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DRAFT
Mount Polley Mine
Hydrogeology Assessment And Data Review
Likely B.C

Submitted to:

Mount Polley Mining Corporation
Vancouver, BC

Submitted by:

AMEC Environment & Infrastructure,
a Division of AMEC Americas Limited
Burnaby, BC

March 2013

AMEC File: VM00560B

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IMPORTANT NOTICE

This report was prepared exclusively for Mount Polley Mining Corporation by AMEC Environment & Infrastructure, a wholly owned subsidiary of AMEC Americas Limited. The quality of information, conclusions and estimates contained herein is consistent with the level of effort involved in AMEC services and based on: i) information available at the time of preparation, ii) data supplied by outside sources, and iii) the assumptions, conditions and qualifications set forth in this report. This report is intended to be used by Mount Polley Mining Corporation only, subject to the terms and conditions of its contract with AMEC. Any other use of, or reliance on, this report by any third party is at that party's sole risk.

1.0 INTRODUCTION

The Mount Polley Mining Corporation (MPMC) has retained AMEC Environment and Infrastructure, a division of AMEC Americas Ltd. (AMEC), to provide a hydrogeological assessment of the Mount Polley mine site. The mine site is located approximately 60 km northeast of Williams Lake B.C. and approximately 20 km southwest of Likely B.C. The purpose of this assessment is to address concerns expressed by the British Columbia Ministry of Environment (MOE) regarding changes in groundwater quality at the mine site, and to characterize the hydrogeologic setting at the mine site.

1.1 Objectives and Scope of Work

The main objectives of the hydrogeological assessment are to:

- Provide a data gap analysis and attempt to resolve gaps in the available data;
- Characterize the local hydrogeological conditions at the mine site and develop a site specific conceptual model;
- Identify surface and/or groundwater quality changes related to mining activity, specifically acid rock drainage (ARD);
- Determine infiltration rates into the Springer Pit and identify potential groundwater impacts related to the Springer Pit development; and
- Identify areas of potential environmental concern and potential contaminants of concern.

The following work has been performed:

- An in-depth data review and compilation of relevant groundwater information collected by MPMC and from the public domain;
- Ten (10) monitoring wells at five locations have been installed to resolve identified data gaps;
- Development of a conceptual site model and the identification of wells exhibiting significant changes in either baseline static water levels and/or water quality;
- Hydrogeological mapping to define discharge and recharge areas; and
- Decommissioning of one (1) monitoring well.

The main text of this report provides a discussion of the regional setting, a summary of the field program, characterization of the hydrogeological setting, potential impacts and conclusions and recommendations. Supporting information is available in the accompanying figures, tables, and appendix.

2.0 REGIONAL SETTING

The mine site is positioned on a ridge that separates Polley Lake and Bootjack Lake. The regional study area includes the Mount Polley mine site and the adjacent Bootjack Lake/ Morehead Creek drainage basin and the Polley Lake/ Hazeltine Creek drainage basin located southwest and northeast of the mine site respectively, Figure 1.

2.1 Physiography

The regional topographic relief and drainage networks are shown in Figure 1. The study area covers approximately 100 km². The Mount Polley mine site is located within the geographic region known as the Fraser Plateau. This region is west of and adjacent to the Quesnel Highlands and the Cariboo Mountain Range. The topography of this area is bedrock controlled and the elevation ranges from approximately 915 masl to 1470 masl. The topographic highs in the area are Mount Polley which peaks at approximately 1470 meters above sea level (masl) and is located at the center of the mine site, Bootjack and Jacobie mountains are located east of Mount Polley with elevations of 1270 masl and 1310 masl, respectively. These topographic highs have volcanic origins. The terrain within the study area slopes towards the east with a total relief of approximately 680 meters, with the surface of Quesnel Lake at approximately 790 masl.

This area was glaciated during the last glaciation and the overburden in the area is mostly glacial and glacio-lacustrine sediments. The composition of the till is silty clay/clayey silt with varying amounts of gravel and boulders. The overburden thickness in the area ranges from less than 1 meter to greater than 25 meters and bedrock is typically not exposed within most of the site. Bedrock exposure is limited to steep slopes and cuts. The majority of the area is tree covered and supports an active logging industry.

2.2 Regional Climate

The climate in the area can be described as a humid, continental climate with warm summers, with spring being the driest season and the summer being the wettest season.

The climate data is from Environment Canada's Canadian Climate Normals (1971-2000) database. Climate data for Likely B.C. is available from 1974 to 1993 and the findings are summarized below:

- Precipitation rates range from a maximum monthly average of 81.8 mm in June to a minimum monthly average of 35.5 mm in March;
- The average annual precipitation is 692.4 mm, with 215.2 mm occurring as snow;
- Temperatures range from a maximum daily average of 15.4 degrees Celsius in July to minimum daily average of -7.0 degrees Celsius in January;
- The average annual daily temperature is 4.6 degrees Celsius.

The Likely B.C. meteorological station is located approximately 20 from the mine site.

2.3 Regional Geology

The mine site is located within the Quesnellia Terrane. The Quesnellia Terrane consists chiefly of west-facing Upper Triassic to Lower Jurassic (Karnian to Sinemurian) volcanic arc rocks (Nicola Group, Rossland Formation), coeval calc-alkalic and alkalic plutons, and laterally equivalent clastic sedimentary rocks (Mortimer, 1987; Monger, 1989; Andrew and others, 1990; Parrish and Monger, 1992).

The mine site is located within Quesnellia on the eastern margin of the Intermontane Belt. This part of Quesnellia consists of a sequence of volcanic units that dip east to northeast 5 km west of the property, and dip predominantly to the west or southwest 4 km east of the property (Bailey, 1987).

The volcanic rocks include flows, breccias and tuffs. Volumetrically the most important are augite-porphyrific basalt to trachybasalts that locally form pillowed units. Less common are purple and maroon polymictic volcanic breccias, and green crystal and lapilli tuffs. An analcite-bearing flow and flow breccia are interpreted to be the youngest volcanic units in the area (Bailey, 1987).

3.0 PREVIOUS INVESTIGATIONS

Drilling and well installations have been completed in multiple years beginning in 1981. Much of the information from these well investigations is lost other than some reference to their drilling and some flow measurements. A series of holes labelled R81-1 to R86-38 were drilled to depths ranging from 18 meters to 237 meters. Each of these boreholes has a reported groundwater yield from them ranging from 10 to 400 gallons per minute. There is no other information from these wells.

Another series of wells labelled MP89-107 to MP89-236 were drilled in the tailings area and in the Springer or Cariboo pit areas. All of these were 2 inch monitoring wells at one time but have since been destroyed. No drill logs or information from the monitoring wells is available.

In 1995, seven water wells were completed labelled 95-R1 to 95-R7. Two of these wells, 95-R4 and 95-R5 have been incorporated into the regular groundwater monitoring plan, the others have been lost due to development.

Fifteen new monitoring wells were installed in 1996, generally with a shallow and a deep installation at each site. Most of these wells have borehole logs and installation details in the database and most of them are in the current groundwater monitoring network.

In 2000 and 2011 several new installations were constructed in the tailings area.

All of these boreholes provide information on the general geology of the area, particularly overburden geology and they provide groundwater monitoring locations where wells have been retained.

Golder Associates produced a report on pit groundwater inflows and the development of a pit lake. They predicted that at ultimate pit depth (820 masl), the groundwater inflows would be 1600 m³/day and that when the pit lake reaches spill elevation (1060 masl) the groundwater influx would be 100 m³/day.

4.0 IDENTIFICATION OF DATA GAPS

The available monitoring network from the previous investigations provides reasonable coverage of the mine site. There are some installations that require modification or replacement as outlined below.

1. The monitoring well GW96-8a/8b was destroyed in the construction of a haul road. This monitoring well nest provided coverage for an area downgradient of the mill and required replacement. This well was replaced by GW12-3a/b.
2. Monitoring well 95-R-4 contained multiple screens at six different levels. This potentially connected separate aquifers. Interpretation of water quality results from these multiple screens was thus ambiguous. This well was grouted and replaced with GW12-2a/b.
3. Monitoring well 95-R-5 also contained multiple screens creating the same potential to join multiple aquifers and mixing water quality. Water quality in 95-R-5 has shown a recent distinct increase in sulphate. This well will be retained in the monitoring network in the short term and two wells have been installed on either side of this well, GW12-4a/b and GW12-5a/b, to expand the monitoring network,. Because of the multiple screens, this well will eventually be replaced.
4. Groundwater level and quality monitoring in the tailings facility is well developed. Some water quality is starting to show a potential impact from mine operations. This will be monitored closely and expanded monitoring in frequency or distribution is warranted.

In general, these older installations have not been hydraulically tested through rising or falling head tests. This will be completed in a future field program.

5.0 FIELD PROGRAM METHODOLOGY

The field program took place between November 14, 2012 and December 18, 2012 and involved borehole drilling, monitoring well installation, well development, and single well response tests.

5.1 Monitoring Well Installation

Monitoring wells were installed as pairs, with each pair having a shallow and deep monitoring well. Each well had its own borehole.

Drilling was completed with a Fraste Multidrill XL, air rotary, track mounted drill rig to advance a total of ten (10) boreholes at five locations. Rock chip samples were collected every 3.0 meters at each of the deep boreholes. These samples were submitted to the MPMC for analysis. At each location the shallow monitoring wells were installed at the first water bearing zone and the deep monitoring wells were installed at or around 100 mbgs.

Installation of PVC monitoring wells and the well development was completed by the drilling contractor, GeoTech Drilling Ltd., with AMEC providing guidance. The monitoring wells were constructed using 5 cm diameter PVC pipe risers and slotted screens. Screen lengths were 3.0 meters and 6.1 meters for the shallow and deep wells respectively. A sand pack was placed around the slotted screen and approximately 0.3 to 1.0 meter above the top of the screen. Bentonite pellets were placed above the sand pack to create a hydraulic seal. The remainder of the borehole was grouted to surface and completed with an above ground protective casing. Monitoring well details are summarized in Table 1. Borehole logs and well completions are in Appendix A.

Table 1: Monitoring Well Installation Details

Monitoring Well ID	Total Well Depth (m)	Ground Surface Elevation (masl)	Well Screen Interval (masl)	Screened Formation
GW12-1A	99.6	991.6	892.0 - 899.2	Bedrock
GW12-1B	24.4	991.4	967.0 - 970.7	Bedrock
GW12-2A	100.6	1035.4	934.8 - 941.5	Bedrock
GW12-2B	30.2	1035.4	1005.2 - 1008.9	Bedrock
GW12-3A	99.7	1039.1	939.4 - 946.4	Bedrock
GW12-3B	16.1	1039.2	1023.1 - 1026.4	Bedrock
GW12-4A	100.6	989.9	889.3 - 896.5	Bedrock
GW12-4B	36.3	990.1	953.8 - 957.3	Bedrock
GW12-5A	100.4	965.3	864.9 - 872.2	Bedrock
GW12-5B	12.7	966.2	953.5 - 957.6	Overburden

The completed monitoring wells were developed using air injection. Each monitoring well was developed by air lifting for at least 2 hours and/or until the purged water was clear and contained no sediments. Prior to well development, static water levels were taken and these are summarized in Section 6.1.1.

5.2 Single Well Response Tests

Upon completion of the air development, water levels were taken to record the recovery in each well (rising head test). The rising head test data was used to calculate hydraulic conductivities of subsurface materials.

6.0 RESULTS

6.1 Hydrogeology and Conceptual Site Model

Groundwater in the Mount Polley area is mainly confined in a bedrock aquifer where flow is largely controlled by the orientation and frequency of fractures, faults and unconformities caused by volcanic events.

Localized overburden aquifers occur in topographic low areas, particularly in the tailings area, as these areas were not scraped/eroded during the last period of glaciation, thus glacial deposits (basal till) has remained intact in these locations. In general these glacial deposits do not contain significant outwash sands and gravels which can typically occur in glacial-fluvial deposits. There are some sandy deposits in the tailings area.

6.1.1 Groundwater Levels and Flow Directions

Groundwater measurements were recorded at all new well locations upon well installation. The groundwater level ranges from an elevation of 957.57 mbgs to 1036.25 mbgs.

