	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.29	11.97	5.62	2.98	2.99	1.96				
Seepage reclaim	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00				
Subtotal: All Inputs	167	237	204	200	177	213	177	178	178	175	167	170	216	212	228	210.2	172	131	129	150	130	102	81	144	143	151	127	141	133	127	130	123				
Water Losses (m³/hr)																																				
Tailing voids	11.80	15.29	12.03	7.94	6.06	9.40	9.55	10.41	12.55	12.58	11.01	11.87	15.45	10.48	11.88	15.64	10.40	6.25	7.17	9.02	6.57	8.75	5.09	7.32	9.63	8.16	7.81	7.81	7.81	7.81	7.81					
Water reclaim to process plant	153.84	203.26	165.84	154.78	138.00	174.32	139.50	148.24	140.34	156.35	153.33	180.83	186.78	186.53	171.93	165.58	130.28	97.33	94.77	116.97	121.18	96.68	54.99	114.4	111.0	105.59	100.8	104.2	100.8	100.8	104.2	100.8				
Climate	1.33	3.03	10.06	12.49	12.58	8.60	4.62	2.03	0.87	0.28	0.70	0.70	1.33	3.03	10.06	12.49	12.58	8.60	4.62	2.03	0.87	0.28	0.70	0.70	1.33	3.03	10.06	12.49	12.58	8.60	4.62	2.03				
Pond evap.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00				
Seepage	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00				
Subtotal: All Losses	168	223	189	176	158	193	155	162	155	170	166	194	205	201	195	194.7	154	113	108	129	130	107	62	123	123	118	120	125	122	118	112					
Net water surplus (deficit)	-1	14	15	24	19	19	22	16	23	5	1	-24	12	11	33	16	18	18	21	21	0	-5	20	21	20	34	7	15	11	9	12	11				
Discharge period water surplus	0.0	0.0	29.5	29.5	29.5	29.5	29.5	29.5	29.5	0.0	0.0	0.0	0.0	0.0	19.9	19.9	19.9	19.9	19.9	19.9	19.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
Actual water treatment	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
Incremental pond volume (m3)	(576)	10,065	11,267	17,428	14,236	14,436	15,784	11,923	16,390	3,475	1,014	(16,424)	8,720	7,601	24,455	11,182	13,030	13,341	15,366	15,799	(27)	(3,724)	14,519	14,182	15,094	24,203	5,566	11,154	8,098	6,335	8,599	8,258				
Seasonal pond volume (m3)	226,360	236,425	247,692	265,120	279,356	293,792	309,577	321,500	337,890	341,365	342,379	325,955	334,675	342,277	366,732	377,914	390,944	404,285	419,651	435,450	435,423	431,700	446,219	460,401	475,495	499,698	505,264	516,419	524,516	530,851	539,450	547,708				
Overall Mass Balance																																				
Tailings Input (Tonnes)	24,980	31,338	25,484	16,268	12,825	19,895	19,563	22,046	25,710	26,646	23,322	22,702	32,718	21,470	25,148	32,057	22,025	13,225	14,692	19,109	13,468	18,527	10,775	14,000	20,394	16,726	16,533	16,000	16,533	16,533	16,000	16,533				
Cumulative Tailings Tonnage (tonnes)	189,694	221,033	246,517	262,785	275,610	295,505	315,068	337,114	362,824	389,470	412,792	435,494	468,212	489,682	514,830	546,887	568,912	582,137	596,829	615,938	629,406	647,933	658,708	672,708	693,102	709,828	726,361	742,361	758,895	775,428	791,428	807,961				
Tailings Input (m³)	15,613	19,587	15,928	10,168	8,016	12,434	12,227	13,779	16,069	16,654	14,576	14,189	20,449	13,419	15,718	20,036	13,766	8,266	9,183	11,943	8,417	11,579	6,734	8,750	12,746	10,454	10,333	10,333	10,000	10,333	10,000	10,333				
Cumulative Tailings Volume (m3)	118,559	138,145	154,073	164,240	172,256	184,690	196,917	210,696	226,765	243,419	257,995	272,184	292,632	306,051	321,769	341,804	355,570	363,836	373,018	384,961	393,379	404,958	411,692	420,442	433,189	443,643	453,976	463,976	474,309	484,643	494,643	504,976				
Total Volume (Waste + Water) (m3)	344,919	374,571	401,765	429,361	451,612	478,483	506,494	532,196	564,655	584,784	600,374	598,139	627,308	648,328	688,501	719,719	746,514	768,121	792,669	820,411	828,802	836,658	857,911	880,843	908,684	943,341	959,240	980,394	998,826	1,015,494	1,034,093	1,052,684				
Check total volume waste + water (m3)	344,919	374,571	401,765	429,361	451,612	478,483	506,494	532,196	564,655	584,784																										

