

Memorandum

To	Alistair Kent	Page	1
CC	Project team		
Subject	Hydrogeological Field Investigation Summary		
From	Ryan Mills		
Date	December 3, 2009	Project Number	112359

Introduction

This memorandum summarizes the results of the hydrogeological field investigation conducted at the abandoned Mt. Nansen mine during the summer and fall of 2009. The purpose of this task was to collect field data to help refine the hydrogeological conceptual model and support water balance development. All interpretation of field data and a detailed description of the hydrogeological conceptual model are provided in a separate memo.

Key Objectives of Task

The key objectives of this task were to:

- Document drilling observations and survey all wells on site;
- Develop and sample groundwater wells in July and September;
- Conduct hydraulic conductivity testing of tailings, soil and bedrock;
- Characterize groundwater seepage emanating from the north face of the pit; and
- Determine the physical properties of the tailings.

Task Methodology

The field methods for each of the tasks are summarized below:

Borehole Drilling and Groundwater Monitor Installation

An extensive drilling program was planned during the spring of 2009 and conducted between July 7th and July 21st, 2009. Geotech Drilling Ltd. supplied a track mounted Geoprobe 8040DT drill rig with air rotary, mud rotary and direct push drilling capabilities. It was also equipped with a split spoon sampling device and an automatic SPT hammer for geotechnical testing purposes. The same drill rig was utilized for the hydrogeological (AECOM), geotechnical (AECOM) and geochemical (Lorax) investigations. An additional hand held drill was utilized by Lorax to install shallow, narrow diameter wells within the tailings facility; but are not discussed within the context of this memo.

A total of 21 new monitoring wells were installed as part of the combined hydrogeological, geotechnical and geochemical investigations within and surrounding the tailings management area (TMA), north of the Brown-McDade open pit and downslope of the mill building. Additional boreholes were completed to facilitate thermistor installation on the downstream face of the dam as part of the geotechnical program and are discussed in a separate memo. Within the TMA and downstream of the mill building, all drilling was conducted using direct push drilling technology. Drilling on the downstream face of the main tailings dam and around the open pit was conducted using air rotary drilling combined with split spoon sampling within unconsolidated sediments.

Direct push drilling technology was utilized to drill all boreholes within the TMA and downstream of the mill to facilitate collection of continuous 3" (76 mm) soil cores. Boreholes drilled using direct push technology includes MW09-01, MW09-02, MW09-03, MW09-04, MW09-05, MW09-06, MW09-07, MW09-11, MW09-16, MW09-17, MW09-18 and MW09-19. All cores were brought to surface within acrylic liners, cut open and logged for geologic properties including density, colour, grain size, moisture, plasticity and cohesiveness. All geologic materials were then classified according to the Unified Soil Classification System. After logging each borehole, photographs of each run were taken and representative samples of material were collected and placed in labelled polyethylene bags for later testing.

Air rotary drilling technology combined with the ODEX casing system was used for all drilling downstream of the main dam crest and for all boreholes in the vicinity of the open pit including MW09-08, MW09-13, MW09-14, MW09-15, MW09-20, MW09-21, MW09-22, MW09-23 and MW09-24. Geotechnical boreholes GT09-01, GT09-02, GT09-03, GT09-04 and GT09-05 were also drilled in the same way. Drilling in unconsolidated sediments on the downstream face of the tailings dam was conducted using a 4" (102 mm) air rotary/ODEX bit to drill and case from surface down to the bottom of the borehole. Standard penetration tests were conducted at regular intervals and split spoon samples were collected for later analysis.

Surrounding the open pit, drilling through the unconsolidated sediments overlying bedrock was conducted using a 4" (102 mm) air rotary/ODEX bit. After setting the casing into competent bedrock, the ODEX drill bit was retrieved and a 3-7/8" (98 mm) open hole bedrock bit was used to drill the remainder of each borehole. Drilling was completed without injecting water whenever possible. A record of bedrock encountered during drilling was preserved in chip trays by collecting chip samples approximately every 2 feet (0.61 m).

Following completion of each borehole within the TMA (MW09-01, MW09-02, MW09-03, MW09-04, MW09-05, MW09-06 and MW09-07), a flush-threaded 2" (52 mm) schedule 40 PVC groundwater monitoring well was installed through the casing. In all cases, a standard 10 slot screen was wrapped in nylon (Nitex) mesh with an opening of 5 μ m to restrict the movement of tailings into each well. Screen lengths and target installation depths were selected in conjunction with Lorax staff to ensure the geochemical and hydraulic information provided by each well was optimal. Whenever possible, the use of a sand filter pack was avoided and wells were allowed to naturally develop. However, this was not always possible and 10/20 quartz filter sand was used when necessary to backfill the borehole annulus surrounding the screen. Following installation of the filter pack, each borehole was grouted to surface using bentonite chips and a 6" (152 mm) protective PVC casing was installed at surface and backfilled with quartz sand and the well was labelled.

All monitoring wells installed elsewhere on site were completed by lowering conventional 2" (52 mm) flush-threaded PVC screen and riser pipe down the borehole and installing a 10/20 quartz filter pack. Either 10-slot or 20-slot screens were used depending on the nature of the surrounding geologic materials. After installing the filter pack to approximately 0.5 m above the top of the screen, a bentonite chip plug was installed and hydrated. After hydration of the bentonite plug above the screen, a bentonite grout mixture was prepared and pumped down the borehole using a Moyno pump until grout return was observed at surface. A protective lockable steel casing was then installed and set in concrete and the annulus between the PVC riser pipe and the steel casing was backfilled with quartz sand and the well was labelled.

To help identify the nature of interactions between groundwater and surface water, 14 mini-piezometers were installed within the Dome Creek and Pony Creek drainages and within the TMA. Some of the mini-piezometers (MP09-04, MP09-05, MP09-09, MP09-10, MP09-11 and MP09-12) were installed as 1.25" (32 mm) PVC monitoring wells by Rocky Mountain Soil Sampling using a portable gas-powered hammer under the supervision of Lorax staff. The remainder of the mini-piezometers (MP09-01, MP09-02, MP09-03, MP09-06, MP09-07, MP09-08, MP09-13 and MP09-14) were 1" (25 mm) Solinst stainless steel drive points installed by AECOM hydrogeologists using a slide hammer apparatus. All drive point piezometers were fitted with LDPE tubing to facilitate water level measurement and sampling using a peristaltic pump.

A summary of monitoring well and mini-piezometer completion details is provided in Tables 1 and 2 and borehole logs for all monitoring wells that were part of the hydrogeological and geotechnical investigation are

included in Appendix A. The location of all groundwater monitoring wells and mini-piezometers installed during the July 2009 field investigation are shown on Figure 1.

Surveying

Following completion of the drilling program, all boreholes, monitoring wells and other points of interest were surveyed using a Thales Promark differential GPS. Prior to conducting the survey, a base station was set up and the rover unit was initialized. In most cases, the survey was conducted in kinetic mode; however, static mode was used for more remote locations. At each monitoring well location, the ground surface elevation was surveyed immediately adjacent to the well and the well stickup was measured. Following completion of the survey, the data was post-processed to provide corrected orthometric elevations of the ground surface surrounding each groundwater monitoring well. The elevation of the top of each piezometer was then calculated using the surveyed ground elevation and the measured vertical stickup of each monitor. A summary of surveyed borehole and monitoring well co-ordinates is provided in Table 1.

Groundwater Sampling

Prior to groundwater sample collection, each monitoring well was developed to improve the hydraulic connection between the well and the aquifer and remove drill cuttings from the borehole. Generally, a surge block and inertial footvalve was installed on 5/8" (16 mm) HDPE tubing and lowered to just above the well screen. Pumping was initiated above the well screen and the assembly was slowly lowered deeper into the well. Where permeability of the surrounding formation was sufficient, a Waterra Hydrolift was used to provide continuous pumping. Each well was developed for approximately one hour and then allowed to recover. In some cases, additional development was conducted due to the presence of suspended sediment in purge water.

Following well development, groundwater samples were collected using inertial footvalve pumps for wells surrounding the mill, wells located on the downstream face of the tailings facility and wells located in the vicinity of the open pit. Select wells located within the TMA and on the downstream face of the dam where parameters sensitive to redox conditions were to be analyzed were purged until field parameters stabilized and sampled using low-flow bladder pumps. The majority of groundwater sampling within the TMA was conducted by Lorax staff. Static groundwater levels were collected prior to sample collection in both July and September 2009 and are presented in Tables 1 and 2.

Two sets of groundwater samples were collected, with the first set of groundwater samples collected during the second and third week of July 2009 and the second set of samples collected during the first week of September 2009. Field parameters including pH, conductivity and temperature were recorded prior to collecting each sample. Samples were collected in laboratory provided bottles and placed in coolers complete with ice packs for shipment to the ALS Environmental, a CAEAL accredited laboratory located in Vancouver, British Columbia for analysis. Groundwater samples collected as part of the hydrogeological investigation were analyzed for pH, conductivity, total dissolved solids, hardness, ammonia, nitrate, nitrite, dissolved anions, cyanide species, total organic carbon and dissolved metals. In addition to the above analyses, LEPH, HEPH and polycyclic aromatic hydrocarbons were analyzed in samples collected from wells downslope of the mill building as part of a preliminary contaminant investigation targeted at identifying whether any large scale fuel or cyanide spills were impacting groundwater on site. Dissolved metals samples were field filtered and preserved with nitric acid prior to shipment, while nutrient parameters were preserved with sulphuric acid and some cyanide species were preserved with sodium hydroxide. The remainder of the parameters were shipped to the laboratory unpreserved. The results of the analytical testing conducted in 2009 by AECOM and Lorax are summarized in Table 3. The original laboratory results are provided in Appendix B.

Soil Sampling

During installation of groundwater monitors MW09-15, MW09-16, MW09-17 and MW09-18 downslope of the mill building, soil samples were collected from the continuous soil cores brought to surface during direct push drilling for the purposes of hydrocarbon and metals analysis. Two soil sample jars were filled from discrete intervals at or near the water table to help identify the presence of any light non-aqueous phase liquid (LNAPL) or metal contamination as a result of any fuel or ore concentrate spills in the area surrounding the mill building.

All samples were collected by hand using latex gloves. Large rocks were removed from the soil prior to placing it in the sample jars. Following sampling, soil samples were placed in coolers complete with ice packs and shipped to ALS Environmental in Vancouver, British Columbia for analysis of LEPH, HEPH and metals. The soil analytical results are summarized in Table 4 and the original laboratory results are provided in Appendix B.

Hydraulic Conductivity Testing

In order to understand the permeability of the various overburden and bedrock units found on site, rising and falling head slug tests were conducted in MW09-02, MW09-03, MW09-06, MW09-15 and MW09-23. In each case, the static groundwater level was measured using an electronic water level tape and a Solinst pressure transducer attached to a direct read cable was installed to a pre-determined depth and programmed to record groundwater pressure and temperatures at 1 second intervals. After allowing the water level to re-equilibrate, a solid slug of known dimensions was lowered into the well to displace the water column. After the water level recovered to static water level, the solid slug was removed. After the water level had again recovered to static, the pressure transducer was downloaded and removed from the well. This process resulted in a pair of slug tests for each well consisting of one falling head test and one rising head test. All slug test data was analyzed using the Bouwer and Rice solution for an unconfined aquifer. The results of the slug test analyses are presented in Appendix C and summarized in Table 5.

Pit Seepage Characterization

During the July and September field programs, an attempt was made to characterize the volume and quality of seepage entering the north end of the Brown-McDade pit through one of the abandoned cross-cut drifts. During the July visit, the site was accessed by boat and inspected on July 13, 2009 by two AECOM hydrogeologists. At the time of inspection, the drift remained largely full of ice from the previous winter, but evidence of slow melting was observed in the form of small runoff channels in the surface of the ice. Occasional drips of water were also falling from the ceiling at the time of the site visit. During the September site visit, the drift was again inspected and ice was still present in the drift, with only occasional dripping from the drift ceiling which formed a small puddle on the drift floor. Unfortunately no direct measurements of flow into the pit could be made as a result of the ice blockage (July) and general lack of concentrated flow (both July and September). The presence of numerous north trending faults and the long-term weathering of bedrock has likely resulted in inflows to the pit that take place largely below ground surface and are thus, immeasurable. However, the presence of a large block of ice in the drift, dripping water from the drift ceiling and the presence of a large icing which forms on top of the resistant quartzite beds above the drift every fall and early winter indicates an input of groundwater to the pit. The geologic structure north of the pit is well described by R. Strohshein in a memo dated August 21, 2009 (Appendix D). The input of groundwater to the pit is most likely the result of flow through the shallow active zone and along northerly trending faults that are exposed in the pit walls and are inferred to extend beneath the Pony Creek channel which provides a source of recharge to the shallow groundwater system.

Physical Characterization of Tailings

To provide an understanding of the physical properties of on site materials including the coarse and fine fractions of tailings and the dam foundation materials, several soil samples were collected from 3" (76 mm) Geoprobe acrylic liners employed during direct push drilling in the vicinity of the TMA. After the soil core was logged, sampling intervals were identified based on soil texture and an understanding of site geology. Each soil sampling interval was separated from the remainder of the core using a utility knife and slid into tared heavy duty polyethylene sample bags for weighing in the field. Each sample bag was labelled with borehole and sampling interval information as well as the sample weight. Because samples were only obtained from full sections of core (i.e., no core loss), the soil volume was known and a field wet density was calculated. The results of field density calculations are provided in Table 6.

Following sample collection and measurement of field wet density, samples were shipped to MDH Engineered Solutions in Saskatoon, Saskatchewan for determination of grain size distributions, water contents, specific gravity, Atterberg limits and soil moisture characteristic curves, as appropriate. Original laboratory analytical certificates are provided in Appendix E.

Information Provided by Others

The following information, provided by others and/or in previous studies, was:

- Geological mapping of the area surrounding the Brown-McDade open pit and anecdotal information pertaining to groundwater inflows during mine operations was provided by Altura Environmental Consulting and Robert Stroshein; and
- Groundwater quality data for wells located within the TMA was provided by Lorax Environmental.

Key Results

The following sections describe the data and results obtained from the task:

- On site drilling observations were documented and all groundwater wells and mini-piezometers installed on site were surveyed using differential GPS to provide an accurate borehole location and elevation;
- All groundwater wells installed during July 2009 were developed and sampled in both July 2009 and September 2009;
- Hydraulic conductivity testing of tailings, soil and bedrock was conducted on wells MW09-02, MW09-03, MW09-06; MW09-15 and MW09-23;
- Several inspections of the north face of the Brown-McDade pit were conducted confirming that no observable groundwater seepage into the pit occurs above ground surface during the summer and early fall months. Seepage into the pit occurs through the shallow active layer in addition to the deep flow system below the regional water table; and
- The physical properties of the tailings and other sediments were determined based on sampling conducted as part of the July 2009 drilling program.

Attachments:

Figure 1	Mt. Nansen Mine Site Overview
Table 1	Summary of Groundwater Monitoring Well and Geotechnical Borehole Installation Details
Table 2	Summary of Mini-Piezometer Installation Details
Table 3	2009 Groundwater Quality Analytical Results
Table 4	2009 Soil Quality Analytical Results
Table 5	Permeability Testing Results
Table 6	Summary of Physical Soil Property Characterization
Appendix A	Borehole and Monitoring Well Logs
Appendix B	Laboratory Analytical Certificates
Appendix C	Permeability Testing Results
Appendix D	Open Pit Geological Considerations Memo
Appendix E	2009 Physical Soil Testing Analytical Results

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Table 1. Summary of Groundwater Monitoring Well and Geotechnical Borehole Installation Details

Station Name	Location		Elevations				Depths					Water Levels		Groundwater Elevations		Comments
	Easting	Northing	Ground Surface Elevation	Top of Piezometer Elevation	Top of Screen Elevation	Bottom of Screen Elevation	Stickup	Borehole Depth Below Ground	Depth to Top of Screen Below Ground	Depth to Bottom of Screen Below Ground	Depth to Bottom of Well Below Top of Pipe	Jul-09	Sep-09	Jul-09	Sep-09	
	m	m	m ASL	m ASL	m ASL	m ASL	m AGS	m BGS	m BGS	m BGS	m BTOP	m BTOP	m BTOP	m ASL	m ASL	
GT09-01	389459.00	6880612.00	1099.35	1100.37	N/A	N/A	1.03	30.09	N/A	N/A	31.12	N/A	N/A	N/A	N/A	
GT09-02	389498.00	6880549.00	1088.32	1089.13	N/A	N/A	0.80	16.77	N/A	N/A	17.57	N/A	N/A	N/A	N/A	Cross-ref. MW09-22
GT09-03	389510.00	6880620.00	1090.24	1091.11	N/A	N/A	0.88	19.81	N/A	N/A	20.73	N/A	N/A	N/A	N/A	
GT09-04	389593.00	6880583.00	1078.72	1079.55	N/A	N/A	0.83	16.23	N/A	N/A	16.93	N/A	N/A	N/A	N/A	Cross-ref. MW09-20
GT09-05	389591.00	6881551.00	1087.51	1088.08	N/A	N/A	0.57	19.81	N/A	N/A	20.43	N/A	N/A	N/A	N/A	Cross-ref. MW09-24
GLL07-01	388852.00	6881779.00	1210.46	1211.26	1199.79	1192.17	0.80	18.29	10.67	18.29	19.09	12.95	12.44	1198.31	1198.82	Borehole drilled in 2007, but PVC monitoring well installed in July 2009
GLL07-02	389071.00	6881706.00	1183.13	1184.51	1180.08	1177.35	1.38	5.78	3.05	5.78	7.16	dry	dry	<1177.352	<1177.352	
GLL07-03	388960.20	6881476.29	1184.84	1185.98	1175.94	1174.25	1.14	10.60	8.91	10.60	11.73	2.13	2.08	1183.85	1183.90	Borehole drilled in 2007, but PVC monitoring well installed in July 2009
MW09-01	389 394.6	6880 559.3	1096.25	1097.35	1086.80	1086.49	1.10	10.67	9.45	9.75	10.97	7.53	7.54	1089.82	1089.81	
MW09-02	389 395.7	6880 560.4	1096.28	1097.25	1093.24	1091.71	0.97	4.57	3.05	4.57	5.28	3.26	3.56	1093.99	1093.69	
MW09-03	389 421.1	6880 557.9	1096.15	1096.96	1088.07	1087.00	0.81	9.14	8.08	9.14	9.96	6.91	7.12	1090.05	1089.84	
MW09-04	389 421.0	6880 558.7	1096.02	1096.80	1090.53	1089.01	0.79	7.01	5.49	7.01	7.61	3.81	4.30	1092.99	1092.50	
MW09-05	389 413.4	6880 656.0	1095.26	1096.21	1089.48	1088.56	0.96	6.69	5.77	6.69	7.65	dry	dry	<1088.562	<1088.562	
MW09-06	389414.38	6880655.66	1095.32	1096.62	1093.63	1090.58	1.30	4.74	1.70	4.74	6.04	2.95	dry	1093.67	<1090.577	
MW09-07	389 324.2	6880 700.5	1095.75	1096.78	1093.65	1093.40	1.03	2.36	2.11	2.36	3.39	dry	dry	<1093.395	<1093.395	
MW09-08	389619.94	6880576.74	1073.94	1074.87	1072.63	1071.10	0.93	3.66	1.31	2.83	3.76	1.03	1.05	1073.84	1073.82	
MW09-11	389458.00	6880632.00	1107.31	1108.08	1104.62	1103.10	0.77	4.22	2.69	4.22	4.92	4.27	4.18	1103.81	1103.90	
MW09-13	389006.00	6881664.00	1208.11	1208.87	1178.24	1172.15	0.76	35.97	29.87	35.97	36.70	33.24	(frozen)	1175.64	#VALUE!	
MW09-14	389 008.2	6881 663.5	1207.85	1208.59	1202.37	1199.32	0.73	10.67	5.49	8.53	11.40	8.13 (frozen)	(frozen)	<1200.455	<1197.183	
MW09-15	388 920.5	6881 724.4	1206.82	1207.70	1172.84	1169.79	0.88	37.03	33.99	37.03	37.91	16.74	15.04	1190.96	1192.66	
MW09-16	387 992.2	6881 096.0	1182.81	1183.67	1182.55	1181.03	0.86	1.78	0.26	1.78	2.64	1.21	1.20	1182.46	1182.47	
MW09-17	388078.00	6880970.00	1178.03	1178.88	1174.67	1173.15	0.85	4.88	3.35	4.88	5.58	3.88	4.10	1175.00	1174.78	
MW09-18	388056.00	6880984.00	1178.93	1179.82	1172.84	1172.04	0.88	6.90	6.10	6.89	7.78	4.40	4.46	1175.41	1175.36	
MW09-19	388 052.5	6881 017.4	1176.84	1177.64	1173.26	1171.73	0.80	5.11	3.59	5.11	5.91	2.61	2.67	1175.03	1174.97	
MW09-20	389593.00	6880585.00	1078.64	1079.53	1077.39	1075.86	0.89	3.05	1.26	2.78	3.67	dry	dry	<1075.861	<1075.861	Cross-ref. GT09-04
MW09-21	389537.00	6880575.00	1080.68	1081.41	1079.36	1077.83	0.73	3.20	1.32	2.85	3.57	1.67	1.79	1079.74	1079.61	
MW09-22	389498.00	6880547.00	1088.34	1089.19	1085.48	1083.96	0.85	4.39	2.86	4.39	5.23	4.85	4.60	1084.34	1084.59	Cross-ref. GT09-02
MW09-23	389461.00	6880553.00	1098.52	1099.43	1085.04	1083.51	0.91	15.00	13.48	15.00	15.92	13.39	13.19	1086.04	1086.24	
MW09-24	389591.00	6881550.00	1087.33	1087.99	1081.27	1078.22	0.66	11.28	6.06	9.11	9.77	9.77	9.67	1078.22	1078.33	Cross-ref. GT09-05
TH09-01	389383.00	6880671.00	Not measured	No Well	No Well	No Well	No Well	5.18	No Well	No Well	No Well	No Well	No Well	N/A	No Well	

Notes:
m BGS
m AGS
m ASL
m BTOP

metres below ground surface
metres above ground surface
metres above mean sea level
metres below top of PVC pipe



Table 2. Summary of Mini-Piezometer Installation Details

Station Name	Location		Elevations				Depths					Water Levels				Comments
	Easting (NAD 83)	Northing (NAD 83)	Ground Surface Elevation	Top of Piezometer Elevation	Top of Screen Elevation	Bottom of Screen Elevation	Stickup	Borehole Depth Below Ground	Depth to Top of Screen Below Ground	Depth to Bottom of Screen Below Ground	Depth to Bottom of Well Below Top of Pipe	Depth to Water below Top of Pipe July, 2009	Depth to Surface Water from Top of Pipe July 2009	Depth to Water below Top of Pipe Sept, 2009	Depth to Surface Water from Top of Pipe Sept, 2009	
	m	m	m ASL	m ASL	m ASL	m ASL	m AGS	m BGS	m BGS	m BGS	m BTOP	m BTOP	m BTOP	m BTOP	m BTOP	
MP09-01	388707.00	6881933.00	1224.28	1225.73	1224.10	1223.80	1.45	N/A	0.18	0.48	1.63	1.13	1.12	1.02	1.08	Upper Pony Creek
MP09-02	388869.00	6881815.00	1204.86	1206.31	1204.66	1204.36	1.46	N/A	0.20	0.50	1.63	1.08	1.08	1.21	1.06	Upper Middle Pony Creek
MP09-03	388958.00	6881740.00	1196.22	1197.61	1195.92	1195.62	1.39	N/A	0.30	0.60	1.63	0.70	0.70	1.62	0.67	Lower Middle Pony Creek
MP09-04	-	-	-	-	-	-	1.30	N/A	0.84	1.75	3.05	2.26	Dry	Not measured	Dry	Seepage Pond North
MP09-05	-	-	-	-	-	-	0.99	N/A	0.31	0.61	1.83	1.40	Dry	1.43	Dry	Seepage Pond West
MP09-06	389 485.5	6880 774.0	1098.29	1099.28	1097.66	1097.36	0.99	N/A	0.63	0.93	1.63	dry	0.82	1.64	0.80	Div. Channel Bridge
MP09-07	389 151.6	6880 783.0	1099.51	1100.36	1098.66	1098.36	0.85	N/A	0.86	1.16	1.63	0.64	0.65	0.60	0.63	Div. Channel Reclaim
MP09-08	389160.00	6881722.00	1167.70	1168.81	1167.11	1166.81	1.11	N/A	0.59	0.89	1.63	0.68	0.89	0.66	0.88	Lower Pony Creek
MP09-09	389 240.2	6880 682.0	1097.20	1098.61	1093.14	1092.94	1.41	N/A	4.06	4.26	5.66	2.47	Dry	2.35	Dry	Tailings Pond North
MP09-10	389 240.4	6880 682.9	1097.23	1098.63	1093.37	1093.37	1.40	N/A	3.86	3.86	5.26	2.51	Dry	2.39	Dry	Tailings Pond North
MP09-11	389 220.7	6880 615.0	1097.78	1098.99	1094.30	1094.00	1.21	N/A	3.48	3.78	4.99	1.45	Dry	1.17	Dry	Tailings Pond South
MP09-12	389 220.7	6880 614.3	1097.78	1098.95	1095.01	1094.71	1.17	N/A	2.77	3.07	4.24	1.45	Dry	1.34	Dry	Tailings Pond South
MP09-13	389 076.6	6880 750.8	1099.94	1100.78	1099.57	1099.26	0.85	N/A	0.36	0.67	1.52	0.52	0.78	0.67	0.72	Div. Channel Dome Inlet
MP09-14	389 141.2	6880 721.6	1097.96	1098.54	1097.33	1097.03	0.58	N/A	0.63	0.93	1.51	0.77	dry	0.43	0.41	Tailings Pond North West

Notes:
m BGS *metres below ground surface*
m AGS *metres above ground surface*
m ASL *metres above mean sea level*
m BTOP *metres below top of PVC pipe*

112359 Mt Nansen Compiled GW and SOIL Quality Data_Dec 3 09 MQ.xlsx

112359 Mt Nansen Compiled GW and SOIL Quality Data_Dec 3 09 MQ.xlsx

Table 4. 2009 Soil Quality Analytical Results

Sample ID	MW09-16(6FT-7FT)	MW09-17(11FT-12FT)	MW09-18(2FT-3FT)	MW09-18(21FT-22FT)	MW09-19(7FT10)	MW09-19(15FT-16FT9)
Date Sampled	15-Jul-09	15-Jul-09	15-Jul-09	15-Jul-09	15-Jul-09	15-Jul-09
Time Sampled	00:00	00:00	00:00	00:00	00:00	00:00
ALS Sample ID	L796959-7	L796959-9	L796959-10	L796959-11	L796959-12	L796959-15
Matrix	Soil	Soil	Soil	Soil	Soil	Soil
Physical Tests						
Conductivity	-	-	-	-	-	-
Hardness (as CaCO ₃)	-	-	-	-	-	-
% Moisture	11.1	9.68	30.1	7.2	11.7	20
pH	7.64	7.97	6.39	8.14	6.96	7.13
Total Dissolved Solids	-	-	-	-	-	-
Anions and Nutrients						
Acidity (as CaCO ₃)	-	-	-	-	-	-
Alkalinity, Total (as CaCO ₃)	-	-	-	-	-	-
Ammonia as N	-	-	-	-	-	-
Bromide (Br)	-	-	-	-	-	-
Chloride (Cl)	-	-	-	-	-	-
Fluoride (F)	-	-	-	-	-	-
Nitrate (as N)	-	-	-	-	-	-
Nitrite (as N)	-	-	-	-	-	-
Sulfate (SO ₄)	-	-	-	-	-	-
Cyanides						
Cyanide, Weak Acid Diss	-	-	-	-	-	-
Cyanide, Total	-	-	-	-	-	-
Cyanate (CNO)	-	-	-	-	-	-
Metals						
Antimony (Sb)	162	<10	<10	11	898	<10
Arsenic (As)	1980	65.7	103	285	13000	9.4
Barium (Ba)	150	95.1	271	113	99.9	56.6
Beryllium (Be)	0.5	<0.50	<0.50	0.73	1.25	<0.50
Cadmium (Cd)	41.4	<0.50	<0.50	<0.50	91.1	<0.50
Chromium (Cr)	16.2	15.6	19.6	111	5.1	10.5
Cobalt (Co)	9.8	8.6	8.3	20	6.7	3.6
Copper (Cu)	111	44.9	54.5	71.9	401	6.4
Lead (Pb)	1570	<30	<30	<30	8260	<30
Mercury (Hg)	0.151	0.0419	0.0458	0.103	0.426	0.0076
Molybdenum (Mo)	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Nickel (Ni)	11.8	8.1	12.2	47.8	7.1	5.9
Selenium (Se)	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Silver (Ag)	35.2	<2.0	<2.0	<2.0	96.9	<2.0
Thallium (Tl)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Tin (Sn)	<5.0	<5.0	<5.0	<5.0	8.2	<5.0
Vanadium (V)	56.7	76	60.7	136	22.9	27.4
Zinc (Zn)	2760	60.1	60.3	127	4300	24.9
Dissolved Metals						
Aluminum (Al)-Dissolved	-	-	-	-	-	-
Antimony (Sb)-Dissolved	-	-	-	-	-	-
Arsenic (As)-Dissolved	-	-	-	-	-	-
Barium (Ba)-Dissolved	-	-	-	-	-	-
Beryllium (Be)-Dissolved	-	-	-	-	-	-
Bismuth (Bi)-Dissolved	-	-	-	-	-	-
Boron (B)-Dissolved	-	-	-	-	-	-
Cadmium (Cd)-Dissolved	-	-	-	-	-	-
Calcium (Ca)-Dissolved	-	-	-	-	-	-
Chromium (Cr)-Dissolved	-	-	-	-	-	-
Cobalt (Co)-Dissolved	-	-	-	-	-	-
Copper (Cu)-Dissolved	-	-	-	-	-	-
Iron (Fe)-Dissolved	-	-	-	-	-	-
Lead (Pb)-Dissolved	-	-	-	-	-	-
Lithium (Li)-Dissolved	-	-	-	-	-	-
Magnesium (Mg)-Dissolved	-	-	-	-	-	-
Manganese (Mn)-Dissolved	-	-	-	-	-	-
Mercury (Hg)-Dissolved	-	-	-	-	-	-
Molybdenum (Mo)-Dissolved	-	-	-	-	-	-
Nickel (Ni)-Dissolved	-	-	-	-	-	-
Phosphorus (P)-Dissolved	-	-	-	-	-	-
Potassium (K)-Dissolved	-	-	-	-	-	-
Selenium (Se)-Dissolved	-	-	-	-	-	-
Silicon (Si)-Dissolved	-	-	-	-	-	-
Silver (Ag)-Dissolved	-	-	-	-	-	-
Sodium (Na)-Dissolved	-	-	-	-	-	-
Strontium (Sr)-Dissolved	-	-	-	-	-	-
Thallium (Tl)-Dissolved	-	-	-	-	-	-
Tin (Sn)-Dissolved	-	-	-	-	-	-
Titanium (Ti)-Dissolved	-	-	-	-	-	-
Uranium (U)-Dissolved	-	-	-	-	-	-
Vanadium (V)-Dissolved	-	-	-	-	-	-
Zinc (Zn)-Dissolved	-	-	-	-	-	-

Table 4. 2009 Soil Quality Analytical Results

Sample ID	MW09-16(6FT-7FT)	MW09-17(11FT-12FT)	MW09-18(2FT-3FT)	MW09-18(21FT-22FT)	MW09-19(7FT10)	MW09-19(15FT-16FT9)
Date Sampled	15-Jul-09	15-Jul-09	15-Jul-09	15-Jul-09	15-Jul-09	15-Jul-09
Time Sampled	00:00	00:00	00:00	00:00	00:00	00:00
ALS Sample ID	L796959-7	L796959-9	L796959-10	L796959-11	L796959-12	L796959-15
Matrix	Soil	Soil	Soil	Soil	Soil	Soil
Hydrocarbons						
EPH10-19	<200	<200	<200	<200	<200	<200
EPH19-32	<200	<200	<200	<200	<200	<200
LEPH	<200	<200	<200	<200	<200	<200
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Acenaphthylene	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Acridine	-	-	-	-	-	-
Anthracene	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Benz(a)anthracene	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Benzo(a)pyrene	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Benzo(b)fluoranthene	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Benzo(g,h,i)perylene	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Benzo(k)fluoranthene	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Chrysene	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Dibenz(a,h)anthracene	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Fluoranthene	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Fluorene	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Indeno(1,2,3-c,d)pyrene	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
2-Methylnaphthalene	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Naphthalene	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Phenanthrene	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Pyrene	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Quinoline	-	-	-	-	-	-
d10-Acenaphthene (SS)	99	95	103	99	91	94
d9-Acridine (SS)	-	-	-	-	-	-
d12-Chrysene (SS)	72	70	84	71	74	66
d8-Naphthalene (SS)	94	95	100	97	89	91
d10-Phenanthrene (SS)	89	86	94	90	87	84

Table 5. Permeability Testing Results

Station Name	Stickup	Borehole Depth	Depth to Top of Screen	Depth to Bottom of Screen	Depth to Static Water Level		Depth to Top of Screen	H0	H	d	b	L	rc	rw	K	Analytical Solution
	m ags	m bgs	m bgs	m bgs	m btop	m bgs	m bswl	m	m		m	m	m	m	m/s	
MW09-02	0.97	4.57	3.05	4.57	3.26	2.29	0.76	0.305	2.28	0.76	2.28	1.52	0.025	0.030	1.04E-06	Bouwer-Rice (1976)
MW09-03	0.81	9.14	5.49	7.01	6.91	6.10	-0.61	0.255	3.04	0.00	3.04	1.07	0.025	0.030	5.53E-06	Bouwer-Rice (1976)
MW09-06	1.30	4.57	1.52	4.57	2.95	1.66	-0.13	0.472	2.92	0.00	2.92	3.05	0.025	0.030	2.04E-06	Bouwer-Rice (1976)
MW09-15	0.88	37.03	33.99	37.03	16.74	15.86	18.12	0.586	21.17	18.12	21.17	3.05	0.025	0.046	1.20E-06	Barker-Black (1983)
MW09-23	0.91	15.00	13.41	14.94	13.39	12.48	0.94	0.380	2.53	0.94	2.53	1.52	0.025	0.054	1.29E-05	Bouwer-Rice (1976)

Notes:

m ags Metres above ground surface
m bgs Metres below ground surface
m btop Metres below top of pvc piezometer
m bswl Metres below static water level
m Metres
m/s Metres per second

Table 6. Summary of Physical Soil Property Characterization

Sample Name	Location		Top of Interval ft BGS	Bottom of Interval ft BGS	Interval Length		Soil Core Diameter		Sample Volume m3	Sample Weight kg	In-situ Density kg/m3	Material Type	Texture	Physical Testing Conducted
	Easting (m)	Northing (m)			ft	m	in	m						
MW09-01	389395	6880559	18	20	2	0.6096	3.25	0.0826	3.26E-03	4.03	1235	Tailings	Clay with minor silt	-
MW09-01	389395	6880559	26	29	3	0.9144	3.25	0.0826	4.89E-03	6.61	1351	Tailings	Clay	Moisture content, Atterberg limits, specific gravity, grain size, soil moisture characteristic curve
MW09-02	389396	6880560	10	15	5	1.5240	3.25	0.0826	8.16E-03	8.1	993	Tailings	Silty sand	Moisture content, Atterberg limits, specific gravity, grain size, soil moisture characteristic curve
MW09-03	389421	6880558	3	4	1	0.3048	3.25	0.0826	1.63E-03	1.88	1152	Tailings	Silty sand	-
MW09-03	389421	6880558	10	11	1	0.3048	3.25	0.0826	1.63E-03	2.26	1385	Tailings	Silty sand	-
MW09-03	389421	6880558	23	24	1	0.3048	3.25	0.0826	1.63E-03	2.31	1416	Tailings	Clay with minor silt	-
MW09-03	389421	6880558	27	28	1	0.3048	3.25	0.0826	1.63E-03	1.07	1312	Half core, Dam Fill	Fine to medium sand, minor silt	Grain size
MW09-04	389421	6880559	16	17	1	0.3048	3.25	0.0826	1.63E-03	2.91	1784	Tailings	Silty sand	-
MW09-07	389324	6880701	11	13	2	0.6096	3.25	0.0826	3.26E-03	4.51	1382	Native	Silty sand	-
MW09-11	389458	6880632	10	13.8	3.8	1.1684	3.25	0.0826	6.25E-03	7.52	2405	Half core, Aeolian	Fine to medium sand	Grain size
TH09-01	389383	6880671	6	7	1	0.3048	3.25	0.0826	1.63E-03	2.39	1465	Tailings	Silty clay	-
TH09-01	389383	6880671	13	14	1	0.3048	3.25	0.0826	1.63E-03	2.4	1471	Native	Aeolian sand	-

Notes:
ft BGS feet below ground surface.