Table 2: Summary of Measured Groundwater Levels

Monitoring Well ID	Measured Groundwater Depth (m)	Ground Surface Elevation (m)	Groundwater Level Elevation (m)	Gradient
GW12-1A	4.98	991.59	986.61	Up
GW12-1B	5.12	991.37	986.25	
GW12-2A	21.42	1035.45	1014.03	Down
GW12-2B	21.39	1035.45	1014.06	
GW12-3A	3.15	1039.06	1035.91	Down
GW12-3B	2.99	1039.24	1036.25	
GW12-4A	21.95	989.87	968.17	Down
GW12-4B	12.81	990.12	977.06	
GW12-5A	7.71	965.28	957.57	Down
GW12-5B	5.31	966.22	960.91	

The strongest hydraulic gradients are downward at sites GW12-4 and 5. These are both adjacent to Polley Lake. The other gradients are also down, with the exception of GW12-1, but all are very slight. The downwards gradients adjacent to Polley Lake indicate that groundwater is recharged in the high ground between Polley and Bootjack Lakes and discharges into the lakes. GW12-1 is located at the toe of Mount Polley and is thus expected to be a groundwater discharge area.

Bootjack Lake is approximately 63 meters in elevation above Polley Lake and imprints a deep seated flow direction from Bootjack to Polley Lake. The shallower flow paths report to both Bootjack and Polley lakes. Figure 2 displays a cross section through the Mount Polley mine site that illustrates the conceptual groundwater flow paths.

Figure 3 presents a map of hydraulic heads derived from water level measurements in monitoring wells, local ponds and pits, and topography. The figure illustrates the general mound of groundwater in the high ground around the mine and the steep groundwater contours surrounding the pits. Figures 2 and 3 represent our conceptual model of groundwater flow directions and approximate head distributions.

6.1.2 Hydraulic Conductivity

Single well response tests were performed on all new installations upon well completion. The well response test used was the rising head test and hydraulic conductivities were calculated based upon the results.

The Hvorslev mathematical solution was used to calculate the hydraulic conductivity. The solution assumes a homogeneous aquifer with infinite vertical extent. This solution is widely used and provides a straight-forward and well-documented approximation of hydraulic conductivity in the vicinity of the monitoring well screen. The results of the single well response tests are summarized in the following table.

Table 3: Hydraulic Testing of New Wells.

Monitoring Well	Screened Formation	Ground Surface Elevation (masl)	Well Screen Interval (masl)	Hydraulic Conductivity (m/s)
GW12-1A	Bedrock	991.59	892.0 - 899.2	2×10^{-9}
GW12-1B	Bedrock	991.37	967.0 - 970.7	$>10^{-4}$
GW12-2A	Bedrock	1035.45	934.8 - 941.5	3×10^{-8}
GW12-2B	Bedrock	1035.45	1005.2 - 1008.9	2×10^{-7}
GW12-3A	Bedrock	1039.06	939.4 - 946.4	2×10^{-7}
GW12-3B	Bedrock	1039.24	1023.1 - 1026.4	1×10^{-5}
GW12-4A	Bedrock	989.87	889.3 - 896.5	4×10^{-9}
GW12-4B	Bedrock	990.12	953.8 - 957.3	2×10^{-5}
GW12-5A	Bedrock	965.28	864.9 - 872.2	$>10^{-4}$
GW12-5B	Glacial Till	966.22	953.5 - 957.6	3×10^{-7}

The hydraulic conductivities of all of the wells range from $>10^{-4}$ to 2×10^{-9} m/s. The geometric mean hydraulic conductivity of the shallow wells is 4×10^{-6} m/s and the geometric mean hydraulic conductivity of the deep wells is 9×10^{-8} m/s. The deep bedrock well at GW12-5A is actually in the shallow bedrock interval and the shallow well is in overburden, a different hydrostratigraphic unit. If the shallow result at GW12-5B is excluded and the deep result is included in the shallow data set, the geometric mean of the shallow bedrock is 7×10^{-6} m/s and the deep bedrock geometric mean hydraulic conductivity is 1×10^{-8} m/s. The difference in the hydraulic conductivity between the shallow and deep wells is nearly three orders of magnitude.

6.1.3 Groundwater Flow Velocities

Using the approximate distribution of hydraulic heads, Figure 3, the shallow general hydraulic gradient toward both Polley and Bootjack Lake is approximately 0.14 m/m. Around the dewatered Springer and Cariboo pits, the local gradient is much higher and it appears that in the vicinity of the tailings pond the gradients are much lower.

Using the average hydraulic conductivity for shallow wells is 7×10^{-6} m/s and an assumed porosity of 0.1, the average Darcy velocity is approximately 0.8 m/day.

6.1.4 Pit Groundwater Inflows

The actual groundwater inflows to Springer and Cariboo pits can be determined from a detailed water balance, which is not in this scope of work; MPMC is preparing the water balance. Using the hydraulic head contours and estimates of bulk hydraulic conductivity, combined inflows to Springer and Cariboo pits may be as high as $725 \text{ m}^3/\text{day}$ which is within the range predicted by Golder Associates.

6.2 Groundwater Quality Trends

Based on recent groundwater sampling programs, five wells appear to be showing evidence of influence by mine operations. Two are in the pit/waste rock area; 95-R4, 95-R5, and three are in the tailings facility area; GW96-2B, GW96-4B, and GW00-1B.

6.2.1 95-R4

Monitoring well 95-R4 has shown elevated Sulphate and Selenium and decreased Molybdenum. There is a slight possibility of elevated copper. This well has multiple screens so the origin of this water quality is not known. This well was also significantly affected by the nearby sub-horizontal borehole that appeared to dramatically lower the water level in the well. Monitoring wells GW12-2A/B have replaced this well. Further monitoring should help to clarify these ambiguous results.

6.2.2 95-R5

Monitoring well 95-R5 shows elevated concentrations of sulphate, cadmium, and possibly copper, as well as elevated hardness. There is also a slight decrease in molybdenum. This well also has multiple screens. Monitoring will continue on this well. Adjacent wells have been constructed, GW12-4A/B and GW12-5A/B, to expand coverage in this area.

Well 95-R5 is screened with four screens at 43ft, 164ft, 209ft, and 254ft. Discrete micro purge samples were collected at these four locations using a submersible pump. The results of the sampling are not entirely conclusive; however the parameters with the greatest historic increases, sulphate and cadmium, were at the highest concentrations in the zone at 164 feet. This may suggest that this is the zone carrying the highest percentage of mine affected water.

6.2.3 GW96-2B

Monitoring well GW96-2B, located on the northeast limb of the tailings facility, is constructed from 31 to 35 meters depth in a water bearing sand. Sulphate in this well is just beginning to show signs of change; no other parameters are showing any clear trends.

6.2.4 GW96-4B

Monitoring well GW96-4B, located on the southwest limb of the tailings facility is showing a distinct trend of rising hardness, sulphate, and nitrate. This is a very shallow well, 3 to 7 meters, constructed in a sand lens.

6.2.5 GW00-1B

This well is also on the southwest limb of the tailings facility and also shallow, 4 – 10 meters and constructed across a thin sand seam. This well shows several elevated parameters; hardness, sulphate, nitrate, cadmium, molybdenum, and selenium.

There are some common themes in this suite of results; sulphate is the commonly elevated parameter. Some wells also show elevated selenium, cadmium, or nitrate. Well GW00-1B includes all of them plus molybdenum.

The mechanisms for these changes are not fully known. A review of geochemistry data and analysis, which we understand is frequently updated with new kinetic data, will help explain some of these mechanisms. This is beyond the scope of this assignment.

7.0 GROUNDWATER QUALITY MONITORING PROTOCOL

A groundwater monitoring protocol including sampling sites, frequency, and parameters has been proposed by MPMC. This proposal is appropriate for current conditions. Because there are initial indications of some mine affected water showing up in a couple of places, the monitoring program should remain adaptable to monitoring results. Additional monitoring sites may be required in future along with enhanced frequency.

8.0 SUMMARY

Hydrogeological conditions at Mt. Polley are defined by boreholes and monitoring wells constructed across the site. This data set and interpretations are summarized below.

1. The area hydrostratigraphy consists of, from top down:
 - a. Generally thin but locally thick glacio-fluvial overburden
 - b. Weathered and/or fractured bedrock
 - c. Intact and competent bedrock
2. It is apparent that some permeable fractures can be present at depth.
3. Hydraulic heads are generally a subdued form of topography being high in the center of the mine area and lower at both lakes and lower south of the tailings pond.
4. Groundwater discharges to both Bootjack and Polley lakes.
5. Groundwater discharges southeast of the tailings pond.
6. Groundwater discharges to Springer and Cariboo pits.
7. Groundwater velocities are approximately 3 meters/year but with considerable variability.
8. Groundwater appears to have been impacted at a few sites in the tailings area and a couple of sites downgradient of mine facilities.
9. Monitoring is established across the mine site with appropriate frequencies and analytical protocols.

9.0 CONCLUSIONS AND RECOMMENDATIONS

MPMC has an established monitoring program with some data records extending back to 1995. Recent possible detections have resulted in an expansion and modification to the monitoring program. MPMC will need to continue to be adaptive to changes in water chemistry and devise mitigation measures where necessary. Some recommendations moving forward are:

1. Conduct a study correlating changes in groundwater chemistry with the waste rock and tailings geochemistry data. Some sampling in the tailings would help define mechanisms there.

2. Continue to monitor 95-R5 for two more events but consider replacing this well with a nested pair.
3. Water quality results for the new wells GW12-4 and GW12-5 may indicate a need for expanded monitoring in this area.
4. A detailed water balance should be prepared to assess the groundwater volumes reporting to the pits. This will aid in calibrating a groundwater flow model that can be used for closure planning.

10.0 LIMITATIONS AND CLOSURE

This report has been prepared for the use of Mount Polley Mining Corporation. Any use which a third party makes of this report, or any reliance on or decisions made based on it, are the responsibility of such third parties. AMEC accepts no responsibility for damages, if any, suffered by any third party as a result of decisions made or actions based on this report. It has been prepared in accordance with generally accepted geology and geotechnical engineering practices. No other warranty, expressed or implied, is made.

Respectfully submitted,

**AMEC Environment & Infrastructure,
a division of AMEC Americas Limited**

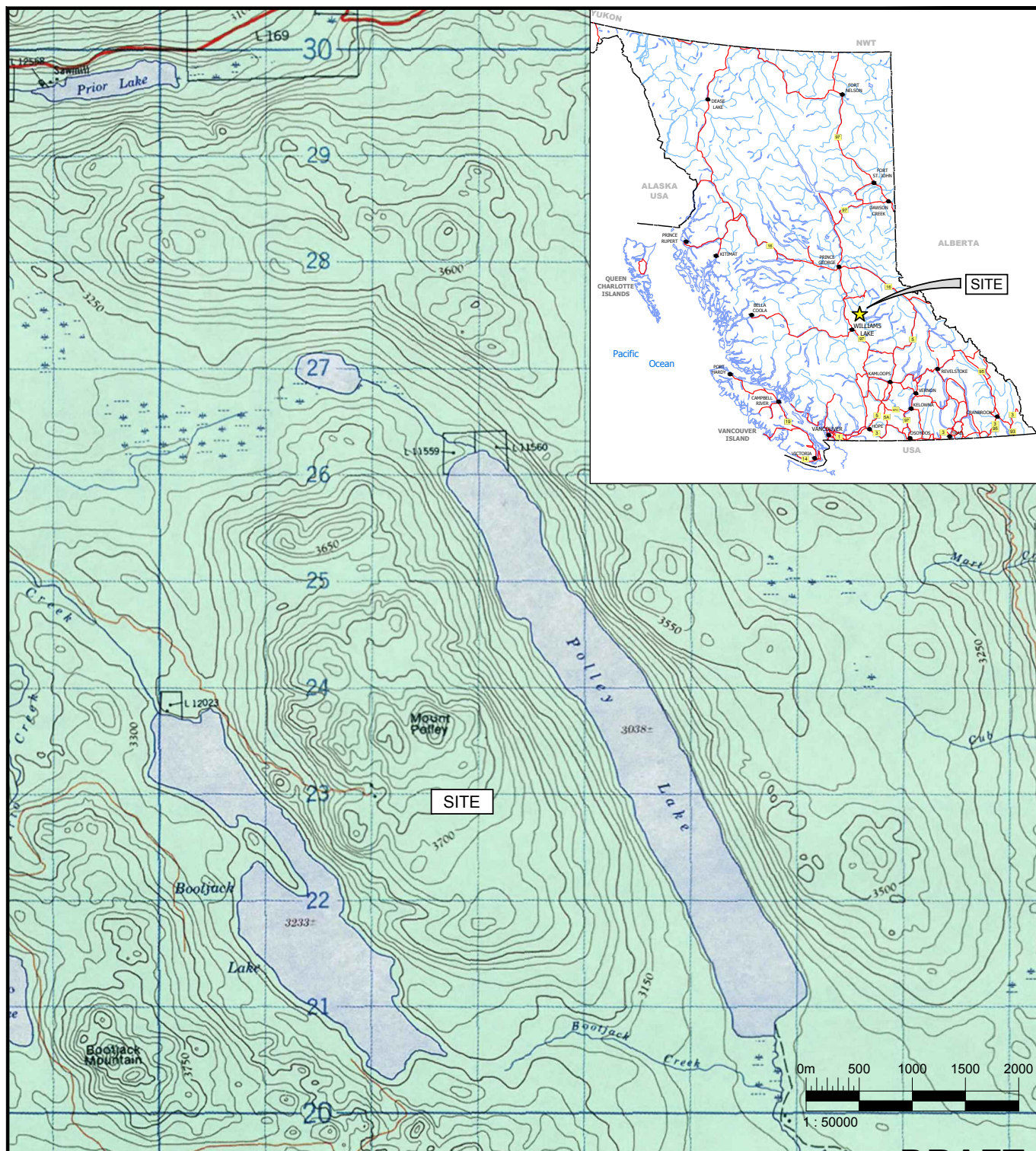
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Senior Associate Hydrogeologist