WOLVERINE TAILINGS FACILITY WATER BALANC
UPDATE FOR 2013 ANNUAL REVIEW

Mine Year	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	3	3	3		
Calendar Year	2014	2014	2015	2015	2015	2015	2015	2015	2015	2015	2015	2015	2015	2015	2015	2016	2016	2016	2016	2016	2016	2016	2016	2016	2016	2017	2017	2017		
Month	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	
Mean Monthly Temperature	-10	-18	-15	-16	-12	-8	2	9	11	8	2	-7	-10	-18	-15	-16	-12	-8	2	9	11	8	2	-7	-10	-18	-15	-16	-12	
Monthly percent of annual precip.	8%	8%	8%	6%	5%	4%	7%	11%	14%	11%	10%	9%	8%	8%	8%	6%	5%	4%	7%	11%	14%	11%	10%	9%	8%	8%	8%	6%	5%	
Monthly Precipitation (mm)	46.7	47.4	42.8	33.2	26.5	20.0	42.3	65.3	77.7	62.3	57.1	48.8	46.7	47.4	42.8	33.2	26.5	20.0	42.3	65.3	77.7	62.3	57.1	48.8	46.7	47.4	42.8	33.2	26.5	
Average monthly runoff (% of annual)	3%	1%	0%	0%	0%	1%	19%	35%	17%	9%	6%	3%	1%	0%	0%	0%	0%	1%	19%	35%	17%	9%	6%	3%	1%	0%	0%	0%		
Monthly Evaporation (mm)	6	2	5	4.5	9.5	21	72	86.5	90	61.5	32	14.5	6	2	5	4.5	9.5	21	72	86.5	90	61.5	32	14.5	6	2	5	4.5	9.5	
Incremental ice thickness on pond (m)	0.3	0.4	0.4	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.4	0.4	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.4	0.4	0.4	0.1		
Tailings to TSF (tpd)	533.3	533.3	628.5	628.5	628.5	628.5	628.5	628.5	628.5	628.5	628.5	628.5	628.5	628.5	630.2	630.2	630.2	630.2	630.2	630.2	630.2	630.2	630.2	630.2	630.2	630.2	630.2	628.5	628.5	628.5
Tailings to paste (tpd)	0.0	0.0	698.4	698.4	698.4	698.4	698.4	698.4	698.4	698.4	698.4	698.4	698.4	698.4	700.3	700.3	700.3	700.3	700.3	700.3	700.3	700.3	700.3	700.3	700.3	700.3	700.3	698.4	698.4	698.4
Water Inputs (m³/hr)																														
Tailings water	106.04	102.62	112.37	112.37	112.37	112.37	112.37	112.37	112.37	112.37	112.37	112.37	112.37	112.37	112.68	112.68	112.68	112.68	112.68	112.68	112.68	112.68	112.68	112.68	112.68	112.68	112.68	112.37	112.37	112.37
Paste plant overflow	0.00	0.00	114.69	114.69	114.69	114.69	114.69	114.69	114.69	114.69	114.69	114.69	114.69	114.69	115.01	115.01	115.01	115.01	115.01	115.01	115.01	115.01	115.01	115.01	115.01	115.01	115.01	114.69	114.69	114.69
Balance of process plant	8.55	8.55	12.55	12.55	12.55	12.55	12.55	12.55	12.55	12.55	12.55	12.55	12.55	12.55	12.55	12.55	12.55	12.55	12.55	12.55	12.55	12.55	12.55	12.55	12.55	12.55	12.55	12.55	12.55	12.55
Direct precipitation	8.42	8.28	7.47	6.41	4.64	3.61	7.39	11.78	13.57	10.88	10.31	8.53	8.42	8.28	7.47	6.41	4.64	3.61	7.39	11.78	13.57	10.88	10.31	8.53	8.42	8.28	7.47	6.41	4.64	
Runoff from unlined area	0.00	0.00	0.00	0.00	0.02	0.03	0.47	0.75	0.86	0.69	0.66	0.08	0.00	0.00	0.00	0.00	0.02	0.03	0.47	0.75	0.86	0.69	0.66	0.08	0.00	0.00	0.00	0.00	0.00	
Snowmelt runoff from unlined area	0.00	0.00	0.00	0.00	0.00	0.29	0.84	0.87	0.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.29	0.84	0.87	0.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Seepage from diversion ditch	1.16	0.33	0.00	0.00	0.00	0.34	6.29	11.97	5.62	2.98	2.99	1.96	1.16	0.33	0.00	0.00	0.00	0.34	6.29	11.97	5.62	2.98	2.99	1.96	1.16	0.33	0.00	0.00	0.00	
Seepage reclaim	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Subtotal: All Inputs	125	121	248	247	245	245	256	266	262	255	255	251	250	249	249	248	246	246	256	267	262	256	255	252	251	250	248	247	245	
Water Losses (m³/hr)																														