PROJECT: Mt. Nansen Mine Closure				CLIENT: Yukon Government - EMR				TESTHOLE NO: GT09-01				
LOCATION: Tailings Dam Crest, near TH-03 N 2,097,210.5 E 118,707.1								PROJECT NO.: 112359				
CONTRACTOR: Geotech Drilling Ltd.				METHOD: Geoprobe 8040DT, Air Rotary - 114 mm				ELEVATION (m): 1101.44				
SAMPLE TYPE		<input checked="" type="checkbox"/> GRAB	<input type="checkbox"/> SHELBY TUBE	<input checked="" type="checkbox"/> SPLIT SPOON	<input type="checkbox"/> BULK	<input type="checkbox"/> NO RECOVERY	<input type="checkbox"/> CORE					
BACKFILL TYPE		<input checked="" type="checkbox"/> BENTONITE	<input type="checkbox"/> GRAVEL	<input type="checkbox"/> SLOUGH	<input type="checkbox"/> GROUT	<input type="checkbox"/> CUTTINGS	<input type="checkbox"/> SAND					
DEPTH (m)	USC	SOIL SYMBOL	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE #	SPT (N)	PENETRATION TESTS				COMMENTS	ELEVATION
							<div><div>* Becker *</div><div>◇ Dynamic Cone ◇</div><div>◆ SPT (Standard Pen Test) ◆</div><div>(Blows/300mm)</div><div>0 20 40 60 80 100</div><div>■ Total Unit Wt (kN/m³)</div><div>16 17 18 19 20 21</div><div>Plastic MC Liquid</div><div>20 40 60 80 100</div></div>					
0			SAND (fill), trace gravel, trace silt, trace organics - yellowish orange-brown - moist, compact to dense - medium grained sand, sub-rounded - sub-angular gravel, >0.5 cm to 2 cm - matrix supported - presence of roots until 3.05 m below ground surface									335
1												334
2												333
3			- moist with dry lenses	<input checked="" type="checkbox"/>	S-1	10-14-15	◆					332
4	FILL											331
5												330
6												329
7												328
8												327
9	FILL		- SAND and GRAVEL SAND (fill), trace to some gravel, trace silt - yellowish orange-brown - medium grained to fine grained sand (trace coarse sand), sub-rounded - sub-rounded gravel, >0.5 cm to <2 cm - matrix supported - moist, compact to dense	<input checked="" type="checkbox"/>	S-2	7-14-15	◆					326
10												325
11	FILL											324
12												323
13												322
14	FILL		SAND and GRAVEL (fill), trace silt - brown - medium grained to fine grained sand, sub-rounded - sub-angular gravel, >0.5 cm to <2 cm - clast supported	<input checked="" type="checkbox"/>	S-3	43-57-48	◆					321
15												
				LOGGED BY: Marc Lavigne				COMPLETION DEPTH: 30.18 m				
				REVIEWED BY: Alex Knop				COMPLETION DATE: 7/19/09				
				PROJECT ENGINEER: Ken Skaffeld				Page 1 of 3				

LOG OF TEST HOLE 112359 BOREHOLE LOGS OCT 5 2009 RDM.GPJ UMA WINN.GDT 10/6/09

PROJECT: Mt. Nansen Mine Closure				CLIENT: Yukon Government - EMR				TESTHOLE NO: GT09-01					
LOCATION: Tailings Dam Crest, near TH-03 N 2,097,210.5 E 118,707.1								PROJECT NO.: 112359					
CONTRACTOR: Geotech Drilling Ltd.				METHOD: Geoprobe 8040DT, Air Rotary - 114 mmELEVATION (m): 1101.44									
SAMPLE TYPE		GRAB		SHELBY TUBE		SPLIT SPOON		BULK		NO RECOVERY		CORE	
BACKFILL TYPE		BENTONITE		GRAVEL		SLOUGH		GROUT		CUTTINGS		SAND	
<div><div>DEPTH (m)</div><div>USC</div><div>SOIL SYMBOL</div><div>SOIL DESCRIPTION</div><div>SAMPLE TYPE</div><div>SAMPLE #</div><div>SPT (N)</div><div><div>PENETRATION TESTS</div><div><div>* Becker *</div><div>◇ Dynamic Cone ◇</div><div>◆ SPT (Standard Pen Test) ◆</div><div>(Blows/300mm)</div><div>■ Total Unit Wt ■</div><div>(kN/m³)</div><div>Plastic MC Liquid</div></div></div></div> <div><div>COMMENTS</div><div>ELEVATION</div></div>													
15			- wet, dense to very dense - GRAVEL (fill), sandy										
16	SA		SAND (native soil), trace to some silt, trace organics - dark grey - medium grained to fine grained sand, sub-rounded - wet, loose to compact - silt content increases with depth	S-4	7-13-14	7							320
17	GRSA		SAND and GRAVEL, trace silt - dark grey - medium grained sand (trace coarse sand), sub-rounded - sub-angular gravel, >0.5 cm to 5 cm - clast supported - wet, very loose	S-5	2-1-2	2							319
18			SAND (native soil), trace to some silt, trace organics - dark grey - fine sand, sub-rounded - wet, very loose - sand coarsens with depth - some gravel										318
19	SA												317
20													316
21	GRSA		SAND and GRAVEL, trace silt - dark grey-brown - medium sand, sub-rounded - sub-angular gravel, >0.5 cm to 2 cm - clast supported - permafrost at 21.5 m below ground surface, Nbn, 2.8C	S-6	4-20-47	4							315
22			SAND, trace to some silt, trace gravel - dark grey - medium grained to fine grained sand, sub-rounded - sub-angular gravel, <1 cm - compact to dense - SAND and GRAVEL until approx. 27.4 m below ground surface										314
23													313
24	SA												312
25													311
26			- fine sand content decreases with depth	S-7	31-61-	31							310
27													309
28	GRSA		- some gravel SAND and GRAVEL - light grey-brown - fine grained to medium-coarse sand, sub-rounded - sub-angular gravel, <1 cm - coarsening downward sequences										308
29													307
30				G-8									306

LOGGED BY: Marc Lavigne

REVIEWED BY: Alex Knop

PROJECT ENGINEER: Ken Skafffeld


COMPLETION DEPTH: 30.18 m

COMPLETION DATE: 7/19/09

AECOM

Page 2 of 3

PROJECT: Mt. Nansen Mine Closure				CLIENT: Yukon Government - EMR				TESTHOLE NO: GT09-01			
LOCATION: Tailings Dam Crest, near TH-03 N 2,097,210.5 E 118,707.1								PROJECT NO.: 112359			
CONTRACTOR: Geotech Drilling Ltd.				METHOD: Geoprobe 8040DT, Air Rotary - 114 mm							
SAMPLE TYPE		<input checked="" type="checkbox"/> GRAB	<input type="checkbox"/> SHELBY TUBE	<input checked="" type="checkbox"/> SPLIT SPOON	<input type="checkbox"/> BULK	<input checked="" type="checkbox"/> NO RECOVERY		<input type="checkbox"/> CORE			
BACKFILL TYPE		<input checked="" type="checkbox"/> BENTONITE	<input type="checkbox"/> GRAVEL	<input type="checkbox"/> SLOUGH	<input type="checkbox"/> GROUT	<input checked="" type="checkbox"/> CUTTINGS		<input type="checkbox"/> SAND			
DEPTH (m)	USC	SOIL SYMBOL	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE #	SPT (N)	PENETRATION TESTS		COMMENTS	ELEVATION	
							* Becker * ◇ Dynamic Cone ◇ ◆ SPT (Standard Pen Test) ◆ (Blows/300mm) 0 20 40 60 80 100 ■ Total Unit Wt (kN/m³) 16 17 18 19 20 21 Plastic MC Liquid 20 40 60 80 100				
30		<input checked="" type="checkbox"/>	END OF DRILLING at 30.18 m in permafrost (refusal)							305	
31			- 10 cm of heaving at 17.53 m below ground surface							304	
32			Thermistor install: - 2" PVC pipe SCHED 40 - grout from 30.2 m below ground surface to ground surface - 1" PVC pipe SCHED 40 install inside the 2" PVC pipe SCHED 40 - grout inside the annulus space							303	
33										302	
34										301	
35										300	
36										299	
37										298	
38										297	
39										296	
40										295	
41										294	
42										293	
43										292	
44										291	
45											




LOGGED BY: Marc Lavigne	COMPLETION DEPTH: 30.18 m
REVIEWED BY: Alex Knop	COMPLETION DATE: 7/19/09
PROJECT ENGINEER: Ken Skaffeld	Page 3 of 3

PROJECT: Mt. Nansen Mine Closure				CLIENT: Yukon Government - EMR				TESTHOLE NO: GT09-02					
LOCATION: Tailings Dam, on Road from South Abutment N 2,097,191.5 E 118,719.0								PROJECT NO.: 112359					
CONTRACTOR: Geotech Drilling Ltd.				METHOD: Geoprobe 8040DT, Air Rotary - 114 mm				ELEVATION (m): 1090.41					
SAMPLE TYPE		GRAB		SHELBY TUBE		SPLIT SPOON		BULK		NO RECOVERY		CORE	
BACKFILL TYPE		BENTONITE		GRAVEL		SLOUGH		GROUT		CUTTINGS		SAND	

DEPTH (m)	USC	SOIL SYMBOL	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE #	SPT (N)	PENETRATION TESTS		COMMENTS	ELEVATION
							<div><div><div>Becker</div><div>Dynamic Cone</div><div>SPT (Standard Pen Test)</div><div>Total Unit Wt (kN/m³)</div></div><div><div>Plastic</div><div>MC</div><div>Liquid</div></div></div>			
0			SAND (fill), trace silt - medium brown - fine grained to medium grained sand, sub-rounded - moist, loose							332
1										331
2	FILL		- some gravel below 2.13 m below ground surface	S-1	5-7-10					330
3				S-2	5-6-6					329
4										328
5	SA		SAND, trace silt, trace organics - wood debris, <2 cm - dark grey - sub-rounded - permafrost at 5.64 m below ground surface, Nbn, 1.8C - gravel content increases with depth to "gravelly"	S-3	1-1-1					327
6				S-4	28-34-61					326
7	GRSA		GRAVEL, sandy, trace silt - dark grey - medium to coarse sand, sub-angular - sub-angular gravel, >0.5 cm to 2 cm	S-5	25-42-35					325
8			SAND, trace silt - dark grey - medium grained sand, sub-rounded							324
9			- trace gravel (>0.5 cm) below 8.84 m below ground surface - fine grained to medium grained sand below 9.14 m below ground surface	S-6	27-42-34					323
10										322
11	SA		- medium grained sand below 10.36 m below ground surface - trace gravel (<2 cm) below 10.67 m below ground surface	S-7	37-38-46					321
12				S-8	38-47-56					320
13			- fine grained to medium grained sand below 12.19 m below ground surface							319
14			- some gravel below 13.41 m below ground surface	S-9	37-45-47					318
15										

LOGGED BY: Marc Lavigne				COMPLETION DEPTH: 16.23 m			
REVIEWED BY: Alex Knop				COMPLETION DATE: 7/17/09			
PROJECT ENGINEER: Ken Skaffeld				Page 1 of 2			

PROJECT: Mt. Nansen Mine Closure				CLIENT: Yukon Government - EMR				TESTHOLE NO: GT09-02			
LOCATION: Tailings Dam, on Road from South Abutment N 2,097,191.5 E 118,719.0								PROJECT NO.: 112359			
CONTRACTOR: Geotech Drilling Ltd.				METHOD: Geoprobe 8040DT, Air Rotary - 114 mm							
SAMPLE TYPE		<input checked="" type="checkbox"/> GRAB	<input type="checkbox"/> SHELBY TUBE	<input checked="" type="checkbox"/> SPLIT SPOON	<input type="checkbox"/> BULK	<input checked="" type="checkbox"/> NO RECOVERY		<input type="checkbox"/> CORE			
BACKFILL TYPE		<input checked="" type="checkbox"/> BENTONITE	<input type="checkbox"/> GRAVEL	<input type="checkbox"/> SLOUGH	<input type="checkbox"/> GROUT	<input checked="" type="checkbox"/> CUTTINGS		<input type="checkbox"/> SAND			
DEPTH (m)	USC	SOIL SYMBOL		SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE #	SPT (N)	PENETRATION TESTS		COMMENTS	ELEVATION
								* Becker * ◇ Dynamic Cone ◇ ◆ SPT (Standard Pen Test) ◆ (Blows/300mm) 0 20 40 60 80 100 ■ Total Unit Wt ■ (kN/m³) 16 17 18 19 20 21 Plastic MC Liquid 20 40 60 80 100			
15	SA			GRAVEL, sandy, trace silt							317
16	GRSA			- yellowish orange - fine grained to medium grained sand, sub-rounded - sub-angular gravel, >0.5 cm to 2 cm - clast supported							316
17				END OF DRILLING at 16.77 m in permafrost (refusal)							315
18				MW09-22 install: - Screen interval: 1.22 m - 4.27 m - Screen type: 10-Slot 2" PVC SCHED 40 - Filter pack interval: 0.92 m - 4.27 m - Bentonite seal from ground surface to 0.92 m - WL: 4.845 mTPVC (22-Jul-09, 8:33:00 AM)							314
19				Thermistor install: - 1" PVC pipe SCHED 40 - Tip at 16.77 m below ground surface							313
20											312
21											311
22											310
23											309
24											308
25											307
26											306
27											305
28											304
29											303
30											



LOGGED BY: Marc Lavigne	COMPLETION DEPTH: 16.23 m
REVIEWED BY: Alex Knop	COMPLETION DATE: 7/17/09
PROJECT ENGINEER: Ken Skaffeld	Page 2 of 2

PROJECT: Mt. Nansen Mine Closure				CLIENT: Yukon Government - EMR				TESTHOLE NO: GT09-03					
LOCATION: Tailings Dam, North Terrace N 2,097,213.3 E 118,722.8								PROJECT NO.: 112359					
CONTRACTOR: Geotech Drilling Ltd.				METHOD: Geoprobe 8040DT, Air Rotary - 114 mmELEVATION (m): 1092.33									
SAMPLE TYPE		GRAB		SHELBY TUBE		SPLIT SPOON		BULK		NO RECOVERY		CORE	
BACKFILL TYPE		BENTONITE		GRAVEL		SLOUGH		GROUT		CUTTINGS		SAND	

DEPTH (m)	USC	SOIL SYMBOL	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE #	SPT (N)	PENETRATION TESTS		COMMENTS	ELEVATION
							Becker	Dynamic Cone		
◆ SPT (Standard Pen Test) ◆ (Blows/300mm)										
■ Total Unit Wt (kN/m²)										
16 17 18 19 20 21										
Plastic MC Liquid										
20 40 60 80 100										

0			SAND and GRAVEL(Fill), trace silt - dark brown - moist, loose - medium grained sand, sub-angular - sub-angular gravel, 0.5 cm to <1.5 cm - clast supported - staining on gravel			4-5-4	◆			332
1	FI									
2			SAND (Aeolian), trace silt, trace gravel - orange-brown - moist with dry lenses, loose to compact - fine grained to medium grained sand, sub-rounded - sub-angular gravel, >0.5 cm to < 2.5 cm - matrix supported	S-1						331
3				S-2		4-5-5	◆			330
4	SA			S-3		3-4-5	◆			329
5			- some gravel below 5.33 m below ground surface							328
6			- trace gravel below 6.10 m below ground surface	S-4		6-7-7	◆			327
7			- some gravel below 7.32 m below ground surface							326
8				S-5		4-7-5	◆			325
9	GRSA		SAND and GRAVEL, trace silt - light brown-orange - moist, compact - medium grained sand, sub-rounded - sub-angular gravel, >0.5 cm to 2 cm - iron staining on gravel							324
10	SA		SAND, trace gravel, trace silt (Aeolian) - orange-brown - moist, compact - medium grained sand, sub-rounded - sub-rounded gravel, 1 cm to 1.5 cm - matrix supported	S-6		3-7-9	◆			323
11	GRSA			S-7		6-8-4	◆			322
12			SAND and GRAVEL, trace silt SAND, trace gravel, trace silt							321
13	SA		- some gravel below 12.19 m below ground surface	S-8		4-5-10	◆			320
14				S-9		3-7-2	◆			319
15	GRSA		SAND and GRAVEL, trace silt - coarsening downward sequence							

LOG OF TEST HOLE 112359 BOREHOLE LOGS OCT 5 2009 RDM.GPJ LUMA WINN.GDT 10/6/09

AECOM

LOGGED BY: Marc Lavigne
REVIEWED BY: Alex Knop
PROJECT ENGINEER: Ken Skaffeld


COMPLETION DEPTH: 19.81 m
COMPLETION DATE: 7/19/09

Page 1 of 2

LOG OF TEST HOLE 112359 BOREHOLE LOGS OCT 5 2009 RDM.GPJ UMA WINN.GDT 10/6/09

PROJECT: Mt. Nansen Mine Closure				CLIENT: Yukon Government - EMR				TESTHOLE NO: GT09-03					
LOCATION: Tailings Dam, North Terrace N 2,097,213.3 E 118,722.8								PROJECT NO.: 112359					
CONTRACTOR: Geotech Drilling Ltd.				METHOD: Geoprobe 8040DT, Air Rotary - 114 mm								ELEVATION (m): 1092.33	
SAMPLE TYPE		<input checked="" type="checkbox"/> GRAB		<input type="checkbox"/> SHELBY TUBE		<input checked="" type="checkbox"/> SPLIT SPOON		<input type="checkbox"/> BULK		<input type="checkbox"/> NO RECOVERY		<input type="checkbox"/> CORE	
BACKFILL TYPE		<input checked="" type="checkbox"/> BENTONITE		<input type="checkbox"/> GRAVEL		<input type="checkbox"/> SLOUGH		<input type="checkbox"/> GROUT		<input type="checkbox"/> CUTTINGS		<input type="checkbox"/> SAND	

DEPTH (m)	USC	SOIL SYMBOL	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE #	SPT (N)	PENETRATION TESTS		COMMENTS	ELEVATION
							* Becker *	◇ Dynamic Cone ◇		
15	GRSA		GRAVEL, sandy, trace silt - coarsening downward sequence	<input checked="" type="checkbox"/>	S-10	5-24-16	◆	◆		317
16	GRSA									
17			SAND, some silt, trace gravel - olive grey - very dense - fine grained to medium grained sand, sub-rounded - sub-angular, >0.5 cm to 1 cm - permafrost at 16.52 m below ground surface	<input checked="" type="checkbox"/>	S-11	25-52-34	◆	◆		316
18	SA									315
19										314
20			END OF DRILLING at 19.87 m in permafrost (refusal)							313
21			Thermistor install: - 1" PVC pipe SCHED 40 - Tip at 19.86 m below ground surface							312
22										311
23										310
24										309
25										308
26										307
27										306
28										305
29										304
30										

		LOGGED BY: Marc Lavigne		COMPLETION DEPTH: 19.81 m	
		REVIEWED BY: Alex Knop		COMPLETION DATE: 7/19/09	
		PROJECT ENGINEER: Ken Skaffeld		Page 2 of 2	

LOG OF TEST HOLE 112359 BOREHOLE LOGS OCT 5 2009 RDM.GPJ UMA WINN.GDT 10/6/09

PROJECT: Mt. Nansen Mine Closure				CLIENT: Yukon Government - EMR				TESTHOLE NO: GT09-04																																																																																																																																																																																																									
LOCATION: Seepage Dam Crest N 2,097,202.0 E 118,747.9								PROJECT NO.: 112359																																																																																																																																																																																																									
CONTRACTOR: Geotech Drilling Ltd.				METHOD: Geoprobe 8040DT, Air Rotary - 114 mm				ELEVATION (m): 1080.81																																																																																																																																																																																																									
SAMPLE TYPE		GRAB		SHELBY TUBE		SPLIT SPOON		BULK		NO RECOVERY		CORE																																																																																																																																																																																																					
BACKFILL TYPE		BENTONITE		GRAVEL		SLOUGH		GROUT		CUTTINGS		SAND																																																																																																																																																																																																					
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colspan="14"><div><div>2</div><div>FILL</div><div><div><div></div></div></div><div><div></div></div></div><div>SAND (Native soil), trace to some silt, trace to some organic</div><div><div>- dark grey-brown</div><div>- medium grained to coarse grained sand, sub-rounded</div></div><div>S-3</div><div>14-19-20</div><div><div><div></div></div></div><div><div></div></div><div>327</div><tr><td colspan="14"><div><div>3</div><div>FILL</div><div><div><div></div></div></div><div><div></div></div></div><div>SAND (Native soil), trace to some silt, trace to some organic</div><div><div>- dark grey-brown</div><div>- medium grained to coarse grained sand, sub-rounded</div></div><div>S-4</div><div>31-39-39</div><div><div><div></div></div></div><div><div></div></div><div>326</div><tr><td colspan="14"><div><div>4</div><div>FILL</div><div><div><div></div></div></div><div><div></div></div></div><div>SAND (Native soil), trace to some silt, trace to some organic</div><div><div>- dark grey-brown</div><div>- medium grained to coarse grained sand, sub-rounded</div></div><div>S-5</div><div>14-19-20</div><div><div><div></div></div></div><div><div></div></div><div>325</div><tr><td colspan="14"><div><div>5</div><div>FILL</div><div><div><div></div></div></div><div><div></div></div></div><div>SAND (Native soil), trace to some silt, trace to some organic</div><div><div>- dark grey-brown</div><div>- medium grained to coarse grained sand, sub-rounded</div></div><div>S-6</div><div>31-39-39</div><div><div><div></div></div></div><div><div></div></div><div>324</div><tr><td colspan="14"><div><div>6</div><div>FILL</div><div><div><div></div></div></div><div><div></div></div></div><div>SAND (Native soil), trace to some silt, trace to some organic</div><div><div>- dark grey-brown</div><div>- medium grained to coarse grained sand, sub-rounded</div></div><div>S-7</div><div>31-39-39</div><div><div><div></div></div></div><div><div></div></div><div>323</div><tr><td colspan="14"><div><div>7</div><div>FILL</div><div><div><div></div></div></div><div><div></div></div></div><div>SAND (Native soil), trace to some silt, trace to some organic</div><div><div>- dark grey-brown</div><div>- medium grained to coarse grained sand, sub-rounded</div></div><div>S-8</div><div>31-39-39</div><div><div><div></div></div></div><div><div></div></div><div>322</div><tr><td colspan="14"><div><div>8</div><div>FILL</div><div><div><div></div></div></div><div><div></div></div></div><div>SAND (Native soil), trace to some silt, trace to some organic</div><div><div>- dark grey-brown</div><div>- medium grained to coarse grained sand, sub-rounded</div></div><div>S-9</div><div>31-39-39</div><div><div><div></div></div></div><div><div></div></div><div>321</div><tr><td colspan="14"><div><div>9</div><div>FILL</div><div><div><div></div></div></div><div><div></div></div></div><div>SAND (Native soil), trace to some silt, trace to some organic</div><div><div>- dark grey-brown</div><div>- 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colspan="14"><div><div>12</div><div>FILL</div><div><div><div></div></div></div><div><div></div></div></div><div>SAND (Native soil), trace to some silt, trace to some organic</div><div><div>- dark grey-brown</div><div>- medium grained to coarse grained sand, sub-rounded</div></div><div>S-13</div><div>31-39-39</div><div><div><div></div></div></div><div><div></div></div><div>317</div><tr><td colspan="14"><div><div>13</div><div>FILL</div><div><div><div></div></div></div><div><div></div></div></div><div>SAND (Native soil), trace to some silt, trace to some organic</div><div><div>- dark grey-brown</div><div>- medium grained to coarse grained sand, sub-rounded</div></div><div>S-14</div><div>31-39-39</div><div><div><div></div></div></div><div><div></div></div><div>316</div><tr><td colspan="14"><div><div>14</div><div>FILL</div><div><div><div></div></div></div><div><div></div></div></div><div>SAND (Native soil), trace to some silt, trace to some organic</div><div><div>- dark grey-brown</div><div>- medium grained to coarse grained sand, sub-rounded</div></div><div>S-15</div><div>31-39-39</div><div><div><div></div></div></div><div><div></div></div><div>315</div></td></tr></td></tr></td></tr></td></tr></td></tr></td></tr></td></tr></td></tr></td></tr></td></tr></td></tr></td></tr></td></tr></td></tr>														<div><div>1</div><div>FILL</div><div><div><div></div></div></div><div><div></div></div></div> <div>SAND (Fill), trace to some silt, trace gravel</div> <div><div>- light brown-orange</div><div>- moist, very dense</div><div>- medium grained sand, sub-rounded</div><div>- gravel sub-angular, from 2 cm to >4 cm</div><div>- matrix supported</div><div>- permafrost at 2.8 m below ground surface, -0.3°C, Nbn</div></div> <div>S-2</div> <div>30-40-42</div> <div><div><div></div></div></div> <div><div></div></div> <div>328</div> <tr><td colspan="14"><div><div>2</div><div>FILL</div><div><div><div></div></div></div><div><div></div></div></div><div>SAND (Native soil), trace to some silt, trace to some organic</div><div><div>- dark grey-brown</div><div>- medium grained to coarse grained sand, sub-rounded</div></div><div>S-3</div><div>14-19-20</div><div><div><div></div></div></div><div><div></div></div><div>327</div><tr><td colspan="14"><div><div>3</div><div>FILL</div><div><div><div></div></div></div><div><div></div></div></div><div>SAND (Native soil), trace to some silt, trace to some organic</div><div><div>- dark grey-brown</div><div>- medium grained to coarse grained sand, sub-rounded</div></div><div>S-4</div><div>31-39-39</div><div><div><div></div></div></div><div><div></div></div><div>326</div><tr><td colspan="14"><div><div>4</div><div>FILL</div><div><div><div></div></div></div><div><div></div></div></div><div>SAND (Native soil), trace to some silt, trace to some organic</div><div><div>- dark grey-brown</div><div>- medium grained to coarse grained sand, 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LOGGED BY: Marc Lavigne

REVIEWED BY: Alex Knop

PROJECT ENGINEER: Ken Skaffield

COMPLETION DEPTH: 16.23 m

COMPLETION DATE: 7/16/09

Page 1 of 2

AECOM

LOGGED BY: Marc Lavigne

COMPLETION DEPTH: 16.23 m

REVIEWED BY: Alex Knop

COMPLETION DATE: 7/16/09

PROJECT ENGINEER: Ken Skaffeld

Page 1 of 2

PROJECT: Mt. Nansen Mine Closure				CLIENT: Yukon Government - EMR				TESTHOLE NO: GT09-04					
LOCATION: Seepage Dam Crest N 2,097,202.0 E 118,747.9								PROJECT NO.: 112359					
CONTRACTOR: Geotech Drilling Ltd.				METHOD: Geoprobe 8040DT, Air Rotary - 114 mm									
SAMPLE TYPE		<input checked="" type="checkbox"/> GRAB		<input type="checkbox"/> SHELBY TUBE		<input checked="" type="checkbox"/> SPLIT SPOON		<input checked="" type="checkbox"/> BULK		<input checked="" type="checkbox"/> NO RECOVERY		<input checked="" type="checkbox"/> CORE	
BACKFILL TYPE		<input checked="" type="checkbox"/> BENTONITE		<input type="checkbox"/> GRAVEL		<input type="checkbox"/> SLOUGH		<input checked="" type="checkbox"/> GROUT		<input checked="" type="checkbox"/> CUTTINGS		<input type="checkbox"/> SAND	

DEPTH (m)	USC	SOIL SYMBOL	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE #	SPT (N)	PENETRATION TESTS		COMMENTS	ELEVATION
							* Becker *	◇ Dynamic Cone ◇		
15	SA		<p>SAND and GRAVEL, trace of silt</p> <ul style="list-style-type: none"> - dark grey-brown - medium sand, sub-rounded - gravel sub-angular, from 0.5 cm to > 4 cm - silt content increases with depth - permafrost temperature: 0.9 oC description: Nbn <p>END OF DRILLING at 16.23 m in permafrost (refusal)</p> <p>MW09-20 install:</p> <ul style="list-style-type: none"> - Screen interval: 1.37 m - 2.90 m - Screen type: 10-Slot 2" PVC SCHED 40 - Filter pack interval: 1.10 m - 2.90 m - Bentonite seal from ground surface to 1.10 m - WL: Dry (22-Jul-09, 8:25:00 AM) <p>Thermistor install:</p> <ul style="list-style-type: none"> - 1" PVC pipe SCHED 40 - Tip at 16.10 m below ground surface 	S-10	67--	<p>◆ SPT (Standard Pen Test) ◆ (Blows/300mm)</p> <p>■ Total Unit Wt (kN/m³)</p> <p>Plastic MC Liquid</p>		>>>	314	
16	GRSA					313				
17			312							
18			311							
19			310							
20			309							
21			308							
22			307							
23			306							
24			305							
25			304							
26			303							
27			302							
28			301							
29			300							
30										

		LOGGED BY: Marc Lavigne		COMPLETION DEPTH: 16.23 m	
		REVIEWED BY: Alex Knop		COMPLETION DATE: 7/16/09	
		PROJECT ENGINEER: Ken Skaffeld		Page 2 of 2	

PROJECT: Mt. Nansen Mine Closure				CLIENT: Yukon Government - EMR				TESTHOLE NO: GT09-05			
LOCATION: North terrace, near Seepage Dam N 2,097,214.2 E 118,738.1								PROJECT NO.: 112359			
CONTRACTOR: Geotech Drilling Ltd.				METHOD: Geoprobe 8040DT, Air Rotary - 114 mmELEVATION (m): 1089.60							
SAMPLE TYPE		GRAB	SHELBY TUBE	SPLIT SPOON	BULK	NO RECOVERY	CORE				
BACKFILL TYPE		BENTONITE	GRAVEL	SLOUGH	GROUT	CUTTINGS	SAND				

DEPTH (m)	USC	SOIL SYMBOL	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE #	SPT (N)	PENETRATION TESTS		COMMENTS	ELEVATION
							Becker	Dynamic Cone		
SPT (Standard Pen Test) (Blows/300mm)										
Total Unit Wt (kN/m³)										
Plastic MC Liquid										