FIGURES



BASE IMAGE: Natural Resources Canada (NRCAN), National Topographic Series (NTS), Mapsheet 93A12, 1976

DRAFT

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CLIENT LOGO:

CLIENT:

IMPERIAL METALS

PROJECT:

**MT. POLLEY
CONCEPTUAL HYDROGEOLOGY**

DWN BY:

TH

DATUM:

NAD 83

DATE:

MARCH 2013

CHK'D BY:

DE

REV. NO:

A

PROJECT NO:

VM00560

TITLE:

SITE LOCATION PLAN

PROJECTION:

UTM Zone 10

SCALE:

AS SHOWN

FIGURE NO:

1

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APPENDIX A
Borehole Logs

CLIENT: Mount Polley Mining Corporation		PROJECT: Mt. Polley Hydrogeological Assessment		BOREHOLE NO: GW12-1A	
DRILLER: Geotech Drilling		Mount Polley B.C.		PROJECT NO: VM00560B	
DRILL TYPE/METHOD: Fraste DR238/Air Rotary (ODEX) 6"		NORTHING: 5824612.572 EASTING: 590420.673		ELEVATION: 991.6 m	
SAMPLE TYPE	<input checked="" type="checkbox"/> TUBE	<input type="checkbox"/> NO RECOVERY	<input type="checkbox"/> SPLIT SPOON	<input type="checkbox"/> GRAB	<input type="checkbox"/> MUD RETURN
BACKFILL TYPE	<input checked="" type="checkbox"/> BENTONITE	<input type="checkbox"/> PEA GRAVEL	<input type="checkbox"/> SLOUGH	<input type="checkbox"/> GROUT	<input type="checkbox"/> DRILL CUTTINGS
<input type="checkbox"/> CORE RETURN					
<input type="checkbox"/> SAND					

DEPTH (m)	SOIL SYMBOL	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	RECOVERY (%)	ADDITIONAL INFORMATION	WELL INSTALLATION DETAILS	ELEVATION (m)
0		SILT - Clayey, some sand and gravel, high plasticity, brown, moist.						991
1				1				990
2		SAND (fine) - Some silt, trace gravel, poorly graded, brown, dry.		2				989
3		SAND and GRAVEL (fine to coarse)(subrounded to angular)		3				988
4		- Trace silt, well graded, light brown (sand), dark grey (gravel), dry.		4				987
5		BEDROCK - weathered, fine grained mass, mixture of pink and light green in color, dry.		5				986
6				6				985
7				7				984
8				8				983
9				9				982
10				10				981
11				11				980
12				12				979
13				13				978
14				14				977
15		Wet		15				976
16		Possible fracture zone from 14.3 - 14.9 m.		16				975
17				17				974
18				18				973
19				19				972
20				20				971
21				21				970
22		Possible fracture zone from 21.3 - 24.3 m.		22				969
23				23				968
24				24				967
25				25				966
26				26				965
27				27				964
28				28				963
29				29				962
30				30				962

Measured depth to groundwater 5.89 mbg (11/30/2012)

Producing ~12 GPM.




AMEC Environment & Infrastructure
Suite 600, 4445 Lougheed Hwy
Burnaby, BC V5C 0E4
Tel: (604) 294-3811

LOGGED BY: TK
ENTERED BY: GN

COMPLETION DEPTH: 100.6 m
COMPLETION DATE: 20-11-12

CLIENT: Mount Polley Mining Corporation		PROJECT: Mt. Polley Hydrogeological Assessment		BOREHOLE NO: GW12-1A	
DRILLER: Geotech Drilling		Mount Polley B.C.		PROJECT NO: VM00560B	
DRILL TYPE/METHOD: Fraste DR238/Air Rotary (ODEX) 6"		NORTHING: 5824612.572 EASTING: 590420.673		ELEVATION: 991.6 m	
SAMPLE TYPE <input checked="" type="checkbox"/> TUBE <input type="checkbox"/> NO RECOVERY <input type="checkbox"/> SPLIT SPOON <input checked="" type="checkbox"/> GRAB <input type="checkbox"/> MUD RETURN <input type="checkbox"/> CORE RETURN					
BACKFILL TYPE <input checked="" type="checkbox"/> BENTONITE <input type="checkbox"/> PEA GRAVEL <input type="checkbox"/> SLOUGH <input type="checkbox"/> GROUT <input type="checkbox"/> DRILL CUTTINGS <input type="checkbox"/> SAND					

DEPTH (m)	SOIL SYMBOL	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	RECOVERY (%)	ADDITIONAL INFORMATION	WELL INSTALLATION DETAILS	ELEVATION (m)
30		BEDROCK - (Igneous - granitic type bedrock) mixture of brownish red and light green in color, wet. 30.1m		20				961
31				21				960
32				22				959
33				23				958
34				24				957
35				25				956
36				26				955
37				27				954
38				28				953
39				29				952
40				30				951
41				31				950
42				32				949
43				33				948
44				34				947
45				35				946
46				36				945
47				37				944
48				38				943
49				39				942
50								941
51								940
52		Trace Sulphides						939
53								938
54								937
55								936
56								935
57		Possible fracture zone from 57.0 to 59.4 m.						934
58								933
59								932
60								932

	AMEC Environment & Infrastructure Suite 600, 4445 Lougheed Hwy Burnaby, BC V5C 0E4 Tel: (604) 294-3811	LOGGED BY: TK	COMPLETION DEPTH: 100.6 m
		ENTERED BY: GN	COMPLETION DATE: 20-11-12
	Page 2 of 4		

AMEC B0Y VM00560B - HYDRO LOGS.GPJ AMEC-PG-MULTIWELL-DATATEMPLATE.GDT 15-3-13

CLIENT: Mount Polley Mining Corporation		PROJECT: Mt. Polley Hydrogeological Assessment		BOREHOLE NO: GW12-1A					
DRILLER: Geotech Drilling		Mount Polley B.C.		PROJECT NO: VM00560B					
DRILL TYPE/METHOD: Fraste DR238/Air Rotary (ODEX) 6"		NORTHING: 5824612.572 EASTING: 590420.673		ELEVATION: 991.6 m					
SAMPLE TYPE <input checked="" type="checkbox"/> TUBE <input type="checkbox"/> NO RECOVERY <input type="checkbox"/> SPLIT SPOON <input type="checkbox"/> GRAB <input type="checkbox"/> MUD RETURN <input type="checkbox"/> CORE RETURN									
BACKFILL TYPE <input checked="" type="checkbox"/> BENTONITE <input type="checkbox"/> PEA GRAVEL <input type="checkbox"/> SLOUGH <input type="checkbox"/> GROUT <input type="checkbox"/> DRILL CUTTINGS <input type="checkbox"/> SAND									
DEPTH (m)	SOIL SYMBOL	SOIL DESCRIPTION		SAMPLE TYPE	SAMPLE NO	RECOVERY (%)	ADDITIONAL INFORMATION	WELL INSTALLATION DETAILS	ELEVATION (m)
60		BEDROCK - (Igneous - granitic type bedrock) mixture of brownish red and light green in color, wet. <i>(continued)</i>			40				931
61					41				930
62		Possible fracture zone from 64.0 to 65.5 m.			42				929
63					43				928
64					44				927
65					45				926
66					46				925
67					47				924
68					48				923
69					49				922
70					50				921
71					51				920
72					52				919
73					53				918
74					54				917
75					55				916
76					56				915
77					57				914
78					58				913
79									912
80									911
81									910
82									909
83									908
84									907
85									906
86									905
87									904
88									903
89									902
90									

	AMEC Environment & Infrastructure Suite 600, 4445 Lougheed Hwy Burnaby, BC V5C 0E4 Tel: (604) 294-3811	LOGGED BY: TK	COMPLETION DEPTH: 100.6 m
		ENTERED BY: GN	COMPLETION DATE: 20-11-12
		Page 3 of 4	

AMEC B01 VM00560B - HYDRO LOGS.GPJ AMEC-PG-MULTIWELL-DATATEMPLATE.GDT 15-3-13

CLIENT: Mount Polley Mining Corporation		PROJECT: Mt. Polley Hydrogeological Assessment		BOREHOLE NO: GW12-1A	
DRILLER: Geotech Drilling		Mount Polley B.C.		PROJECT NO: VM00560B	
DRILL TYPE/METHOD: Fraste DR238/Air Rotary (ODEX) 6"		NORTHING: 5824612.572 EASTING: 590420.673		ELEVATION: 991.6 m	
SAMPLE TYPE <input checked="" type="checkbox"/> TUBE <input type="checkbox"/> NO RECOVERY <input type="checkbox"/> SPLIT SPOON <input type="checkbox"/> GRAB <input type="checkbox"/> MUD RETURN <input type="checkbox"/> CORE RETURN					
BACKFILL TYPE <input checked="" type="checkbox"/> BENTONITE <input type="checkbox"/> PEA GRAVEL <input type="checkbox"/> SLOUGH <input type="checkbox"/> GROUT <input type="checkbox"/> DRILL CUTTINGS <input type="checkbox"/> SAND					

DEPTH (m)	SOIL SYMBOL	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	RECOVERY (%)	ADDITIONAL INFORMATION	WELL INSTALLATION DETAILS	ELEVATION (m)
90		BEDROCK - (Igneous - granitic type bedrock) mixture of brownish red and light green in color, wet. <i>(continued)</i>		59				901
91			60		900			
92			61		899			
93			62		898			
94			63		897			
95			64		896			
96			65		895			
97			66		894			
98					893			
99					892			
100					891			
101		End of hole at 100.6 m depth.				Producing ~80-100 GPM.		890
102								889
103								888
104								887
105								886
106								885
107								884
108								883
109								882
110								881
111								880
112								879
113								878
114								877
115								876
116								875
117								874
118								873
119								872
120								871

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		ENTERED BY: GN	COMPLETION DATE: 20-11-12
	Page 4 of 4		

AMEC B01 VM00560B - HYDRO LOGS.GPJ AMEC-PG-MULTIWELL-DATATEMPLATE.GDT 15-3-13

CLIENT: Mount Polley Mining Corporation		PROJECT: Mt. Polley Hydrogeological Assessment		BOREHOLE NO: GW12-1B	
DRILLER: Geotech Drilling		Mount Polley B.C.		PROJECT NO: VM00560B	
DRILL TYPE/METHOD: Fraste DR238/Air Rotary (ODEX) 6"		NORTHING: 5824617.366 EASTING: 590420.534		ELEVATION: 991.4 m	
SAMPLE TYPE	<input checked="" type="checkbox"/> TUBE	<input type="checkbox"/> NO RECOVERY	<input type="checkbox"/> SPLIT SPOON	<input type="checkbox"/> GRAB	<input type="checkbox"/> MUD RETURN
BACKFILL TYPE	<input checked="" type="checkbox"/> BENTONITE	<input type="checkbox"/> PEA GRAVEL	<input type="checkbox"/> SLOUGH	<input type="checkbox"/> GROUT	<input type="checkbox"/> DRILL CUTTINGS
					<input type="checkbox"/> CORE RETURN
					<input type="checkbox"/> SAND

DEPTH (m)	SOIL SYMBOL	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	RECOVERY (%)	ADDITIONAL INFORMATION	WELL INSTALLATION DETAILS	ELEVATION (m)
0		SILT - Clayey, some sand and gravel, high plasticity, brown, moist.						991
1								990
2		SAND (fine) - Some silt, trace gravel, poorly graded, brown, dry.						989
3								988
4								987
5								986
6								985
7		BEDROCK - weathered, fine grained mass, mixture of brownish red and grey green in color, dry.						984
8								983
9								982
10								981
11								980
12								979
13		BEDROCK - Igneous (Granitic type bedrock) mixture of brownish red and light green in color, dry						978
14								977
15								976
16								975
17								974
18								973
19								972
20								971
21								970
22								969
23								968
24								967
25		End of hole at 24.4 m depth.						966
26								965
27								964
28								963
29								962
30								962