Tailing voids	7.81	7.81	9.20	9.20	9.20	9.20	9.20	9.20	9.20	9.20	9.20	9.20	9.20	9.20	9.23	9.23	9.23	9.23	9.23	9.23	9.23	9.23	9.23	9.23	9.23	9.23	9.20	9.20	9.20	
Water reclaim to process plant	104.2	100.8	227.07	227.07	227.07	227.07	227.07	227.07	227.07	227.07	227.07	227.07	227.07	227.07	227.69	227.69	227.69	227.69	227.69	227.69	227.69	227.69	227.69	227.69	227.69	227.69	227.07	227.07	227.07	
Estimated pond area (m²)																														
Pond evap.	0.87	0.28	0.70	0.70	1.33	3.03	10.06	12.49	12.58	8.60	4.62	2.03	0.87	0.28	0.70	0.70	1.33	3.03	10.06	12.49	12.58	8.60	4.62	2.03	0.87	0.28	0.70	0.70	1.33	
Seepage	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Subtotal: All Losses	114	110	238	238	239	240	247	250	246	242	239	238	238	238	239	239	241	248	250	250	247	243	240	239	238	238	238	238	239	
Net water surplus (deficit)	11	11	10	9	7	5	8	16	12	9	13	12	12	12	10	9	7	5	8	16	12	9	13	12	12	12	10	9	7	
Discharge period water surplus	0.0	0.0	0.0	0.0	0.0	0.0	20.5	20.5	20.5	20.5	20.5	20.5	0.0	0.0	0.0	0.0	0.0	0.0	20.5	20.5	20.5	20.5	20.5	20.5	0.0	0.0	0.0	0.0	0.0	
Actual water treatment	0.0	0.0	0.0	0.0	0.0	0.0	34.5	34.5	34.5	34.5	34.5	34.5	0.0	0.0	0.0	0.0	0.0	0.0	34.5	34.5	34.5	34.5	34.5	34.5	0.0	0.0	0.0	0.0	0.0	
Incremental pond volume (m3)	8,163	8,098	7,529	6,093	4,969	3,309	(19,543)	(13,188)	(17,011)	(18,774)	(15,743)	(16,850)	8,690	8,688	7,510	6,076	4,950	3,291	(19,524)	(13,170)	(16,992)	(18,755)	(15,725)	(16,832)	8,672	8,669	7,529	6,093	4,969	
Seasonal pond volume (m3)	555,871	563,970	571,499	577,592	582,561	585,869	566,327	553,139	536,129	517,355	501,612	484,762	493,451	502,139	509,649	515,725	520,675	523,966	504,442	491,272	474,280	455,525	439,800	422,968	431,639	440,308	447,837	453,930	458,899	
Overall Mass Balance																														
Tailings Input (Tonnes)	16,000	16,533	19,484	17,599	19,484	18,856	19,484	18,856	19,484	19,484	18,856	19,484	18,856	19,484	19,538	17,647	19,538	18,907	19,538	18,907	19,538	19,538	18,907	19,538	18,907	19,538	19,484	17,599	19,484	
Cumulative Tailings Tonnage (tonnes)	823,961	840,495	859,979	877,577	897,062	915,917	935,401	954,257	973,741	993,225	1,012,081	1,031,565	1,050,421	1,069,905	1,089,442	1,107,089	1,126,627	1,145,534	1,165,072	1,183,979	1,203,516	1,223,054	1,241,961	1,261,499	1,280,406	1,299,944	1,319,428	1,337,026	1,356,511	
Tailings Input (m³)	10,000	10,333	12,178	10,999	12,178	11,785	12,178	11,785	12,178	12,178	11,785	12,178	11,785	12,178	12,211	11,029	12,211	11,817	12,211	11,817	12,211	12,211	11,817	12,211	11,817	12,211	12,178	10,999	12,178	
Cumulative Tailings Volume (m3)	514,976	525,309	537,487	548,486	560,663	572,448	584,626	596,411	608,588	620,766	632,550	644,728	656,513	668,690	680,901	691,931	704,142	715,959	728,170	739,987	752,198	764,409	776,226	788,437	800,254	812,465	824,642	835,641	847,819	
Total Volume (Waste + Water) (m3)	1,070,847	1,089,279	1,108,985	1,126,078	1,143,224	1,158,318	1,150,953	1,149,550	1,144,717	1,138,121	1,134,163	1,129,490	1,149,964	1,170,829	1,190,551	1,207,656	1,224,817	1,239,925	1,232,611	1,231,259	1,226,478	1,219,934	1,216,026	1,211,404	1,231,893	1,252,773	1,272,479	1,289,572	1,306,718	
Check total volume waste + water (m3)	1,070,847	1,089,279	1,108,985	1,126,078	1,143,224	1,158,318	1,150,953	1,149,550	1,144,717	1,138,121	1,134,163	1,129,490	1,149,964	1,170,829	1,190,551	1,207,656	1,224,817	1,239,925	1,232,611	1,231,259	1,226,478	1,219,934	1,216,026	1,211,404	1,231,893	1,252,773	1,272,479	1,289,572	1,306,718	