0			SAND, trace silt, trace gravel (Aeolian) - Medium brown - moist, loose - fine grained to medium grained sand, sub-rounded - gravel sub-angular, >0.5 cm to 2 cm			1-3-3				332
1										331
2					S-1					330
3			- fine sand content decreases with depth - coarsening downward sequence		S-2	3-4-4				329
4										328
5			- moist with dry lenses		S-3	4-9-8				327
6										326
7			- coarsening downward sequence		S-4	5-8-10				325
8	SA		- some dark brown sand between 4.1 and 4.4 m below ground surface - moist, dense		S-5	10-18-18				324
9			- some gravel below 8.38 m below ground surface							323
10			- coarsening downward sequence - wet, loose		S-6	2-3-5				322
11					S-7	5-9-23				321
12			- Permafrost at approximately 11.28 m below ground surface, Nbn							320
13					S-8	23-32-41				319
14	GRSA		SAND AND GRAVEL, trace silt (description from dill cuttings)							318
15	SA		- SAND, some gravel, trace silt (description from dill cuttings)							

LOG OF TEST HOLE 112359 BOREHOLE LOGS OCT 5 2009 RDM.GPJ UMA WINN.GDT 10/6/09

LOGGED BY: Marc Lavigne

REVIEWED BY: Alex Knop

PROJECT ENGINEER: Ken Skaffeld

COMPLETION DEPTH: 19.81 m

COMPLETION DATE: 7/21/09


Page 1 of 2

AECOM

LOG OF TEST HOLE 112359 BOREHOLE LOGS OCT 5 2009 RDM.GPJ UMA WINN.GDT 10/6/09

PROJECT: Mt. Nansen Mine Closure				CLIENT: Yukon Government - EMR				TESTHOLE NO: GT09-05					
LOCATION: North terrace, near Seepage Dam N 2,097,214.2 E 118,738.1								PROJECT NO.: 112359					
CONTRACTOR: Geotech Drilling Ltd.				METHOD: Geoprobe 8040DT, Air Rotary - 114 mm				ELEVATION (m): 1089.60					
SAMPLE TYPE		<input checked="" type="checkbox"/> GRAB		<input type="checkbox"/> SHELBY TUBE		<input checked="" type="checkbox"/> SPLIT SPOON		<input type="checkbox"/> BULK		<input type="checkbox"/> NO RECOVERY		<input type="checkbox"/> CORE	
BACKFILL TYPE		<input checked="" type="checkbox"/> BENTONITE		<input type="checkbox"/> GRAVEL		<input type="checkbox"/> SLOUGH		<input type="checkbox"/> GROUT		<input type="checkbox"/> CUTTINGS		<input type="checkbox"/> SAND	

DEPTH (m)	USC	SOIL SYMBOL	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE #	SPT (N)	PENETRATION TESTS		COMMENTS	ELEVATION
							* Becker *	◇ Dynamic Cone ◇		
15			SILT, some sand, trace gravel, trace organic (description from drill cuttings) - sand content increases with depth							317
16			SAND, trace to some silt, trace gravel - dark grey - dense							316
17		SA	- fine grained to medium grained sand, sub-rounded - sub-angular gravel, < 1 cm - matrix supported - lenses of organic material, < 2 cm	<input checked="" type="checkbox"/>	S-9	21-26-23				315
18										314
19		GRSA	SAND and GRAVEL, trace silt - gravel content increases with depth - sub-angular gravel, < 2 cm - coarse sand, sub-rounded							313
20			END OF DRILLING at 19.87 m in permafrost (refusal)							312
21			MW09-24 install: - Screen interval: 8.23 m - 11.28 m - Screen type: 10-Slot 2" PVC SCHED 40 - Filter pack interval: 7.82 m - 11.28 m - Bentonite seal from 0.61 m to 7.92 m - Drill cutting from ground surface - WL: 9.774 mTPVC (22-Jul-09, 8:06:00 AM)							311
22			Thermistor install: - 1" PVC pipe SCHED 40 - Tip at 19.86 m below ground surface							310
23										309
24										308
25										307
26										306
27										305
28										304
29										303
30										

		LOGGED BY: Marc Lavigne		COMPLETION DEPTH: 19.81 m	
		REVIEWED BY: Alex Knop		COMPLETION DATE: 7/21/09	
		PROJECT ENGINEER: Ken Skaffeld		Page 2 of 2	

PROJECT: Mt. Nansen Mine Closure				CLIENT: Yukon Government - EMR				TESTHOLE NO: MW09-01					
LOCATION: South side of tailings empondment								PROJECT NO.: 112359					
CONTRACTOR: Geotech Drilling Ltd.				METHOD: Geoprobe 8040DT, Direct Push - 114 mm				ELEVATION (m): 1103 (est.)					
SAMPLE TYPE		GRAB		SHELBY TUBE		SPLIT SPOON		BULK		NO RECOVERY		CORE	
BACKFILL TYPE		BENTONITE		GRAVEL		SLOUGH		GROUT		CUTTINGS		SAND	
<div><div>DEPTH (m)</div><div>USC</div><div>SOIL SYMBOL</div><div>SOIL DESCRIPTION</div><div>SAMPLE TYPE</div><div>SAMPLE #</div><div>SPT (N)</div><div><div>PENETRATION TESTS</div><div>* Becker *</div><div>◇ Dynamic Cone ◇</div><div>◆ SPT (Standard Pen Test) ◆</div><div>(Blows/300mm)</div><div>0 20 40 60 80 100</div><div>Total Unit Wt (kN/m³)</div><div>16 17 18 19 20 21</div><div>Plastic MC Liquid</div><div>20 40 60 80 100</div></div></div> <div>COMMENTS</div> <div>DEPTH</div>													
0			SAND TAILINGS FILL										
-1	FILL		- dark yellowish orange										1
			- moist, loose, non-cohesive										
			- fine grained sand, sub-rounded										
2	SA		SAND TAILINGS										2
			- dark reddish brown										
			- wet, very loose, non-cohesive, non-plastic, rapid dilatancy										
			- fine grained sand, sub-rounded										
3			SILTY SAND TAILINGS										3
			- dark yellow brown										
			- wet, loose, non-cohesive, non-plastic, rapid dilatancy										
			- fine grained sand		S-1								4
5			CLAY TAILINGS										5
			- dark yellow brown										
			- wet, medium stiff, cohesive, medium plasticity, slow dilatancy										
			- minor silt, fining downward and finely laminated		S-2								6
6													
7	CI												7
8			- damp from 7.62 m to 9.14 m										8
9					S-3								9
10	SM		SILTY SAND										10
	SA		- brown										
			- wet, very loose, non-cohesive, non-plastic, rapid dilatancy										
			- fine grained sand, organic odour, twigs and organic matter embedded, sharp contact with overlying clay										
	SA		- encountered heaving sands at approx. 10 m; switched to cable tool drilling										
11			SAND										11
			- brown										
			- wet, very loose, non-cohesive, non-plastic										
			- coarse subrounded sand with minor angular gravel inferred to be colluvium										
12			SAND										12
			- brown grading to black below 10.21 m										
			- wet, dense, non-cohesive, non-plastic										
			- coarse sand with increasing silt content downhole, organic odour										
13			END OF DRILLING at 10.66 m										13
14			MW09-01 installation:										14
			- Screen interval: 9.45 m - 9.75 m										
			- Screen type: 10-Slot 1.25" PVC SCHED 40										
			- Filter pack interval: 9.14 m - 9.75 m										
			- Bentonite seal: 8.53 m - 9.14 m										
			- WL: 7.648 m bTOP (8-Jul-09, 8:00 AM)										
15													

AECOM

LOGGED BY: Ryan Mills

REVIEWED BY: Marc Lavigne

PROJECT ENGINEER: Ken Skafffeld


COMPLETION DEPTH: 10.67 m

COMPLETION DATE: 7/7/09

Page 1 of 1

PROJECT: Mt. Nansen Mine Closure				CLIENT: Yukon Government - EMR				TESTHOLE NO: MW09-02					
LOCATION: South side of tailings empondment								PROJECT NO.: 112359					
CONTRACTOR: Geotech Drilling Ltd.				METHOD: Geoprobe 8040DT, Direct Push - 114 mm									
SAMPLE TYPE		<input checked="" type="checkbox"/> GRAB		<input type="checkbox"/> SHELBY TUBE		<input type="checkbox"/> SPLIT SPOON		<input type="checkbox"/> BULK		<input type="checkbox"/> NO RECOVERY		<input type="checkbox"/> CORE	
BACKFILL TYPE		<input checked="" type="checkbox"/> BENTONITE		<input type="checkbox"/> GRAVEL		<input type="checkbox"/> SLOUGH		<input type="checkbox"/> GROUT		<input type="checkbox"/> CUTTINGS		<input type="checkbox"/> SAND	

DEPTH (m)	USC	SOIL SYMBOL	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE #	SPT (N)	PENETRATION TESTS		COMMENTS	DEPTH
							* Becker *	◇ Dynamic Cone ◇		
0			SAND TAILINGS FILL - dark yellowish orange - moist, loose, non-cohesive - fine grained sand, sub-rounded				0 20 40 60 80 100	0 20 40 60 80 100		0
1	FILL									1
2	SA		SAND TAILINGS - dark reddish brown - wet, very loose, non-cohesive, non-plastic, rapid dilatancy - fine grained sand, sub-rounded							2
3										3
4	SM		SILTY SAND TAILINGS - dark yellow brown - wet, loose, non-cohesive, non-plastic, rapid dilatancy - fine grained sand		S-1					4
5			END OF DRILLING at 4.57 m							5
6			MW09-02 installation: - Screen interval: 3.05 m - 4.57 m - Screen type: 10-Slot 2" PVC SCHED 40 wrapped in 5 micron Nitex cloth - Filter pack interval: Naturally developed - Bentonite seal: None - WL: 3.211 m bTOP (9-Jul-09, 11:35 AM)							6
7										7
8										8
9										9
10										10
11										11
12										12
13										13
14										14
15										15


		LOGGED BY: Ryan Mills	COMPLETION DEPTH: 4.57 m
		REVIEWED BY: Marc Lavigne	COMPLETION DATE: 7/7/09
		PROJECT ENGINEER: Ken Skaffeld	Page 1 of 1

PROJECT: Mt. Nansen Mine Closure				CLIENT: Yukon Government - EMR				TESTHOLE NO: MW09-03					
LOCATION: South side of tailings empoundment N 2,097,195.3 E 118,691.9								PROJECT NO.: 112359					
CONTRACTOR: Geotech Drilling Ltd.				METHOD: Geoprobe 8040DT, Direct Push - 114 mm				ELEVATION (m): 1103 (est.)					
SAMPLE TYPE		GRAB		SHELBY TUBE		SPLIT SPOON		BULK		NO RECOVERY		CORE	
BACKFILL TYPE		BENTONITE		GRAVEL		SLOUGH		GROUT		CUTTINGS		SAND	
PENETRATION TESTS													
* Becker *													
◇ Dynamic Cone ◇													
◆ SPT (Standard Pen Test) ◆													
(Blows/300mm)													
0 20 40 60 80 100													
■ Total Unit Wt (kN/m³)													
16 17 18 19 20 21													
Plastic MC Liquid													
20 40 60 80 100													

PROJECT: Mt. Nansen Mine Closure				CLIENT: Yukon Government - EMR				TESTHOLE NO: MW09-04					
LOCATION: South side of tailings empondment								PROJECT NO.: 112359					
CONTRACTOR: Geotech Drilling Ltd.				METHOD: Geoprobe 8040DT, Direct Push - 114 mm									
SAMPLE TYPE		<input checked="" type="checkbox"/> GRAB	<input type="checkbox"/> SHELBY TUBE	<input type="checkbox"/> SPLIT SPOON	<input type="checkbox"/> BULK	<input type="checkbox"/> NO RECOVERY		<input type="checkbox"/> CORE					
BACKFILL TYPE		<input checked="" type="checkbox"/> BENTONITE	<input type="checkbox"/> GRAVEL	<input type="checkbox"/> SLOUGH	<input type="checkbox"/> GROUT	<input type="checkbox"/> CUTTINGS		<input type="checkbox"/> SAND					
DEPTH (m)	USC	SOIL SYMBOL	SOIL DESCRIPTION				SAMPLE TYPE	SAMPLE #	SPT (N)	PENETRATION TESTS * Becker * ◇ Dynamic Cone ◇ ◆ SPT (Standard Pen Test) ◆ (Blows/300mm) 0 20 40 60 80 100 ■ Total Unit Wt (kN/m³) 16 17 18 19 20 21 Plastic MC Liquid	COMMENTS	DEPTH	
0		FILL	SAND TAILINGS FILL - dark yellowish orange - moist, loose, non-cohesive, non-plastic, slow dilatency - fine grained sand, sub-rounded										
1			SILTY SAND TAILINGS - dark yellowish orange - moist becoming wet at 2.31 m, loose, non-cohesive, non-plastic, slow dilatency - fine grained sand, sub-rounded										1
2		SM											2
3													3
4		SASI SICL	SANDY SILT TAILINGS - dark yellowish orange - wet, medium dense, non-cohesive, non-plastic, slow dilatency - fine grained sand, sub-rounded										4
5			SILTY CLAY TAILINGS - dark yellow brown - wet, soft, cohesive, medium plasticity, slow dilatency										5
6		SM	SILTY SAND - dark yellow brown - wet, medium dense, non-cohesive, non-plastic, rapid dilatency - fine grained sand, sub-rounded										6
7			END OF DRILLING at 7.01 m										7
8			MW09-04 installation: - Screen interval: 5.49 m - 7.01 m - Screen type: 10-Slot 2" PVC SCHED 40 wrapped in 5 micron Nitex cloth - Filter pack interval: Naturally developed - Bentonite seal: None - WL: 3.810 m bTOP (22-Jul-09)										8
9													9
10													10
11													11
12													12
13													13
14													14
15													15


PROJECT: Mt. Nansen Mine Closure				CLIENT: Yukon Government - EMR				TESTHOLE NO: MW09-05					
LOCATION: North side of tailings empoundment N 2,097,224.9 E 2,097,224.9								PROJECT NO.: 112359					
CONTRACTOR: Geotech Drilling Ltd.				METHOD: Geoprobe 8040DT, Direct Push - 114 mm									
SAMPLE TYPE		<input checked="" type="checkbox"/> GRAB		<input type="checkbox"/> SHELBY TUBE		<input checked="" type="checkbox"/> SPLIT SPOON		<input type="checkbox"/> BULK		<input type="checkbox"/> NO RECOVERY		<input type="checkbox"/> CORE	
BACKFILL TYPE		<input checked="" type="checkbox"/> BENTONITE		<input type="checkbox"/> GRAVEL		<input type="checkbox"/> SLOUGH		<input type="checkbox"/> GROUT		<input type="checkbox"/> CUTTINGS		<input type="checkbox"/> SAND	

DEPTH (m)	USC	SOIL SYMBOL	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE #	SPT (N)	PENETRATION TESTS		COMMENTS	DEPTH
							* Becker *	◇ Dynamic Cone ◇		
0			SILTY CLAY TAILINGS - dark yellow orange - wet, soft, cohesive, medium plasticity, rapid dilatancy				SPT (Standard Pen Test) (Blows/300mm) 0 20 40 60 80 100 Total Unit Wt (kN/m³) 16 17 18 19 20 21 Plastic MC Liquid			0
1	SICL									1
2	SM		SILTY SAND TAILINGS - dark yellowish brown - wet, loose, non-cohesive, non-plastic, rapid dilatancy - fine to medium grained sand, sub-rounded							2
3			CLAY TAILINGS - dark yellow brown - wet, very soft, cohesive, high plasticity, rapid dilatancy							3
4	CL									4
5										5
6	OR SM SA		ORGANICS - dark brown - wet - primarily moss SILTY SAND - dark brown - moist, dense, non cohesive, non plastic, slow dilatancy - fine to medium sand, sub-rounded, occasional angular clast up to 10 mm - inferred to be native aeolian sand SAND - brown - moist, loose, non-cohesive, non-plastic, slow dilatancy - medium sand with minor silt inferred to be native aeolian sand with developed soil horizon END OF DRILLING at 6.71 m MW09-05 installation: - Screen interval: 5.79 m - 6.70 m - Screen type: 10-Slot 2" PVC SCHED 40 - Filter pack interval: 5.49 m - 6.70 m - Bentonite seal: 5.18 m - 5.79 m - WL: Dry (22-Jul-09)						6	
7										7
8										8
9										9
10										10
11										11
12										12
13										13
14										14
15										15

	LOGGED BY: Ryan Mills	COMPLETION DEPTH: 6.71 m
	REVIEWED BY: Marc Lavigne	COMPLETION DATE: 7/9/09
	PROJECT ENGINEER: Ken Skaffeld	Page 1 of 1


PROJECT: Mt. Nansen Mine Closure				CLIENT: Yukon Government - EMR				TESTHOLE NO: MW09-06					
LOCATION: North side of tailings empoundment N 2,097,224.9 E 2,097,224.9								PROJECT NO.: 112359					
CONTRACTOR: Geotech Drilling Ltd.				METHOD: Geoprobe 8040DT, Direct Push - 114 mm								ELEVATION (m): 1103 (est.)	
SAMPLE TYPE		<input checked="" type="checkbox"/> GRAB	<input type="checkbox"/> SHELBY TUBE	<input checked="" type="checkbox"/> SPLIT SPOON	<input type="checkbox"/> BULK	<input checked="" type="checkbox"/> NO RECOVERY		<input type="checkbox"/> CORE					
BACKFILL TYPE		<input checked="" type="checkbox"/> BENTONITE	<input type="checkbox"/> GRAVEL	<input type="checkbox"/> SLOUGH	<input type="checkbox"/> GROUT	<input checked="" type="checkbox"/> CUTTINGS		<input type="checkbox"/> SAND					

DEPTH (m)	USC	SOIL SYMBOL	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE #	SPT (N)	PENETRATION TESTS		COMMENTS	DEPTH
							* Becker *	◇ Dynamic Cone ◇		
							◆ SPT (Standard Pen Test) ◆ (Blows/300mm) 0 20 40 60 80 100 ■ Total Unit Wt (kN/m³) 16 17 18 19 20 21 Plastic MC Liquid			
0			SILTY CLAY TAILINGS - dark yellow orange - wet, soft, cohesive, medium plasticity, rapid dilatancy							0
1		SICL								1
2		SM	SILTY SAND TAILINGS - dark yellowish brown - wet, loose, non-cohesive, non-plastic, rapid dilatancy - fine to medium grained sand, sub-rounded							2
3		CL	CLAY TAILINGS - dark yellow brown - wet, very soft, cohesive, high plasticity, rapid dilatancy							3
4										4
5			END OF DRILLING at 4.57 m							5
6			MW09-06 installation: - Screen interval: 1.52 m - 4.57 m - Screen type: 10-Slot 2" PVC SCHED 40 wrapped in 5 micron Nitex cloth - Filter pack interval: Naturally developed - Bentonite seal: None - WL: 2.95 m bTOP (22-Jul-09)							6
7										7
8										8
9										9
10										10
11										11
12										12
13										13
14										14
15										15

		LOGGED BY: Ryan Mills	COMPLETION DEPTH: 4.57 m
		REVIEWED BY: Marc Lavigne	COMPLETION DATE: 7/10/09
		PROJECT ENGINEER: Ken Skaffeld	Page 1 of 1

PROJECT: Mt. Nansen Mine Closure				CLIENT: Yukon Government - EMR				TESTHOLE NO: MW09-07					
LOCATION: North side of tailings empondment								PROJECT NO.: 112359					
CONTRACTOR: Geotech Drilling Ltd.				METHOD: Geoprobe 8040DT, Direct Push - 114 mm				ELEVATION (m): 1103 (est.)					
SAMPLE TYPE		GRAB		SHELBY TUBE		SPLIT SPOON		BULK		NO RECOVERY		CORE	
BACKFILL TYPE		BENTONITE		GRAVEL		SLOUGH		GROUT		CUTTINGS		SAND	


DEPTH (m)	USC	SOIL SYMBOL	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE #	SPT (N)	PENETRATION TESTS		COMMENTS	DEPTH
							* Becker *	◇ Dynamic Cone ◇		
0			SILTY SAND FILL - brown - dry, loose, non-cohesive, non-plastic - native fill used for drill pad construction							
1	SM									
2	SM									
3	SM OR SA CL		SILTY SAND TAILINGS - dark yellowish brown - moist, medium dense, non-cohesive, non-plastic - fine to medium grained sand, sub-rounded							
4	SM		ORGANICS - dark brown to black - moist - fibrous roots and moss becoming more decomposed with depth							
5			SAND - dark brown - moist, dense, non-cohesive, non-plastic - fine sand, sub-rounded, inferred to be developing soil horizon within native aeolian sand							
6			CLAY - light grey - moist, very dense, cohesive, non-plastic - clay sized volcanic ash sediments							
7			SILTY SAND - dark grey to black - moist, dense, cohesive, non-plastic - fine sand, sub-rounded, organic rich, grading coarser with depth							
8			END OF DRILLING at 4.57 m MW09-07 installation: - Screen interval: 2.31 m - 2.57 m - Screen type: 10-Slot 2" PVC SCHED 40 wrapped in 5 micron Nitex cloth - Filter pack interval: 2.00 m - 2.57 m - Bentonite seal: None - WL: Dry (22-Jul-09)							
9										
10										
11										
12										
13										
14										
15										

	LOGGED BY: Ryan Mills	COMPLETION DEPTH: 4.57 m
	REVIEWED BY: Marc Lavigne	COMPLETION DATE: 7/8/09
	PROJECT ENGINEER: Ken Skaffeld	Page 1 of 1

PROJECT: Mt. Nansen Mine Closure				CLIENT: Yukon Government - EMR				TESTHOLE NO: MW09-08																																																																																																																																																																																																																																																																																																																											
LOCATION: Downstream of Seepage Dam N 2,097,199.8 E 118,756.2								PROJECT NO.: 112359																																																																																																																																																																																																																																																																																																																											
CONTRACTOR: Geotech Drilling Ltd.				METHOD: Geoprobe 8040DT, Air Rotary - 114 mm				ELEVATION (m): 1076.03																																																																																																																																																																																																																																																																																																																											
SAMPLE TYPE		<input checked="" type="checkbox"/> GRAB		<input type="checkbox"/> SHELBY TUBE		<input checked="" type="checkbox"/> SPLIT SPOON		<input type="checkbox"/> BULK		<input type="checkbox"/> NO RECOVERY		<input type="checkbox"/> CORE																																																																																																																																																																																																																																																																																																																							
BACKFILL TYPE		<input checked="" type="checkbox"/> BENTONITE		<input type="checkbox"/> GRAVEL		<input type="checkbox"/> SLOUGH		<input type="checkbox"/> GROUT		<input type="checkbox"/> CUTTINGS		<input type="checkbox"/> SAND																																																																																																																																																																																																																																																																																																																							
<table><thead><tr><th rowspan="2">DEPTH (m)</th><th rowspan="2">USC</th><th rowspan="2">SOIL SYMBOL</th><th rowspan="2">SOIL DESCRIPTION</th><th rowspan="2">SAMPLE TYPE</th><th rowspan="2">SAMPLE #</th><th rowspan="2">SPT (N)</th><th colspan="2">PENETRATION TESTS</th><th rowspan="2">COMMENTS</th><th rowspan="2">ELEVATION</th></tr><tr><th><div><div><div>* Becker *</div><div>◇ Dynamic Cone ◇</div><div>◆ SPT (Standard Pen Test) ◆</div><div>(Blows/300mm)</div><div>0 20 40 60 80 100</div></div></div><div><div>Total Unit Wt</div><div>(kN/m³)</div><div>16 17 18 19 20 21</div><div>Plastic MC Liquid</div><div>20 40 60 80 100</div></div></th><th></th></tr></thead><tbody><tr><td>0</td><td>GRSA</td><td></td><td>SAND and GRAVEL, trace silt - orange-brown - moist, loose</td><td></td><td></td><td></td><td></td><td></td><td></td><td>327</td></tr><tr><td>1</td><td></td><td></td><td>- medium grained sand, sub-rounded</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td>- gravel sub-angular to sub-angular, 0.5 cm to 5 cm</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td>- clast supported</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td>- presence of organic (roots, grass)</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>2</td><td>SA</td><td></td><td>SAND, some silt, some organic - dark grey - moist to wet, loose</td><td></td><td></td><td></td><td></td><td></td><td></td><td>326</td></tr><tr><td></td><td></td><td></td><td>- fine grained to medium grained sand</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td>- presence of roots</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>3</td><td>GRSA</td><td></td><td>SAND and GRAVEL, trace silt - dark yellowish brown</td><td></td><td></td><td></td><td></td><td></td><td></td><td>325</td></tr><tr><td></td><td>SA</td><td></td><td>- medium grained sand, sub-rounded</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td>- sub-angular gravel, 0.5 cm to > 8 cm</td><td></td><td></td><td></td><td></td><td></td><td></td><td>324</td></tr><tr><td></td><td></td><td></td><td>- clast supported</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td>- permafrost at 3.05 m below ground surface, Nbn</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>5</td><td></td><td></td><td>SAND, trace silt - dark brown and grey - very dense</td><td></td><td></td><td></td><td></td><td></td><td></td><td>323</td></tr><tr><td></td><td></td><td></td><td>- medium grained sand</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td>- presence of wood debris</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td>- permafrost, Nbn</td><td></td><td></td><td></td><td></td><td></td><td></td><td>322</td></tr><tr><td>6</td><td></td><td></td><td>END OF DRILLING at 3.66 m in permafrost (refusal)</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>7</td><td></td><td></td><td>MW09-08 install: - Screen interval: 1.52 m - 3.05 m - Screen type: 10-Slot 2" PVC SCHED 40 - Filter pack interval: 1.22 m - 3.58 m - Bentonite seal from ground surface to 1.22 m - WL: 1.028 mTPVC (22-Jul-09, 08:28:00 AM)</td><td></td><td></td><td></td><td></td><td></td><td></td><td>321</td></tr><tr><td>8</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>320</td></tr><tr><td>9</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>319</td></tr><tr><td>10</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>318</td></tr><tr><td>11</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>317</td></tr><tr><td>12</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>316</td></tr><tr><td>13</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>315</td></tr><tr><td>14</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>314</td></tr><tr><td>15</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></tbody></table>														DEPTH (m)	USC	SOIL SYMBOL	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE #	SPT (N)	PENETRATION TESTS		COMMENTS	ELEVATION	<div><div><div>* Becker *</div><div>◇ Dynamic Cone ◇</div><div>◆ SPT (Standard Pen Test) ◆</div><div>(Blows/300mm)</div><div>0 20 40 60 80 100</div></div></div> <div><div>Total Unit Wt</div><div>(kN/m³)</div><div>16 17 18 19 20 21</div><div>Plastic MC Liquid</div><div>20 40 60 80 100</div></div>		0	GRSA		SAND and GRAVEL, trace silt - orange-brown - moist, loose							327	1			- medium grained sand, sub-rounded											- gravel sub-angular to sub-angular, 0.5 cm to 5 cm											- clast supported											- presence of organic (roots, grass)								2	SA		SAND, some silt, some organic - dark grey - moist to wet, loose							326				- fine grained to medium grained sand											- presence of roots								3	GRSA		SAND and GRAVEL, trace silt - dark yellowish brown							325		SA		- medium grained sand, sub-rounded											- sub-angular gravel, 0.5 cm to > 8 cm							324				- clast supported											- permafrost at 3.05 m below ground surface, Nbn								5			SAND, trace silt - dark brown and grey - very dense							323				- medium grained sand											- presence of wood debris											- permafrost, Nbn							322	6			END OF DRILLING at 3.66 m in permafrost (refusal)								7			MW09-08 install: - Screen interval: 1.52 m - 3.05 m - Screen type: 10-Slot 2" PVC SCHED 40 - Filter pack interval: 1.22 m - 3.58 m - Bentonite seal from ground surface to 1.22 m - WL: 1.028 mTPVC (22-Jul-09, 08:28:00 AM)							321	8										320	9										319	10										318	11										317	12										316	13										315	14										314	15										
DEPTH (m)	USC	SOIL SYMBOL	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE #	SPT (N)	PENETRATION TESTS		COMMENTS	ELEVATION																																																																																																																																																																																																																																																																																																																									
							<div><div><div>* Becker *</div><div>◇ Dynamic Cone ◇</div><div>◆ SPT (Standard Pen Test) ◆</div><div>(Blows/300mm)</div><div>0 20 40 60 80 100</div></div></div> <div><div>Total Unit Wt</div><div>(kN/m³)</div><div>16 17 18 19 20 21</div><div>Plastic MC Liquid</div><div>20 40 60 80 100</div></div>																																																																																																																																																																																																																																																																																																																												
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						REVIEWED BY: Ryan Mills		COMPLETION DATE: 7/15/09																																																																																																																																																																																																																																																																																																																											
						PROJECT ENGINEER: Ken Skaffeld		Page 1 of 1																																																																																																																																																																																																																																																																																																																											

PROJECT: Mt. Nansen Mine Closure				CLIENT: Yukon Government - EMR				TESTHOLE NO: MW09-11					
LOCATION: South of Dome Creek and west of Diversion Channel N 2,097,216.6 E 118,706.8				PROJECT NO.: 112359									
CONTRACTOR: Geotech Drilling Ltd.				METHOD: Geoprobe 8040DT, Direct Push - 114 mm				ELEVATION (m): 1102.24					
SAMPLE TYPE		<input checked="" type="checkbox"/> GRAB		<input type="checkbox"/> SHELBY TUBE		<input checked="" type="checkbox"/> SPLIT SPOON		<input type="checkbox"/> BULK		<input type="checkbox"/> NO RECOVERY		<input type="checkbox"/> CORE	
BACKFILL TYPE		<input checked="" type="checkbox"/> BENTONITE		<input type="checkbox"/> GRAVEL		<input type="checkbox"/> SLOUGH		<input type="checkbox"/> GROUT		<input type="checkbox"/> CUTTINGS		<input type="checkbox"/> SAND	


DEPTH (m)	USC	SOIL SYMBOL	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE #	SPT (N)	PENETRATION TESTS		COMMENTS	ELEVATION
							* Becker *	◇ Dynamic Cone ◇		
0			SAND (Aeolian) - grey brown - dry, loose, non-cohesive - uniform fine to medium grained sand, sub-rounded, minor silt				0 20 40 60 80 100 (Blows/300mm) SPT (Standard Pen Test)			335
1										
2	SA		- becoming moist at 1.37 m - medium dense (increasing density with depth), becoming wet at 1.92 m - increasing silt content with depth with medium sand interbeds, thinly bedded - non-cohesive, non-plastic, slow dilatancy							334
3										333
4			- saturated at 3.25 m, dense, sandy silt interbed <1 cm thick - occasional nugget of frozen sand between 3.66 m and 4.11 m		S-1					332
5			- permafrost 4.11 m to 4.22 m, refusal at 4.22 m using direct push drilling method END OF DRILLING at 4.22 m in permafrost (refusal)							331
6			MW09-11 install: - Screen interval: 2.69 m - 4.22 m - Screen type: 10-Slot 2" PVC SCHED 40 - Filter pack interval: 2.39 m - 4.22 m - Bentonite seal from 1.83 m to 2.39 m - Drill cutting from ground surface WL: 4.27 m BTOP (22-Jul-09)							330
7										329
8										328
9										327
10										326
11										325
12										324
13										323
14										322
15										

		LOGGED BY: Ryan Mills	COMPLETION DEPTH: 4.22 m
		REVIEWED BY: Marc Lavigne	COMPLETION DATE: 7/8/09
		PROJECT ENGINEER: Ken Skaffeld	Page 1 of 1