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COMPLETION DEPTH: 24.4 m

COMPLETION DATE: 22-11-12

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CLIENT: Mount Polley Mining Corporation		PROJECT: Mt. Polley Hydrogeological Assessment		BOREHOLE NO: GW12-2A	
DRILLER: Geotech Drilling		Mount Polley B.C.		PROJECT NO: VM00560B	
DRILL TYPE/METHOD: Fraste DR238/Air Rotary (ODEX) 6"		NORTHING: 5823179.943 EASTING: 591154.532		ELEVATION: 1035.4 m	
SAMPLE TYPE <input checked="" type="checkbox"/> TUBE <input type="checkbox"/> NO RECOVERY <input type="checkbox"/> SPLIT SPOON <input type="checkbox"/> GRAB <input type="checkbox"/> MUD RETURN <input type="checkbox"/> CORE RETURN					
BACKFILL TYPE <input checked="" type="checkbox"/> BENTONITE <input type="checkbox"/> PEA GRAVEL <input type="checkbox"/> SLOUGH <input type="checkbox"/> GROUT <input type="checkbox"/> DRILL CUTTINGS <input type="checkbox"/> SAND					

DEPTH (m)	SOIL SYMBOL	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	RECOVERY (%)	ADDITIONAL INFORMATION	WELL INSTALLATION DETAILS	ELEVATION (m)
0		SILT and CLAY - Some sand and gravel, high plasticity, brown, moist						1035
1								1034
2								1033
3								1032
4								1031
5								1030
6		BEDROCK - weathered, fine grained mass, light green in color, dry. 6.1m		2				1029
7		BEDROCK - Igneous (Granitic type bedrock), mixture of greyish purple and olive grey in color, dry. 7.6m						1028
8				3				1027
9								1026
10								1025
11								1024
12				4				1023
13								1022
14								1021
15				5				1020
16								1019
17								1018
18				6				1017
19								1016
20								1015
21				7		Measured depth to groundwater 21.33 mbg (11/30/12)		1014
22								1013
23								1012
24				8				1011
25								1010
26						Producing ~ 5-6 GPM.		1009
27				9				1008
28								1007
29								1006
30								1006

AMEC BBY VM00560B - HYDRO LOGS.GPJ AMEC-PG-MULTIWELL-DATATEMPLATE.GDT 15-3-13

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ENTERED BY: GN


COMPLETION DEPTH: 100.6 m
COMPLETION DATE: 24-11-12

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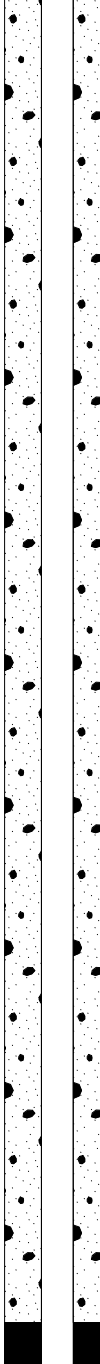
AMEC BBY VM00560B - HYDRO LOGS.GPJ AMEC-PG-MULTIWELL-DATATEMPLATE.GDT 15-3-13


CLIENT: Mount Polley Mining Corporation		PROJECT: Mt. Polley Hydrogeological Assessment		BOREHOLE NO: GW12-2A	
DRILLER: Geotech Drilling		Mount Polley B.C.		PROJECT NO: VM00560B	
DRILL TYPE/METHOD: Fraste DR238/Air Rotary (ODEX) 6"		NORTHING: 5823179.943 EASTING: 591154.532		ELEVATION: 1035.4 m	
SAMPLE TYPE <input checked="" type="checkbox"/> TUBE <input type="checkbox"/> NO RECOVERY <input type="checkbox"/> SPLIT SPOON <input type="checkbox"/> GRAB <input type="checkbox"/> MUD RETURN <input type="checkbox"/> CORE RETURN					
BACKFILL TYPE <input checked="" type="checkbox"/> BENTONITE <input type="checkbox"/> PEA GRAVEL <input type="checkbox"/> SLOUGH <input type="checkbox"/> GROUT <input type="checkbox"/> DRILL CUTTINGS <input type="checkbox"/> SAND					

DEPTH (m)	SOIL SYMBOL	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	RECOVERY (%)	ADDITIONAL INFORMATION	WELL INSTALLATION DETAILS	ELEVATION (m)
30								1005
31		BEDROCK - Igneous (Granitic type bedrock), mixture of brownish red and grey green in color, wet		10				1004
32								1003
33								1002
34		Possible fracture zone from 33.5 - 36.5 m.		11				1001
35								1000
36								999
37				12				998
38								997
39								996
40				13				995
41								994
42								993
43		Possible fracture zone from 42.7 - 44.2 m.		14				992
44								991
45								990
46				15				989
47								988
48								987
49				16				986
50								985
51								984
52				17				983
53								982
54								981
55				18				980
56								979
57								978
58				19				977
59								976
60								

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		ENTERED BY: GN	COMPLETION DATE: 24-11-12
		Page 2 of 4	

AMEC B01 VM00560B - HYDRO LOGS.GPJ AMEC-PG-MULTIWELL-DATATEMPLATE.GDT 15-3-13

CLIENT: Mount Polley Mining Corporation		PROJECT: Mt. Polley Hydrogeological Assessment		BOREHOLE NO: GW12-2A				
DRILLER: Geotech Drilling		Mount Polley B.C.		PROJECT NO: VM00560B				
DRILL TYPE/METHOD: Fraste DR238/Air Rotary (ODEX) 6"		NORTHING: 5823179.943 EASTING: 591154.532		ELEVATION: 1035.4 m				
SAMPLE TYPE <input checked="" type="checkbox"/> TUBE <input type="checkbox"/> NO RECOVERY <input type="checkbox"/> SPLIT SPOON <input type="checkbox"/> GRAB <input type="checkbox"/> MUD RETURN <input type="checkbox"/> CORE RETURN								
BACKFILL TYPE <input checked="" type="checkbox"/> BENTONITE <input type="checkbox"/> PEA GRAVEL <input type="checkbox"/> SLOUGH <input type="checkbox"/> GROUT <input type="checkbox"/> DRILL CUTTINGS <input type="checkbox"/> SAND								
DEPTH (m)	SOIL SYMBOL	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	RECOVERY (%)	ADDITIONAL INFORMATION	WELL INSTALLATION DETAILS	ELEVATION (m)
60		BEDROCK - Igneous (Granitic type bedrock), mixture of brownish red and grey green in color, wet (<i>continued</i>)		20		Producing ~40-50 GPM.		975
61								974
62								973
63								972
64								971
65								970
66								969
67								968
68								967
69								966
70				965				
71				964				
72				963				
73				962				
74				961				
75				960				
76				959				
77				958				
78				957				
79				956				
80				955				
81				954				
82				953				
83				952				
84				951				
85				950				
86				949				
87				948				
88				947				
89				946				
90								

	AMEC Environment & Infrastructure Suite 600, 4445 Lougheed Hwy Burnaby, BC V5C 0E4 Tel: (604) 294-3811	LOGGED BY: TK	COMPLETION DEPTH: 100.6 m
		ENTERED BY: GN	COMPLETION DATE: 24-11-12
		Page 3 of 4	

AMEC B01 VM00560B - HYDRO LOGS.GPJ AMEC-PG-MULTIWELL-DATATEMPLATE.GDT 15-3-13


CLIENT: Mount Polley Mining Corporation		PROJECT: Mt. Polley Hydrogeological Assessment		BOREHOLE NO: GW12-2A		
DRILLER: Geotech Drilling		Mount Polley B.C.		PROJECT NO: VM00560B		
DRILL TYPE/METHOD: Fraste DR238/Air Rotary (ODEX) 6"		NORTHING: 5823179.943 EASTING: 591154.532		ELEVATION: 1035.4 m		
SAMPLE TYPE	<input checked="" type="checkbox"/> TUBE	<input type="checkbox"/> NO RECOVERY	<input type="checkbox"/> SPLIT SPOON	<input type="checkbox"/> GRAB	<input type="checkbox"/> MUD RETURN	<input type="checkbox"/> CORE RETURN
BACKFILL TYPE	<input checked="" type="checkbox"/> BENTONITE	<input type="checkbox"/> PEA GRAVEL	<input type="checkbox"/> SLOUGH	<input type="checkbox"/> GROUT	<input type="checkbox"/> DRILL CUTTINGS	<input type="checkbox"/> SAND

DEPTH (m)	SOIL SYMBOL	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	RECOVERY (%)	ADDITIONAL INFORMATION	WELL INSTALLATION DETAILS	ELEVATION (m)		
90		BEDROCK - Igneous (Granitic type bedrock), mixture of brownish red and grey green in color, wet (<i>continued</i>)						945		
91									944	
92										943
93										942
94										941
95										940
96										939
97										938
98										937
99										936
100										935
101		Possible fracture zone from 94.5 - 97.5 m.				Producing ~60 GPM.		934		
102									933	
103									932	
104									931	
105									930	
106									929	
107									928	
108									927	
109									926	
110									925	
111									924	
112		End of hole at 102.1 m depth.				Producing >100 GPM.		923		
113									922	
114									921	
115									920	
116									919	
117									918	
118									917	
119									916	
120										

	AMEC Environment & Infrastructure Suite 600, 4445 Lougheed Hwy Burnaby, BC V5C 0E4 Tel: (604) 294-3811	LOGGED BY: TK	COMPLETION DEPTH: 100.6 m
		ENTERED BY: GN	COMPLETION DATE: 24-11-12
		Page 4 of 4	

CLIENT: Mount Polley Mining Corporation		PROJECT: Mt. Polley Hydrogeological Assessment		BOREHOLE NO: GW12-2B		
DRILLER: Geotech Drilling		Mount Polley B.C.		PROJECT NO: VM00560B		
DRILL TYPE/METHOD: Fraste DR238/Air Rotary (ODEX) 6"		NORTHING: 5823176.641 EASTING: 591153.566		ELEVATION: 1035.4 m		
SAMPLE TYPE	<input checked="" type="checkbox"/> TUBE	<input type="checkbox"/> NO RECOVERY	<input type="checkbox"/> SPLIT SPOON	<input type="checkbox"/> GRAB	<input type="checkbox"/> MUD RETURN	<input type="checkbox"/> CORE RETURN
BACKFILL TYPE	<input checked="" type="checkbox"/> BENTONITE	<input type="checkbox"/> PEA GRAVEL	<input type="checkbox"/> SLOUGH	<input type="checkbox"/> GROUT	<input type="checkbox"/> DRILL CUTTINGS	<input type="checkbox"/> SAND

DEPTH (m)	SOIL SYMBOL	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	RECOVERY (%)	ADDITIONAL INFORMATION	WELL INSTALLATION DETAILS	ELEVATION (m)	
0		SILT and CLAY - some sand and gravel , high plasticity, brown, moist.						1035	
1								1034	
2								1033	
3					1			1032	
4								1031	
5								1030	
6					2			1029	
7								1028	
8		BEDROCK - Igneous (granitic type bedrock), mixture of greenish grey and brownish red in color, dry.						1027	
9					3			1026	
10								1025	
11								1024	
12					4			1023	
13								1022	
14								1021	
15					5			1020	
16								1019	
17								1018	
18				6				1017	
19								1016	
20								1015	
21				7		Measured depth to groundwater 21.12 mbg (11/30/12)		1014	
22								1013	
23								1012	
24				8				1011	
25								1010	
26								1009	
27		Wet		9		Producing ~ 6 GPM.		1008	
28									1007
29									1006
30									

	AMEC Environment & Infrastructure Suite 600, 4445 Lougheed Hwy Burnaby, BC V5C 0E4 Tel: (604) 294-3811	LOGGED BY: TK	COMPLETION DEPTH: 30.2 m
		ENTERED BY: GN	COMPLETION DATE: 25-11-12
		Page 1 of 2	