WOLVERINE TAILINGS FACILITY WATER BALANC
UPDATE FOR 2013 ANNUAL REVIEW

(With diversions)

	3		3		3		3		3		3		3		4		4		4		4		4		4		4		5		5		5		5		5	
Mine Year	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5	5			
Calendar Year	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2018	2018	2018	2018	2018	2018	2018	2018	2018	2018	2018	2018	2019	2019	2019	2019	2019	2019	2019	2019	2019	2019	2019	2019	2019			
Month	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug									
Mean Monthly Temperature	-8	2	9	11	8	2	-7	-10	-18	-15	-16	-12	-8	2	9	11	8	2	-7	-10	-18	-15	-16	-12	-8	2	9	11	8									
Monthly percent of annual precip.	4%	7%	11%	14%	11%	10%	9%	8%	8%	8%	6%	5%	4%	7%	11%	14%	11%	10%	9%	8%	8%	8%	6%	5%	4%	7%	11%	14%	11%									
Monthly Precipitation (mm)	20.0	42.3	65.3	77.7	62.3	57.1	48.8	46.7	47.4	42.8	33.2	26.5	20.0	42.3	65.3	77.7	62.3	57.1	48.8	46.7	47.4	42.8	33.2	26.5	20.0	42.3	65.3	77.7	62.3									
Average monthly runoff (% of annual)	1%	19%	35%	17%	9%	9%	6%	3%	1%	0%	0%	0%	1%	19%	35%	17%	9%	9%	6%	3%	1%	0%	0%	1%	19%	35%	17%	9%										
Monthly Evaporation (mm)	21	72	86.5	90	61.5	32	14.5	6	2	5	4.5	9.5	21	72	86.5	90	61.5	32	14.5	6	2	5	4.5	9.5	21	72	86.5	90	61.5									
Incremental ice thickness on pond (m)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.4	0.4	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.4	0.4	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
Tailings to TSF (tpd)	628.5	628.5	628.5	628.5	628.5	628.5	628.5	628.5	628.5	513.4	513.4	513.4	513.4	513.4	513.4	513.4	513.4	513.4	513.4	513.4	513.4	383.6	383.6	383.6	383.6	383.6	383.6	383.6	383.6	383.6	383.6	383.6	383.6	383.6	383.6			
Tailings to paste (tpd)	698.4	698.4	698.4	698.4	698.4	698.4	698.4	698.4	698.4	505.3	505.3	505.3	505.3	505.3	505.3	505.3	505.3	505.3	505.3	505.3	505.3	505.3	505.3	505.3	505.3	505.3	505.3	505.3	505.3	505.3	505.3	505.3	505.3	505.3	505.3			
Water Inputs (m³/hr)																																						
Tailings water	112.37	112.37	112.37	112.37	112.37	112.37	112.37	112.37	112.37	91.79	91.79	91.79	91.79	91.79	91.79	91.79	91.79	91.79	91.79	91.79	91.79	68.58	68.58	68.58	68.58	68.58	68.58	68.58	68.58	68.58	68.58	68.58	68.58	68.58	68.58			
Paste plant overflow	114.69	114.69	114.69	114.69	114.69	114.69	114.69	114.69	114.69	114.69	114.69	114.69	114.69	114.69	114.69	114.69	114.69	114.69	114.69	114.69	114.69	114.69	114.69	114.69	114.69	114.69	114.69	114.69	114.69	114.69	114.69	114.69	114.69	114.69	114.69	114.69		
Balance of process plant	12.55	12.55	12.55	12.55	12.55	12.55	12.55	12.55	12.55	12.55	12.55	12.55	12.55	12.55	12.55	12.55	12.55	12.55	12.55	12.55	12.55	12.55	12.55	12.55	12.55	12.55	12.55	12.55	12.55	12.55	12.55	12.55	12.55	12.55	12.55			
Direct precipitation	3.61	7.39	11.78	13.57	10.88	10.31	8.53	8.42	8.28	7.47	6.41	4.64	3.61	7.39	11.78	13.57	10.88	10.31	8.53	8.42	8.28	7.47	6.41	4.64	3.61	7.39	11.78	13.57	10.88	10.31	8.53	8.42	8.28	7.47	6.41			
Runoff from unlined area	0.03	0.47	0.75	0.86	0.69	0.66	0.08	0.00	0.00	0.00	0.00	0.00	0.02	0.03	0.47	0.75	0.86	0.69	0.66	0.08	0.00	0.00	0.02	0.03	0.47	0.75	0.86	0.69	0.66	0.08	0.00	0.00	0.02	0.03				
Snowmelt runoff from unlined area	0.29	0.84	0.87	0.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.29	0.84	0.87	0.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
Seepage from diversion ditch	0.34	6.29	11.97	5.62	2.98	2.99	1.96	1.16	0.33	0.00	0.00	0.00	0.34	6.29	11.97	5.62	2.98	2.99	1.96	1.16	0.33	0.00	0.00	0.00	0.34	6.29	11.97	5.62	2.98	2.99	1.96	1.16	0.33	0.00				