PROJECT: Mt. Nansen Mine Closure				CLIENT: Yukon Government - EMR				TESTHOLE NO: MW09-13																																																																																																																																																																																																																																																																																																
LOCATION: Northeast of Brown-McDade pit N 2,097,531.2 E 118,569.0								PROJECT NO.: 112359																																																																																																																																																																																																																																																																																																
CONTRACTOR: Geotech Drilling Ltd.				METHOD: Geoprobe 8040DT, Air Rotary - 114 mm				ELEVATION (m): 1209.35																																																																																																																																																																																																																																																																																																
SAMPLE TYPE		<input checked="" type="checkbox"/> GRAB	<input type="checkbox"/> SHELBY TUBE	<input checked="" type="checkbox"/> SPLIT SPOON	<input type="checkbox"/> BULK	<input type="checkbox"/> NO RECOVERY	<input type="checkbox"/> CORE																																																																																																																																																																																																																																																																																																	
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<table><tr><th>DEPTH (m)</th><th>USC</th><th>SOIL SYMBOL</th><th>SOIL DESCRIPTION</th><th>SAMPLE TYPE</th><th>SAMPLE #</th><th>SPT (N)</th><th>PENETRATION TESTS</th><th>COMMENTS</th><th>ELEVATION</th></tr><tr><td colspan="7"></td><td><div>◆ SPT (Standard Pen Test) ◆</div><div>Blows/300mm</div><div>0 20 40 60 80 100</div><div>■ Total Unit Wt (kN/m³)</div><div>16 17 18 19 20 21</div><div>Plastic MC Liquid</div><div>20 40 60 80 100</div></td><td colspan="2"></td></tr><tr><td>0</td><td rowspan="2">CL</td><td rowspan="2"></td><td>CLAY (minor SAND and some SILT)</td><td rowspan="23"></td><td>S-1</td><td></td><td></td><td></td><td>368</td></tr><tr><td>- brown</td><td></td><td></td><td></td><td></td></tr><tr><td>- dry, loose, cohesive, plastic, rapid dilatancy when wet</td><td></td><td></td><td></td><td></td></tr><tr><td>1</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>2</td><td rowspan="10">BE</td><td rowspan="10"></td><td>DIORITE</td><td>S-2</td><td></td><td></td><td></td><td></td><td>367</td></tr><tr><td>- yellow-orange</td><td>S-3</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>- dry, highly weathered with iron staining, chips very coarse</td><td>S-4</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>- inferred to be shallow fractured bedrock aquifer</td><td>S-5</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>- becoming wet</td><td>S-6</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>3</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>366</td></tr><tr><td>4</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>5</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>- casing to 4.57 m</td><td>S-7</td><td></td><td></td><td></td><td></td><td></td><td></td><td>364</td></tr><tr><td>6</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>- borehole producing approx. 1-2 L/min during air development</td><td>S-8</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>7</td><td rowspan="10">BE</td><td rowspan="10"></td><td>GRANODIORITE</td><td>S-9</td><td></td><td></td><td></td><td></td><td>363</td></tr><tr><td>- light grey</td><td>S-10</td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>- moist, moderately weathered, abundant iron staining, chips fine</td><td>S-11</td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>- increasing mafic content downhole</td><td>S-12</td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>8</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>361</td></tr><tr><td>9</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>- chips coarser from 8.53 m to 10.46 m</td><td>S-13</td><td></td><td></td><td></td><td></td><td></td><td></td><td>360</td></tr><tr><td>10</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>11</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>12</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>13</td><td rowspan="3">BE</td><td rowspan="3"></td><td>DIORITE</td><td>S-14</td><td></td><td></td><td></td><td></td><td>359</td></tr><tr><td>- light grey</td><td>S-15</td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>- dry, slightly weathered feldspars, quartz rich, low mafic content, massive structure</td><td>S-16</td><td></td><td></td><td></td><td></td><td></td><td></td><td>358</td></tr><tr><td>- unreactive with HCl, overall less weathered and more competent than overlying rock</td><td>S-17</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>14</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>357</td></tr><tr><td>15</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>												DEPTH (m)	USC	SOIL SYMBOL	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE #	SPT (N)	PENETRATION TESTS	COMMENTS	ELEVATION								<div>◆ SPT (Standard Pen Test) ◆</div> <div>Blows/300mm</div> <div>0 20 40 60 80 100</div> <div>■ Total Unit Wt (kN/m³)</div> <div>16 17 18 19 20 21</div> <div>Plastic MC Liquid</div> <div>20 40 60 80 100</div>			0	CL		CLAY (minor SAND and some SILT)		S-1				368	- brown					- dry, loose, cohesive, plastic, rapid dilatancy when wet					1									2	BE		DIORITE	S-2					367	- yellow-orange	S-3						- dry, highly weathered with iron staining, chips very coarse	S-4						- inferred to be shallow fractured bedrock aquifer	S-5						- becoming wet	S-6						3								366	4									5									- casing to 4.57 m	S-7							364	6									- borehole producing approx. 1-2 L/min during air development	S-8								7	BE		GRANODIORITE	S-9					363	- light grey	S-10							- moist, moderately weathered, abundant iron staining, chips fine	S-11							- increasing mafic content downhole	S-12							8								361	9									- chips coarser from 8.53 m to 10.46 m	S-13							360	10									11									12									13	BE		DIORITE	S-14					359	- light grey	S-15							- dry, slightly weathered feldspars, quartz rich, low mafic content, massive structure	S-16							358	- unreactive with HCl, overall less weathered and more competent than overlying rock	S-17								14									357	15									
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PROJECT: Mt. Nansen Mine Closure				CLIENT: Yukon Government - EMR				TESTHOLE NO: MW09-13			
LOCATION: Northeast of Brown-McDade pit N 2,097,531.2 E 118,569.0								PROJECT NO.: 112359			
CONTRACTOR: Geotech Drilling Ltd.				METHOD: Geoprobe 8040DT, Air Rotary - 114 mm							
SAMPLE TYPE <input checked="" type="checkbox"/> GRAB <input type="checkbox"/> SHELBY TUBE <input type="checkbox"/> SPLIT SPOON <input type="checkbox"/> BULK <input type="checkbox"/> NO RECOVERY <input type="checkbox"/> CORE											
BACKFILL TYPE <input checked="" type="checkbox"/> BENTONITE <input type="checkbox"/> GRAVEL <input type="checkbox"/> SLOUGH <input type="checkbox"/> GROUT <input type="checkbox"/> CUTTINGS <input type="checkbox"/> SAND											

DEPTH (m)	USC	SOIL SYMBOL	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE #	SPT (N)	PENETRATION TESTS		COMMENTS	ELEVATION
							* Becker *	◇ Dynamic Cone ◇		
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16					S-25					353
17					S-26					
18					S-27					352
19					S-28					
20					S-29					351
21					S-30					350
22					S-31					
23					S-32					349
24					S-33					348
25					S-34					
26					S-35					347
27					S-36					346
28					S-37					345
29					S-38					344
30					S-39					343
					S-40					342
					S-41					341
					S-42					340
					S-43					339
					S-44					
					S-45					
					S-46					
					S-47					
					S-48					

		LOGGED BY: Ryan Mills	COMPLETION DEPTH: 35.97 m
		REVIEWED BY: Marc Lavigne	COMPLETION DATE: 7/12/09
		PROJECT ENGINEER: Ken Skaffeld	Page 2 of 3

PROJECT: Mt. Nansen Mine Closure				CLIENT: Yukon Government - EMR				TESTHOLE NO: MW09-13					
LOCATION: Northeast of Brown-McDade pit N 2,097,531.2 E 118,569.0								PROJECT NO.: 112359					
CONTRACTOR: Geotech Drilling Ltd.				METHOD: Geoprobe 8040DT, Air Rotary - 114 mm				ELEVATION (m): 1209.35					
SAMPLE TYPE		<input checked="" type="checkbox"/> GRAB	<input type="checkbox"/> SHELBY TUBE	<input checked="" type="checkbox"/> SPLIT SPOON	<input checked="" type="checkbox"/> BULK	<input checked="" type="checkbox"/> NO RECOVERY	<input type="checkbox"/> CORE						
BACKFILL TYPE		<input checked="" type="checkbox"/> BENTONITE	<input type="checkbox"/> GRAVEL	<input type="checkbox"/> SLOUGH	<input checked="" type="checkbox"/> GROUT	<input checked="" type="checkbox"/> CUTTINGS	<input type="checkbox"/> SAND						
DEPTH (m)	USC	SOIL SYMBOL	SOIL DESCRIPTION			SAMPLE TYPE	SAMPLE #	SPT (N)	PENETRATION TESTS		COMMENTS	ELEVATION	
									<div>⌘ Becker ⌘ ⌘ Dynamic Cone ⌘ ◆ SPT (Standard Pen Test) ◆ (Blows/300mm) 0 20 40 60 80 100 ■ Total Unit Wt (kN/m³) 16 17 18 19 20 21 Plastic MC Liquid 20 40 60 80 100</div>				
30	BE		QUARTZOLITE - white to light grey - primarily quartz with minor plagioclase feldspar and biotite - very hard (drilling at approx. 1.5 m/hour)				S-49					338	
31							S-50						
32	BE						S-51					337	
33							S-52					336	
34							S-53					335	
35	BE		GRANODIORITE - light grey - dry, high quartz content with minor amount of highly weathered potassium feldspar				S-54					334	
36							S-55					333	
37							S-56					332	
38							S-57					331	
39							S-58					330	
40												329	
41												328	
42												327	
43												326	
44												325	
45												324	
						LOGGED BY: Ryan Mills		COMPLETION DEPTH: 35.97 m					
						REVIEWED BY: Marc Lavigne		COMPLETION DATE: 7/12/09					
						PROJECT ENGINEER: Ken Skaffeld		Page 3 of 3					

LOG OF TEST HOLE 112359 BOREHOLE LOGS OCT 5 2009 RDM.GPJ UMA WINN.GDT 10/6/09

PROJECT: Mt. Nansen Mine Closure				CLIENT: Yukon Government - EMR				TESTHOLE NO: MW09-14			
LOCATION: Northeast of Brown-McDade pit								PROJECT NO.: 112359			
CONTRACTOR: Geotech Drilling Ltd.				METHOD: Geoprobe 8040DT, Air Rotary - 114 mm				ELEVATION (m): 1209 (est.)			
SAMPLE TYPE		<input checked="" type="checkbox"/> GRAB	<input type="checkbox"/> SHELBY TUBE	<input checked="" type="checkbox"/> SPLIT SPOON	<input type="checkbox"/> BULK	<input type="checkbox"/> NO RECOVERY	<input type="checkbox"/> CORE				
BACKFILL TYPE		<input checked="" type="checkbox"/> BENTONITE	<input type="checkbox"/> GRAVEL	<input type="checkbox"/> SLOUGH	<input type="checkbox"/> GROUT	<input type="checkbox"/> CUTTINGS	<input type="checkbox"/> SAND				

DEPTH (m)	USC	SOIL SYMBOL	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE #	SPT (N)	PENETRATION TESTS		COMMENTS	DEPTH
							* Becker *	◇ Dynamic Cone ◇		
0			CLAY (minor SAND and some SILT) - brown - dry, loose, cohesive, plastic, rapid dilatancy when wet				0	0		
1	CL				S-1					1
2			DIORITE - yellow-orange - dry, highly weathered with iron staining, chips very coarse - inferred to be shallow fractured bedrock aquifer - becoming wet		S-2					2
3					S-3					3
4	BE				S-4					4
5			- casing to 4.57 m		S-5					5
6					S-6					6
7			- borehole producing approx. 1-2 L/min during air development		S-7					7
8					S-8					8
9					S-9					9
10					S-10					10
11	BE		GRANODIORITE - light grey - moist, moderately weathered, abundant iron staining, chips fine - increasing mafic content downhole		S-11					11
12					S-12					12
13					S-13					13
14			- chips coarser from 8.53 m to 10.46 m		S-14					14
15					S-15					15
					S-16					


AECOM		LOGGED BY: Ryan Mills	COMPLETION DEPTH: 10.67 m
		REVIEWED BY: Marc Lavigne	COMPLETION DATE: 7/12/09
		PROJECT ENGINEER: Ken Skaffeld	Page 1 of 3

LOG OF TEST HOLE 112359 BOREHOLE LOGS OCT 5 2009 RDM.GPJ UMA WINN.GDT 10/6/09

PROJECT: Mt. Nansen Mine Closure				CLIENT: Yukon Government - EMR				TESTHOLE NO: MW09-14			
LOCATION: Northeast of Brown-McDade pit								PROJECT NO.: 112359			
CONTRACTOR: Geotech Drilling Ltd.				METHOD: Geoprobe 8040DT, Air Rotary - 114 mm				ELEVATION (m): 1209 (est.)			
SAMPLE TYPE		<input checked="" type="checkbox"/> GRAB	<input type="checkbox"/> SHELBY TUBE	<input checked="" type="checkbox"/> SPLIT SPOON	<input type="checkbox"/> BULK	<input checked="" type="checkbox"/> NO RECOVERY	<input type="checkbox"/> CORE				
BACKFILL TYPE		<input checked="" type="checkbox"/> BENTONITE	<input type="checkbox"/> GRAVEL	<input type="checkbox"/> SLOUGH	<input type="checkbox"/> GROUT	<input checked="" type="checkbox"/> CUTTINGS	<input type="checkbox"/> SAND				
DEPTH (m)	USC	SOIL SYMBOL		SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE #	SPT (N)	PENETRATION TESTS		COMMENTS	DEPTH
								<div><div>* Becker *</div><div>◇ Dynamic Cone ◇</div><div>◆ SPT (Standard Pen Test) ◆</div><div>(Blows/300mm)</div><div>0 20 40 60 80 100</div><div>■ Total Unit Wt ■</div><div>(kN/m³)</div><div>16 17 18 19 20 21</div><div>Plastic MC Liquid</div><div>20 40 60 80 100</div></div>			
15											15
16											16
17											17
18											18
19											19
20											20
21											21
22											22
23											23
24											24
25											25
26											26
27											27
28											28
29											29
30											30
				LOGGED BY: Ryan Mills				COMPLETION DEPTH: 10.67 m			
				REVIEWED BY: Marc Lavigne				COMPLETION DATE: 7/12/09			
				PROJECT ENGINEER: Ken Skaffeld				Page 2 of 3			

PROJECT: Mt. Nansen Mine Closure				CLIENT: Yukon Government - EMR				TESTHOLE NO: MW09-14			
LOCATION: Northeast of Brown-McDade pit								PROJECT NO.: 112359			
CONTRACTOR: Geotech Drilling Ltd.				METHOD: Geoprobe 8040DT, Air Rotary - 114 mm				ELEVATION (m): 1209 (est.)			
SAMPLE TYPE		<input checked="" type="checkbox"/> GRAB	<input type="checkbox"/> SHELBY TUBE	<input checked="" type="checkbox"/> SPLIT SPOON	<input type="checkbox"/> BULK	<input type="checkbox"/> NO RECOVERY	<input type="checkbox"/> CORE				
BACKFILL TYPE		<input checked="" type="checkbox"/> BENTONITE	<input type="checkbox"/> GRAVEL	<input type="checkbox"/> SLOUGH	<input type="checkbox"/> GROUT	<input type="checkbox"/> CUTTINGS	<input type="checkbox"/> SAND				

DEPTH (m)	USC	SOIL SYMBOL	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE #	SPT (N)	PENETRATION TESTS		COMMENTS	DEPTH
							* Becker *	◇ Dynamic Cone ◇		
							◆ SPT (Standard Pen Test) ◆ (Blows/300mm) 0 20 40 60 80 100 ■ Total Unit Wt (kN/m³) 16 17 18 19 20 21 Plastic MC Liquid 20 40 60 80 100			
30										30
31										31
32										32
33										33
34										34
35										35
36			END OF DRILLING at 10.67 m							36
37			MW09-14 install: - Screen interval: 5.49 m - 8.53 m - Screen type: 20-Slot 2" PVC SCHED 40 - Filter pack interval: 5.18 m - 8.53 m - Bentonite seal from 0 m to 5.18 m - WL: Frozen at 8.13 m BTOP (22-Jul-09)							37
38										38
39										39
40										40
41										41
42										42
43										43
44										44
45										45

	LOGGED BY: Ryan Mills	COMPLETION DEPTH: 10.67 m
	REVIEWED BY: Marc Lavigne	COMPLETION DATE: 7/12/09
	PROJECT ENGINEER: Ken Skaffeld	Page 3 of 3


PROJECT: Mt. Nansen Mine Closure				CLIENT: Yukon Government - EMR				TESTHOLE NO: MW09-15					
LOCATION: North of Brown-McDade pit N 2,097,550.1 E 118,541.3								PROJECT NO.: 112359					
CONTRACTOR: Geotech Drilling Ltd.				METHOD: Geoprobe 8040DT, Air Rotary - 114 mm				ELEVATION (m): 1208 (est.)					
SAMPLE TYPE		<input checked="" type="checkbox"/> GRAB		<input type="checkbox"/> SHELBY TUBE		<input type="checkbox"/> SPLIT SPOON		<input type="checkbox"/> BULK		<input type="checkbox"/> NO RECOVERY		<input type="checkbox"/> CORE	
BACKFILL TYPE		<input checked="" type="checkbox"/> BENTONITE		<input type="checkbox"/> GRAVEL		<input type="checkbox"/> SLOUGH		<input type="checkbox"/> GROUT		<input type="checkbox"/> CUTTINGS		<input type="checkbox"/> SAND	

DEPTH (m)	USC	SOIL SYMBOL	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE #	SPT (N)	PENETRATION TESTS		COMMENTS	DEPTH
							* Becker *	◇ Dynamic Cone ◇		
0			CLAY (minor SAND and some GRAVEL) - brown - dry, loose, cohesive, non-plastic, rapid dilatancy when wet							
1					S-1					1
2		CL								2
3					S-2					3
4										4
5		BE	DIORITE - yellow-orange - dry, highly weathered with iron staining, chips very coarse - inferred to be shallow fractured bedrock aquifer - wet 4.88 m to 6.01 m		S-3					5
6			HORNEBLENDE DIORITE - light grey - dry, slightly weathered, occasional iron staining, chips coarse - casing to 4.57 m; approx. 1 L of water in hole after changing bit		S-4					6
7		BE			S-5					7
8					S-6					8
9			- highly weathered 8.53 m to 9.14 m - dry, absence of mafic minerals, high degree of iron staining - inferred conductive fracture zone when saturated - slightly weathered from 9.14 m to 14.63 m - dry, light grey		S-7					9
10					S-8					10
11					S-9					11
12					S-10					12
13					S-11					13
14					S-12					14
15		BE	GRANODIORITE		S-13					15
					S-14					
					S-15					
					S-16					
					S-17					
					S-18					
					S-19					
					S-20					
					S-21					

AECOM		LOGGED BY: Ryan Mills	COMPLETION DEPTH: 38.10 m
		REVIEWED BY: Marc Lavigne	COMPLETION DATE: 7/11/09
		PROJECT ENGINEER: Ken Skaffeld	Page 1 of 3

PROJECT: Mt. Nansen Mine Closure				CLIENT: Yukon Government - EMR				TESTHOLE NO: MW09-15					
LOCATION: North of Brown-McDade pit N 2,097,550.1 E 118,541.3								PROJECT NO.: 112359					
CONTRACTOR: Geotech Drilling Ltd.				METHOD: Geoprobe 8040DT, Air Rotary - 114 mm				ELEVATION (m): 1208 (est.)					
SAMPLE TYPE		<input checked="" type="checkbox"/> GRAB		<input type="checkbox"/> SHELBY TUBE		<input type="checkbox"/> SPLIT SPOON		<input type="checkbox"/> BULK		<input type="checkbox"/> NO RECOVERY		<input type="checkbox"/> CORE	
BACKFILL TYPE		<input checked="" type="checkbox"/> BENTONITE		<input type="checkbox"/> GRAVEL		<input type="checkbox"/> SLOUGH		<input type="checkbox"/> GROUT		<input type="checkbox"/> CUTTINGS		<input type="checkbox"/> SAND	

DEPTH (m)	USC	SOIL SYMBOL	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE #	PENETRATION TESTS		COMMENTS	DEPTH
						SPT (N)	Total Unit Wt (kN/m ³)		
15			- grey-brown - moist from 14.63 m to 16.46 m and dry below, highly weathered and iron stained		S-22				
16			- rapid drilling rates - highly fractured bedrock 15.94 m to 16.92 m (rapid drilling) - zone of cave during well installation		S-23				
17	BE				S-24				16
18					S-25				17
19					S-26				18
20					S-27				19
21					S-28				20
22	BE				S-29				21
23					S-30				22
24					S-31				23
25					S-32				24
26	BE				S-33				25
27					S-34				26
28					S-35				27
29					S-36				28
30	BE				S-37				29
					S-38				30
					S-39				
					S-40				
					S-41				
					S-42				
					S-43				
					S-44				
					S-45				
					S-46				

		LOGGED BY: Ryan Mills	COMPLETION DEPTH: 38.10 m
		REVIEWED BY: Marc Lavigne	COMPLETION DATE: 7/11/09
		PROJECT ENGINEER: Ken Skaffeld	Page 2 of 3

PROJECT: Mt. Nansen Mine Closure				CLIENT: Yukon Government - EMR				TESTHOLE NO: MW09-15					
LOCATION: North of Brown-McDade pit N 2,097,550.1 E 118,541.3								PROJECT NO.: 112359					
CONTRACTOR: Geotech Drilling Ltd.				METHOD: Geoprobe 8040DT, Air Rotary - 114 mm ELEVATION (m): 1208 (est.)									
SAMPLE TYPE		<input checked="" type="checkbox"/> GRAB		<input type="checkbox"/> SHELBY TUBE		<input checked="" type="checkbox"/> SPLIT SPOON		<input type="checkbox"/> BULK		<input type="checkbox"/> NO RECOVERY		<input type="checkbox"/> CORE	
BACKFILL TYPE		<input checked="" type="checkbox"/> BENTONITE		<input type="checkbox"/> GRAVEL		<input type="checkbox"/> SLOUGH		<input type="checkbox"/> GROUT		<input type="checkbox"/> CUTTINGS		<input type="checkbox"/> SAND	

DEPTH (m)	USC	SOIL SYMBOL	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE #	SPT (N)	PENETRATION TESTS * Becker * ◇ Dynamic Cone ◇ ◆ SPT (Standard Pen Test) ◆ (Blows/300mm) Total Unit Wt (kN/m³) Plastic MC Liquid	COMMENTS	DEPTH
30	BE		DIORITE - light grey - dry, soft, moderately weathered, minor iron staining		S-47				
31					S-48				31
32					S-49				32
33					S-50				33
34	BE		- highly weathered from 34.14 m to end of hole at 38.10 m		S-51				34
35			- moist from 35.36 m to 35.38 m		S-52				35
36			- wet from 35.38 m to end of hole at 38.10 m		S-53				36
37					S-54				37
38			END OF DRILLING at 38.10 m		S-55				38
39			MW09-15 install: - Screen interval: 33.98 m - 37.03 m - Screen type: 20-Slot 2" PVC SCHED 40 - Filter pack interval: 33.22 m - 37.03 m - Bentonite seal from 32.00 m to 33.22 m - Grouted to ground surface - 0.5 L of WDS-120 polymer used to avoid loss of hole; re-drilled 7 times to remove cave and stabilize borehole - WL: 16.74 m BTOP (22-Jul-09)		S-56				39
40					S-57				40
41					S-58				41
42					S-59				42
43					S-60				43
44									44
45									45

AECOM		LOGGED BY: Ryan Mills	COMPLETION DEPTH: 38.10 m
		REVIEWED BY: Marc Lavigne	COMPLETION DATE: 7/11/09
		PROJECT ENGINEER: Ken Skaffeld	Page 3 of 3

PROJECT: Mt. Nansen Mine Closure				CLIENT: Yukon Government - EMR				TESTHOLE NO: MW09-16					
LOCATION: Downgradient of Mill								PROJECT NO.: 112359					
CONTRACTOR: Geotech Drilling Ltd.				METHOD: Geoprobe 8040DT, Direct Push - 114 mm				ELEVATION (m): 1187 (est.)					
SAMPLE TYPE		<input checked="" type="checkbox"/> GRAB		<input type="checkbox"/> SHELBY TUBE		<input type="checkbox"/> SPLIT SPOON		<input type="checkbox"/> BULK		<input type="checkbox"/> NO RECOVERY		<input type="checkbox"/> CORE	
BACKFILL TYPE		<input checked="" type="checkbox"/> BENTONITE		<input type="checkbox"/> GRAVEL		<input type="checkbox"/> SLOUGH		<input type="checkbox"/> GROUT		<input type="checkbox"/> CUTTINGS		<input type="checkbox"/> SAND	

DEPTH (m)	USC	SOIL SYMBOL	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE #	SPT (N)	PENETRATION TESTS * Becker * ◇ Dynamic Cone ◇ ◆ SPT (Standard Pen Test) ◆ (Blows/300mm) ■ Total Unit Wt (kN/m³) Plastic MC Liquid	COMMENTS	DEPTH
0			GRAVEL FILL with some SAND, SILT and CLAY - dark yellowish-brown - dry, dense, non-cohesive, non-plastic - gravel up to 3" diameter - inferred to be waste rock fill for staging area - becomes wet at 1.07 m						0
1	GR								1
2					S-1				2
3	SASI		SANDY SILT - black-brown - wet, medium dense, cohesive, rapid dilatancy - roots from 2.13 m to 3.66 m - increasing sand content with depth, sand fine to medium grained						3
4									4
5	SM		SILTY SAND - brown - wet, medium dense, non-cohesive, non-plastic, rapid dilatancy - fine to medium grained sand with very few organics - inferred to be aeolian sand END OF DRILLING at 4.57 m MW09-16 install: - Screen interval: 0.30 m - 1.83 m - Screen type: 20-Slot 2" PVC SCHED 40 - Filter pack interval: 0.15 m - 1.83 m - Bentonite seal from 0 m to 0.15 m - WL: 1.21 m BTOP (22-Jul-09)						5
6									6
7									7
8									8
9									9
10									10
11									11
12									12
13									13
14									14
15									15

AECOM		LOGGED BY: Ryan Mills	COMPLETION DEPTH: 4.57 m
		REVIEWED BY: Marc Lavigne	COMPLETION DATE: 7/14/09
		PROJECT ENGINEER: Ken Skafffeld	Page 1 of 1

PROJECT: Mt. Nansen Mine Closure				CLIENT: Yukon Government - EMR				TESTHOLE NO: MW09-17																																																																																																																																																																																																																																					
LOCATION: Downgradient of Mill N 2,097,319.7 E 118,286.2								PROJECT NO.: 112359																																																																																																																																																																																																																																					
CONTRACTOR: Geotech Drilling Ltd.				METHOD: Geoprobe 8040DT, Direct Push - 114 mm				ELEVATION (m): 1179.40																																																																																																																																																																																																																																					
SAMPLE TYPE		GRAB		SHELBY TUBE		SPLIT SPOON		BULK		NO RECOVERY		CORE																																																																																																																																																																																																																																	
BACKFILL TYPE		BENTONITE		GRAVEL		SLOUGH		GROUT		CUTTINGS		SAND																																																																																																																																																																																																																																	
<div><div>DEPTH (m)</div><div>USC</div><div>SOIL SYMBOL</div><div>SOIL DESCRIPTION</div><div>SAMPLE TYPE</div><div>SAMPLE #</div><div>SPT (N)</div><div>PENETRATION TESTS * Becker * ◇ Dynamic Cone ◇ ◆ SPT (Standard Pen Test) ◆ (Blows/300mm) 0 20 40 60 80 100 ■ Total Unit Wt (kN/m³) 16 17 18 19 20 21 Plastic MC Liquid 20 40 60 80 100</div><div>COMMENTS</div><div>ELEVATION</div></div> <table><tr><td>0</td><td></td><td></td><td>SILTY CLAY with some SAND and GRAVEL - orange - dry, dense, cohesive, low plasticity - inferred to be waste rock fill used for road bed construction - becomes moist at 1.37 m</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>359</td></tr><tr><td>1</td><td>SICL</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>358</td></tr><tr><td>2</td><td>SASI</td><td></td><td>SANDY SILT - black - moist, medium dense, cohesive, medium plasticity - odour likely the result of organics in soil; does not smell like hydrocarbon</td><td></td><td>S-1</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>357</td></tr><tr><td>3</td><td></td><td></td><td>GRAVEL with some CLAY, SILT and SAND filling interstices - yellow-brown - wet to saturated, dense, non-cohesive, non-plastic fines, highly weathered - gravel to 10 cm along long axis - inferred to be colluvium</td><td></td><td>S-2</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>356</td></tr><tr><td>4</td><td>GR</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>355</td></tr><tr><td>5</td><td>BE</td><td></td><td>BEDROCK - dark grey - wet, very dense, fine texture, laminated, friable by hand, very cold - refusal at what is inferred to be frozen bedrock END OF DRILLING at 4.88 m</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>354</td></tr><tr><td>6</td><td></td><td></td><td>MW09-17 install: - Screen interval: 3.35 m - 4.88 m - Screen type: 10-Slot 2" PVC SCHED 40 - Filter pack interval: 2.74 m - 4.88 m - Bentonite seal from 0 m to 2.74 m - WL: 3.88 m BTOP (22-Jul-09)</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>353</td></tr><tr><td>7</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>352</td></tr><tr><td>8</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>351</td></tr><tr><td>9</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>350</td></tr><tr><td>10</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>349</td></tr><tr><td>11</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>348</td></tr><tr><td>12</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>347</td></tr><tr><td>13</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>346</td></tr><tr><td>14</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>345</td></tr><tr><td>15</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>345</td></tr></table>														0			SILTY CLAY with some SAND and GRAVEL - orange - dry, dense, cohesive, low plasticity - inferred to be waste rock fill used for road bed construction - becomes moist at 1.37 m										359	1	SICL												358	2	SASI		SANDY SILT - black - moist, medium dense, cohesive, medium plasticity - odour likely the result of organics in soil; does not smell like hydrocarbon		S-1								357	3			GRAVEL with some CLAY, SILT and SAND filling interstices - yellow-brown - wet to saturated, dense, non-cohesive, non-plastic fines, highly weathered - gravel to 10 cm along long axis - inferred to be colluvium		S-2								356	4	GR												355	5	BE		BEDROCK - dark grey - wet, very dense, fine texture, laminated, friable by hand, very cold - refusal at what is inferred to be frozen bedrock END OF DRILLING at 4.88 m										354	6			MW09-17 install: - Screen interval: 3.35 m - 4.88 m - Screen type: 10-Slot 2" PVC SCHED 40 - Filter pack interval: 2.74 m - 4.88 m - Bentonite seal from 0 m to 2.74 m - WL: 3.88 m BTOP (22-Jul-09)										353	7													352	8													351	9													350	10													349	11													348	12													347	13													346	14													345	15													345
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				PROJECT ENGINEER: Ken Skaffeld				Page 1 of 1																																																																																																																																																																																																																																					

PROJECT: Mt. Nansen Mine Closure				CLIENT: Yukon Government - EMR				TESTHOLE NO: MW09-18					
LOCATION: Downgradient of Mill N 2,097,323.9 E 118,279.5								PROJECT NO.: 112359					
CONTRACTOR: Geotech Drilling Ltd.				METHOD: Geoprobe 8040DT, Direct Push - 114 mm				ELEVATION (m): 1181.06					
SAMPLE TYPE		GRAB		SHELBY TUBE		SPLIT SPOON		BULK		NO RECOVERY		CORE	
BACKFILL TYPE		BENTONITE		GRAVEL		SLOUGH		GROUT		CUTTINGS		SAND	
<div><div>DEPTH (m)</div><div>USC</div><div>SOIL SYMBOL</div><div>SOIL DESCRIPTION</div><div>SAMPLE TYPE</div><div>SAMPLE #</div><div>SPT (N)</div><div><div>PENETRATION TESTS</div><div>* Becker *</div><div>◇ Dynamic Cone ◇</div><div>◆ SPT (Standard Pen Test) ◆</div><div>(Blows/300mm)</div><div>0 20 40 60 80 100</div><div>■ Total Unit Wt (kN/m³)</div><div>16 17 18 19 20 21</div><div>Plastic MC Liquid</div><div>20 40 60 80 100</div></div></div> <div>COMMENTS</div> <div>ELEVATION</div>													
0	SASI		SANDY SILT										
			- brown with red staining										
			- dry, loose, non-cohesive, non-plastic										
			- organic rich with pervasive roots, mild unknown odour		S-1								359
1			SILTY SAND										
			- brown with yellow staining										
			- dry, medium dense, non-cohesive, non-plastic										
			- organics present, sand fine to medium										
			- inferred to be waste rock fill										
			- moist from 1.52 m to 3.81 m, becomes red-brown below 1.52 m, frequent gravel/boulders										
2													358
3	SM												357
4			- dry from 3.81 m to 4.88 m; loose										356
5			SILTY SAND TAILINGS										355
			- yellow-orange										
			- dry, medium dense, cohesive, low plasticity, rapid dilatancy										
			- minor subangular gravel		S-2								354
6	SM												
			SAND and GRAVEL with minor CLAY										
			- brown										
			- wet, loose, non-cohesive, non-plastic										
			- angular gravel sized clasts		S-3								353
			- inferred to be colluvium, potential bedrock contact at 6.70 m										
			END OF DRILLING at 6.86 m										
7	GRSA												
8			MW09-18 install:										352
			- Screen interval: 6.70 m - 6.86 m										
			- Screen type: 10-Slot 2" PVC SCHED 40										
			- Filter pack interval: 5.94 m - 6.86 m										
			- Bentonite seal from 0 m to 5.94 m										351
			- WL: 4.40 m BTOP (22-Jul-09)										
9													
10													350
11													349
12													348
13													347
14													346
15													

AECOM

LOGGED BY: Ryan Mills

REVIEWED BY: Marc Lavigne

PROJECT ENGINEER: Ken Skaffeld

COMPLETION DEPTH: 6.86 m

COMPLETION DATE: 7/15/09

Page 1 of 1

PROJECT: Mt. Nansen Mine Closure				CLIENT: Yukon Government - EMR				TESTHOLE NO: MW09-19					
LOCATION: Downgradient of Mill								PROJECT NO.: 112359					
CONTRACTOR: Geotech Drilling Ltd.				METHOD: Geoprobe 8040DT, Direct Push - 114 mm				ELEVATION (m): 1182 (est.)					
SAMPLE TYPE		<input checked="" type="checkbox"/> GRAB		<input type="checkbox"/> SHELBY TUBE		<input type="checkbox"/> SPLIT SPOON		<input type="checkbox"/> BULK		<input type="checkbox"/> NO RECOVERY		<input type="checkbox"/> CORE	
BACKFILL TYPE		<input checked="" type="checkbox"/> BENTONITE		<input type="checkbox"/> GRAVEL		<input type="checkbox"/> SLOUGH		<input type="checkbox"/> GROUT		<input type="checkbox"/> CUTTINGS		<input type="checkbox"/> SAND	

DEPTH (m)	USC	SOIL SYMBOL	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE #	SPT (N)	PENETRATION TESTS		COMMENTS	DEPTH
							* Becker *	◇ Dynamic Cone ◇		
0			No recovery							
1	SM		SAND, silty - orange-brown - dry, loose - fine grained to medium grained sand							
2	GRSA		SAND and GRAVEL, trace silt - dark brown to orange - moist, dense - medium grained sand, sub-rounded - gravel sub-rounded to sub-angular, 0.5 cm to 7 cm (limited by core barrel)							
3	OR SA OR		- clast supported - presence of wood debris (waste rock?) ORGANIC, some silt, trace sand		G-1 G-2 G-3					
4	SA		- black - moist, loose - presence of roots SAND, gravelly, trace of silt - orange-brown - moist, dense - fine grained sand, sub-rounded - volcanic ash marker							
5			ORGANIC, some silt, trace sand - dark brown - moist, loose - presence of roots SAND, some silt, trace gravel - dark grey - wet, loose - medium grained sand, sub-rounded - sub-angular gravel, 1 cm to >4 cm - matrix supported		G-4					
6			END OF DRILLING at 5.11 m in permafrost (refusal)							
7										
8										
9										
10										
11										
12										
13										
14										
15										

MW09-19 install:		LOGGED BY: Marc Lavigne	COMPLETION DEPTH: 5.11 m
- Screen interval: 3.58 m - 5.11 m		REVIEWED BY: Ryan Mills	COMPLETION DATE: 7/15/09
- Screen type: 10-Slot 2" PVC SCHED 40		PROJECT ENGINEER: Ken Skaffeld	Page 1 of 1
- Filter pack interval: 3.28 m - 5.11 m			
- Bentonite seal from ground surface to 3.28 m			
- WL: 2.614 mTPVC (22-Jul-09, 10:11:00 AM)			

PROJECT: Mt. Nansen Mine Closure				CLIENT: Yukon Government - EMR				TESTHOLE NO: MW09-21					
LOCATION: Tailings Dam N 2,097,199.5 E 118,730.8								PROJECT NO.: 112359					
CONTRACTOR: Geotech Drilling Ltd.				METHOD: Geoprobe 8040DT, Air Rotary - 114 mm				ELEVATION (m): 1082.77					
SAMPLE TYPE		GRAB		SHELBY TUBE		SPLIT SPOON		BULK		NO RECOVERY		CORE	
BACKFILL TYPE		BENTONITE		GRAVEL		SLOUGH		GROUT		CUTTINGS		SAND	
<div><div>DEPTH (m)</div><div>USC</div><div>SOIL SYMBOL</div><div>SOIL DESCRIPTION</div><div>SAMPLE TYPE</div><div>SAMPLE #</div><div>SPT (N)</div><div><div>PENETRATION TESTS</div><div>* Becker *</div><div>◇ Dynamic Cone ◇</div><div>◆ SPT (Standard Pen Test) ◆</div><div>(Blows/300mm)</div><div>0 20 40 60 80 100</div><div>■ Total Unit Wt (kN/m³)</div><div>16 17 18 19 20 21</div><div>Plastic MC Liquid</div><div>20 40 60 80 100</div></div></div> <div>COMMENTS</div> <div>ELEVATION</div>													
0	FILL		Ditch Armour on surface										
			- cobbles and boulders up to 1 m										
			- iron staining										
1	FILL		GRAVEL, sandy, trace silt	G-1									329
			- orange-brown										
			- dry, very dense										
			- fine grained to medium grained sand, sub-rounded										
2			- gravel/cobble sub-angular to angular, 0.5 cm to 8 cm (limited by core barrel)	S-1	19-32-50								328
			- clast supported										
	FILL		SAND, gravelly, trace silt										
			- orange-brown										
			- medium/fine sand, sub-rounded										
3	SASI		- sub-angular gravel, from 0.5 cm to > 5 cm	S-2	41-50-								327
	SA		- clast supported, becomes matrix supported with depth										
			- wet										
4			SILT, sandy, trace organic										326
			- dark brown										
			SAND, some silt, trace gravel										
			- dark brown										
5			- medium sand, sub-rounded										325
			- sub-angular gravel, >0.5 cm to <1 cm										
			- matrix supported										
			SAND, some silt, trace to some organic (volcanic ash marker)										
6			- light grey										324
			END OF DRILLING at 3.20 m in permafrost (refusal)										
7			MW09-21 install:										323
			- Screen interval: 1.52 m - 3.05 m										
			- Screen type: 10-Slot 2" PVC SCHED 40										
			- Filter pack interval: 1.22 m - 3.05 m										
			- Bentonite seal from ground surface to 1.22 m										
8			- WL: 1.668 mTPVC (22-Jul-09, 8:31:00 AM)										322
9													321
10													320
11													319
12													318
13													317
14													316
15													

AECOM

LOGGED BY: Marc Lavigne

REVIEWED BY: Alex Knop

PROJECT ENGINEER: Ken Skaffeld

COMPLETION DEPTH: 3.20 m

COMPLETION DATE: 7/17/09

Page 1 of 1



Environmental Division

Certificate of Analysis

AECOM CANADA LTD.