AMEC B01 VM00560B - HYDRO LOGS.GPJ AMEC-PG-MULTIWELL-DATATEMPLATE.GDT 15-3-13

CLIENT: Mount Polley Mining Corporation		PROJECT: Mt. Polley Hydrogeological Assessment		BOREHOLE NO: GW12-2B	
DRILLER: Geotech Drilling		Mount Polley B.C.		PROJECT NO: VM00560B	
DRILL TYPE/METHOD: Fraste DR238/Air Rotary (ODEX) 6"		NORTHING: 5823176.641 EASTING: 591153.566		ELEVATION: 1035.4 m	
SAMPLE TYPE <input checked="" type="checkbox"/> TUBE <input type="checkbox"/> NO RECOVERY <input type="checkbox"/> SPLIT SPOON <input type="checkbox"/> GRAB <input type="checkbox"/> MUD RETURN <input type="checkbox"/> CORE RETURN					
BACKFILL TYPE <input checked="" type="checkbox"/> BENTONITE <input type="checkbox"/> PEA GRAVEL <input type="checkbox"/> SLOUGH <input type="checkbox"/> GROUT <input type="checkbox"/> DRILL CUTTINGS <input type="checkbox"/> SAND					


DEPTH (m)	SOIL SYMBOL	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	RECOVERY (%)	ADDITIONAL INFORMATION	WELL INSTALLATION DETAILS	ELEVATION (m)
30		30.5m		10		Producing ~ 12 GPM.		1005
31		End of hole at 30.5 m depth.						1004
32								1003
33								1002
34								1001
35								1000
36								999
37								998
38								997
39								996
40								995
41								994
42								993
43								992
44								991
45								990
46								989
47								988
48								987
49								986
50								985
51								984
52								983
53								982
54								981
55								980
56								979
57								978
58								977
59								976
60								

	AMEC Environment & Infrastructure Suite 600, 4445 Lougheed Hwy Burnaby, BC V5C 0E4 Tel: (604) 294-3811	LOGGED BY: TK	COMPLETION DEPTH: 30.2 m
		ENTERED BY: GN	COMPLETION DATE: 25-11-12
			Page 2 of 2

AMEC B01 VM00560B - HYDRO LOGS.GPJ AMEC-PG-MULTIWELL-DATATEMPLATE.GDT 15-3-13

CLIENT: Mount Polley Mining Corporation		PROJECT: Mt. Polley Hydrogeological Assessment		BOREHOLE NO: GW12-3A	
DRILLER: Geotech Drilling		Mount Polley B.C.		PROJECT NO: VM00560B	
DRILL TYPE/METHOD: Fraste DR238/Air Rotary (ODEX) 6"		NORTHING: 5822101.875 EASTING: 592147.584		ELEVATION: 1039.1 m	
SAMPLE TYPE	<input checked="" type="checkbox"/> TUBE	<input type="checkbox"/> NO RECOVERY	<input type="checkbox"/> SPLIT SPOON	<input type="checkbox"/> GRAB	<input type="checkbox"/> MUD RETURN
BACKFILL TYPE	<input checked="" type="checkbox"/> BENTONITE	<input type="checkbox"/> PEA GRAVEL	<input type="checkbox"/> SLOUGH	<input type="checkbox"/> GROUT	<input type="checkbox"/> DRILL CUTTINGS
					<input type="checkbox"/> CORE RETURN
					<input type="checkbox"/> SAND

DEPTH (m)	SOIL SYMBOL	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	RECOVERY (%)	ADDITIONAL INFORMATION	WELL INSTALLATION DETAILS	ELEVATION (m)
0		MINE FILL - Sand and gravel, coarse, angular, moderately graded, olive grey, dry.						1038
1								1037
2								1036
3		SAND and GRAVEL - fine to coarse grained, subrounded to subangular, some silt, trace organics, well graded, dark brown, moist.		1		Measured depth to groundwater 3.88 mbg (11/30/12)		1035
4								1034
5								1033
6		Wet		2				1032
7		BEDROCK, weathered - fine to coarse, subrounded to angular, well graded, low plasticity, grey and brown in color, wet.						1031
8								1030
9		BEDROCK - Igneous (granitic type bedrock), mixture of greenish grey and brownish red in color, wet.		3				1029
10								1028
11								1027
12				4				1026
13								1025
14								1024
15				5				1023
16		Major fracture zone from 15.2 - 16.7 m.						1022
17								1021
18				6				1020
19								1019
20								1018
21				7				1017
22								1016
23								1015
24				8				1014
25								1013
26								1012
27				9		Producing ~ 20 GPM, soft water.		1011
28								1010
29								
30								

	AMEC Environment & Infrastructure Suite 600, 4445 Lougheed Hwy Burnaby, BC V5C 0E4 Tel: (604) 294-3811	LOGGED BY: TK	COMPLETION DEPTH: 100.6 m
		ENTERED BY: GN	COMPLETION DATE: 28-11-12
		Page 1 of 4	


AMEC B01 VM00560B - HYDRO LOGS.GPJ AMEC-PG-MULTIWELL-DATATEMPLATE.GDT 15-3-13

CLIENT: Mount Polley Mining Corporation		PROJECT: Mt. Polley Hydrogeological Assessment		BOREHOLE NO: GW12-3A					
DRILLER: Geotech Drilling		Mount Polley B.C.		PROJECT NO: VM00560B					
DRILL TYPE/METHOD: Fraste DR238/Air Rotary (ODEX) 6"		NORTHING: 5822101.875 EASTING: 592147.584		ELEVATION: 1039.1 m					
SAMPLE TYPE <input checked="" type="checkbox"/> TUBE <input type="checkbox"/> NO RECOVERY <input type="checkbox"/> SPLIT SPOON <input type="checkbox"/> GRAB <input type="checkbox"/> MUD RETURN <input type="checkbox"/> CORE RETURN									
BACKFILL TYPE <input checked="" type="checkbox"/> BENTONITE <input type="checkbox"/> PEA GRAVEL <input type="checkbox"/> SLOUGH <input type="checkbox"/> GROUT <input type="checkbox"/> DRILL CUTTINGS <input type="checkbox"/> SAND									
DEPTH (m)	SOIL SYMBOL	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	RECOVERY (%)	ADDITIONAL INFORMATION	WELL INSTALLATION DETAILS	ELEVATION (m)	
30		BEDROCK - Igneous (granitic type bedrock), mixture of greenish grey and brownish red in color, wet. (continued)		10		Producing ~ 20 GPM, hard water.		1008	
31								1007	
32								1006	
33								1005	
34								1004	
35								1003	
36								1002	
37								1001	
38								1000	
39								999	
40								998	
41								997	
42								996	
43								995	
44								994	
45								993	
46								992	
47								991	
48								990	
49								989	
50								988	
51								987	
52								986	
53								985	
54								984	
55								983	
56								982	
57								981	
58								980	
59									
60									
 AMEC Environment & Infrastructure Suite 600, 4445 Lougheed Hwy Burnaby, BC V5C 0E4 Tel: (604) 294-3811		LOGGED BY: TK		COMPLETION DEPTH: 100.6 m					
		ENTERED BY: GN		COMPLETION DATE: 28-11-12					
		Page 2 of 4							

AMEC B01 VM00560B - HYDRO LOGS.GPJ AMEC-PG-MULTIWELL-DATATEMPLATE.GDT 15-3-13


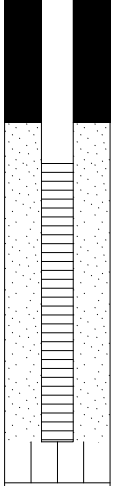
CLIENT: Mount Polley Mining Corporation		PROJECT: Mt. Polley Hydrogeological Assessment		BOREHOLE NO: GW12-3A	
DRILLER: Geotech Drilling		Mount Polley B.C.		PROJECT NO: VM00560B	
DRILL TYPE/METHOD: Fraste DR238/Air Rotary (ODEX) 6"		NORTHING: 5822101.875 EASTING: 592147.584		ELEVATION: 1039.1 m	
SAMPLE TYPE <input checked="" type="checkbox"/> TUBE		<input type="checkbox"/> NO RECOVERY		<input type="checkbox"/> SPLIT SPOON	
<input type="checkbox"/> GRAB		<input type="checkbox"/> MUD RETURN		<input type="checkbox"/> CORE RETURN	
BACKFILL TYPE <input checked="" type="checkbox"/> BENTONITE		<input type="checkbox"/> PEA GRAVEL		<input type="checkbox"/> SLOUGH	
<input type="checkbox"/> GROUT		<input type="checkbox"/> DRILL CUTTINGS		<input type="checkbox"/> SAND	


DEPTH (m)	SOIL SYMBOL	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	RECOVERY (%)	ADDITIONAL INFORMATION	WELL INSTALLATION DETAILS	ELEVATION (m)
60		BEDROCK - Igneous (granitic type bedrock), mixture of greenish grey and brownish red in color, wet. (continued)						978
61								977
62								976
63								975
64								974
65								973
66								972
67								971
68								970
69								969
70								968
71								967
72								966
73								965
74								964
75								963
76								962
77								961
78								960
79								959
80								958
81								957
82								956
83								955
84								954
85								953
86								952
87								951
88								950
89								
90								

	AMEC Environment & Infrastructure Suite 600, 4445 Lougheed Hwy Burnaby, BC V5C 0E4 Tel: (604) 294-3811	LOGGED BY: TK	COMPLETION DEPTH: 100.6 m
		ENTERED BY: GN	COMPLETION DATE: 28-11-12
		Page 3 of 4	

AMEC B01 VM00560B - HYDRO LOGS.GPJ AMEC-PG-MULTIWELL-DATATEMPLATE.GDT 15-3-13

CLIENT: Mount Polley Mining Corporation		PROJECT: Mt. Polley Hydrogeological Assessment		BOREHOLE NO: GW12-3A	
DRILLER: Geotech Drilling		Mount Polley B.C.		PROJECT NO: VM00560B	
DRILL TYPE/METHOD: Fraste DR238/Air Rotary (ODEX) 6"		NORTHING: 5822101.875 EASTING: 592147.584		ELEVATION: 1039.1 m	
SAMPLE TYPE	<input checked="" type="checkbox"/> TUBE	<input type="checkbox"/> NO RECOVERY	<input checked="" type="checkbox"/> SPLIT SPOON	<input checked="" type="checkbox"/> GRAB	<input type="checkbox"/> MUD RETURN
BACKFILL TYPE	<input checked="" type="checkbox"/> BENTONITE	<input type="checkbox"/> PEA GRAVEL	<input type="checkbox"/> SLOUGH	<input type="checkbox"/> GROUT	<input type="checkbox"/> DRILL CUTTINGS
					<input type="checkbox"/> CORE RETURN
					<input type="checkbox"/> SAND

DEPTH (m)	SOIL SYMBOL	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	RECOVERY (%)	ADDITIONAL INFORMATION	WELL INSTALLATION DETAILS	ELEVATION (m)
90		BEDROCK - Igneous (granitic type bedrock), mixture of greenish grey and brownish red in color, wet. <i>(continued)</i>						948
91								948
92								947
93								946
94								945
95								944
96								943
97								942
98								941
99								940
100								939
101		End of hole at 100.6 m depth.				Producing ~ 20 GPM.		938
102	937							
103	936							
104	935							
105	934							
106	933							
107	932							
108	931							
109	930							
110	929							
111	928							
112	927							
113	926							
114	925							
115	924							
116	923							
117	922							
118	921							
119	920							
120								

	AMEC Environment & Infrastructure Suite 600, 4445 Lougheed Hwy Burnaby, BC V5C 0E4 Tel: (604) 294-3811	LOGGED BY: TK	COMPLETION DEPTH: 100.6 m
		ENTERED BY: GN	COMPLETION DATE: 28-11-12
		Page 4 of 4	

AMEC B01 VM00560B - HYDRO LOGS.GPJ AMEC-PG-MULTIWELL-DATATEMPLATE.GDT 15-3-13


CLIENT: Mount Polley Mining Corporation		PROJECT: Mt. Polley Hydrogeological Assessment		BOREHOLE NO: GW12-3B	
DRILLER: Geotech Drilling		Mount Polley B.C.		PROJECT NO: VM00560B	
DRILL TYPE/METHOD: Fraste DR238/Air Rotary (ODEX) 6"		NORTHING: 5822098.478 EASTING: 592147.958		ELEVATION: 1039.2 m	
SAMPLE TYPE	<input checked="" type="checkbox"/> TUBE	<input type="checkbox"/> NO RECOVERY	<input type="checkbox"/> SPLIT SPOON	<input type="checkbox"/> GRAB	<input type="checkbox"/> MUD RETURN
BACKFILL TYPE	<input checked="" type="checkbox"/> BENTONITE	<input type="checkbox"/> PEA GRAVEL	<input type="checkbox"/> SLOUGH	<input type="checkbox"/> GROUT	<input type="checkbox"/> DRILL CUTTINGS
					<input type="checkbox"/> CORE RETURN
					<input type="checkbox"/> SAND