Seepage reclaim	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Subtotal: All Inputs	245	256	266	262	255	255	251	250	249	196	195	193	193	203	214	209	203	202	199	198	197	164	163	161	161	171	182	177	171	171	171	171	171	171				
Water Losses (m³/hr)																																						
Tailing voids	9.20	9.20	9.20	9.20	9.20	9.20	9.20	9.20	9.20	7.52	7.52	7.52	7.52	7.52	7.52	7.52	7.52	7.52	7.52	7.52	7.52	5.62	5.62	5.62	5.62	5.62	5.62	5.62	5.62	5.62	5.62	5.62	5.62	5.62	5.62			
Water reclaim to process plant	227.07	227.07	227.07	227.07	227.07	227.07	227.07	227.07	227.07	227.07	227.07	227.07	227.07	227.07	227.07	227.07	227.07	227.07	227.07	227.07	227.07	227.07	227.07	227.07	227.07	227.07	227.07	227.07	227.07	227.07	227.07	227.07	227.07	227.07	227.07	227.07		
<i>Estimated pond area (m²)</i>																																						
Climate	3.03	10.06	12.49	12.58	8.60	4.62	2.03	0.87	0.28	0.70	0.70	1.33	3.03	10.06	12.49	12.58	8.60	4.62	2.03	0.87	0.28	0.70	0.70	1.33	3.03	10.06	12.49	12.58	8.60	0.70	0.70	1.33	3.03	10.06				
Pond evapor.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Seepage																																						
Subtotal: All Losses	240	247	250	250	246	242	239	238	238	184	184	185	186	193	196	196	192	188	185	184	184	159	159	159	161	168	171	171	171	171	171	171	171	171				
Net water surplus (deficit)	5	8	16	12	9	13	12	12	12	12	11	8	6	10	18	13	11	14	14	14	14	5	4	1	-1	3	11	6	4	4	4	4	4	4				
Discharge period water surplus	0.0	20.5	20.5	20.5	20.5	20.5	20.5	0.0	0.0	0.0	0.0	0.0	0.0	23.9	23.9	23.9	23.9	23.9	23.9	23.9	0.0	0.0	0.0	0.0	0.0	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3			
Actual water treatment	0.0	34.5	34.5	34.5	34.5	34.5	34.5	0.0	0.0	0.0	0.0	0.0	0.0	37.9	37.9	37.9	37.9	37.9	37.9	37.9	0.0	0.0	0.0	0.0	0.0	24.3	24.3	24.3	24.3	24.3	24.3	24.3	24.3	24.3	24.3			
Incremental pond volume (m3)	3,309	(19,543)	(13,188)	(17,011)	(18,774)	(15,743)	(16,850)	8,690	8,688	8,783	7,226	6,223	4,522	(20,776)	(14,381)	(18,244)	(20,007)	(16,937)	(18,084)	9,903	9,942	3,672	2,610	1,112	(424)	(15,749)	(9,516)	(13,217)	(14,980)									
Seasonal pond volume (m3)	462,208	442,665	429,477	412,467	393,693	377,950	361,100	369,790	378,477	387,260	394,486	400,709	405,231	384,455	370,074	351,830	331,822	314,886	296,801	306,705	316,647	320,319	322,928	324,040	323,617	307,868	298,352	285,135	270,156									
Overall Mass Balance																																						
Tailings Input (Tonnes)	18,856	19,484	18,856	19,484	19,484	18,856	19,484	18,856	19,484	15,915	14,375	15,915	15,402	15,915	15,402	15,915	15,915	15,402	15,915	15,402	15,915	11,890	10,740	11,890	11,507	11,890	11,507	11,890	11,507	11,890	11,507	11,890	11,507	11,890				
Cumulative Tailings Tonnage (tonnes)	1,375,366	1,394,850	1,413,706	1,433,190	1,452,674	1,471,530	1,491,014	1,509,870	1,529,354	1,545,269	1,559,643	1,575,558	1,590,960	1,606,875	1,622,276	1,638,191	1,654,106	1,669,507	1,685,422	1,700,824	1,716,739	1,728,629	1,739,369	1,751,259	1,762,766	1,774,656	1,786,163	1,798,054	1,809,944									
Tailings Input (m³)	11,785	12,178	11,785	12,178	12,178	11,785	12,178	11,785	12,178	9,947	8,984	9,947	9,626	9,947	9,626	9,947	9,626	9,947	9,626	9,947	9,626	7,432	6,712	7,432	7,192	7,432	7,192	7,432	7,192	7,432	7,192	7,432	7,192	7,432				
Cumulative Tailings Volume (m3)	859,604	871,781	883,566	895,744	907,921	919,706	931,884	943,668	955,846	965,793	974,777	984,724	994,350	1,004,297	1,013,923	1,023,869	1,033,816	1,043,442	1,053,3																			