ATTN: MARK LAVIGNE

SPERLING PLAZA
SUITE 490, 6400 ROBERTS STREET
BURNABY BC V5G 4C9

Report Date: 18-AUG-09 12:24 (MT)

Version: FINAL REV. 2

Lab Work Order #: L796873

Date Received: 24-JUL-09

Project P.O. #: MT. NANSEN HYDROGEO

Job Reference: 112359

Legal Site Desc:

CofC Numbers: C085792

Other Information:

Comments: ADDITIONAL 10-AUG-09 17:55

Please note that Cyanate detection limits have been increased for some of the samples due to the low sample volumes available for analysis. Furthermore, these samples were analyzed past recommended holding time of 14 days for Cyanate analysis.

This revision, 2, of the report replaces and supersedes all previous revisions. The results of Cyanate analysis have been added to the report. All other data remains unchanged.


NATASHA MARKOVIC-MIROVIC
Account Manager

THIS REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL WITHOUT THE WRITTEN AUTHORITY OF THE LABORATORY.
ALL SAMPLES WILL BE DISPOSED OF AFTER 30 DAYS FOLLOWING ANALYSIS. PLEASE CONTACT THE LAB IF YOU
REQUIRE ADDITIONAL SAMPLE STORAGE TIME.

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample ID Description Sampled Date Sampled Time Client ID		L796873-1	L796873-2	L796873-3	L796873-4	L796873-5
		08-JUL-09	22-JUL-09	21-JUL-09	22-JUL-09	21-JUL-09
		MW09-08	MW09-11	MW09-21	MW09-22	MW09-23
Grouping	Analyte					
WATER						
Physical Tests	Conductivity (uS/cm)	187	433	1630	630	1930
	Hardness (as CaCO3) (mg/L)	72.2	209	711	248	1020
	pH (pH)	7.50	7.96	7.10	7.12	7.50
	Total Dissolved Solids (mg/L)	189	262	1230	389	1630
Anions and Nutrients	Acidity (as CaCO3) (mg/L)	13.9	5.3	38.8	21.1	21.0
	Alkalinity, Total (as CaCO3) (mg/L)	91.1	227	266	176	269
	Ammonia as N (mg/L)	3.27	1.85	6.30	6.65	9.49
	Bromide (Br) (mg/L)	<0.50	<0.050	<2.5	<0.25	<2.5
	Chloride (Cl) (mg/L)	<5.0	3.23	<25	<2.5	<25
	Fluoride (F) (mg/L)	<0.20	0.723	0.057	0.075	0.058
	Nitrate (as N) (mg/L)	<0.050	0.283	1.44	4.79	<0.25
	Nitrite (as N) (mg/L)	<0.010	0.0059	0.058	0.0996	<0.050
	Sulfate (SO4) (mg/L)	16.0	11.0	617	126	879
Cyanides	Cyanide, Weak Acid Diss (mg/L)	<0.0050	<0.0050	0.0331	<0.0050	0.107
	Cyanide, Total (mg/L)	0.0542	<0.0050	0.0504	0.0165	0.419
	Cyanate (CNO) (mg/L)	<1.6	<1.6	5.0	<1.6	3.5
Dissolved Metals	Aluminum (Al)-Dissolved (mg/L)	0.118	<0.0050	0.158	0.0332	0.033
	Antimony (Sb)-Dissolved (mg/L)	<0.00050	<0.00050	<0.0025	<0.00050	<0.0025
	Arsenic (As)-Dissolved (mg/L)	0.178	0.0182	0.0329	0.0140	0.0100
	Barium (Ba)-Dissolved (mg/L)	0.102	0.169	0.300	0.157	0.089
	Beryllium (Be)-Dissolved (mg/L)	<0.0010	<0.0010	<0.0050	<0.0010	<0.0050
	Bismuth (Bi)-Dissolved (mg/L)	<0.20	<0.20	<0.20	<0.20	<0.20
	Boron (B)-Dissolved (mg/L)	<0.10	<0.10	<0.10	<0.10	0.14
	Cadmium (Cd)-Dissolved (mg/L)	<0.000017	0.000082	0.000196	0.000109	0.000184
	Calcium (Ca)-Dissolved (mg/L)	21.8	39.3	247	91.6	327
	Chromium (Cr)-Dissolved (mg/L)	0.0017	<0.0010	<0.0050	<0.0010	<0.0050
	Cobalt (Co)-Dissolved (mg/L)	0.00145	0.00169	0.0268	0.0134	0.0189
	Copper (Cu)-Dissolved (mg/L)	<0.0010	<0.0010	<0.0050	0.0036	<0.0050
	Iron (Fe)-Dissolved (mg/L)	31.9	0.596	19.0	3.46	3.86
	Lead (Pb)-Dissolved (mg/L)	<0.00050	<0.00050	<0.0025	<0.00050	<0.0025
	Lithium (Li)-Dissolved (mg/L)	<0.0050	<0.0050	<0.025	<0.0050	<0.025
	Magnesium (Mg)-Dissolved (mg/L)	4.30	26.9	22.9	4.57	50.1
	Manganese (Mn)-Dissolved (mg/L)	2.09	0.987	7.52	3.88	6.69
	Mercury (Hg)-Dissolved (mg/L)	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
	Molybdenum (Mo)-Dissolved (mg/L)	<0.0010	0.0100	<0.0050	0.0017	<0.0050
	Nickel (Ni)-Dissolved (mg/L)	<0.0010	0.0033	<0.0050	0.0096	<0.0050
	Phosphorus (P)-Dissolved (mg/L)	<0.30	<0.30	<0.30	<0.30	<0.30
	Potassium (K)-Dissolved (mg/L)	<2.0	3.2	8.2	5.7	15.5
	Selenium (Se)-Dissolved (mg/L)	<0.0010	0.0010	<0.0050	<0.0010	<0.0050
	Silicon (Si)-Dissolved (mg/L)	8.28	5.50	5.69	4.69	5.35
	Silver (Ag)-Dissolved (mg/L)	<0.000020	<0.000020	<0.00010	<0.000020	<0.00010

ALS LABORATORY GROUP ANALYTICAL REPORT

		Sample ID				
		Description				
		Sampled Date				
		Sampled Time				
		Client ID				
Grouping	Analyte					
WATER						
Physical Tests	Conductivity (uS/cm)	564	1640			
	Hardness (as CaCO3) (mg/L)	297	710			
	pH (pH)	7.75	7.17			
	Total Dissolved Solids (mg/L)	364	1280			
Anions and Nutrients	Acidity (as CaCO3) (mg/L)	7.5	31.9			
	Alkalinity, Total (as CaCO3) (mg/L)	210	269			
	Ammonia as N (mg/L)	0.032	12.1			
	Bromide (Br) (mg/L)	<0.050	<2.5			
	Chloride (Cl) (mg/L)	0.76	<25			
	Fluoride (F) (mg/L)	<0.020	0.059			
	Nitrate (as N) (mg/L)	2.20	1.37			
	Nitrite (as N) (mg/L)	0.0092	<0.050			
	Sulfate (SO4) (mg/L)	86.6	617			
Cyanides	Cyanide, Weak Acid Diss (mg/L)	<0.0050	0.0209			
	Cyanide, Total (mg/L)	0.0120	0.0465			
	Cyanate (CNO) (mg/L)	<0.50	6.90			
Dissolved Metals	Aluminum (Al)-Dissolved (mg/L)	<0.0050	0.150			
	Antimony (Sb)-Dissolved (mg/L)	<0.00050	<0.0025			
	Arsenic (As)-Dissolved (mg/L)	0.00117	0.0341			
	Barium (Ba)-Dissolved (mg/L)	0.077	0.294			
	Beryllium (Be)-Dissolved (mg/L)	<0.0010	<0.0050			
	Bismuth (Bi)-Dissolved (mg/L)	<0.20	<0.20			
	Boron (B)-Dissolved (mg/L)	<0.10	<0.10			
	Cadmium (Cd)-Dissolved (mg/L)	0.000055	0.000188			
	Calcium (Ca)-Dissolved (mg/L)	88.7	247			
	Chromium (Cr)-Dissolved (mg/L)	<0.0010	<0.0050			
	Cobalt (Co)-Dissolved (mg/L)	0.00063	0.0272			
	Copper (Cu)-Dissolved (mg/L)	0.0085	<0.0050			
	Iron (Fe)-Dissolved (mg/L)	<0.030	18.7			
	Lead (Pb)-Dissolved (mg/L)	<0.00050	<0.0025			
	Lithium (Li)-Dissolved (mg/L)	<0.0050	<0.025			
	Magnesium (Mg)-Dissolved (mg/L)	18.4	22.5			
	Manganese (Mn)-Dissolved (mg/L)	0.0115	7.66			
	Mercury (Hg)-Dissolved (mg/L)	<0.000020	<0.000020			
	Molybdenum (Mo)-Dissolved (mg/L)	<0.0010	<0.0050			
	Nickel (Ni)-Dissolved (mg/L)	<0.0010	<0.0050			
	Phosphorus (P)-Dissolved (mg/L)	<0.30	<0.30			
	Potassium (K)-Dissolved (mg/L)	<2.0	8.1			
	Selenium (Se)-Dissolved (mg/L)	<0.0010	<0.0050			
	Silicon (Si)-Dissolved (mg/L)	5.74	5.61			
	Silver (Ag)-Dissolved (mg/L)	<0.000020	<0.00010			

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample ID Description Sampled Date Sampled Time Client ID		L796873-1	L796873-2	L796873-3	L796873-4	L796873-5
		08-JUL-09	22-JUL-09	21-JUL-09	22-JUL-09	21-JUL-09
		MW09-08	MW09-11	MW09-21	MW09-22	MW09-23
Grouping	Analyte					
WATER						
Dissolved Metals	Sodium (Na)-Dissolved (mg/L)	4.1	15.3	102	25.6	59.5
	Strontium (Sr)-Dissolved (mg/L)	0.106	0.376	0.927	0.341	0.736
	Thallium (Tl)-Dissolved (mg/L)	<0.00020	<0.00020	<0.0010	<0.00020	<0.0010
	Tin (Sn)-Dissolved (mg/L)	<0.00050	<0.00050	<0.0025	<0.00050	<0.0025
	Titanium (Ti)-Dissolved (mg/L)	<0.010	<0.010	0.019	<0.010	0.015
	Uranium (U)-Dissolved (mg/L)	<0.00020	0.00273	0.0016	0.00067	0.0023
	Vanadium (V)-Dissolved (mg/L)	0.0059	0.0015	0.0052	0.0019	<0.0050
	Zinc (Zn)-Dissolved (mg/L)	<0.0050	<0.0050	0.0099	<0.0050	<0.0050

ALS LABORATORY GROUP ANALYTICAL REPORT

		Sample ID				
Description		L796873-6	L796873-7			
Sampled Date		22-JUL-09	21-JUL-09			
Sampled Time						
Client ID		MW09-24	MW09-25			
Grouping	Analyte					
WATER						
Dissolved Metals	Sodium (Na)-Dissolved (mg/L)	9.2	99.4			
	Strontium (Sr)-Dissolved (mg/L)	0.467	0.906			
	Thallium (Tl)-Dissolved (mg/L)	<0.00020	<0.0010			
	Tin (Sn)-Dissolved (mg/L)	<0.00050	<0.0025			
	Titanium (Ti)-Dissolved (mg/L)	<0.010	0.018			
	Uranium (U)-Dissolved (mg/L)	0.00252	0.0016			
	Vanadium (V)-Dissolved (mg/L)	<0.0010	0.0051			
	Zinc (Zn)-Dissolved (mg/L)	<0.0050	0.0104			

Reference Information

Additional Comments for Sample Listed:

Samplenum	Matrix	Report Remarks	Sample Comments
Methods Listed (if applicable):			
ALS Test Code	Matrix	Test Description	Analytical Method Reference(Based On)
ACY-PCT-VA	Water	Acidity by Automatic Titration	APHA 2310 "Acidity"
This analysis is carried out using procedures adapted from APHA Method 2310 "Acidity". Acidity is determined by potentiometric titration to a specified endpoint.			
ACY-PCT-VA	Water	Acidity by Automatic Titration	APHA 2310 Acidity
This analysis is carried out using procedures adapted from APHA Method 2310 "Acidity". Acidity is determined by potentiometric titration to a specified endpoint.			
ALK-COL-VA	Water	Alkalinity by Colourimetric (Automated)	APHA 310.2
This analysis is carried out using procedures adapted from EPA Method 310.2 "Alkalinity". Total Alkalinity is determined using the methyl orange colourimetric method.			
ALK-PCT-VA	Water	Alkalinity by Auto. Titration	APHA 2320 "Alkalinity"
This analysis is carried out using procedures adapted from APHA Method 2320 "Alkalinity". Total alkalinity is determined by potentiometric titration to a pH 4.5 endpoint. Bicarbonate, carbonate and hydroxide alkalinity are calculated from phenolphthalein alkalinity and total alkalinity values.			
ALK-PCT-VA	Water	Alkalinity by Auto. Titration	APHA 2320 Alkalinity
This analysis is carried out using procedures adapted from APHA Method 2320 "Alkalinity". Total alkalinity is determined by potentiometric titration to a pH 4.5 endpoint. Bicarbonate, carbonate and hydroxide alkalinity are calculated from phenolphthalein alkalinity and total alkalinity values.			
ANIONS-BR-IC-VA	Water	Bromide by Ion Chromatography	APHA 4110 B.
This analysis is carried out using procedures adapted from APHA Method 4110 B. "Ion Chromatography with Chemical Suppression of Eluent Conductivity" and EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography".			
ANIONS-CL-IC-VA	Water	Chloride by Ion Chromatography	APHA 4110 B.
This analysis is carried out using procedures adapted from APHA Method 4110 B. "Ion Chromatography with Chemical Suppression of Eluent Conductivity" and EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography".			
ANIONS-F-IC-VA	Water	Fluoride by Ion Chromatography	APHA 4110 B.
This analysis is carried out using procedures adapted from APHA Method 4110 B. "Ion Chromatography with Chemical Suppression of Eluent Conductivity" and EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography".			
ANIONS-NO2-IC-VA	Water	Nitrite by Ion Chromatography	APHA 4110 B.
This analysis is carried out using procedures adapted from APHA Method 4110 B. "Ion Chromatography with Chemical Suppression of Eluent Conductivity" and EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography". Specifically, the nitrite detection is by UV absorbance and not conductivity.			
ANIONS-NO3-IC-VA	Water	Nitrate by Ion Chromatography	APHA 4110 B.
This analysis is carried out using procedures adapted from APHA Method 4110 B. "Ion Chromatography with Chemical Suppression of Eluent Conductivity" and EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography". Specifically, the nitrate detection is by UV absorbance and not conductivity.			
ANIONS-SO4-IC-VA	Water	Sulfate by Ion Chromatography	APHA 4110 B.
This analysis is carried out using procedures adapted from APHA Method 4110 B. "Ion Chromatography with Chemical Suppression of Eluent Conductivity" and EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography".			
CN-T-L-MAC-HH-COL-VA	Water	Total Cyanide- Low Level by HH Distillat	APHA 4500-CN CYANIDE

Reference Information

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Analytical Method Reference(Based On)
<p>This analysis is carried out using procedures adapted from APHA Method 4500-CN "Cyanide". Total or strong acid dissociable (SAD) cyanide are determined by sample distillation and analysis using the chloramine-T colourimetric method.</p>			
CN-T-MID-HH-COL-VA	Water	Total Cyanide by HH Distillation	APHA 4500-CN "Cyanide"
<p>This analysis is carried out using procedures adapted from APHA Method 4500-CN "Cyanide". Total or strong acid dissociable (SAD) cyanide are determined by sample distillation and analysis using the chloramine-T colourimetric method.</p>			
CN-T-MID-HH-COL-VA	Water	Total Cyanide by HH Distillation	APHA 4500-CN Cyanide
<p>This analysis is carried out using procedures adapted from APHA Method 4500-CN "Cyanide". Total or strong acid dissociable (SAD) cyanide are determined by sample distillation and analysis using the chloramine-T colourimetric method.</p>			
CN-WAD-MID-COL-VA	Water	Weak Acid Cyanide by Colorimetric	APHA 4500-CN "Cyanide"
<p>This analysis is carried out using procedures adapted from APHA Method 4500-CN "Cyanide". Weak acid dissociable (WAD) cyanide are determined by sample distillation and analysis using the chloramine-T colourimetric method.</p>			
CN-WAD-MID-COL-VA	Water	Weak Acid Cyanide by Colorimetric	APHA 4500-CN Cyanide
<p>This analysis is carried out using procedures adapted from APHA Method 4500-CN "Cyanide". Weak acid dissociable (WAD) cyanide are determined by sample distillation and analysis using the chloramine-T colourimetric method.</p>			
CNO-SIE-VA	Water	Cyanate by SIE	APHA 4500-CN Cyanide
<p>This analysis is carried out using procedures adapted from APHA Method 4500-CN "Cyanide". Cyanate is determined by the cyanate hydrolysis method using an ammonia selective electrode.</p>			
EC-PCT-VA	Water	Conductivity (Automated)	APHA 2510 Auto. Conduc.
<p>This analysis is carried out using procedures adapted from APHA Method 2510 "Conductivity". Conductivity is determined using a conductivity electrode.</p>			
F-SIE-VA	Water	Fluoride by SIE	APHA 4500-F "Fluoride"
<p>This analysis is carried out using procedures adapted from APHA Method 4500-F "Fluoride". Fluoride is determined using a selective ion electrode. This method has a significant negative interference (i.e. results could be biased low) when Al³⁺ is present in the sample at a concentration greater than 2.5 mg/L.</p>			
F-SIE-VA	Water	Fluoride by SIE	APHA 4500-F Fluoride
<p>This analysis is carried out using procedures adapted from APHA Method 4500-F "Fluoride". Fluoride is determined using a selective ion electrode. This method has a significant negative interference (i.e. results could be biased low) when Al³⁺ is present in the sample at a concentration greater than 2.5 mg/L.</p>			
HARDNESS-CALC-VA	Water	Hardness	APHA 2340B
<p>Hardness is calculated from Calcium and Magnesium concentrations, and is expressed as calcium carbonate equivalents.</p>			
HG-DIS-CCME-CVAFS-VA	Water	Diss. Mercury in Water by CVAFS (CCME)	EPA 3005A/245.7
<p>This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures may involve preliminary sample treatment by filtration (EPA Method 3005A) and involves a cold-oxidation of the acidified sample using bromine monochloride prior to reduction of the sample with stannous chloride. Instrumental analysis is by cold vapour atomic fluorescence spectrophotometry (EPA Method 245.7).</p>			
MET-DIS-CCME-ICP-VA	Water	Diss. Metals in Water by ICPOES (CCME)	EPA SW-846 3005A/6010B
<p>This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures may involve preliminary sample treatment by acid digestion, using either hotblock or</p>			

Reference Information

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Analytical Method Reference(Based On)
microwave oven, or filtration (EPA Method 3005A). Instrumental analysis is by inductively coupled plasma - optical emission spectrophotometry (EPA Method 6010B).			
MET-DIS-CCME-MS-VA	Water	Diss. Metals in Water by ICPMS (CCME)	EPA SW-846 3005A/6020A
This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures may involve preliminary sample treatment by acid digestion, using either hotblock or microwave oven, or filtration (EPA Method 3005A). Instrumental analysis is by inductively coupled plasma - mass spectrometry (EPA Method 6020A).			
MET-DIS-ICP-VA	Water	Dissolved Metals in Water by ICPOES	EPA SW-846 3005A/6010B
This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedure involves filtration (EPA Method 3005A) and analysis by inductively coupled plasma - optical emission spectrophotometry (EPA Method 6010B).			
NH3-SIE-VA	Water	Ammonia by SIE	APHA 4500 D. - NH3 NITROGEN (AMMONIA)
This analysis is carried out, on sulphuric acid preserved samples, using procedures adapted from APHA Method 4500-NH3 "Nitrogen (Ammonia)". Ammonia is determined using an ammonia selective electrode.			
PH-PCT-VA	Water	pH by Meter (Automated)	APHA 4500-H "pH Value"
This analysis is carried out using procedures adapted from APHA Method 4500-H "pH Value". The pH is determined in the laboratory using a pH electrode			
PH-PCT-VA	Water	pH by Meter (Automated)	APHA 4500-H pH Value
This analysis is carried out using procedures adapted from APHA Method 4500-H "pH Value". The pH is determined in the laboratory using a pH electrode			
TDS-VA	Water	Total Dissolved Solids by Gravimetric	APHA 2540 C - GRAVIMETRIC
This analysis is carried out using procedures adapted from APHA Method 2540 "Solids". Solids are determined gravimetrically. Total Dissolved Solids (TDS) are determined by filtering a sample through a glass fibre filter, TDS is determined by evaporating the filtrate to dryness at 180 degrees celsius.			
<p>** Laboratory Methods employed follow in-house procedures, which are generally based on nationally or internationally accepted methodologies.</p> <p><i>The last two letters of the above ALS Test Code column indicate the laboratory that performed analytical analysis for that test. Refer to the list below:</i></p>			
Laboratory Definition Code	Laboratory Location	Laboratory Definition Code	Laboratory Location
VA	ALS LABORATORY GROUP - VANCOUVER, BC, CANADA		

Reference Information

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Analytical Method Reference(Based On)
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GLOSSARY OF REPORT TERMS

Surr - A surrogate is an organic compound that is similar to the target analyte(s) in chemical composition and behavior but not normally detected in environmental samples. Prior to sample processing, samples are fortified with one or more surrogate compounds.

The reported surrogate recovery value provides a measure of method efficiency.

mg/kg (units) - unit of concentration based on mass, parts per million

mg/L (units) - unit of concentration based on volume, parts per million

N/A - Result not available. Refer to qualifier code and definition for explanation

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Although test results are generated under strict QA/QC protocols, any unsigned test reports, faxes, or emails are considered preliminary.

ALS Laboratory Group has an extensive QA/QC program where all analytical data reported is analyzed using approved referenced procedures followed by checks and reviews by senior managers and quality assurance personnel. However, since the results are obtained from chemical measurements and thus cannot be guaranteed, ALS Laboratory Group assumes no liability for the use or interpretation of the results.

REFER TO BACK PAGE FOR REGIONAL LOCATIONS AND SAMPLING INFORMATION



Environmental Division

Certificate of Analysis

AECOM CANADA LTD.

ATTN: RYAN MILLS

SPERLING PLAZA
SUITE 490, 6400 ROBERTS STREET
BURNABY BC V5G 4C9

Report Date: 19-AUG-09 09:58 (MT)

Version: FINAL REV. 2

Lab Work Order #: L796959

Date Received: 24-JUL-09

Project P.O. #:

Job Reference: YUKON GOV'T 112359- MT NANSEN

Legal Site Desc:

CofC Numbers: A014936, A014937

Other Information:

Comments:

Please note that certain metals detection limits have been increased for some of the samples due to the interferences encountered during the analysis.

ADDITIONAL 10-AUG-09 17:52

Please note that Cyanate detection limits have been increased for some of the samples due to the low sample volumes available for analysis. Furthermore, these samples were analyzed past recommended holding time of 14 days for Cyanate analysis.

This revision, 2, of the report replaces and supersedes all previous revisions. The results of Cyanate analysis have been added to the report. All other data remains unchanged.



NATASHA MARKOVIC-MIROVIC
Account Manager

THIS REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL WITHOUT THE WRITTEN AUTHORITY OF THE LABORATORY.
ALL SAMPLES WILL BE DISPOSED OF AFTER 30 DAYS FOLLOWING ANALYSIS. PLEASE CONTACT THE LAB IF YOU
REQUIRE ADDITIONAL SAMPLE STORAGE TIME.

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample ID Description Sampled Date Sampled Time Client ID		L796959-7	L796959-9	L796959-10	L796959-11	L796959-12
		15-JUL-09	15-JUL-09	15-JUL-09	15-JUL-09	15-JUL-09
		MW09-16(6FT-7FT)	MW09-17(11FT-12FT)	MW09-18(2FT-3FT)	MW09-18(21FT-22FT)	MW09-19(7FT10
Grouping	Analyte					
SOIL						
Physical Tests	% Moisture (%)	11.1	9.68	30.1	7.20	11.7
	pH (pH)	7.64	7.97	6.39	8.14	6.96
Metals	Antimony (Sb) (mg/kg)	162	<10	<10	11	898
	Arsenic (As) (mg/kg)	1980	65.7	103	285	13000
	Barium (Ba) (mg/kg)	150	95.1	271	113	99.9
	Beryllium (Be) (mg/kg)	0.50	<0.50	<0.50	0.73	1.25
	Cadmium (Cd) (mg/kg)	41.4	<0.50	<0.50	<0.50	91.1
	Chromium (Cr) (mg/kg)	16.2	15.6	19.6	111	5.1
	Cobalt (Co) (mg/kg)	9.8	8.6	8.3	20.0	6.7
	Copper (Cu) (mg/kg)	111	44.9	54.5	71.9	401
	Lead (Pb) (mg/kg)	1570	<30	<30	<30	8260
	Mercury (Hg) (mg/kg)	0.151	0.0419	0.0458	0.103	0.426
	Molybdenum (Mo) (mg/kg)	<4.0	<4.0	<4.0	<4.0	<4.0
	Nickel (Ni) (mg/kg)	11.8	8.1	12.2	47.8	7.1
	Selenium (Se) (mg/kg)	<2.0	<2.0	<2.0	<2.0	<2.0
	Silver (Ag) (mg/kg)	35.2	<2.0	<2.0	<2.0	96.9
	Thallium (Tl) (mg/kg)	<1.0	<1.0	<1.0	<1.0	<1.0
	Tin (Sn) (mg/kg)	<5.0	<5.0	<5.0	<5.0	8.2
	Vanadium (V) (mg/kg)	56.7	76.0	60.7	136	22.9
	Zinc (Zn) (mg/kg)	2760	60.1	60.3	127	4300
Hydrocarbons	EPH10-19 (mg/kg)	<200	<200	<200	<200	<200
	EPH19-32 (mg/kg)	<200	<200	<200	<200	<200
	LEPH (mg/kg)	<200	<200	<200	<200	<200
	HEPH (mg/kg)	<200	<200	<200	<200	<200
Polycyclic Aromatic Hydrocarbons	Acenaphthene (mg/kg)	<0.050	<0.050	<0.050	<0.050	<0.050
	Acenaphthylene (mg/kg)	<0.050	<0.050	<0.050	<0.050	<0.050
	Anthracene (mg/kg)	<0.050	<0.050	<0.050	<0.050	<0.050
	Benz(a)anthracene (mg/kg)	<0.050	<0.050	<0.050	<0.050	<0.050
	Benzo(a)pyrene (mg/kg)	<0.050	<0.050	<0.050	<0.050	<0.050
	Benzo(b)fluoranthene (mg/kg)	<0.050	<0.050	<0.050	<0.050	<0.050
	Benzo(g,h,i)perylene (mg/kg)	<0.050	<0.050	<0.050	<0.050	<0.050
	Benzo(k)fluoranthene (mg/kg)	<0.050	<0.050	<0.050	<0.050	<0.050
	Chrysene (mg/kg)	<0.050	<0.050	<0.050	<0.050	<0.050
	Dibenz(a,h)anthracene (mg/kg)	<0.050	<0.050	<0.050	<0.050	<0.050
	Fluoranthene (mg/kg)	<0.050	<0.050	<0.050	<0.050	<0.050
	Fluorene (mg/kg)	<0.050	<0.050	<0.050	<0.050	<0.050
	Indeno(1,2,3-c,d)pyrene (mg/kg)	<0.050	<0.050	<0.050	<0.050	<0.050
	2-Methylnaphthalene (mg/kg)	<0.050	<0.050	<0.050	<0.050	<0.050
	Naphthalene (mg/kg)	<0.050	<0.050	<0.050	<0.050	<0.050
	Phenanthrene (mg/kg)	<0.050	<0.050	<0.050	<0.050	<0.050

ALS LABORATORY GROUP ANALYTICAL REPORT

		Sample ID				
		Description				
		Sampled Date				
		Sampled Time				
		Client ID				
		L796959-15				
		15-JUL-09				
		MW09-19(15FT-16FT9				
Grouping	Analyte					
SOIL						
Physical Tests	% Moisture (%)	20.0				
	pH (pH)	7.13				
Metals	Antimony (Sb) (mg/kg)	<10				
	Arsenic (As) (mg/kg)	9.4				
	Barium (Ba) (mg/kg)	56.6				
	Beryllium (Be) (mg/kg)	<0.50				
	Cadmium (Cd) (mg/kg)	<0.50				
	Chromium (Cr) (mg/kg)	10.5				
	Cobalt (Co) (mg/kg)	3.6				
	Copper (Cu) (mg/kg)	6.4				
	Lead (Pb) (mg/kg)	<30				
	Mercury (Hg) (mg/kg)	0.0076				
	Molybdenum (Mo) (mg/kg)	<4.0				
	Nickel (Ni) (mg/kg)	5.9				
	Selenium (Se) (mg/kg)	<2.0				
	Silver (Ag) (mg/kg)	<2.0				
	Thallium (Tl) (mg/kg)	<1.0				
	Tin (Sn) (mg/kg)	<5.0				
	Vanadium (V) (mg/kg)	27.4				
	Zinc (Zn) (mg/kg)	24.9				
Hydrocarbons	EPH10-19 (mg/kg)	<200				
	EPH19-32 (mg/kg)	<200				
	LEPH (mg/kg)	<200				
	HEPH (mg/kg)	<200				
Polycyclic Aromatic Hydrocarbons	Acenaphthene (mg/kg)	<0.050				
	Acenaphthylene (mg/kg)	<0.050				
	Anthracene (mg/kg)	<0.050				
	Benz(a)anthracene (mg/kg)	<0.050				
	Benzo(a)pyrene (mg/kg)	<0.050				
	Benzo(b)fluoranthene (mg/kg)	<0.050				
	Benzo(g,h,i)perylene (mg/kg)	<0.050				
	Benzo(k)fluoranthene (mg/kg)	<0.050				
	Chrysene (mg/kg)	<0.050				
	Dibenz(a,h)anthracene (mg/kg)	<0.050				
	Fluoranthene (mg/kg)	<0.050				
	Fluorene (mg/kg)	<0.050				
	Indeno(1,2,3-c,d)pyrene (mg/kg)	<0.050				
	2-Methylnaphthalene (mg/kg)	<0.050				
	Naphthalene (mg/kg)	<0.050				
	Phenanthrene (mg/kg)	<0.050				