DEPTH (m)	SOIL SYMBOL	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	RECOVERY (%)	ADDITIONAL INFORMATION	WELL INSTALLATION DETAILS	ELEVATION (m)
0		MINE FILL - SAND and GRAVEL - coarse, angular, some silt, moderately graded, olive grey, dry.				Measured depth to groundwater 3.13 mbg (11/30/12) 2.99 mbg (12/17/12)		1039
1								1038
2								1037
3								1036
4		SILT and CLAY - some sand and gravel, high plasticity, brown, trace organics, moist.						1035
5								1034
6		CLAY - silty trace sand and gravel, high plasticity, brown, moist.						1033
7								1032
8		BEDROCK - weathered, fine grain mass, mixture of greenish grey and brownish red in color, dry.						1031
9								1030
10								1029
11		BEDROCK - Igneous (granitic type bedrock) mixture of greenish grey and brownish red in color, dry.						1028
12								1027
13		Wet Major fracture zone from 12.2 - 13.7 m.						1026
14								1025
15								1024
16		Major fracture zone from 15.2 - 16.1 m.						1023
17		End of hole at 16.1 m depth.				Producing ~12 GPM.		1022
18								1021
19								1020
20								1019
21								1018
22								1017
23								1016
24								1015
25								1014
26								1013
27								1012
28								1011
29								1010
30								

	AMEC Environment & Infrastructure Suite 600, 4445 Lougheed Hwy Burnaby, BC V5C 0E4 Tel: (604) 294-3811	LOGGED BY: TK	COMPLETION DEPTH: 16.1 m
		ENTERED BY: GN	COMPLETION DATE: 27-11-12
		Page 1 of 1	

CLIENT: Mount Polley Mining Corporation		PROJECT: Mt. Polley Hydrogeological Assessment		BOREHOLE NO: GW12-4A	
DRILLER: Geotech Drilling		Mount Polley B.C.		PROJECT NO: VM00560B	
DRILL TYPE/METHOD: Fraste DR238/Air Rotary (ODEX) 6"		NORTHING: 5822894.269 EASTING: 594117.413		ELEVATION: 989.9 m	
SAMPLE TYPE	<input checked="" type="checkbox"/> TUBE	<input type="checkbox"/> NO RECOVERY	<input type="checkbox"/> SPLIT SPOON	<input type="checkbox"/> GRAB	<input type="checkbox"/> MUD RETURN
BACKFILL TYPE	<input checked="" type="checkbox"/> BENTONITE	<input type="checkbox"/> PEA GRAVEL	<input type="checkbox"/> SLOUGH	<input type="checkbox"/> GROUT	<input type="checkbox"/> DRILL CUTTINGS
					<input type="checkbox"/> CORE RETURN
					<input type="checkbox"/> SAND

DEPTH (m)	SOIL SYMBOL	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	RECOVERY (%)	ADDITIONAL INFORMATION	WELL INSTALLATION DETAILS	ELEVATION (m)
0		SAND - silty, trace Gravel, trace organics, occasional cobbles, moist						989
1								988
2		GRAVEL - Igneous (granitic type rock), coarse, some cobbles, subhedral light green (mafic) phenocrysts, grey matrix, porphyritic, dry		1				987
3								986
4		SAND - fine to medium grained, some silt, some gravel, brown/red, moist						985
5								984
6		GRAVEL - Igneous (granitic type rock), coarse, some cobbles, subhedral light green (mafic) phenocrysts, grey matrix, porphyritic, dry		2				983
7								982
8		BEDROCK - Igneous (granitic type bedrock) porphyritic, subhedral light green (mafic) phenocrysts, grey matrix, calcite filled fractures from 18.28 to 24.38, dry		3				981
9								980
10								979
11								978
12				4				977
13								976
14								975
15				5				974
16								973
17								972
18				6				971
19		Major fracture zone from 18.28 - 24.38 m.						970
20								969
21				7				968
22						Measured depth to groundwater 21.95 mbg (12/15/12)		967
23								966
24				8				965
25		BEDROCK - Igneous (granitic type bedrock), fine grained, aphanitic, brown/yellow, dry (Intrusion)						964
26								963
27				9				962
28		BEDROCK - Igneous (granitic type bedrock) porphyritic, subhedral light green (mafic) phenocrysts, grey matrix, green content increases with depth, wet at 27.43 m						961
29								
30								

	AMEC Environment & Infrastructure Suite 600, 4445 Lougheed Hwy Burnaby, BC V5C 0E4 Tel: (604) 294-3811	LOGGED BY: DK	COMPLETION DEPTH: 100.6 m
		ENTERED BY: GN	COMPLETION DATE: 7-12-12
		Page 1 of 4	

AMEC B01 VM00560B - HYDRO LOGS.GPJ AMEC-PG-MULTIWELL-DATATEMPLATE.GDT 15-3-13

CLIENT: Mount Polley Mining Corporation		PROJECT: Mt. Polley Hydrogeological Assessment		BOREHOLE NO: GW12-4A	
DRILLER: Geotech Drilling		Mount Polley B.C.		PROJECT NO: VM00560B	
DRILL TYPE/METHOD: Fraste DR238/Air Rotary (ODEX) 6"		NORTHING: 5822894.269 EASTING: 594117.413		ELEVATION: 989.9 m	
SAMPLE TYPE <input checked="" type="checkbox"/> TUBE <input type="checkbox"/> NO RECOVERY <input type="checkbox"/> SPLIT SPOON <input type="checkbox"/> GRAB <input type="checkbox"/> MUD RETURN <input type="checkbox"/> CORE RETURN					
BACKFILL TYPE <input checked="" type="checkbox"/> BENTONITE <input type="checkbox"/> PEA GRAVEL <input type="checkbox"/> SLOUGH <input type="checkbox"/> GROUT <input type="checkbox"/> DRILL CUTTINGS <input type="checkbox"/> SAND					

DEPTH (m)	SOIL SYMBOL	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	RECOVERY (%)	ADDITIONAL INFORMATION	WELL INSTALLATION DETAILS	ELEVATION (m)
30		BEDROCK - Igneous (granitic type bedrock) porphyritic, subhedral light green (mafic) phenocrysts, grey matrix, green content increases with depth, wet at 27.43 m (<i>continued</i>)		10		Producing ~ 5 GPM.		959
31								958
32								957
33								956
34								955
35								954
36								953
37								952
38								951
39								950
40								949
41								948
42								947
43								946
44								945
45								944
46								943
47								942
48								941
49				940				
50				939				
51				938				
52				937				
53				936				
54				935				
55				934				
56				933				
57				932				
58				931				
59								
60								

	AMEC Environment & Infrastructure Suite 600, 4445 Lougheed Hwy Burnaby, BC V5C 0E4 Tel: (604) 294-3811	LOGGED BY: DK	COMPLETION DEPTH: 100.6 m
		ENTERED BY: GN	COMPLETION DATE: 7-12-12
		Page 2 of 4	

AMEC B01 VM00560B - HYDRO LOGS.GPJ AMEC-PG-MULTIWELL-DATATEMPLATE.GDT 15-3-13

CLIENT: Mount Polley Mining Corporation		PROJECT: Mt. Polley Hydrogeological Assessment		BOREHOLE NO: GW12-4A				
DRILLER: Geotech Drilling		Mount Polley B.C.		PROJECT NO: VM00560B				
DRILL TYPE/METHOD: Fraste DR238/Air Rotary (ODEX) 6"		NORTHING: 5822894.269 EASTING: 594117.413		ELEVATION: 989.9 m				
SAMPLE TYPE <input checked="" type="checkbox"/> TUBE <input type="checkbox"/> NO RECOVERY <input type="checkbox"/> SPLIT SPOON <input type="checkbox"/> GRAB <input type="checkbox"/> MUD RETURN <input type="checkbox"/> CORE RETURN								
BACKFILL TYPE <input checked="" type="checkbox"/> BENTONITE <input type="checkbox"/> PEA GRAVEL <input type="checkbox"/> SLOUGH <input type="checkbox"/> GROUT <input type="checkbox"/> DRILL CUTTINGS <input type="checkbox"/> SAND								
DEPTH (m)	SOIL SYMBOL	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	RECOVERY (%)	ADDITIONAL INFORMATION	WELL INSTALLATION DETAILS	ELEVATION (m)
60		BEDROCK - Igneous (granitic type bedrock) porphyritic, subhedral light green (mafic) phenocrysts, grey matrix, green content increases with depth, wet at 27.43 m (<i>continued</i>)		20		Producing ~ 18 GPM.		929
61								928
62								927
63								926
64								925
65								924
66								923
67								922
68								921
69								920
70				23				919
71								918
72								917
73				24				916
74								915
75								914
76				25				913
77								912
78								911
79				26				910
80								909
81								908
82				27				907
83								906
84								905
85				28				904
86								903
87								902
88				29				901
89								
90								

	AMEC Environment & Infrastructure Suite 600, 4445 Lougheed Hwy Burnaby, BC V5C 0E4 Tel: (604) 294-3811	LOGGED BY: DK	COMPLETION DEPTH: 100.6 m
		ENTERED BY: GN	COMPLETION DATE: 7-12-12
		Page 3 of 4	

AMEC B01 VM00560B - HYDRO LOGS.GPJ AMEC-PG-MULTIWELL-DATATEMPLATE.GDT 15-3-13


CLIENT: Mount Polley Mining Corporation		PROJECT: Mt. Polley Hydrogeological Assessment		BOREHOLE NO: GW12-4A	
DRILLER: Geotech Drilling		Mount Polley B.C.		PROJECT NO: VM00560B	
DRILL TYPE/METHOD: Fraste DR238/Air Rotary (ODEX) 6"		NORTHING: 5822894.269 EASTING: 594117.413		ELEVATION: 989.9 m	
SAMPLE TYPE <input checked="" type="checkbox"/> TUBE <input type="checkbox"/> NO RECOVERY <input type="checkbox"/> SPLIT SPOON <input type="checkbox"/> GRAB <input type="checkbox"/> MUD RETURN <input type="checkbox"/> CORE RETURN					
BACKFILL TYPE <input checked="" type="checkbox"/> BENTONITE <input type="checkbox"/> PEA GRAVEL <input type="checkbox"/> SLOUGH <input type="checkbox"/> GROUT <input type="checkbox"/> DRILL CUTTINGS <input type="checkbox"/> SAND					

DEPTH (m)	SOIL SYMBOL	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	RECOVERY (%)	ADDITIONAL INFORMATION	WELL INSTALLATION DETAILS	ELEVATION (m)
90		BEDROCK - Igneous (granitic type bedrock) porphyritic, subhedral light green (mafic) phenocrysts, grey matrix, green content increases with depth, wet at 27.43 m (<i>continued</i>)		30				899
91								898
92								897
93								896
94								895
95								894
96								893
97								892
98								891
99								890
100				31				889
101				32				888
102				33				887
103								886
104								885
105								884
106								883
107								882
108								881
109								880
110								879
111								878
112								877
113								876
114								875
115								874
116								873
117								872
118								871
119								
120								
		End of hole at 100.58 m depth.						