WOLVERINE TAILINGS FACILITY WATER BALANC
 UPDATE FOR 2013 ANNUAL REVIEW

	(With diversions)															
Mine Year	5	5	5	5	Closure	Closure	Closure	Closure	Closure	Closure	Closure	Closure	Closure	Closure	Closure	Closure
Calendar Year	2019	2019	2019	2019	2020	2020	2020	2020	2020	2020	2020	2020	2020	2020	2020	2020
Month	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Mean Monthly Temperature	2	-7	-10	-18	-15	-16	-12	-8	2	9	11	8	2	-7	-10	-18
Monthly percent of annual precip.	10%	9%	8%	8%	8%	6%	5%	4%	7%	11%	14%	11%	10%	9%	8%	8%
Monthly Precipitation (mm)	57.1	48.8	46.7	47.4	42.8	33.2	26.5	20.0	42.3	65.3	77.7	62.3	57.1	48.8	46.7	47.4
Average monthly runoff (% of annual)	9%	6%	3%	1%	0%	0%	0%	1%	19%	35%	17%	9%	9%	6%	3%	1%
Monthly Evaporation (mm)	32	14.5	6	2	5	4.5	9.5	21	72	86.5	90	61.5	32	14.5	6	2
Incremental ice thickness on pond (m)	0.0	0.0	0.3	0.4	0.4	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.4
Tailings to TSF (tpd)	383.6	383.6	383.6	383.6												
Tailings to paste (tpd)	505.3	505.3	505.3	505.3												
Water Inputs (m³/hr)																
Tailings water	68.58	68.58	68.58	68.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paste plant overflow	82.98	82.98	82.98	82.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Balance of process plant	3.78	3.78	3.78	3.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Climate																
Direct precipitation	10.31	8.53	8.42	8.28	7.47	6.41	4.64	3.61	7.39	11.78	13.57	10.88	10.31	8.53	8.42	8.28
Runoff from unlined area	0.66	0.08	0.00	0.00	0.00	0.00	0.02	0.03	0.47	0.75	0.86	0.69	0.66	0.08	0.00	0.00
Snowmelt runoff from unlined area	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.29	0.84	0.87	0.84	0.00	0.00	0.00	0.00	0.00
Seepage from diversion ditch	2.99	1.96	1.16	0.33	0.00	0.00	0.00	0.34	6.29	11.97	5.62	2.98	2.99	1.96	1.16	0.33
Seepage reclaim	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Subtotal: All Inputs	170	167	166	165	8	7	6	5	16	26	22	16	15	12	11	10
Water Losses (m³/hr)																
Tailing voids	5.62	5.62	5.62	5.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water reclaim to process plant	151.56	151.56	151.56	151.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Climate																
Pond evapor.	4.62	2.03	0.87	0.28	0.70	0.70	1.33	3.03	10.06	12.49	12.58	8.60	4.62	2.03	0.87	0.28
Seepage	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Subtotal: All Losses	163	160	159	158	2	2	2	4	11	13	14	10	6	3	2	1
Net water surplus (deficit)	7	7	7	6	7	6	3	1	5	13	8	6	9	9	9	8
Discharge period water surplus	10.3	10.3	0.0	0.0	0.0	0.0	0.0	0.0	13.9	13.9	13.9	13.9	13.9	13.9	0.0	0.0
Actual water treatment	24.3	24.3	0.0	0.0	0.0	0.0	0.0	0.0	13.9	13.9	13.9	13.9	13.9	13.9	0.0	0.0
Incremental pond volume (m3)	(12,071)	(13,057)	4,957	4,831	5,038	3,843	2,477	898	(6,676)	(736)	(4,144)	(5,907)	(3,291)	(3,984)	6,279	6,196
Seasonal pond volume (m3)	258,084	245,028	249,985	254,816	259,853	263,696	266,173	267,071	260,395	259,659	255,516	249,609	246,318	242,334	248,613	254,809
Overall Mass Balance																
Tailings Input (Tonnes)	11,507	11,890	11,507	11,890	-	-	-	-	-	-	-	-	-	-	-	-
Cumulative Tailings Tonnage (tonnes)	1,821,451	1,833,341	1,844,848	1,856,739	1,856,739	1,856,739	1,856,739	1,856,739	1,856,739	1,856,739	1,856,739	1,856,739	1,856,739	1,856,739	1,856,739	1,856,739
Tailings Input (m³)	7,192	7,432	7,192	7,432	-	-	-	-	-	-	-	-	-	-	-	-
Cumulative Tailings Volume (m3)	1,138,407	1,145,838	1,153,030	1,160,462	1,160,462	1,160,462	1,160,462	1,160,462	1,160,462	1,160,462	1,160,462	1,160,462	1,160,462	1,160,462	1,160,462	1,160,462
Total Volume (Waste + Water) (m3)	1,396,491	1,390,866	1,403,015	1,415,277	1,420,315	1,424,158	1,426,635	1,427,533	1,420,857	1,420,121	1,415,977	1,410,071	1,406,779	1,402,796	1,409,074	1,415,271
Check total volume waste + water (m3)	1,396,491	1,390,866	1,403,015	1,415,277	1,420,315	1,424,158	1,426,635	1,427,533	1,420,857	1,420,121	1,415,977	1,410,071	1,406,779	1,402,796	1,409,074	1,415,271