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample ID Description Sampled Date Sampled Time Client ID		L796959-7	L796959-9	L796959-10	L796959-11	L796959-12
Grouping	Analyte					
SOIL						
Polycyclic Aromatic Hydrocarbons	Pyrene (mg/kg)	<0.050	<0.050	<0.050	<0.050	<0.050
	Surrogate: d10-Acenaphthene (SS) (%)	99	95	103	99	91
	Surrogate: d12-Chrysene (SS) (%)	72	70	84	71	74
	Surrogate: d8-Naphthalene (SS) (%)	94	95	100	97	89
	Surrogate: d10-Phenanthrene (SS) (%)	89	86	94	90	87

ALS LABORATORY GROUP ANALYTICAL REPORT

		Sample ID Description Sampled Date Sampled Time Client ID	L796959-15 15-JUL-09 MW09-19(15FT-16FT9)				
Grouping	Analyte						
SOIL							
Polycyclic Aromatic Hydrocarbons	Pyrene (mg/kg)	<0.050					
	Surrogate: d10-Acenaphthene (SS) (%)	94					
	Surrogate: d12-Chrysene (SS) (%)	66					
	Surrogate: d8-Naphthalene (SS) (%)	91					
	Surrogate: d10-Phenanthrene (SS) (%)	84					
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ALS LABORATORY GROUP ANALYTICAL REPORT

Sample ID Description Sampled Date Sampled Time Client ID		L796959-1	L796959-2	L796959-3	L796959-4	L796959-5
		14-JUL-09	19-JUL-09	19-JUL-09	19-JUL-09	19-JUL-09
		MW09-15	MW09-16	MW09-17	MW09-18	MW09-18R
Grouping	Analyte					
WATER						
Physical Tests	Conductivity (uS/cm)	1010	1930	2570	2660	2660
	Hardness (as CaCO3) (mg/L)	581	1210	1760	1830	1860
	pH (pH)	7.08	7.38	7.74	7.71	7.71
	Total Dissolved Solids (mg/L)	757	1650	2380	2490	2440
Anions and Nutrients	Acidity (as CaCO3) (mg/L)	23.3	35.4	28.5	30.3	29.7
	Alkalinity, Total (as CaCO3) (mg/L)	288	298	435	427	425
	Ammonia as N (mg/L)	0.331	0.079	0.229	0.041	0.066
	Bromide (Br) (mg/L)	<0.050	<2.5	<2.5	<2.5	<2.5
	Chloride (Cl) (mg/L)	<0.50	<25	<25	<25	<25
	Fluoride (F) (mg/L)	0.070	0.152	0.144	0.143	0.122
	Nitrate (as N) (mg/L)	<0.0050	<0.25	<0.25	<0.25	<0.25
	Nitrite (as N) (mg/L)	0.0027	<0.050	<0.050	<0.050	<0.050
	Sulfate (SO4) (mg/L)	289	934	1360	1490	1470
Cyanides	Cyanide, Weak Acid Diss (mg/L)		<0.0050	<0.0050	<0.0050	<0.0050
	Cyanide, Total (mg/L)		<0.0050	<0.0050	<0.0050	<0.0050
	Cyanate (CNO) (mg/L)		<1.8	<0.50	<0.50	<0.50
Dissolved Metals	Aluminum (Al)-Dissolved (mg/L)	<0.025	<0.025	<0.025	<0.025	<0.025
	Antimony (Sb)-Dissolved (mg/L)	0.0178	0.175	<0.0025	<0.0025	<0.0025
	Arsenic (As)-Dissolved (mg/L)	0.122	0.0506	0.0119	0.0382	0.0423
	Barium (Ba)-Dissolved (mg/L)	<0.020	0.034	<0.020	<0.020	<0.020
	Beryllium (Be)-Dissolved (mg/L)	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
	Bismuth (Bi)-Dissolved (mg/L)	<0.20	<0.20	<0.20	<0.20	<0.20
	Boron (B)-Dissolved (mg/L)	<0.10	0.27	0.27	<0.10	<0.10
	Cadmium (Cd)-Dissolved (mg/L)	0.00754	0.0558	<0.000085	<0.000085	<0.000085
	Calcium (Ca)-Dissolved (mg/L)	157	276	327	352	355
	Chromium (Cr)-Dissolved (mg/L)	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
	Cobalt (Co)-Dissolved (mg/L)	<0.0015	0.0020	<0.0015	<0.0015	<0.0015
	Copper (Cu)-Dissolved (mg/L)	<0.0050	0.0100	<0.0050	<0.0050	<0.0050
	Iron (Fe)-Dissolved (mg/L)	0.192	0.389	<0.030	<0.030	<0.030
	Lead (Pb)-Dissolved (mg/L)	0.0171	0.0364	<0.0025	<0.0025	<0.0025
	Lithium (Li)-Dissolved (mg/L)	<0.025	<0.025	<0.025	<0.025	<0.025
	Magnesium (Mg)-Dissolved (mg/L)	45.7	126	230	231	236
	Manganese (Mn)-Dissolved (mg/L)	0.905	0.389	0.0164	0.349	0.409
	Mercury (Hg)-Dissolved (mg/L)	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
	Molybdenum (Mo)-Dissolved (mg/L)	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
	Nickel (Ni)-Dissolved (mg/L)	<0.0050	0.0071	<0.0050	<0.0050	<0.0050
	Phosphorus (P)-Dissolved (mg/L)	<0.30	<0.30	<0.30	<0.30	<0.30
	Potassium (K)-Dissolved (mg/L)	<2.0	6.5	7.2	6.9	7.1
	Selenium (Se)-Dissolved (mg/L)	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
	Silicon (Si)-Dissolved (mg/L)	5.85	5.29	4.74	4.80	4.87
	Silver (Ag)-Dissolved (mg/L)	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010

ALS LABORATORY GROUP ANALYTICAL REPORT

		Sample ID				
		Description				
		Sampled Date				
		Sampled Time				
		Client ID				
Grouping	Analyte					
WATER						
Physical Tests	Conductivity (uS/cm)	2570				
	Hardness (as CaCO3) (mg/L)	1740				
	pH (pH)	7.29				
	Total Dissolved Solids (mg/L)	2260				
Anions and Nutrients	Acidity (as CaCO3) (mg/L)	52.7				
	Alkalinity, Total (as CaCO3) (mg/L)	389				
	Ammonia as N (mg/L)	3.24				
	Bromide (Br) (mg/L)	<2.5				
	Chloride (Cl) (mg/L)	<25				
	Fluoride (F) (mg/L)	0.095				
	Nitrate (as N) (mg/L)	<0.25				
	Nitrite (as N) (mg/L)	<0.050				
	Sulfate (SO4) (mg/L)	1390				
Cyanides	Cyanide, Weak Acid Diss (mg/L)	<0.0050				
	Cyanide, Total (mg/L)	<0.0050				
	Cyanate (CNO) (mg/L)	4.26				
Dissolved Metals	Aluminum (Al)-Dissolved (mg/L)	<0.025				
	Antimony (Sb)-Dissolved (mg/L)	<0.0025				
	Arsenic (As)-Dissolved (mg/L)	0.0769				
	Barium (Ba)-Dissolved (mg/L)	0.082				
	Beryllium (Be)-Dissolved (mg/L)	<0.0050				
	Bismuth (Bi)-Dissolved (mg/L)	<0.20				
	Boron (B)-Dissolved (mg/L)	0.32				
	Cadmium (Cd)-Dissolved (mg/L)	<0.000085				
	Calcium (Ca)-Dissolved (mg/L)	368				
	Chromium (Cr)-Dissolved (mg/L)	<0.0050				
	Cobalt (Co)-Dissolved (mg/L)	0.0024				
	Copper (Cu)-Dissolved (mg/L)	<0.0050				
	Iron (Fe)-Dissolved (mg/L)	40.6				
	Lead (Pb)-Dissolved (mg/L)	<0.0025				
	Lithium (Li)-Dissolved (mg/L)	<0.025				
	Magnesium (Mg)-Dissolved (mg/L)	200				
	Manganese (Mn)-Dissolved (mg/L)	2.39				
	Mercury (Hg)-Dissolved (mg/L)	<0.000020				
	Molybdenum (Mo)-Dissolved (mg/L)	<0.0050				
	Nickel (Ni)-Dissolved (mg/L)	<0.0050				
	Phosphorus (P)-Dissolved (mg/L)	0.46				
	Potassium (K)-Dissolved (mg/L)	4.4				
	Selenium (Se)-Dissolved (mg/L)	<0.0050				
	Silicon (Si)-Dissolved (mg/L)	7.88				
	Silver (Ag)-Dissolved (mg/L)	<0.00010				

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample ID Description Sampled Date Sampled Time Client ID		L796959-1	L796959-2	L796959-3	L796959-4	L796959-5
		14-JUL-09	19-JUL-09	19-JUL-09	19-JUL-09	19-JUL-09
		MW09-15	MW09-16	MW09-17	MW09-18	MW09-18R
Grouping	Analyte					
WATER						
Dissolved Metals	Sodium (Na)-Dissolved (mg/L)	7.7	18.9	10.8	10.0	10.2
	Strontium (Sr)-Dissolved (mg/L)	1.48	0.670	0.972	0.981	1.00
	Thallium (Tl)-Dissolved (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
	Tin (Sn)-Dissolved (mg/L)	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
	Titanium (Ti)-Dissolved (mg/L)	0.011	0.013	0.014	0.015	0.014
	Uranium (U)-Dissolved (mg/L)	0.0860	0.0037	0.0070	0.0068	0.0070
	Vanadium (V)-Dissolved (mg/L)	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
	Zinc (Zn)-Dissolved (mg/L)	0.437	4.44	<0.0050	<0.0050	<0.0050
Hydrocarbons	EPH10-19 (mg/L)		<0.25	<0.25	<0.25	<0.25
	EPH19-32 (mg/L)		<0.25	<0.25	<0.25	<0.25
	LEPH (mg/L)		<0.25	<0.25	<0.25	<0.25
	HEPH (mg/L)		<0.25	<0.25	<0.25	<0.25
Polycyclic Aromatic Hydrocarbons	Acenaphthene (mg/L)		<0.000050	<0.000050	<0.000050	<0.000050
	Acenaphthylene (mg/L)		<0.000050	<0.000050	<0.000050	<0.000050
	Acridine (mg/L)		<0.000050	<0.000050	<0.000050	<0.000050
	Anthracene (mg/L)		<0.000050	<0.000050	<0.000050	<0.000050
	Benz(a)anthracene (mg/L)		<0.000050	<0.000050	<0.000050	<0.000050
	Benzo(a)pyrene (mg/L)		<0.000010	<0.000010	<0.000010	<0.000010
	Benzo(b)fluoranthene (mg/L)		<0.000050	<0.000050	<0.000050	<0.000050
	Benzo(g,h,i)perylene (mg/L)		<0.000050	<0.000050	<0.000050	<0.000050
	Benzo(k)fluoranthene (mg/L)		<0.000050	<0.000050	<0.000050	<0.000050
	Chrysene (mg/L)		<0.000050	<0.000050	<0.000050	<0.000050
	Dibenz(a,h)anthracene (mg/L)		<0.000050	<0.000050	<0.000050	<0.000050
	Fluoranthene (mg/L)		<0.000050	<0.000050	<0.000050	<0.000050
	Fluorene (mg/L)		<0.000050	<0.000050	<0.000050	<0.000050
	Indeno(1,2,3-c,d)pyrene (mg/L)		<0.000050	<0.000050	<0.000050	<0.000050
	Naphthalene (mg/L)		<0.000050	<0.000050	<0.000050	<0.000050
	Phenanthrene (mg/L)		<0.000050	<0.000050	<0.000050	<0.000050
	Pyrene (mg/L)		<0.000050	<0.000050	<0.000050	<0.000050
	Quinoline (mg/L)		<0.000050	<0.000050	<0.000050	<0.000050
	Surrogate: d10-Acenaphthene (SS) (%)		93	97	98	96
	Surrogate: d9-Acridine (SS) (%)		90	92	92	89
	Surrogate: d12-Chrysene (SS) (%)		89	91	92	90
	Surrogate: d8-Naphthalene (SS) (%)		87	93	93	83
	Surrogate: d10-Phenanthrene (SS) (%)		94	97	97	97

ALS LABORATORY GROUP ANALYTICAL REPORT

		Sample ID				
		Description				
		Sampled Date				
		Sampled Time				
		Client ID				
Grouping	Analyte					
WATER						
Dissolved Metals	Sodium (Na)-Dissolved (mg/L)	20.5				
	Strontium (Sr)-Dissolved (mg/L)	0.973				
	Thallium (Tl)-Dissolved (mg/L)	<0.0010				
	Tin (Sn)-Dissolved (mg/L)	<0.0025				
	Titanium (Ti)-Dissolved (mg/L)	0.015				
	Uranium (U)-Dissolved (mg/L)	<0.0010				
	Vanadium (V)-Dissolved (mg/L)	<0.0050				
	Zinc (Zn)-Dissolved (mg/L)	0.0088				
Hydrocarbons	EPH10-19 (mg/L)	<0.25				
	EPH19-32 (mg/L)	<0.25				
	LEPH (mg/L)	<0.25				
	HEPH (mg/L)	<0.25				
Polycyclic Aromatic Hydrocarbons	Acenaphthene (mg/L)	<0.000050				
	Acenaphthylene (mg/L)	<0.000050				
	Acridine (mg/L)	<0.000050				
	Anthracene (mg/L)	<0.000050				
	Benz(a)anthracene (mg/L)	<0.000050				
	Benzo(a)pyrene (mg/L)	<0.000010				
	Benzo(b)fluoranthene (mg/L)	<0.000050				
	Benzo(g,h,i)perylene (mg/L)	<0.000050				
	Benzo(k)fluoranthene (mg/L)	<0.000050				
	Chrysene (mg/L)	<0.000050				
	Dibenz(a,h)anthracene (mg/L)	<0.000050				
	Fluoranthene (mg/L)	<0.000050				
	Fluorene (mg/L)	<0.000050				
	Indeno(1,2,3-c,d)pyrene (mg/L)	<0.000050				
	Naphthalene (mg/L)	<0.000050				
	Phenanthrene (mg/L)	<0.000050				
	Pyrene (mg/L)	<0.000050				
	Quinoline (mg/L)	<0.000050				
	Surrogate: d10-Acenaphthene (SS) (%)	99				
	Surrogate: d9-Acridine (SS) (%)	93				
	Surrogate: d12-Chrysene (SS) (%)	93				
	Surrogate: d8-Naphthalene (SS) (%)	95				
	Surrogate: d10-Phenanthrene (SS) (%)	99				

Reference Information

Additional Comments for Sample Listed:

Samplenum	Matrix	Report Remarks	Sample Comments
Methods Listed (if applicable):			
ALS Test Code	Matrix	Test Description	Analytical Method Reference(Based On)
ACY-PCT-VA	Water	Acidity by Automatic Titration	APHA 2310 "Acidity"
This analysis is carried out using procedures adapted from APHA Method 2310 "Acidity". Acidity is determined by potentiometric titration to a specified endpoint.			
ACY-PCT-VA	Water	Acidity by Automatic Titration	APHA 2310 Acidity
This analysis is carried out using procedures adapted from APHA Method 2310 "Acidity". Acidity is determined by potentiometric titration to a specified endpoint.			
ALK-COL-VA	Water	Alkalinity by Colourimetric (Automated)	APHA 310.2
This analysis is carried out using procedures adapted from EPA Method 310.2 "Alkalinity". Total Alkalinity is determined using the methyl orange colourimetric method.			
ANIONS-BR-IC-VA	Water	Bromide by Ion Chromatography	APHA 4110 B.
This analysis is carried out using procedures adapted from APHA Method 4110 B. "Ion Chromatography with Chemical Suppression of Eluent Conductivity" and EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography".			
ANIONS-CL-IC-VA	Water	Chloride by Ion Chromatography	APHA 4110 B.
This analysis is carried out using procedures adapted from APHA Method 4110 B. "Ion Chromatography with Chemical Suppression of Eluent Conductivity" and EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography".			
ANIONS-F-IC-VA	Water	Fluoride by Ion Chromatography	APHA 4110 B.
This analysis is carried out using procedures adapted from APHA Method 4110 B. "Ion Chromatography with Chemical Suppression of Eluent Conductivity" and EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography".			
ANIONS-NO2-IC-VA	Water	Nitrite by Ion Chromatography	APHA 4110 B.
This analysis is carried out using procedures adapted from APHA Method 4110 B. "Ion Chromatography with Chemical Suppression of Eluent Conductivity" and EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography". Specifically, the nitrite detection is by UV absorbance and not conductivity.			
ANIONS-NO3-IC-VA	Water	Nitrate by Ion Chromatography	APHA 4110 B.
This analysis is carried out using procedures adapted from APHA Method 4110 B. "Ion Chromatography with Chemical Suppression of Eluent Conductivity" and EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography". Specifically, the nitrate detection is by UV absorbance and not conductivity.			
ANIONS-SO4-IC-VA	Water	Sulfate by Ion Chromatography	APHA 4110 B.
This analysis is carried out using procedures adapted from APHA Method 4110 B. "Ion Chromatography with Chemical Suppression of Eluent Conductivity" and EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography".			
CN-T-MID-HH-COL-VA	Water	Total Cyanide by HH Distillation	APHA 4500-CN "Cyanide"
This analysis is carried out using procedures adapted from APHA Method 4500-CN "Cyanide". Total or strong acid dissociable (SAD) cyanide are determined by sample distillation and analysis using the chloramine-T colourimetric method.			
CN-T-MID-HH-COL-VA	Water	Total Cyanide by HH Distillation	APHA 4500-CN Cyanide
This analysis is carried out using procedures adapted from APHA Method 4500-CN "Cyanide". Total or strong acid dissociable (SAD) cyanide are determined by sample distillation and analysis using the chloramine-T colourimetric method.			
CN-WAD-MID-COL-VA	Water	Weak Acid Cyanide by Colorimetric	APHA 4500-CN "Cyanide"

Reference Information

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Analytical Method Reference(Based On)
<p>This analysis is carried out using procedures adapted from APHA Method 4500-CN "Cyanide". Weak acid dissociable (WAD) cyanide are determined by sample distillation and analysis using the chloramine-T colourimetric method.</p>			
CN-WAD-MID-COL-VA	Water	Weak Acid Cyanide by Colorimetric	APHA 4500-CN Cyanide
<p>This analysis is carried out using procedures adapted from APHA Method 4500-CN "Cyanide". Weak acid dissociable (WAD) cyanide are determined by sample distillation and analysis using the chloramine-T colourimetric method.</p>			
CNO-SIE-VA	Water	Cyanate by SIE	APHA 4500-CN Cyanide
<p>This analysis is carried out using procedures adapted from APHA Method 4500-CN "Cyanide". Cyanate is determined by the cyanate hydrolysis method using an ammonia selective electrode.</p>			
EC-PCT-VA	Water	Conductivity (Automated)	APHA 2510 Auto. Conduc.
<p>This analysis is carried out using procedures adapted from APHA Method 2510 "Conductivity". Conductivity is determined using a conductivity electrode.</p>			
EPH-SF-FID-VA	Water	EPH in Water by GCFID	BCMOE EPH GCFID
<p>This analysis is carried out in accordance with the British Columbia Ministry of Environment, Lands and Parks (BCMELP) Analytical Method for Contaminated Sites "Extractable Petroleum Hydrocarbons in Water by GC/FID" (Version 2.1, July 1999). The procedure involves extraction of the entire water sample with dichloromethane. The extract is then solvent exchanged to toluene and analysed by capillary column gas chromatography with flame ionization detection (GC/FID). EPH results include Polycyclic Aromatic Hydrocarbons (PAH) and are therefore not equivalent to Light and Heavy Extractable Petroleum Hydrocarbons (LEPH/HEPH).</p>			
EPH-TUMB-FID-VA	Soil	EPH in Solids by Tumbler and GCFID	BCMELP CSR
<p>Extractable Hydrocarbons in Sediment/Soil This analysis is carried out in accordance with the British Columbia Ministry of Environment, Lands and Parks (BCMELP) Analytical Method for Contaminated Sites "Extractable Petroleum Hydrocarbons in Solids by GC/FID, Version 2.1 July 1999". The procedure, based on EPA 3570, uses a rotary extraction technique to extract a subsample of the sediment/soil with a 1:1 mixture of hexane and acetone. The extract is then solvent exchanged to toluene or kept in hexane/acetone and analyzed by capillary column gas chromatography with flame ionization detection (GC/FID). EPH results include Polycyclic Aromatic Hydrocarbons (PAH) and are therefore not equivalent to Light and Heavy Extractable Petroleum Hydrocarbons (LEPH/HEPH).</p> <p>Accuracy target values for Reference Materials used in this method are derived from averages of long-term method performance, as certified values do not exist for the reported parameters.</p>			
F-SIE-VA	Water	Fluoride by SIE	APHA 4500-F "Fluoride"
<p>This analysis is carried out using procedures adapted from APHA Method 4500-F "Fluoride". Fluoride is determined using a selective ion electrode. This method has a significant negative interference (i.e. results could be biased low) when Al³⁺ is present in the sample at a concentration greater than 2.5 mg/L.</p>			
F-SIE-VA	Water	Fluoride by SIE	APHA 4500-F Fluoride
<p>This analysis is carried out using procedures adapted from APHA Method 4500-F "Fluoride". Fluoride is determined using a selective ion electrode. This method has a significant negative interference (i.e. results could be biased low) when Al³⁺ is present in the sample at a concentration greater than 2.5 mg/L.</p>			
HARDNESS-CALC-VA	Water	Hardness	APHA 2340B
<p>Hardness is calculated from Calcium and Magnesium concentrations, and is expressed as calcium carbonate equivalents.</p>			
HG-CCME-CVAFS-VA	Soil	CVAFS Hg in Soil (CCME)	CCME
<p>This analysis is carried out using procedures from CSR Analytical Method 8 "Strong Acid Leachable Metals (SALM) in Soil", BC Ministry of Environment, Lands and Parks, 26 June 2001, and procedures adapted from "Test Methods for Evaluating Solid Waste", SW-846 Method 3050B United States Environmental Protection Agency (EPA). The sample is manually homogenized, dried at 60 degrees Celsius, sieved through a 2 mm (10 mesh) sieve, and a representative subsample of the dry material is weighed. The sample is then digested at 90 degrees Celsius for 2 hours by block digester using a 1:1 ratio of concentrated nitric and hydrochloric acids. Instrumental analysis is by atomic fluorescence spectrophotometry (EPA Method 7000 series).</p>			

Reference Information

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Analytical Method Reference(Based On)
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Method Limitation: This method is not a total digestion technique. It is a very strong acid digestion that is intended to dissolve those metals that may be environmentally available. By design, elements bound in silicate structures are not normally dissolved by this procedure as they are not usually mobile in the environment.

HG-DIS-CCME-CVAFS-VA Water Diss. Mercury in Water by CVAFS (CCME) EPA 3005A/245.7

This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures may involve preliminary sample treatment by filtration (EPA Method 3005A) and involves a cold-oxidation of the acidified sample using bromine monochloride prior to reduction of the sample with stannous chloride. Instrumental analysis is by cold vapour atomic fluorescence spectrophotometry (EPA Method 245.7).

LEPH/HEPH-CALC-VA Water LEPHs and HEPHs BC MOE LABORATORY MANUAL (2005)

Light and Heavy Extractable Petroleum Hydrocarbons in Solids. These results are determined according to the British Columbia Ministry of Environment, Lands, and Parks Analytical Method for Contaminated Sites "Calculation of Light and Heavy Extractable Petroleum Hydrocarbons in Solids or Water". According to this method, LEPH and HEPH are calculated by subtracting selected Polycyclic Aromatic Hydrocarbon results from Extractable Petroleum Hydrocarbon results. To calculate LEPH, the individual results for Naphthalene and Phenanthrene are subtracted from EPH(C10-19). To calculate HEPH, the individual results for Benz(a)anthracene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Dibenz(a,h)anthracene, Indeno(1,2,3-c,d)pyrene, and Pyrene are subtracted from EPH(C19-32). Analysis of Extractable Petroleum Hydrocarbons adheres to all prescribed elements of the BCMELP method "Extractable Petroleum Hydrocarbons in Solids by GC/FID" (Version 2.1, July 20, 1999).

LEPH/HEPH-CALC-VA Soil LEPHs and HEPHs BC MOE LABORATORY MANUAL (2005)

Light and Heavy Extractable Petroleum Hydrocarbons in Solids. These results are determined according to the British Columbia Ministry of Environment, Lands, and Parks Analytical Method for Contaminated Sites "Calculation of Light and Heavy Extractable Petroleum Hydrocarbons in Solids or Water". According to this method, LEPH and HEPH are calculated by subtracting selected Polycyclic Aromatic Hydrocarbon results from Extractable Petroleum Hydrocarbon results. To calculate LEPH, the individual results for Naphthalene and Phenanthrene are subtracted from EPH(C10-19). To calculate HEPH, the individual results for Benz(a)anthracene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Dibenz(a,h)anthracene, Indeno(1,2,3-c,d)pyrene, and Pyrene are subtracted from EPH(C19-32). Analysis of Extractable Petroleum Hydrocarbons adheres to all prescribed elements of the BCMELP method "Extractable Petroleum Hydrocarbons in Solids by GC/FID" (Version 2.1, July 20, 1999).

MET-CSR-FULL-ICP-VA Soil Metals in Soil by ICPOES (CSR SALM) BCMELP CSR SALM METHOD 8

This analysis is carried out using procedures from CSR Analytical Method 8 "Strong Acid Leachable Metals (SALM) in Soil", BC Ministry of Environment, Lands and Parks, 26 June 2001, and procedures adapted from "Test Methods for Evaluating Solid Waste", SW-846 Method 3050B United States Environmental Protection Agency (EPA). The sample is manually homogenized, dried at 60 degrees Celsius, sieved through a 2 mm (10 mesh) sieve, and a representative subsample of the dry material is weighed. The sample is then digested at 90 degrees Celsius for 2 hours by block digester using a 1:1 ratio of concentrated nitric and hydrochloric acids. Instrumental analysis is by inductively coupled plasma - optical emission spectrophotometry (EPA Method 6010B).

Method Limitation: This method is not a total digestion technique. It is a very strong acid digestion that is intended to dissolve those metals that may be environmentally available. By design, elements bound in silicate structures are not normally dissolved by this procedure as they are not usually mobile in the environment.

MET-DIS-CCME-ICP-VA Water Diss. Metals in Water by ICPOES (CCME) EPA SW-846 3005A/6010B

This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures may involve preliminary sample treatment by acid digestion, using either hotblock or microwave oven, or filtration (EPA Method 3005A). Instrumental analysis is by inductively coupled plasma - optical emission spectrophotometry (EPA Method 6010B).

MET-DIS-CCME-MS-VA Water Diss. Metals in Water by ICPMS (CCME) EPA SW-846 3005A/6020A

This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures may involve preliminary sample treatment by acid digestion, using either hotblock or microwave oven, or filtration (EPA Method 3005A). Instrumental analysis is by inductively coupled plasma - mass spectrometry (EPA Method 6020A).

MET-DIS-ICP-VA Water Dissolved Metals in Water by ICPOES EPA SW-846 3005A/6010B

Reference Information

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Analytical Method Reference(Based On)
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This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedure involves filtration (EPA Method 3005A) and analysis by inductively coupled plasma - optical emission spectrophotometry (EPA Method 6010B).

MOISTURE-VA	Soil	Moisture content	ASTM METHOD D2974-00
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This analysis is carried out gravimetrically by drying the sample at 105 C for a minimum of six hours.

NH3-SIE-VA	Water	Ammonia by SIE	APHA 4500 D. - NH3 NITROGEN (AMMONIA)
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This analysis is carried out, on sulphuric acid preserved samples, using procedures adapted from APHA Method 4500-NH3 "Nitrogen (Ammonia)". Ammonia is determined using an ammonia selective electrode.

PAH-SF-MS-VA	Water	PAH in Water by GCMS	EPA Methods 3510, 3630 & 8270
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This analysis is carried out using procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846, Methods 3510, 3630 & 8270, published by the United States Environmental Protection Agency (EPA). The procedure involves extraction of the entire water sample with dichloromethane. The extract is then solvent exchanged to toluene prior to analysis by capillary column gas chromatography with mass spectrometric detection (GC/MS). Surrogate recoveries may not be reported in cases where interferences from the sample matrix prevent accurate quantitation.

PAH-SURR-MS-VA	Soil	PAH Surrogates for Soils	EPA METHODS 3570, 3545A & 8270
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PAH-TUMB-H/A-MS-VA	Soil	PAH by Tumbler HEX/ACE with GCMS	EPA METHODS 3570 & 8270.
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Polycyclic Aromatic Hydrocarbons in Sediment/Soil

This analysis is carried out using procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846, Methods 3570 & 8270, published by the United States Environmental Protection Agency (EPA). The procedure uses a mechanical shaking technique to extract a subsample of the sediment/soil with a 1:1 mixture of hexane and acetone. The extract is then solvent exchanged to toluene. The final extract is analysed by capillary column gas chromatography with mass spectrometric detection (GC/MS). Surrogate recoveries may not be reported in cases where interferences from the sample matrix prevent accurate quantitation.

PH-1:2-VA	Soil	CSR pH by 1:2 Water Leach	BC WLAP METHOD: PH, ELECTROMETRIC, SOIL
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This analysis is carried out in accordance with procedures described in the pH, Electrometric in Soil and Sediment method - Section B Physical/Inorganic and Misc. Constituents, BC Environmental Laboratory Manual 2007. The procedure involves mixing the dried (at <60°C) and sieved (No. 10 / 2mm) sample with deionized/distilled water at a 1:2 ratio of sediment to water. The pH of the solution is then measured using a standard pH probe.

PH-PCT-VA	Water	pH by Meter (Automated)	APHA 4500-H "pH Value"
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This analysis is carried out using procedures adapted from APHA Method 4500-H "pH Value". The pH is determined in the laboratory using a pH electrode

PH-PCT-VA	Water	pH by Meter (Automated)	APHA 4500-H pH Value
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This analysis is carried out using procedures adapted from APHA Method 4500-H "pH Value". The pH is determined in the laboratory using a pH electrode

TDS-VA	Water	Total Dissolved Solids by Gravimetric	APHA 2540 C - GRAVIMETRIC
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This analysis is carried out using procedures adapted from APHA Method 2540 "Solids". Solids are determined gravimetrically. Total Dissolved Solids (TDS) are determined by filtering a sample through a glass fibre filter, TDS is determined by evaporating the filtrate to dryness at 180 degrees celsius.

TL-CSR-MS-VA	Soil	ICPMS TI in Soil by CSR SALM	BCMELP CSR SALM Method 8
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This analysis is carried out using procedures from CSR Analytical Method 8 "Strong Acid Leachable Metals (SALM) in Soil", BC Ministry of Environment, Lands and Parks, 26 June 2001, and procedures adapted from "Test Methods for Evaluating Solid Waste", SW-846 Method 3050B United States Environmental Protection Agency (EPA). The sample is manually homogenized, dried at 60 degrees Celsius, sieved through a 2 mm (10 mesh) sieve, and a representative subsample of the dry material is weighed. The sample is then digested at 90 degrees Celsius for 2 hours by either hotplate or block digester using a 1:1 ratio of concentrated nitric and hydrochloric acids. Instrumental analysis is by inductively coupled plasma - mass spectrometry (EPA Method 6020A).

Reference Information

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Analytical Method Reference(Based On)
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Method Limitation: This method is not a total digestion technique. It is a very strong acid digestion that is intended to dissolve those metals that may be environmentally available. By design, elements bound in silicate structures are not normally dissolved by this procedure as they are not usually mobile in the environment.

** Laboratory Methods employed follow in-house procedures, which are generally based on nationally or internationally accepted methodologies. The last two letters of the above ALS Test Code column indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location	Laboratory Definition Code	Laboratory Location
VA	ALS LABORATORY GROUP - VANCOUVER, BC, CANADA		

GLOSSARY OF REPORT TERMS

Surr - A surrogate is an organic compound that is similar to the target analyte(s) in chemical composition and behavior but not normally detected in environmental samples. Prior to sample processing, samples are fortified with one or more surrogate compounds.