	AMEC Environment & Infrastructure Suite 600, 4445 Lougheed Hwy Burnaby, BC V5C 0E4 Tel: (604) 294-3811	LOGGED BY: DK	COMPLETION DEPTH: 100.6 m
		ENTERED BY: GN	COMPLETION DATE: 7-12-12
		Page 4 of 4	

CLIENT: Mount Polley Mining Corporation		PROJECT: Mt. Polley Hydrogeological Assessment		BOREHOLE NO: GW12-4B		
DRILLER: Geotech Drilling		Mount Polley B.C.		PROJECT NO: VM00560B		
DRILL TYPE/METHOD: Fraste DR238/Air Rotary (ODEX) 6"		NORTHING: 5822890.944 EASTING: 594115.972		ELEVATION: 990.1 m		
SAMPLE TYPE	<input checked="" type="checkbox"/> TUBE	<input type="checkbox"/> NO RECOVERY	<input type="checkbox"/> SPLIT SPOON	<input type="checkbox"/> GRAB	<input type="checkbox"/> MUD RETURN	<input type="checkbox"/> CORE RETURN
BACKFILL TYPE	<input checked="" type="checkbox"/> BENTONITE	<input type="checkbox"/> PEA GRAVEL	<input type="checkbox"/> SLOUGH	<input type="checkbox"/> GROUT	<input type="checkbox"/> DRILL CUTTINGS	<input type="checkbox"/> SAND

DEPTH (m)	SOIL SYMBOL	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	RECOVERY (%)	ADDITIONAL INFORMATION	WELL INSTALLATION DETAILS	ELEVATION (m)
0		SAND - silty, trace Gravel, trace organics, occasional cobbles, brown, moist			0.6m			989
1								988
2		GRAVEL - Igneous (granitic type rock) , some cobbles, pophyritic, subhedral light green (mafic) phenocrysts, grey matrix, dry						987
3								986
4					4.6m			985
5		SAND - fine to medium grained, some silt, some gravel, brown/red, moist			5.2m			984
6								983
7		BEDROCK - Igneous (granitic type bedrock) pophyritic, subhedral light green (mafic) phenocrysts, grey matrix, calcite filled fractures from 18.28 to 24.38, dry						982
8								981
9								980
10								979
11								978
12								977
13						Measured depth to groundwater 12.81 mbg (12/15/12)		976
14								975
15								974
16								973
17								972
18								971
19		Major fracture zone from 18.28 - 24.38 m.						970
20								969
21								968
22								967
23								966
24					24.4m			965
25		BEDROCK - Igneous (granitic type bedrock), fine grained, aphanitic, brown/yellow, dry (Intrusion), wet at approx. 27.43						964
26								963
27					27.4m			962
28		BEDROCK - Igneous (granitic type bedrock) pophyritic, subhedral light green (mafic) phenocrysts, grey matrix, wet						961
29								
30								

	AMEC Environment & Infrastructure Suite 600, 4445 Lougheed Hwy Burnaby, BC V5C 0E4 Tel: (604) 294-3811	LOGGED BY: DK	COMPLETION DEPTH: 36.3 m
		ENTERED BY: GN	COMPLETION DATE: 8-12-12
		Page 1 of 2	

AMEC B01 VM00560B - HYDRO LOGS.GPJ AMEC-PG-MULTIWELL-DATATEMPLATE.GDT 15-3-13


CLIENT: Mount Polley Mining Corporation		PROJECT: Mt. Polley Hydrogeological Assessment		BOREHOLE NO: GW12-4B	
DRILLER: Geotech Drilling		Mount Polley B.C.		PROJECT NO: VM00560B	
DRILL TYPE/METHOD: Fraste DR238/Air Rotary (ODEX) 6"		NORTHING: 5822890.944 EASTING: 594115.972		ELEVATION: 990.1 m	
SAMPLE TYPE <input checked="" type="checkbox"/> TUBE		<input type="checkbox"/> NO RECOVERY		<input checked="" type="checkbox"/> SPLIT SPOON	
<input type="checkbox"/> GRAB		<input type="checkbox"/> MUD RETURN		<input type="checkbox"/> CORE RETURN	
BACKFILL TYPE <input checked="" type="checkbox"/> BENTONITE		<input type="checkbox"/> PEA GRAVEL		<input type="checkbox"/> SLOUGH	
<input type="checkbox"/> GROUT		<input checked="" type="checkbox"/> DRILL CUTTINGS		<input type="checkbox"/> SAND	

DEPTH (m)	SOIL SYMBOL	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	RECOVERY (%)	ADDITIONAL INFORMATION	WELL INSTALLATION DETAILS	ELEVATION (m)
30		BEDROCK - Igneous (granitic type bedrock) porphyritic, subhedral light green (mafic) phenocrysts, grey matrix, wet (continued)				Producing ~5 GPM.		959
31								958
32								957
33								956
34								955
35								954
36								953
36.3		End of hole at 36.27 m depth.						952
37								951
38								950
39								949
40								948
41								947
42								946
43								945
44								944
45								943
46								942
47								941
48								940
49								939
50								938
51								937
52								936
53								935
54								934
55								933
56								932
57								931
58								
59								
60								

	AMEC Environment & Infrastructure Suite 600, 4445 Lougheed Hwy Burnaby, BC V5C 0E4 Tel: (604) 294-3811	LOGGED BY: DK	COMPLETION DEPTH: 36.3 m
		ENTERED BY: GN	COMPLETION DATE: 8-12-12
	Page 2 of 2		

CLIENT: Mount Polley Mining Corporation		PROJECT: Mt. Polley Hydrogeological Assessment		BOREHOLE NO: GW12-5A	
DRILLER: Geotech Drilling		Mount Polley B.C.		PROJECT NO: VM00560B	
DRILL TYPE/METHOD: Fraste DR238/Air Rotary (ODEX) 6"		NORTHING: 5824568.66 EASTING: 593199.483		ELEVATION: 966.2 m	
SAMPLE TYPE <input checked="" type="checkbox"/> TUBE <input type="checkbox"/> NO RECOVERY <input type="checkbox"/> SPLIT SPOON <input type="checkbox"/> GRAB <input type="checkbox"/> MUD RETURN <input type="checkbox"/> CORE RETURN					
BACKFILL TYPE <input checked="" type="checkbox"/> BENTONITE <input type="checkbox"/> PEA GRAVEL <input type="checkbox"/> SLOUGH <input type="checkbox"/> GROUT <input type="checkbox"/> DRILL CUTTINGS <input type="checkbox"/> SAND					


DEPTH (m)	SOIL SYMBOL	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	RECOVERY (%)	ADDITIONAL INFORMATION	WELL INSTALLATION DETAILS	ELEVATION (m)
0		CLAY - silty, some gravel and cobbles, trace sand, high plasticity, brown, moist to wet (Basal Till)						966
1								965
2								964
3				1				963
4								962
5								961
6				2				960
7								959
8		GRAVEL - some sand and clay, occasional cobbles, subrounded gravel, brown, wet at 9.0 m, (Basal Till)				Measured depth to groundwater 7.71 mbg (12/14/12)		958
9				3				957
10								956
11								955
12				4				954
13								953
14								952
15		Numerous boulders throughout unit		5		Producing ~ 90 GPM.		951
16								950
17								949
18				6				948
19								947
20								946
21				7				945
22								944
23								943
24								942
25				8				941
26								940
27		BEDROCK - Igneous (granitic type rock), phaneritic, pink/grey, banded, wet						939
28		Highly weathered zone from 25.9 - 39.6 m.		9				938
29								937
30								

	AMEC Environment & Infrastructure Suite 600, 4445 Lougheed Hwy Burnaby, BC V5C 0E4 Tel: (604) 294-3811	LOGGED BY: DK	COMPLETION DEPTH: 100.4 m
		ENTERED BY: GN	COMPLETION DATE: 11-12-12
		Page 1 of 4	

AMEC B01 VM00560B - HYDRO LOGS.GPJ AMEC-PG-MULTIWELL-DATATEMPLATE.GDT 15-3-13

CLIENT: Mount Polley Mining Corporation		PROJECT: Mt. Polley Hydrogeological Assessment		BOREHOLE NO: GW12-5A	
DRILLER: Geotech Drilling		Mount Polley B.C.		PROJECT NO: VM00560B	
DRILL TYPE/METHOD: Fraste DR238/Air Rotary (ODEX) 6"		NORTHING: 5824568.66 EASTING: 593199.483		ELEVATION: 966.2 m	
SAMPLE TYPE <input checked="" type="checkbox"/> TUBE <input type="checkbox"/> NO RECOVERY <input type="checkbox"/> SPLIT SPOON <input type="checkbox"/> GRAB <input type="checkbox"/> MUD RETURN <input type="checkbox"/> CORE RETURN					
BACKFILL TYPE <input checked="" type="checkbox"/> BENTONITE <input type="checkbox"/> PEA GRAVEL <input type="checkbox"/> SLOUGH <input type="checkbox"/> GROUT <input type="checkbox"/> DRILL CUTTINGS <input type="checkbox"/> SAND					


DEPTH (m)	SOIL SYMBOL	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	RECOVERY (%)	ADDITIONAL INFORMATION	WELL INSTALLATION DETAILS	ELEVATION (m)
30		<p>BEDROCK - Igneous (granitic type rock), phaneritic, pink/grey, banded, wet (<i>continued</i>)</p> <p>Fracture zone from 39.6 - 45.7 m, calcite filled fractures.</p>		10				936
31								935
32								934
33					11			933
34								932
35								931
36					12			930
37								929
38								928
39					13			927
40								926
41								925
42					14			924
43								923
44								922
45					15			921
46								920
47								919
48					16			918
49							917	
50							916	
51				17			915	
52							914	
53							913	
54				18			912	
55							911	
56							910	
57							909	
58				19			908	
59							907	
60								

	AMEC Environment & Infrastructure Suite 600, 4445 Lougheed Hwy Burnaby, BC V5C 0E4 Tel: (604) 294-3811	LOGGED BY: DK	COMPLETION DEPTH: 100.4 m
		ENTERED BY: GN	COMPLETION DATE: 11-12-12
		Page 2 of 4	

AMEC B01 VM00560B - HYDRO LOGS.GPJ AMEC-PG-MULTIWELL-DATATEMPLATE.GDT 15-3-13

CLIENT: Mount Polley Mining Corporation		PROJECT: Mt. Polley Hydrogeological Assessment		BOREHOLE NO: GW12-5A	
DRILLER: Geotech Drilling		Mount Polley B.C.		PROJECT NO: VM00560B	
DRILL TYPE/METHOD: Fraste DR238/Air Rotary (ODEX) 6"		NORTHING: 5824568.66 EASTING: 593199.483		ELEVATION: 966.2 m	
SAMPLE TYPE <input checked="" type="checkbox"/> TUBE <input type="checkbox"/> NO RECOVERY <input type="checkbox"/> SPLIT SPOON <input type="checkbox"/> GRAB <input type="checkbox"/> MUD RETURN <input type="checkbox"/> CORE RETURN					
BACKFILL TYPE <input checked="" type="checkbox"/> BENTONITE <input type="checkbox"/> PEA GRAVEL <input type="checkbox"/> SLOUGH <input type="checkbox"/> GROUT <input type="checkbox"/> DRILL CUTTINGS <input type="checkbox"/> SAND					


DEPTH (m)	SOIL SYMBOL	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	RECOVERY (%)	ADDITIONAL INFORMATION	WELL INSTALLATION DETAILS	ELEVATION (m)
60		BEDROCK - Igneous (granitic type rock), phaneritic, pink/grey, banded, wet (<i>continued</i>)		20				906
61								905
62								904
63								903
64				21				902
65								901
66								900
67		BEDROCK - Igneous (granitic type rock), phaneritic, green/grey, wet, (Intrusion) 67.1m		22				899
68								898
69								897
70				23				896
71								895
72								894
73				24				893
74								892
75								891
76		BEDROCK - Igneous (granitic type rock), phaneritic, pink/grey, banded, occasional grey/green seams from 91.44 to 94.49, wet 76.2m		25				890
77								889
78								888
79				26				887
80								886
81								885
82				27				884
83								883
84								882
85				28				881
86								880
87								879
88				29				878
89								877
90								

	AMEC Environment & Infrastructure Suite 600, 4445 Lougheed Hwy Burnaby, BC V5C 0E4 Tel: (604) 294-3811	LOGGED BY: DK	COMPLETION DEPTH: 100.4 m
		ENTERED BY: GN	COMPLETION DATE: 11-12-12
		Page 3 of 4	

AMEC B01 VM00560B - HYDRO LOGS.GPJ AMEC-PG-MULTIWELL-DATATEMPLATE.GDT 15-3-13


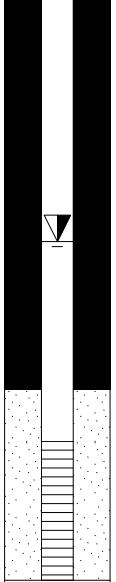

CLIENT: Mount Polley Mining Corporation		PROJECT: Mt. Polley Hydrogeological Assessment		BOREHOLE NO: GW12-5A	
DRILLER: Geotech Drilling		Mount Polley B.C.		PROJECT NO: VM00560B	
DRILL TYPE/METHOD: Fraste DR238/Air Rotary (ODEX) 6"		NORTHING: 5824568.66 EASTING: 593199.483		ELEVATION: 966.2 m	
SAMPLE TYPE <input checked="" type="checkbox"/> TUBE		<input type="checkbox"/> NO RECOVERY		<input type="checkbox"/> SPLIT SPOON	
<input type="checkbox"/> GRAB		<input type="checkbox"/> MUD RETURN		<input type="checkbox"/> CORE RETURN	
BACKFILL TYPE <input checked="" type="checkbox"/> BENTONITE		<input type="checkbox"/> PEA GRAVEL		<input type="checkbox"/> SLOUGH	
<input type="checkbox"/> GROUT		<input type="checkbox"/> DRILL CUTTINGS		<input type="checkbox"/> SAND	


DEPTH (m)	SOIL SYMBOL	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	RECOVERY (%)	ADDITIONAL INFORMATION	WELL INSTALLATION DETAILS	ELEVATION (m)
90		BEDROCK - Igneous (granitic type rock), phaneritic, pink/grey, banded, occasional grey/green seams from 91.44 to 94.49, wet (<i>continued</i>)		30				876
91								875
92								874
93								873
94				31				872
95								871
96								870
97								869
98				32				868
99								867
100								866
101		End of hole at 100.58 m depth		33				865
102								864
103								863
104								862
105								861
106								860
107								859
108								858
109								857
110								856
111								855
112								854
113								853
114								852
115								851
116								850
117								849
118								848
119								847
120								