APPENDIX V

2014 Dam Safety Inspection Checklist

TAILINGS DAM INSPECTION REPORT
Wolverine Tailings Dam

All parts of inspection sheet should be completed. Adverse conditions should be described. Additional information may be put on attached pages.

PROJECT NO.	M09234A09	INSPECTION DATE	June 11-12, 2014
DAM NO.	Wolverine Tailings Dam	LOCATION	Yukon Territory
PERSONNEL			
Engineer	Lowell Constable	Others	
Company Representative	Andrea Kenward		
WEATHER			
	Current	Last 3 Days	Last 2 Weeks
Dry	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Frost	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Rain	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Heavy Rain	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
STATUS OF DISPOSAL FACILITY			
Active	<input checked="" type="checkbox"/>	Closed	<input type="checkbox"/>
		Notes:	
DAM INFORMATION			
Pond Elevation	1306.32 m (last measured April 28, 2014)	Freeboard	
Crest Elevation	1313.5 m	Distance from Ponds to Crest	
DAM CONSTRUCTION METHOD			
Upstream	<input type="checkbox"/>		
Centreline	<input type="checkbox"/>		
Downstream	<input checked="" type="checkbox"/>		
LOCAL CONSTRUCTION ACTIVITIES			
Spigotting	<input checked="" type="checkbox"/>		
Cycloning	<input type="checkbox"/>		
End Discharge	<input type="checkbox"/>		
Dam Raising	<input type="checkbox"/>		
Other	<input type="checkbox"/>		
REASON FOR INSPECTION			
Routine	<input checked="" type="checkbox"/>	Annual Dam Safety Inspection	
Special Condition	<input type="checkbox"/>		
NOTES			

TAILINGS DAM INSPECTION REPORT
Wolverine Tailings Dam

Upstream Slope / Tailings Beach

No.	Item	Chkd	Condition		
			Rating *	Remarks / Description	Photograph No.
1.	Slope Protection	N	N	Upstream slope lined	5, 6, 7, 8
2.	Surface Erosion	Y	S	None observed	
3.	Surface Settlements/ Depressions	Y	S		
4.	Sinkholes	Y	S		
5.	Cracks/Movements	Y	S		
6.	Debris	Y	S		
7.	Vegetation	Y	S		
8.	Evidence of High Water Table	Y	S		
9.	Other Unusual Conditions	Y	S		
<p>Notes: Tailings deposition is in progress. Protective mat under spigot had been moved by the tailings flow, but spigot location is changing within next 3 months. Some slumping in the impoundment slope under the liner in the north end, likely due to connection of seepage from Diversion Ditch A and toe of impoundment. Remediation planning is underway. (Photos 23- 27)</p>					
(If space insufficient, continue on separate sheet)					

* Legend

S = Satisfactory. Will fulfill intended purpose.

F = Fair. Will fulfill intended purpose. Maintenance or further study required.

P = Poor. May not fulfill intended purpose. Repair or modification required.