The reported surrogate recovery value provides a measure of method efficiency.

mg/kg (units) - unit of concentration based on mass, parts per million

mg/L (units) - unit of concentration based on volume, parts per million

N/A - Result not available. Refer to qualifier code and definition for explanation

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

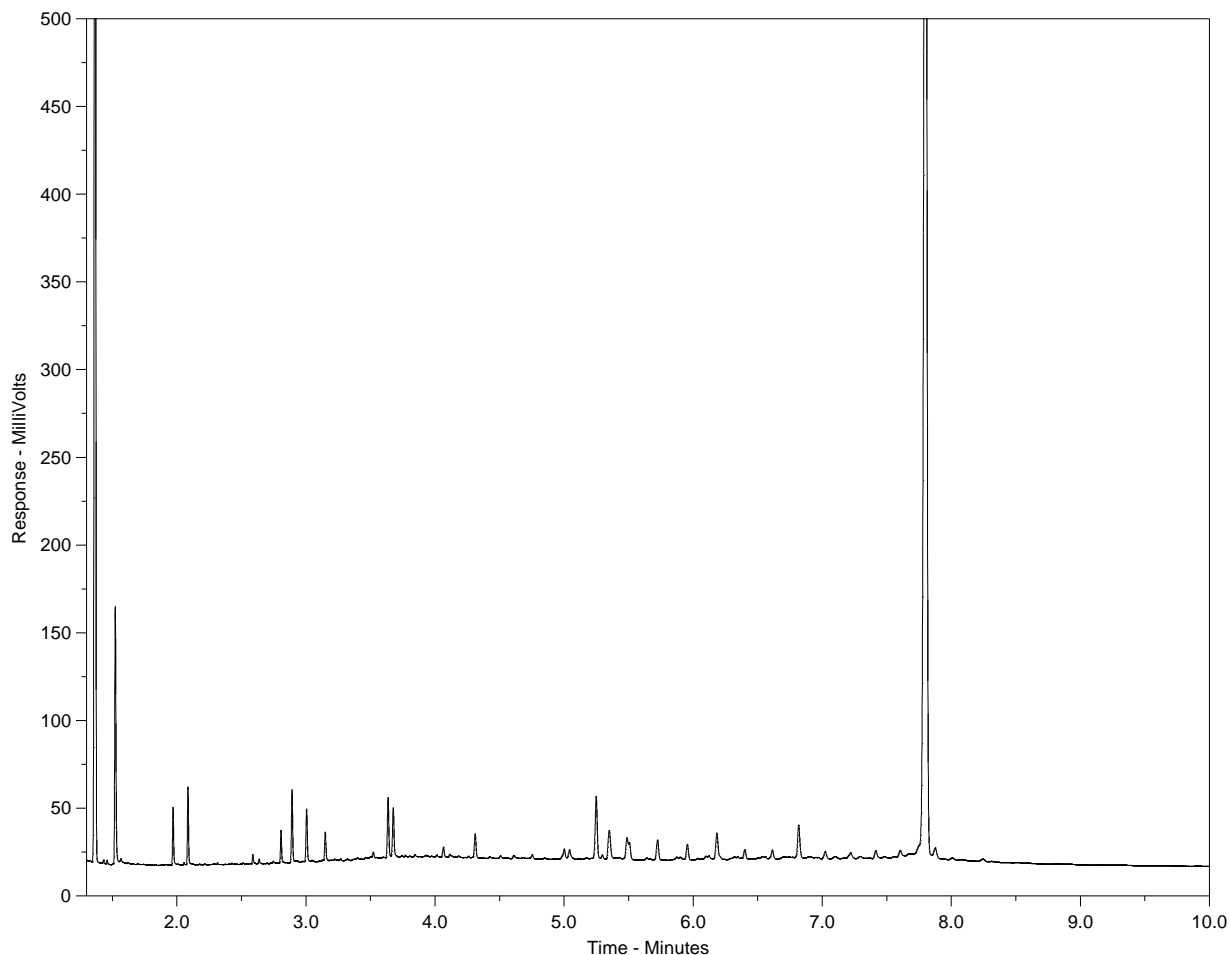
Although test results are generated under strict QA/QC protocols, any unsigned test reports, faxes, or emails are considered preliminary.

ALS Laboratory Group has an extensive QA/QC program where all analytical data reported is analyzed using approved referenced procedures followed by checks and reviews by senior managers and quality assurance personnel. However, since the results are obtained from chemical measurements and thus cannot be guaranteed, ALS Laboratory Group assumes no liability for the use or interpretation of the results.

Hydrocarbon Distribution Report



ALS Sample ID: L796959-2
Client Sample ID: MW09-16



nC10	nC19	nC32	Surrogate	nC40
174°C	330°C	467°C		522°C
345°F	626°F	873°F		972°F
← Gasoline →		← Diesel / Jet Fuels →		
		← Motor Oils / Lube Oils / Grease →		

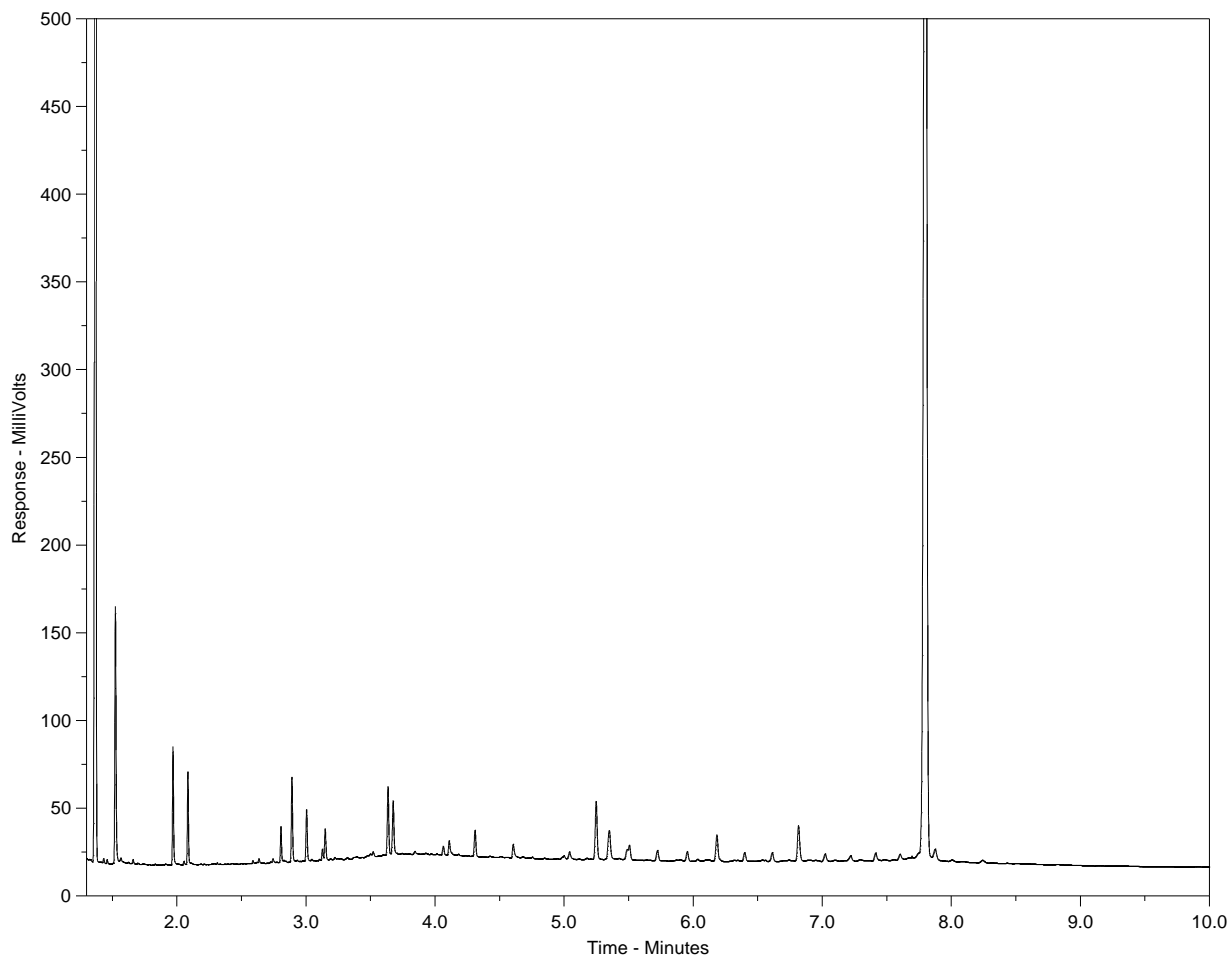
Chromatograms from the ALS HDR Reference Library indicate the patterns of hydrocarbon compounds found in petroleum products, reference standards, and some examples of natural plant and organic materials. The chromatogram from left to right roughly corresponds to increasing boiling point from approximately 174°C to 522°C, a range encompassing most middle distillate and residual petroleum products (diesel, fuel oils, lubricating oils, etc). Comparison of library chromatograms with those of unknown samples may aid in the identification of contaminants. Surrogate compounds, which are added to samples by the laboratory, are not present in HDR library chromatograms.

Please note that retention times may vary between samples by as much as 0.5 minutes.

Hydrocarbon Distribution Report



ALS Sample ID: L796959-3
Client Sample ID: MW09-17



nC10	nC19	nC32	Surrogate	nC40
174°C	330°C	467°C		522°C
345°F	626°F	873°F		972°F
← Gasoline →		← Motor Oils / Lube Oils / Grease →		
← Diesel / Jet Fuels →				

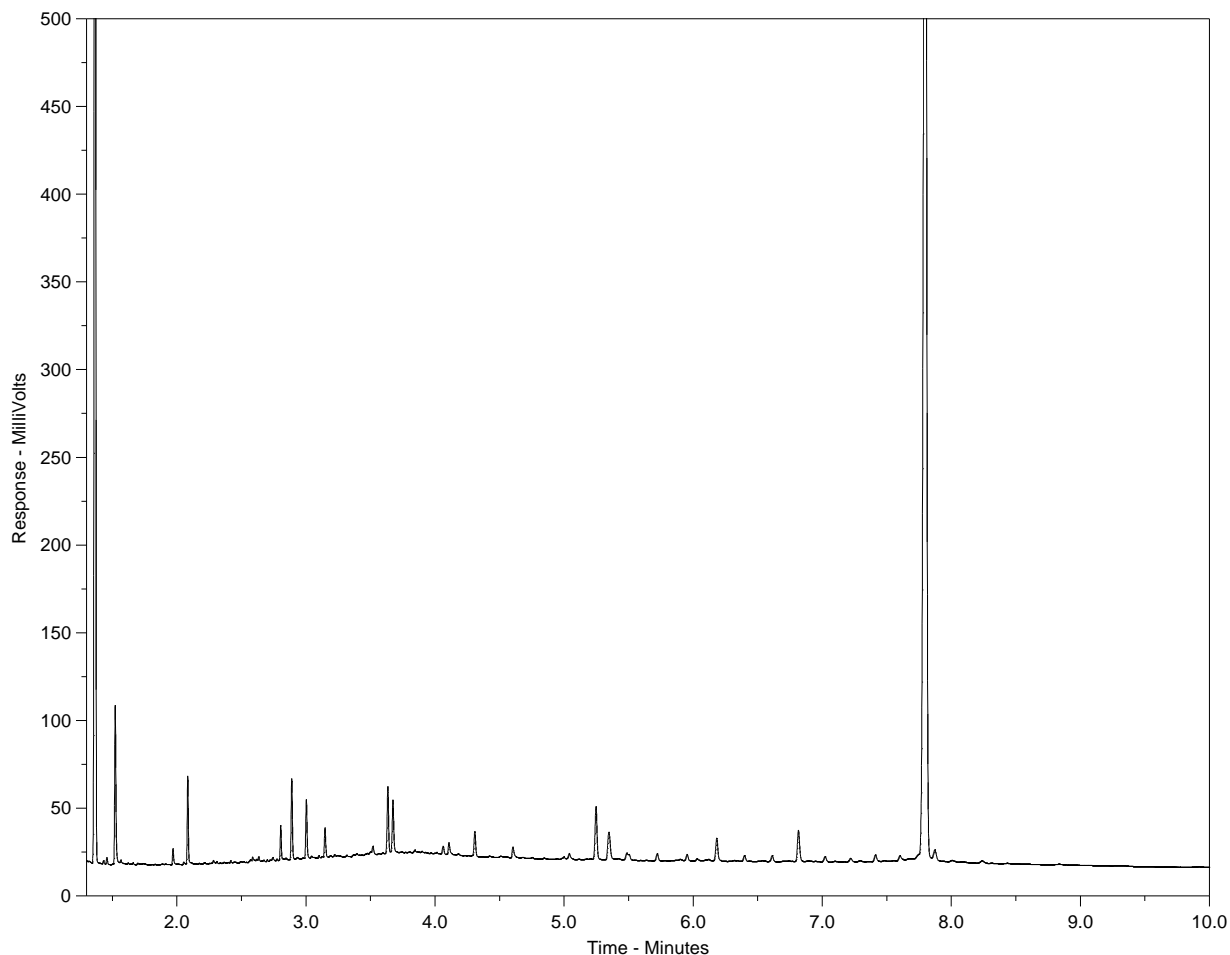
Chromatograms from the ALS HDR Reference Library indicate the patterns of hydrocarbon compounds found in petroleum products, reference standards, and some examples of natural plant and organic materials. The chromatogram from left to right roughly corresponds to increasing boiling point from approximately 174°C to 522°C, a range encompassing most middle distillate and residual petroleum products (diesel, fuel oils, lubricating oils, etc). Comparison of library chromatograms with those of unknown samples may aid in the identification of contaminants. Surrogate compounds, which are added to samples by the laboratory, are not present in HDR library chromatograms.

Please note that retention times may vary between samples by as much as 0.5 minutes.

Hydrocarbon Distribution Report



ALS Sample ID: L796959-4
Client Sample ID: MW09-18



nC10	nC19	nC32	Surrogate	nC40
174°C	330°C	467°C		522°C
345°F	626°F	873°F		972°F
← Gasoline →		← Motor Oils / Lube Oils / Grease →		
← Diesel / Jet Fuels →				

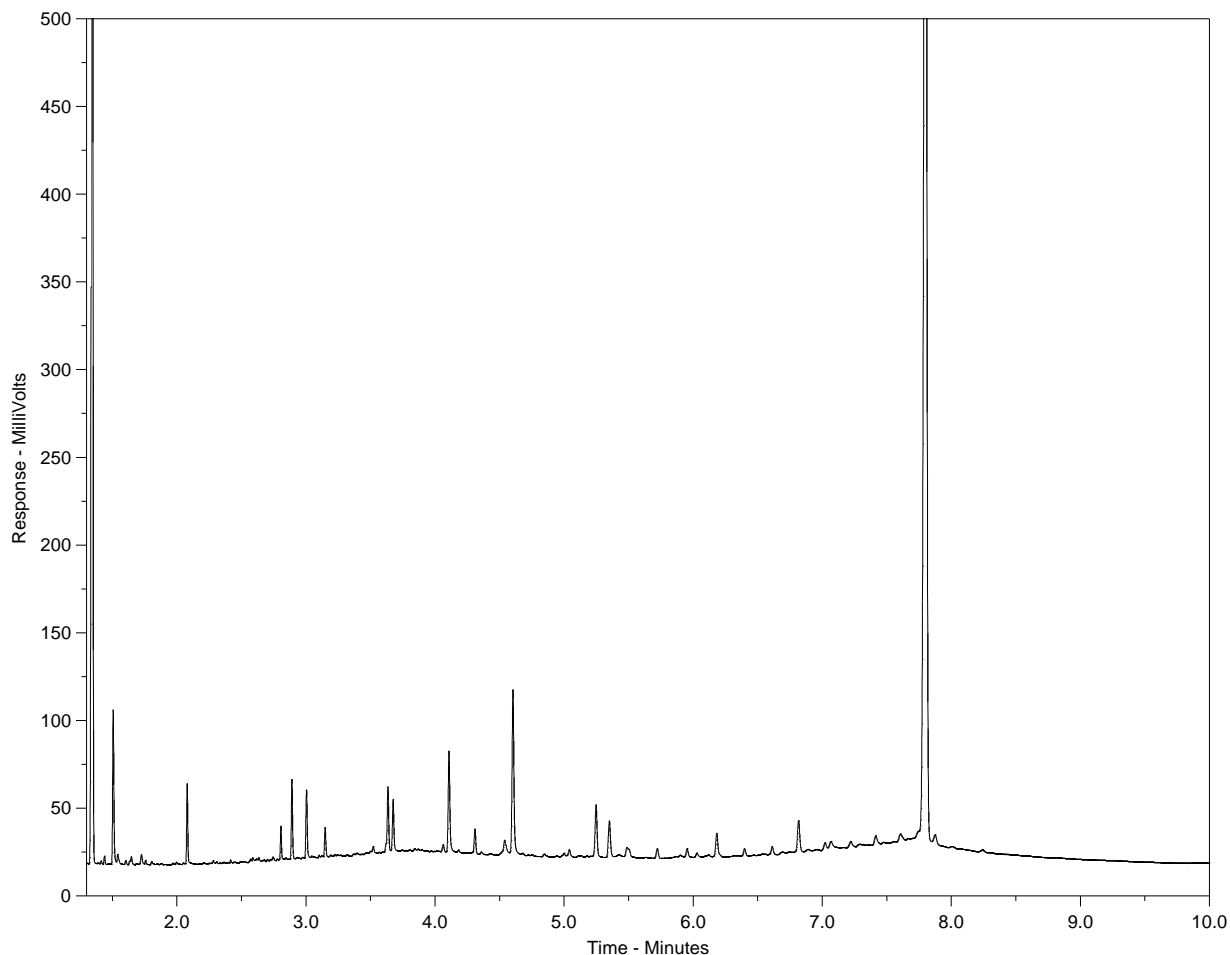
Chromatograms from the ALS HDR Reference Library indicate the patterns of hydrocarbon compounds found in petroleum products, reference standards, and some examples of natural plant and organic materials. The chromatogram from left to right roughly corresponds to increasing boiling point from approximately 174°C to 522°C, a range encompassing most middle distillate and residual petroleum products (diesel, fuel oils, lubricating oils, etc). Comparison of library chromatograms with those of unknown samples may aid in the identification of contaminants. Surrogate compounds, which are added to samples by the laboratory, are not present in HDR library chromatograms.

Please note that retention times may vary between samples by as much as 0.5 minutes.

Hydrocarbon Distribution Report



ALS Sample ID: L796959-5
Client Sample ID: MW09-18R



nC10	nC19	nC32	Surrogate	nC40
174°C	330°C	467°C		522°C
345°F	626°F	873°F		972°F
← Gasoline →		← Motor Oils / Lube Oils / Grease →		
← Diesel / Jet Fuels →				

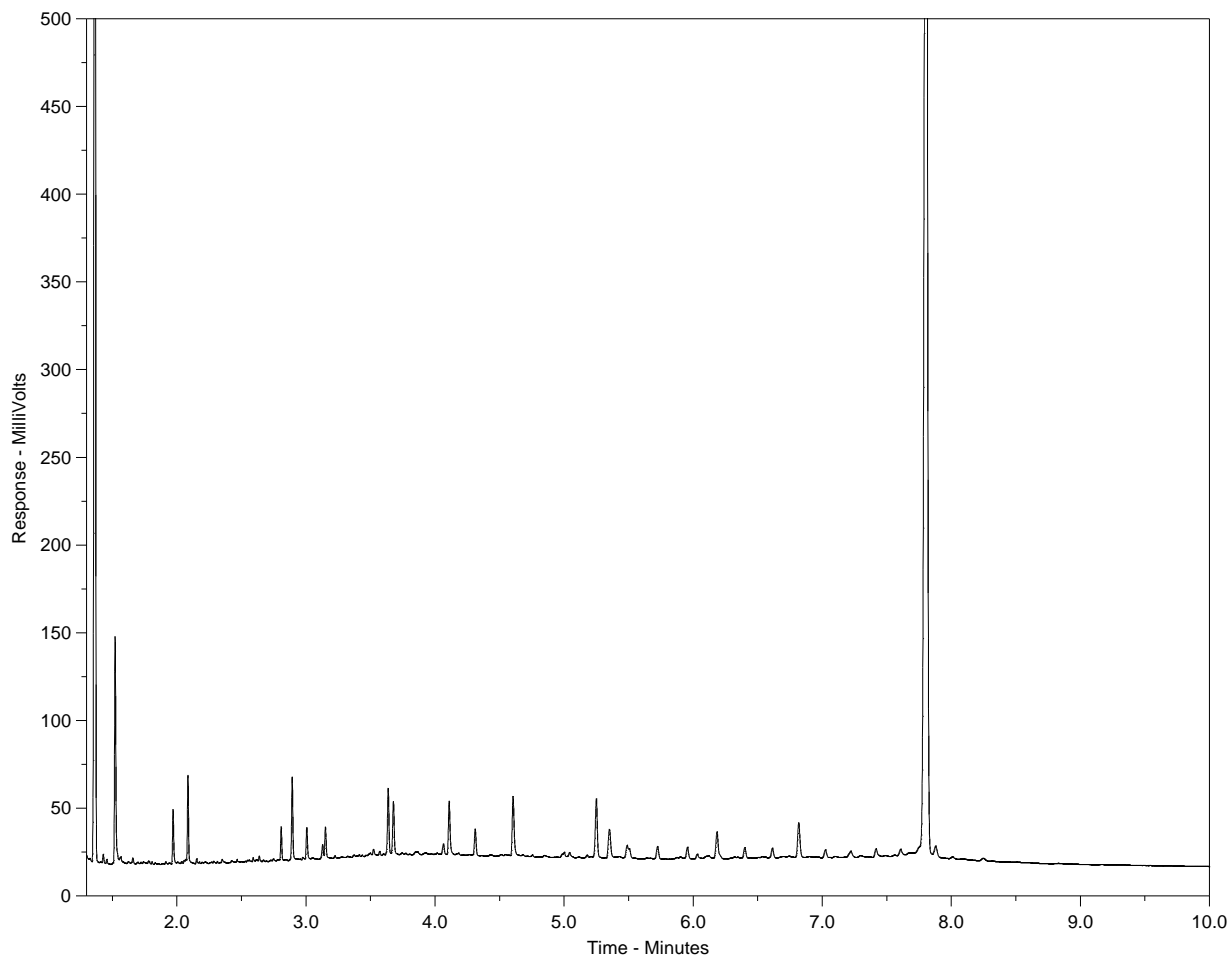
Chromatograms from the ALS HDR Reference Library indicate the patterns of hydrocarbon compounds found in petroleum products, reference standards, and some examples of natural plant and organic materials. The chromatogram from left to right roughly corresponds to increasing boiling point from approximately 174°C to 522°C, a range encompassing most middle distillate and residual petroleum products (diesel, fuel oils, lubricating oils, etc). Comparison of library chromatograms with those of unknown samples may aid in the identification of contaminants. Surrogate compounds, which are added to samples by the laboratory, are not present in HDR library chromatograms.

Please note that retention times may vary between samples by as much as 0.5 minutes.

Hydrocarbon Distribution Report



ALS Sample ID: L796959-6
Client Sample ID: MW09-19



nC10	nC19	nC32	Surrogate	nC40
174°C	330°C	467°C		522°C
345°F	626°F	873°F		972°F
← Gasoline →		← Motor Oils / Lube Oils / Grease →		
← Diesel / Jet Fuels →				

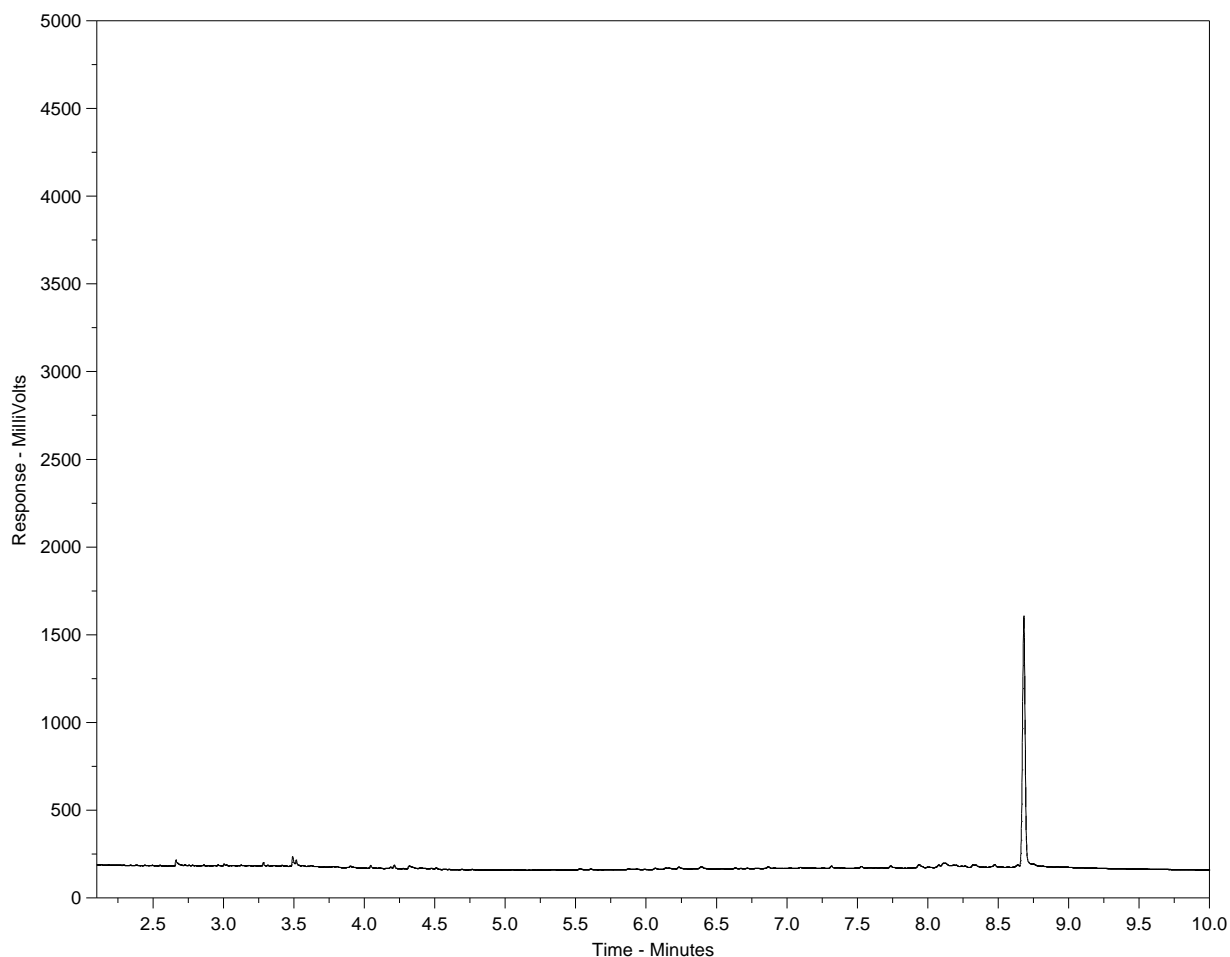
Chromatograms from the ALS HDR Reference Library indicate the patterns of hydrocarbon compounds found in petroleum products, reference standards, and some examples of natural plant and organic materials. The chromatogram from left to right roughly corresponds to increasing boiling point from approximately 174°C to 522°C, a range encompassing most middle distillate and residual petroleum products (diesel, fuel oils, lubricating oils, etc). Comparison of library chromatograms with those of unknown samples may aid in the identification of contaminants. Surrogate compounds, which are added to samples by the laboratory, are not present in HDR library chromatograms.

Please note that retention times may vary between samples by as much as 0.5 minutes.

Hydrocarbon Distribution Report



ALS Sample ID: L796959-7
Client ID: MW09-16(6FT-7FT)



nC10	nC19	nC32	Surrogate	nC40
174°C 345°F	330°C 626°F	467°C 873°F		522°C 972°F
← Gasoline →		← Diesel / Jet Fuels →		
		← Motor Oils / Lube Oils / Grease →		

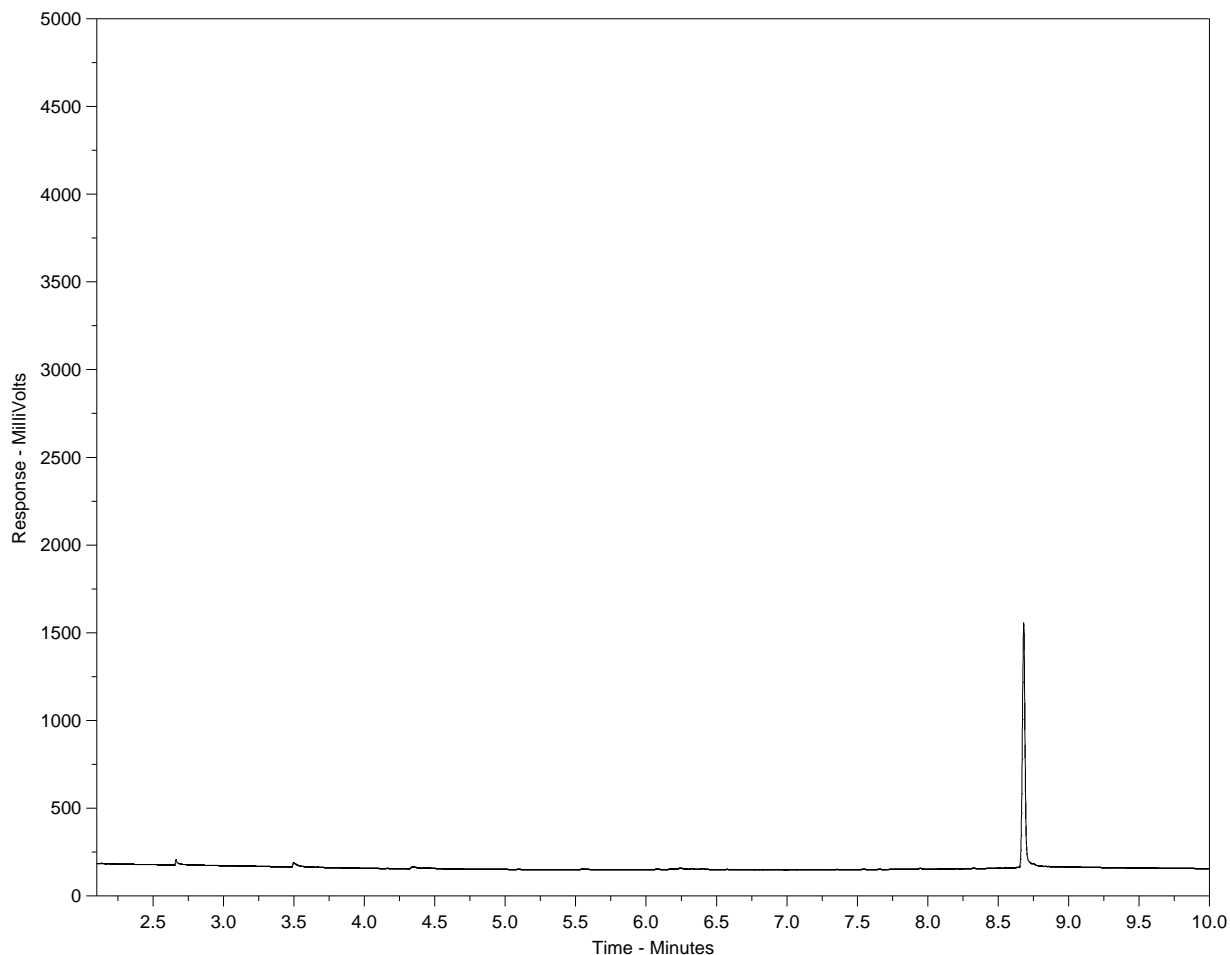
Chromatograms from the ALS HDR Reference Library indicate the patterns of hydrocarbon compounds found in petroleum products, reference standards, and some examples of natural plant and organic materials. The chromatogram from left to right roughly corresponds to increasing boiling point from approximately 174°C to 522°C, a range encompassing most middle distillate and residual petroleum products (diesel, fuel oils, lubricating oils, etc). Comparison of library chromatograms with those of unknown samples may aid in the identification of contaminants. Surrogate compounds, which are added to samples by the laboratory, are not present in HDR library chromatograms.

Please note that retention times may vary between samples by as much as 0.5 minutes.