	AMEC Environment & Infrastructure Suite 600, 4445 Lougheed Hwy Burnaby, BC V5C 0E4 Tel: (604) 294-3811	LOGGED BY: DK	COMPLETION DEPTH: 100.4 m
		ENTERED BY: GN	COMPLETION DATE: 11-12-12
		Page 4 of 4	

AMEC B01 VM00560B - HYDRO LOGS.GPJ AMEC-PG-MULTIWELL-DATATEMPLATE.GDT 15-3-13


CLIENT: Mount Polley Mining Corporation		PROJECT: Mt. Polley Hydrogeological Assessment		BOREHOLE NO: GW12-5B	
DRILLER: Geotech Drilling		Mount Polley B.C.		PROJECT NO: VM00560B	
DRILL TYPE/METHOD: Fraste DR238/Air Rotary (ODEX) 6"		NORTHING: 5824582.252 EASTING: 593197.113		ELEVATION: 965.3 m	
SAMPLE TYPE	<input checked="" type="checkbox"/> TUBE	<input type="checkbox"/> NO RECOVERY	<input checked="" type="checkbox"/> SPLIT SPOON	<input checked="" type="checkbox"/> GRAB	<input type="checkbox"/> MUD RETURN
BACKFILL TYPE	<input checked="" type="checkbox"/> BENTONITE	<input type="checkbox"/> PEA GRAVEL	<input type="checkbox"/> SLOUGH	<input type="checkbox"/> GROUT	<input type="checkbox"/> DRILL CUTTINGS
					<input type="checkbox"/> CORE RETURN
					<input type="checkbox"/> SAND

DEPTH (m)	SOIL SYMBOL	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	RECOVERY (%)	ADDITIONAL INFORMATION	WELL INSTALLATION DETAILS	ELEVATION (m)
0		CLAY - silty, some gravel and cobbles, trace sand, high plasticity, brown, moist to wet (Basal Till)				<p>Measured depth to groundwater 5.31 mbg (12/14/12)</p> <p>Producing ~ 3 GPM.</p>		965
1								964
2								963
3								962
4								961
5								960
6								959
7								958
8		GRAVEL - subrounded, some clay and sand, some cobbles, (Basal Till), brown, wet at 9.0						957
9								956
10								955
11								954
12								953
13		End of hole at 12.74 m depth.						952
14	951							
15	950							
16	949							
17	948							
18	947							
19	946							
20	945							
21	944							
22	943							
23	942							
24	941							
25	940							
26	939							
27	938							
28	937							
29	936							
30								

	AMEC Environment & Infrastructure Suite 600, 4445 Lougheed Hwy Burnaby, BC V5C 0E4 Tel: (604) 294-3811	LOGGED BY: DK	COMPLETION DEPTH: 12.7 m
		ENTERED BY: GN	COMPLETION DATE: 13-12-12
		Page 1 of 1	

CLIENT: Mount Polley Mining Corporation		PROJECT: Mt. Polley Hydrogeological Assessment		BOREHOLE NO: SI12-01	
DRILLER: Geotech Drilling		Mount Polley B.C.		PROJECT NO: VM00560B	
DRILL TYPE/METHOD: Fraste DR238/Air Rotary (ODEX) 6"		NORTHING: 5819786 EASTING: 595408		ELEVATION: 940 m	
SAMPLE TYPE	<input checked="" type="checkbox"/> TUBE	<input type="checkbox"/> NO RECOVERY	<input type="checkbox"/> SPLIT SPOON	<input type="checkbox"/> GRAB	<input type="checkbox"/> MUD RETURN
BACKFILL TYPE	<input checked="" type="checkbox"/> BENTONITE	<input type="checkbox"/> PEA GRAVEL	<input type="checkbox"/> SLOUGH	<input type="checkbox"/> GROUT	<input type="checkbox"/> DRILL CUTTINGS
					<input type="checkbox"/> CORE RETURN
					<input type="checkbox"/> SAND

DEPTH (m)	SOIL SYMBOL	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	RECOVERY (%)	ADDITIONAL INFORMATION	WELL INSTALLATION DETAILS	ELEVATION (m)
0		SILT - some clay, trace sand, moderate plasticity, dark brown, trace organics, moist.						939
1		1.5m						938
2		SILT and CLAY - some sand and gravel, high plasticity, brown, moist.						937
3		3m						936
4		SAND - fine to coarse, gravelly, subrounded to subangular, some silt, trace clay, well graded, brown, moist.						935
5		4.5m						934
6		SILT - clayey to some clay, some to trace sand and gravel, high to medium plasticity, brown, moist.						933
7								932
8		Interbedded sand and gravel lenses between 7.6 - 9.1 m.						931
9								930
10		Becomes less clay (to trace clay), and more sandy (to sandy) between 9.1 - 16.7 m.						929
11								928
12								927
13								926
14								925
15								924
16								923
17		Color change to olive grey at 16.7 m.						922
18								921
19		Sand and gravel lenses between 18.3 - 18.9 m						920
20								919
21		21.3m						918
22		SILT - sandy, some gravel, trace clay, low plasticity, olive grey, moist.						917
23								916
24								915
25								914
26								913
27								912
28								911
29								
30								

	AMEC Environment & Infrastructure Suite 600, 4445 Lougheed Hwy Burnaby, BC V5C 0E4 Tel: (604) 294-3811	LOGGED BY: TK	COMPLETION DEPTH: 41.5 m
		ENTERED BY: GN	COMPLETION DATE: 3-12-12
		Page 1 of 2	

AMEC B0Y VM00560B - HYDRO LOGS.GPJ AMEC-PG-MULTIWELL-DATATEMPLATE.GDT 15-3-13


CLIENT: Mount Polley Mining Corporation		PROJECT: Mt. Polley Hydrogeological Assessment		BOREHOLE NO: SI12-01		
DRILLER: Geotech Drilling		Mount Polley B.C.		PROJECT NO: VM00560B		
DRILL TYPE/METHOD: Fraste DR238/Air Rotary (ODEX) 6"		NORTHING: 5819786 EASTING: 595408		ELEVATION: 940 m		
SAMPLE TYPE	<input checked="" type="checkbox"/> TUBE	<input type="checkbox"/> NO RECOVERY	<input checked="" type="checkbox"/> SPLIT SPOON	<input checked="" type="checkbox"/> GRAB	<input type="checkbox"/> MUD RETURN	<input checked="" type="checkbox"/> CORE RETURN
BACKFILL TYPE	<input checked="" type="checkbox"/> BENTONITE	<input type="checkbox"/> PEA GRAVEL	<input type="checkbox"/> SLOUGH	<input type="checkbox"/> GROUT	<input checked="" type="checkbox"/> DRILL CUTTINGS	<input type="checkbox"/> SAND

DEPTH (m)	SOIL SYMBOL	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	RECOVERY (%)	ADDITIONAL INFORMATION	WELL INSTALLATION DETAILS	ELEVATION (m)
30		SILT - sandy, some gravel, trace clay, low plasticity, olive grey, mosit. <i>(continued)</i> Wet						909
31								908
32								907
33								906
34								905
35								904
36								903
37								902
38								901
39								900
40								899
41		BEDROCK - fine grained matrix, light grey in color.						898
42	End of hole at 41.5 m depth. Installed SI at 41.5m. 3 telescopic SI sections installed at 5.8 mbg, 9.8 mbg, and 13.4 mbg.						897	
43	896							
44	895							
45	894							
46	893							
47	892							
48	891							
49	890							
50	889							
51	888							
52	887							
53	886							
54	885							
55	884							
56	883							
57	882							
58	881							
59								
60								

	AMEC Environment & Infrastructure Suite 600, 4445 Lougheed Hwy Burnaby, BC V5C 0E4 Tel: (604) 294-3811	LOGGED BY: TK	COMPLETION DEPTH: 41.5 m
		ENTERED BY: GN	COMPLETION DATE: 3-12-12
	Page 2 of 2		

AMEC B0Y VM00560B - HYDRO LOGS.GPJ AMEC-PG-MULTIWELL-DATATEMPLATE.GDT 15-3-13

CLIENT: Mount Polley Mining Corporation		PROJECT: Mt. Polley Hydrogeological Assessment		BOREHOLE NO: SI12-02					
DRILLER: Geotech Drilling		Mount Polley B.C.		PROJECT NO: VM00560B					
DRILL TYPE/METHOD: Fraste DR238/Air Rotary (ODEX) 6"		NORTHING: 5819421 EASTING: 595920		ELEVATION: 940 m					
SAMPLE TYPE <input checked="" type="checkbox"/> TUBE <input type="checkbox"/> NO RECOVERY <input type="checkbox"/> SPLIT SPOON <input type="checkbox"/> GRAB <input type="checkbox"/> MUD RETURN <input type="checkbox"/> CORE RETURN									
BACKFILL TYPE <input checked="" type="checkbox"/> BENTONITE <input type="checkbox"/> PEA GRAVEL <input type="checkbox"/> SLOUGH <input type="checkbox"/> GROUT <input type="checkbox"/> DRILL CUTTINGS <input type="checkbox"/> SAND									
DEPTH (m)	SOIL SYMBOL	SOIL DESCRIPTION		SAMPLE TYPE	SAMPLE NO	RECOVERY (%)	ADDITIONAL INFORMATION	WELL INSTALLATION DETAILS	ELEVATION (m)
0		SILT and CLAY - gravelly, some sand, high plasticity, olive grey, dry.							939
1									938
2									937
3									936
4									935
5									934
6									933
7									932
8									931
9									930
10									929
11									928
12									927
13									926
14									925
15									924
16									923
17									922
18									921
19									920
20									919
21									918
22									917
23									916
24									915
25									914
26									913
27									912
28									911
29									
30									

	AMEC Environment & Infrastructure Suite 600, 4445 Lougheed Hwy Burnaby, BC V5C 0E4 Tel: (604) 294-3811	LOGGED BY: TK	COMPLETION DEPTH: 42.7 m
		ENTERED BY: GN	COMPLETION DATE: 5-12-12
			Page 1 of 2

AMEC BBY VM00560B - HYDRO LOGS.GPJ AMEC-PG-MULTIWELL-DATATEMPLATE.GDT 15-3-13

CLIENT: Mount Polley Mining Corporation		PROJECT: Mt. Polley Hydrogeological Assessment		BOREHOLE NO: SI12-02	
DRILLER: Geotech Drilling		Mount Polley B.C.		PROJECT NO: VM00560B	
DRILL TYPE/METHOD: Fraste DR238/Air Rotary (ODEX) 6"		NORTHING: 5819421 EASTING: 595920		ELEVATION: 940 m	
SAMPLE TYPE	<input checked="" type="checkbox"/> TUBE	<input type="checkbox"/> NO RECOVERY	<input type="checkbox"/> SPLIT SPOON	<input type="checkbox"/> GRAB	<input type="checkbox"/> MUD RETURN
BACKFILL TYPE	<input checked="" type="checkbox"/> BENTONITE	<input type="checkbox"/> PEA GRAVEL	<input type="checkbox"/> SLOUGH	<input type="checkbox"/> GROUT	<input type="checkbox"/> DRILL CUTTINGS
					<input type="checkbox"/> CORE RETURN
					<input type="checkbox"/> SAND

DEPTH (m)	SOIL SYMBOL	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	RECOVERY (%)	ADDITIONAL INFORMATION	WELL INSTALLATION DETAILS	ELEVATION (m)
30		SILT and CLAY - gravelly, some sand, high plasticity, olive grey, dry. <i>(continued)</i>						909
31								908
32								907
33								906
34								905
35								904
36								903
37								902
38								901
39								900
40								899
41								898
42								
43		End of hole at 42.7 mbg. Installed SI at 42.7 mbg. 3 Telescopic SI sections installed at 4.2 mbg, 7.9 mbg and 11.6 mbg. <div style="float: right; font-size: small;">42.7m</div>					897	
44	896							
45	895							
46	894							
47	893							
48	892							
49	891							
50	890							
51	889							
52	888							
53	887							
54	886							
55	885							
56	884							
57	883							
58	882							
59	881							
60								

	AMEC Environment & Infrastructure	LOGGED BY: TK	COMPLETION DEPTH: 42.7 m
	Suite 600, 4445 Lougheed Hwy	ENTERED BY: GN	COMPLETION DATE: 5-12-12
	Burnaby, BC V5C 0E4 Tel: (604) 294-3811		Page 2 of 2