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TAILINGS DAM INSPECTION REPORT
Wolverine Tailings Dam

Dam Crest

No.	Item	Chkd	Condition		
			Rating *	Remarks / Description	Photograph No.
1.	Surface Cracks (a) Transverse (b) Longitudinal	Y	S		1, 5
2.	Settlements/Depressions	Y	S		
3.	Sinkholes	Y	S		
4.	Lateral Movements	Y	S	No visible signs of movement. Surface monuments still to be installed.	
5.	Surface Protections	Y	S		
6.	Erosion	Y	S		
7.	Vegetation	Y	S		
8.	Animal Burrows	N	N		
Notes:					
(If space insufficient, continue on separate sheet)					

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TAILINGS DAM INSPECTION REPORT
Wolverine Tailings Dam

Downstream Dam Slope

No.	Item	Chkd	Condition		
			Rating *	Remarks / Description	Photograph No.
1.	Slope Protection	Y	S		1, 11, 12,
2.	Surface Erosion	Y	S		
3.	Surface Settlements/ Depressions	Y	S		
4.	Sinkholes	Y	S		
5.	Cracks/Slope Movements	Y	S		
6.	Seepage/Wet Areas	Y	S		
7.	Animal Burrows	Y	S		
8.	Vegetation	Y	F	Grass starting to take hold. Expect it to improve between now and closure of the facility.	
9.	Slope Angle	Y	S		
10.	Other Unusual Conditions	Y	S		
Notes:					
(If space insufficient, continue on separate sheet)					

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TAILINGS DAM INSPECTION REPORT
Wolverine Tailings Dam

Left Abutment – At Spillway

No.	Item	Chkd	Condition		
			Rating *	Remarks / Description	Photograph No.
1.	Surface Condition	Y	S		9
2.	Vegetation and Debris	Y	S		
3.	Slope Protection	Y	S		
4.	Movements	Y	S		
5.	Erosion	Y	S		
6.	Seepage/Wet Areas	Y	S		
7.	Other Unusual Conditions	Y	S		
Notes: Spillway is aligned along left abutment.					
(If space insufficient, continue on separate sheet)					

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TAILINGS DAM INSPECTION REPORT
Wolverine Tailings Dam

Right Abutment

No.	Item	Chkd	Condition		
			Rating *	Remarks / Description	Photograph No.
1.	Surface Condition	Y	S		
2.	Vegetation and Debris	Y	S		
3.	Slope Protection	Y	S		
4.	Movements	Y	S		
5.	Erosion	Y	S		
6.	Seepage/Wet Areas	Y	S		
7.	Other Unusual Conditions	Y	S		
Notes:					
(If space insufficient, continue on separate sheet)					

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TAILINGS DAM INSPECTION REPORT
Wolverine Tailings Dam

Toe Drainage and Seepage Collection Ditches / Ponds

No.	Item	Chkd	Condition		
			Rating *	Remarks / Description	Photograph No.
1.	Seepage/Wet Areas	Y	S		12 (Toe Drainage) 28, 29
2.	Signs of Instability	Y	S		
3.	Vegetation	Y	S		
4.	Other Unusual Conditions	Y	S		

Notes:

(If space insufficient, continue on separate sheet)

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N = Not inspected.

TAILINGS DAM INSPECTION REPORT
Wolverine Tailings Dam

Instrumentation

No.	Item	Chkd	Condition		
			Rating *	Remarks / Description	Photograph No.
1.	Piezometers	Y	S		
2.	Standpipes	N	N	Standpipes/monitoring wells need caps and locks to prevent damage from unauthorized persons.	
3.	Survey Monuments	N	N	None present Should be installed this year.	
4.	Inclinometers	Y	U	Inclinometers non-functional. Remediation planning in progress.	10
5.	Relief Wells	N	N	None present	
6.	Weirs	N	N	None present	
7.	Other	N	N		
Notes:					
(If space insufficient, continue on separate sheet)					

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TAILINGS DAM INSPECTION REPORT
Wolverine Tailings Dam

Spillway

No.	Item	Chkd	Condition		
			Rating *	Remarks / Description	Photograph No.
1.	Slope Protection	Y	S		16
2.	Surface Erosion	Y	S		
3.	Surface Settlements/ Depressions	Y	S		
4.	Sinkholes	Y	S		
5.	Cracks/Movements	Y	S		
6.	Debris	Y	S		
7.	Vegetation	Y	S		
8.	Evidence of High Water Table	Y	S		
9.	Other Unusual Conditions	Y	S		
Notes:					
(If space insufficient, continue on separate sheet)					

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P = Poor. May not fulfill intended purpose. Repair or modification required.

U = Unsatisfactory. Will not fulfill purpose. Repair or modification required.

N = Not inspected.

N/A = Not Applicable.