Hydrocarbon Distribution Report



ALS Sample ID: L796959-9
Client ID: MW09-17(11FT-12FT)



nC10	nC19	nC32	Surrogate	nC40
174°C	330°C	467°C		522°C
345°F	626°F	873°F		972°F
← Gasoline →		← Diesel / Jet Fuels →		
		← Motor Oils / Lube Oils / Grease →		

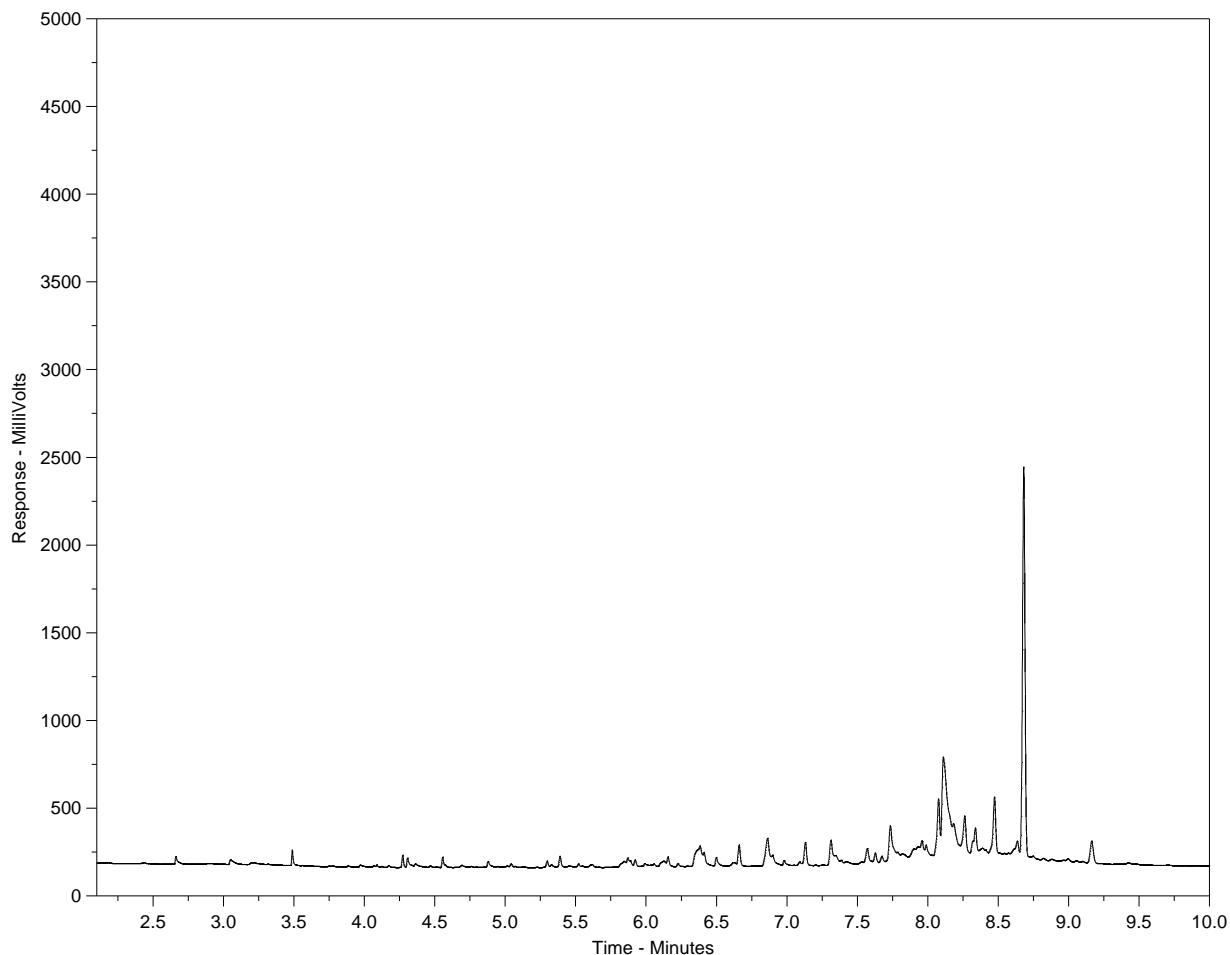
Chromatograms from the ALS HDR Reference Library indicate the patterns of hydrocarbon compounds found in petroleum products, reference standards, and some examples of natural plant and organic materials. The chromatogram from left to right roughly corresponds to increasing boiling point from approximately 174°C to 522°C, a range encompassing most middle distillate and residual petroleum products (diesel, fuel oils, lubricating oils, etc). Comparison of library chromatograms with those of unknown samples may aid in the identification of contaminants. Surrogate compounds, which are added to samples by the laboratory, are not present in HDR library chromatograms.

Please note that retention times may vary between samples by as much as 0.5 minutes.

Hydrocarbon Distribution Report



ALS Sample ID: L796959-10
Client ID: MW09-18(2FT-3FT)



nC10	nC19	nC32	Surrogate	nC40
174°C	330°C	467°C		522°C
345°F	626°F	873°F		972°F
← Gasoline →		← Diesel / Jet Fuels →		
		← Motor Oils / Lube Oils / Grease →		

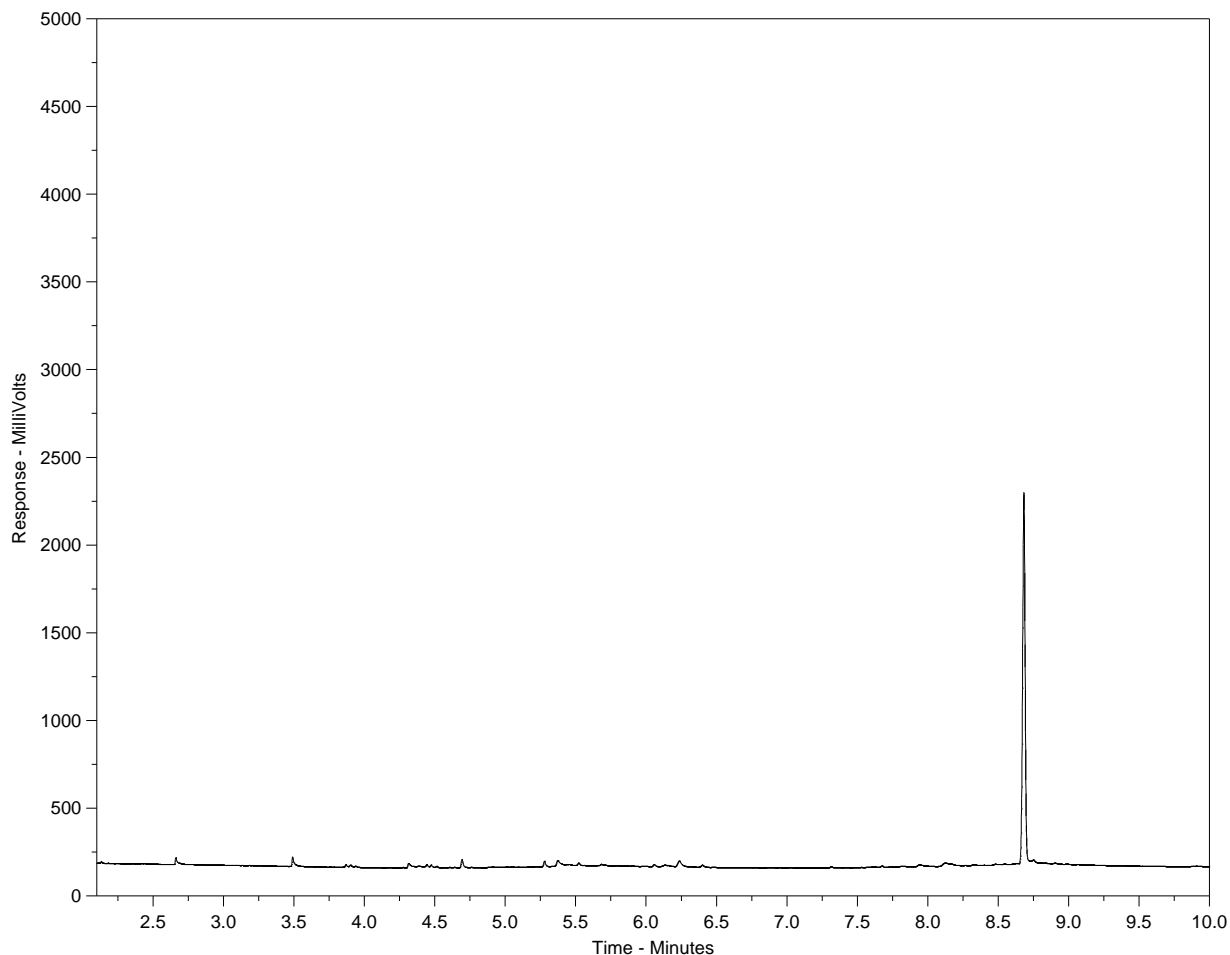
Chromatograms from the ALS HDR Reference Library indicate the patterns of hydrocarbon compounds found in petroleum products, reference standards, and some examples of natural plant and organic materials. The chromatogram from left to right roughly corresponds to increasing boiling point from approximately 174°C to 522°C, a range encompassing most middle distillate and residual petroleum products (diesel, fuel oils, lubricating oils, etc). Comparison of library chromatograms with those of unknown samples may aid in the identification of contaminants. Surrogate compounds, which are added to samples by the laboratory, are not present in HDR library chromatograms.

Please note that retention times may vary between samples by as much as 0.5 minutes.

Hydrocarbon Distribution Report



ALS Sample ID: L796959-11
Client ID: MW09-18(21FT-22FT)



nC10	nC19	nC32	Surrogate	nC40
174°C 345°F	330°C 626°F	467°C 873°F		522°C 972°F
← Gasoline →		← Diesel / Jet Fuels →		
		← Motor Oils / Lube Oils / Grease →		

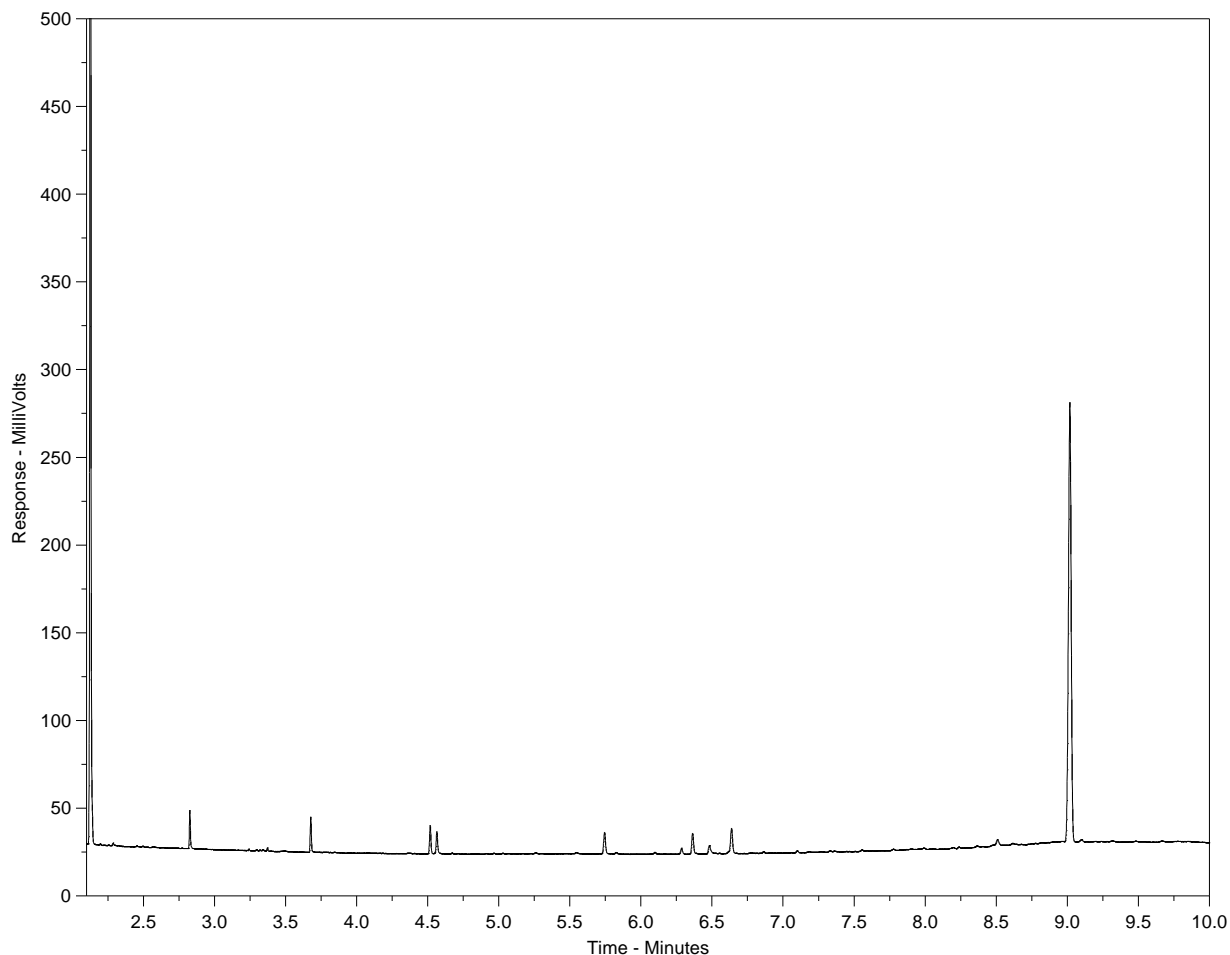
Chromatograms from the ALS HDR Reference Library indicate the patterns of hydrocarbon compounds found in petroleum products, reference standards, and some examples of natural plant and organic materials. The chromatogram from left to right roughly corresponds to increasing boiling point from approximately 174°C to 522°C, a range encompassing most middle distillate and residual petroleum products (diesel, fuel oils, lubricating oils, etc). Comparison of library chromatograms with those of unknown samples may aid in the identification of contaminants. Surrogate compounds, which are added to samples by the laboratory, are not present in HDR library chromatograms.

Please note that retention times may vary between samples by as much as 0.5 minutes.

Hydrocarbon Distribution Report



ALS Sample ID: L796959-12
Client ID: MW09-19(7FT10)



nC10	nC19	nC32	Surrogate	nC40
174°C	330°C	467°C		522°C
345°F	626°F	873°F		972°F
← Gasoline →		← Motor Oils / Lube Oils / Grease →		
← Diesel / Jet Fuels →				

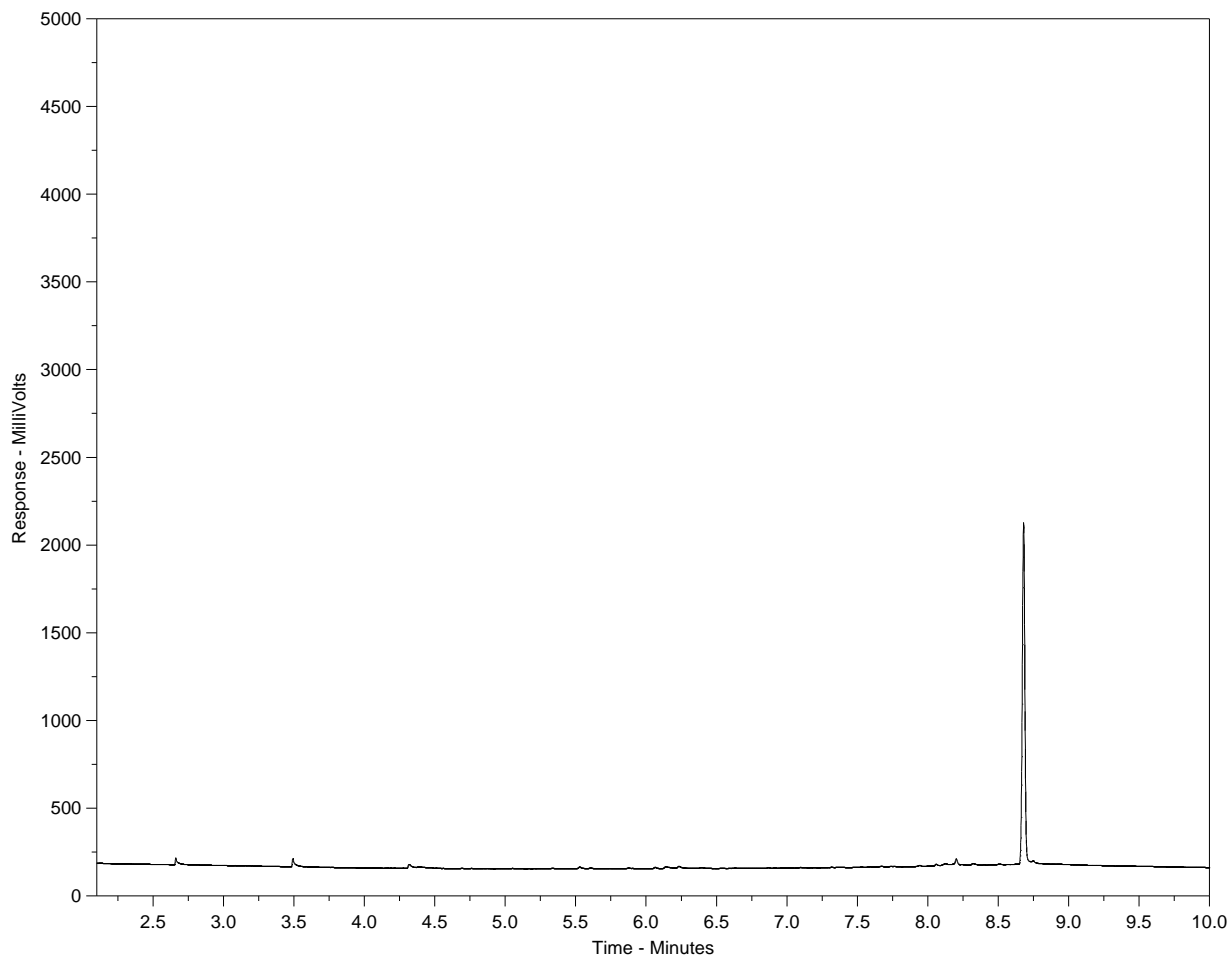
Chromatograms from the ALS HDR Reference Library indicate the patterns of hydrocarbon compounds found in petroleum products, reference standards, and some examples of natural plant and organic materials. The chromatogram from left to right roughly corresponds to increasing boiling point from approximately 174°C to 522°C, a range encompassing most middle distillate and residual petroleum products (diesel, fuel oils, lubricating oils, etc). Comparison of library chromatograms with those of unknown samples may aid in the identification of contaminants. Surrogate compounds, which are added to samples by the laboratory, are not present in HDR library chromatograms.

Please note that retention times may vary between samples by as much as 0.5 minutes.

Hydrocarbon Distribution Report



ALS Sample ID: WG979617-6#L796959-12
Client ID: MW09-19(7FT10)



nC10	nC19	nC32	Surrogate	nC40
174°C 345°F	330°C 626°F	467°C 873°F		522°C 972°F
← Gasoline →		← Diesel / Jet Fuels →		
		← Motor Oils / Lube Oils / Grease →		

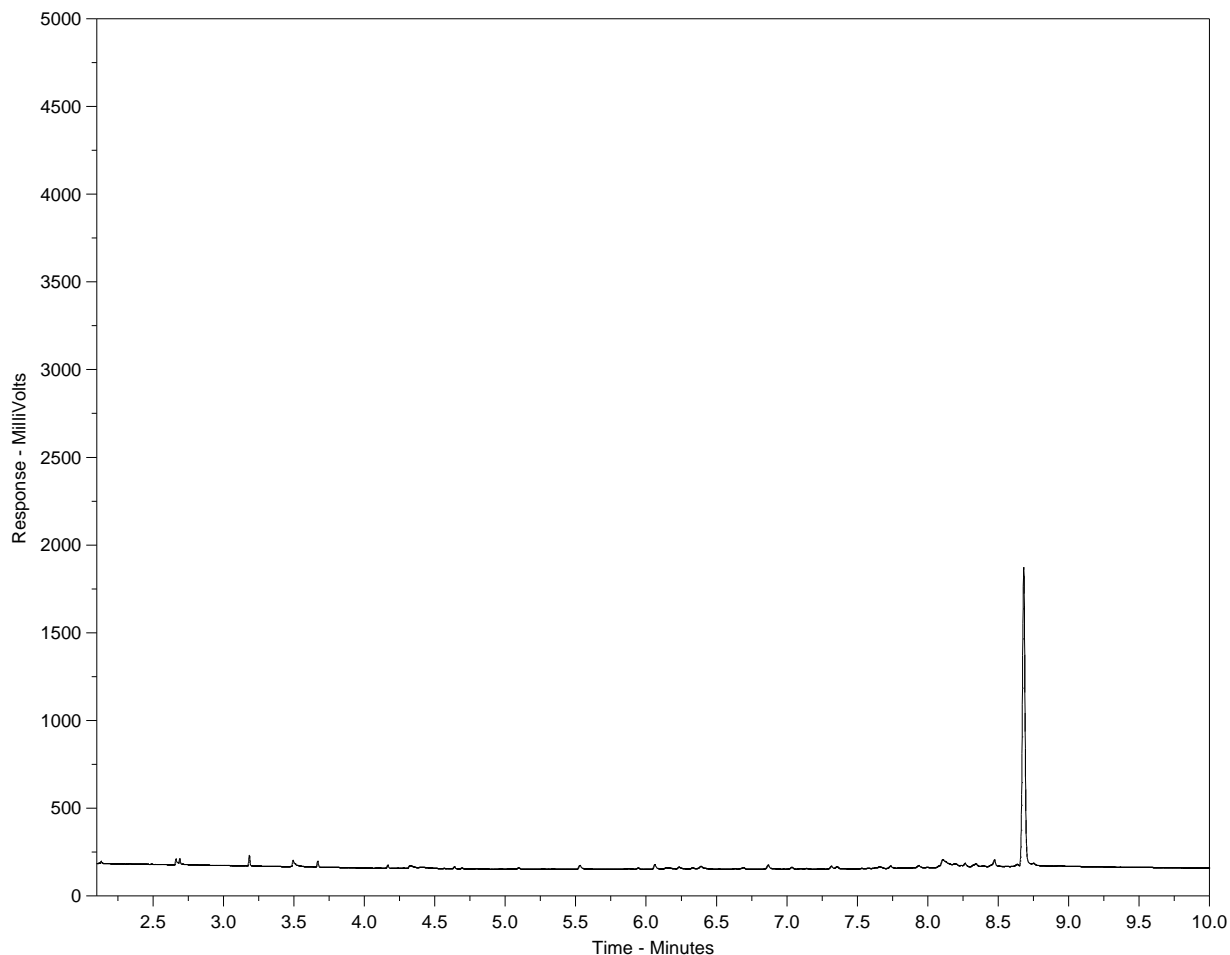
Chromatograms from the ALS HDR Reference Library indicate the patterns of hydrocarbon compounds found in petroleum products, reference standards, and some examples of natural plant and organic materials. The chromatogram from left to right roughly corresponds to increasing boiling point from approximately 174°C to 522°C, a range encompassing most middle distillate and residual petroleum products (diesel, fuel oils, lubricating oils, etc). Comparison of library chromatograms with those of unknown samples may aid in the identification of contaminants. Surrogate compounds, which are added to samples by the laboratory, are not present in HDR library chromatograms.

Please note that retention times may vary between samples by as much as 0.5 minutes.

Hydrocarbon Distribution Report



ALS Sample ID: L796959-15
Client ID: MW09-19(15FT-16FT9)



nC10	nC19	nC32	Surrogate	nC40
174°C 345°F	330°C 626°F	467°C 873°F		522°C 972°F
← Gasoline →		← Motor Oils / Lube Oils / Grease →		
← Diesel / Jet Fuels →				

Chromatograms from the ALS HDR Reference Library indicate the patterns of hydrocarbon compounds found in petroleum products, reference standards, and some examples of natural plant and organic materials. The chromatogram from left to right roughly corresponds to increasing boiling point from approximately 174°C to 522°C, a range encompassing most middle distillate and residual petroleum products (diesel, fuel oils, lubricating oils, etc). Comparison of library chromatograms with those of unknown samples may aid in the identification of contaminants. Surrogate compounds, which are added to samples by the laboratory, are not present in HDR library chromatograms.

Please note that retention times may vary between samples by as much as 0.5 minutes.



Environmental Division

REPORT TO: RYAN MILLS		REPORT FORMAT / DISTRIBUTION		SERVICE REQUESTED	
COMPANY: Aecom		STANDARD <input checked="" type="checkbox"/> OTHER <input type="checkbox"/>		REGULAR SERVICE (DEFAULT)	<input checked="" type="checkbox"/>
CONTACT:		PDF <input checked="" type="checkbox"/> EXCEL <input checked="" type="checkbox"/> CUSTOM <input type="checkbox"/> FAX <input type="checkbox"/>		RUSH SERVICE (2-3 DAYS)	
ADDRESS: 3001 WILKINSON DRIVE		EMAIL 1: ryan.mills@aecom.com		PRIORITY SERVICE (1 DAY or ASAP)	
SUITE 275 BURMAN B.C. V5L 4B8		EMAIL 2:		EMERGENCY SERVICE (<1 DAY / WEEKEND) - CONTACT ALS	
PHONE: 604-631-6213	FAX:	ANALYSIS REQUEST			
INVOICE TO: SAME AS REPORT ? (YES) NO		INDICATE BOTTLES: FILTERED / PRESERVED (F/P)	→ → →		
COMPANY:		CLIENT / PROJECT INFORMATION: YUKON GOVT			
CONTACT:		JOB #: 112359 - MT. NANSSEN			
ADDRESS:		PO / AFE:			
PHONE:	FAX:	Legal Site Description:			
Lab Work Order # (lab use only)	1396959	QUOTE #:			
SAMPLE IDENTIFICATION	DATE	TIME	SAMPLE TYPE		
(This description will appear on the report)					
MW09-15	JUL 14/09		WATER		
MW09-16	JUL 19/09				
MW09-17					
MW09-18					
MW09-18-R					
MW09-19					
MW09-16 (6 FT - 7 FT)	JUL 15/09		SOIL		
MW09-17 (8 FT - 9 FT)					
MW09-17 (11 FT - 12 FT)					
MW09-18 (2 FT - 3 FT)					
GUIDELINES / REGULATIONS				SPECIAL INSTRUCTIONS / HAZARDOUS DETAILS	
CCME GUIDELINES + BEST DET. LIMITS					
ASSURE					
Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY.					
RELINQUISHED BY:		DATE & TIME:	RECEIVED BY:	DATE & TIME:	TEMPERATURE
[Signature]		JUL 22/09 2PM	MS	JUL 24	16
RELINQUISHED BY:		DATE & TIME:	RECEIVED BY:	DATE & TIME:	SAMPLE CONDITION (lab use only)
				10:00	(if no provide details)



Environmental Division

www.alsenviro.com

REPORT TO:		REPORT FORMAT / DISTRIBUTION		SERVICE REQUESTED	
COMPANY: <u>AECOM</u>		STANDARD <input checked="" type="checkbox"/> OTHER <input type="checkbox"/>		REGULAR SERVICE (DEFAULT) <input checked="" type="checkbox"/>	
CONTACT: <u>RYAN MILLS</u>		PDF <input checked="" type="checkbox"/> EXCEL <input checked="" type="checkbox"/> CUSTOM <input type="checkbox"/> FAX <input type="checkbox"/>		RUSH SERVICE (2-3 DAYS)	
ADDRESS: <u>275-3001 WAYBURN DR.</u>		EMAIL 1: <u>ryan.mills@aecom.com</u>		PRIORITY SERVICE (1 DAY or ASAP)	
<u>BURNABY, B.C. V5G 4W3</u>		EMAIL 2:		EMERGENCY SERVICE (<1 DAY / WEEKEND) - CONTACT ALS	
PHONE: <u>604-631-6213</u> FAX:					
INVOICE TO: SAME AS REPORT ? (YES/NO)		INDICATE BOTTLES: FILTERED / PRESERVED (F/P) → → →		ANALYSIS REQUEST	
COMPANY:		CLIENT / PROJECT INFORMATION:		<div style="display: flex; justify-content: space-between;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">LEAD / HEAVY METALS</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">HAZARDOUS ?</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">HIGHLY CONTAMINATED ?</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">NUMBER OF CONTAINERS</div> </div>	
CONTACT:		JOB #: <u>112359</u>			
ADDRESS:		PO / AFE:			
		Legal Site Description:			
PHONE: FAX:		QUOTE #:			
Lab Work Order # (lab use only) <u>L746959</u>		SAMPLER (Initials):			
Sample #	SAMPLE IDENTIFICATION (This description will appear on the report)	DATE	TIME	SAMPLE TYPE	
	MW09-18 (21 FT - 22 FT)	JULY 15/09		SOIL	X X
	MW09-19 (7 FT 10" - 8 FT 4")	↓			X X
	MW09-19 (8 FT 4" - 8 FT 7")				
	MW09-19 (8 FT 9" - 8 FT 10")				
	MW09-19 (15 FT - 16 FT 9")				X X
GUIDELINES / REGULATIONS		SPECIAL INSTRUCTIONS / HAZARDOUS DETAILS			
<u>CCME + BEST DETECTION POSSIBLE</u>		<u>HOLD OTHER SAMPLES</u>			
Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY .					
By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the reverse page of the white report copy.					
RELINQUISHED BY: <u>Ryan Mills</u>	DATE & TIME: <u>JULY 22/09 2pm</u>	RECEIVED BY: <u>MS</u>	DATE & TIME: <u>JULY 24</u>	SAMPLE CONDITION (lab use only) TEMPERATURE <u>12</u> SAMPLES RECEIVED IN GOOD CONDITION ? YES / NO (If no provide details)	
RELINQUISHED BY:	DATE & TIME:	RECEIVED BY:	DATE & TIME: <u>10:00</u>		



Environmental Division

Certificate of Analysis

AECOM CANADA LTD.

ATTN: RYAN MILLS

Report Date: 16-SEP-09 15:59 (MT)

Version: FINAL

275 - 3001 WAYBURNE DRIVE
BURNABY BC V5G 4W3

Lab Work Order #: **L814853**

Date Received: **03-SEP-09**

Project P.O. #:

Job Reference: 112359

Legal Site Desc: MT NANSEN MINE, YT

CofC Numbers:

Other Information:

Comments: Certain Metals detection limits have been increased for some of the samples due to the interferences encountered during the analysis.


NATASHA MARKOVIC-MIROVIC
Account Manager

THIS REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL WITHOUT THE WRITTEN AUTHORITY OF THE LABORATORY.
ALL SAMPLES WILL BE DISPOSED OF AFTER 30 DAYS FOLLOWING ANALYSIS. PLEASE CONTACT THE LAB IF YOU
REQUIRE ADDITIONAL SAMPLE STORAGE TIME.

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample ID Description Sampled Date Sampled Time Client ID		L814853-1	L814853-2	L814853-3	L814853-4	L814853-5
		01-SEP-09	01-SEP-09	02-SEP-09	01-SEP-09	01-SEP-09
		GLL07-03	MW09-08	MW09-11	MW09-15	MW09-16
Grouping	Analyte					
WATER						
Physical Tests	Conductivity (uS/cm)	1740	222	659	937	1770
	Hardness (as CaCO3) (mg/L)	1110	99.5	352	579	1180
	pH (pH)	5.66	6.92	7.78	7.28	7.23
	Total Dissolved Solids (mg/L)	1670	233	445	682	1540
Anions and Nutrients	Acidity (as CaCO3) (mg/L)	81.4	26.6	10.9	26.3	31.2
	Alkalinity, Total (as CaCO3) (mg/L)	15.5	88.3	325	276	294
	Ammonia as N (mg/L)	0.103	3.77	2.48	0.100	<0.020
	Bromide (Br) (mg/L)	<0.25	<0.25 *	0.050	<0.50	<0.50
	Chloride (Cl) (mg/L)	<2.5	<2.5 *	4.90	<5.0	<5.0
	Fluoride (F) (mg/L)	0.15	<0.10 *	0.697	<0.20	<0.20
	Nitrate (as N) (mg/L)	0.779	<0.025 *	0.495	<0.050	0.201
	Nitrite (as N) (mg/L)	0.0544	<0.0050 *	0.0277	<0.010	<0.010
	Sulfate (SO4) (mg/L)	529	14.9 *	50.2	271	832
Cyanides	Cyanide, Weak Acid Diss (mg/L)		<0.0050	<0.0050		<0.0050
	Cyanide, Total (mg/L)		0.0104	<0.0050		<0.0050
	Cyanate (CNO) (mg/L)		<0.50	<0.50		<0.50
	Thiocyanate (SCN) (mg/L)	0.82	5.8	1.03	0.93	1.16
Organic / Inorganic Carbon	Total Organic Carbon (mg/L)	1.27	23.3	26.2	4.62	3.67
Dissolved Metals	Aluminum (Al)-Dissolved (mg/L)	1.39	0.0980	<0.0050	<0.010	<0.025
	Antimony (Sb)-Dissolved (mg/L)	<0.0050	<0.00050	<0.00050	0.0023	0.102
	Arsenic (As)-Dissolved (mg/L)	<0.0050	0.284	0.0239	0.187	0.0391
	Barium (Ba)-Dissolved (mg/L)	<0.020	0.126	0.311	<0.020	<0.020
	Beryllium (Be)-Dissolved (mg/L)	<0.010	<0.0010	<0.0010	<0.0020	<0.0050
	Bismuth (Bi)-Dissolved (mg/L)	<0.20	<0.20	<0.20	<0.20	<0.20
	Boron (B)-Dissolved (mg/L)	<0.10	<0.10	<0.10	<0.10	0.19
	Cadmium (Cd)-Dissolved (mg/L)	0.436	<0.000017	0.000038	0.000758	0.0419
	Calcium (Ca)-Dissolved (mg/L)	336	30.9	65.5	158	273
	Chromium (Cr)-Dissolved (mg/L)	<0.010	<0.0020	<0.0010	<0.0020	<0.0050
	Cobalt (Co)-Dissolved (mg/L)	0.0144	0.00147	0.00096	0.00076	<0.0015
	Copper (Cu)-Dissolved (mg/L)	0.550	<0.0010	<0.0010	<0.0020	0.0105
	Iron (Fe)-Dissolved (mg/L)	11.6	40.7	1.52	1.58	0.331
	Lead (Pb)-Dissolved (mg/L)	0.0114	<0.00050	<0.00050	0.0059	0.0284
	Lithium (Li)-Dissolved (mg/L)	<0.050	<0.0050	<0.0050	<0.010	<0.025
	Magnesium (Mg)-Dissolved (mg/L)	66.4	5.45	45.8	44.5	120
	Manganese (Mn)-Dissolved (mg/L)	10.5	2.32	1.42	0.681	0.208
	Mercury (Hg)-Dissolved (mg/L)	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
	Molybdenum (Mo)-Dissolved (mg/L)	<0.010	<0.0010	0.0079	<0.0020	<0.0050
	Nickel (Ni)-Dissolved (mg/L)	0.014	<0.0010	0.0027	<0.0020	<0.0050
	Phosphorus (P)-Dissolved (mg/L)	<0.30	<0.30	<0.30	<0.30	<0.30
	Potassium (K)-Dissolved (mg/L)	2.1	<2.0	4.2	<2.0	6.4

* Please refer to the Reference Information section for an explanation of any qualifiers detected.

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample ID Description Sampled Date Sampled Time Client ID		L814853-6	L814853-7	L814853-8	L814853-9	L814853-10
		01-SEP-09	01-SEP-09	01-SEP-09	01-SEP-09	01-SEP-09
		MW09-17	MW09-18	TRIP BLANK	MW09-19	MW09-21
Grouping	Analyte					
WATER						
Physical Tests	Conductivity (uS/cm)	2570	2670	<2.0	2470	1790
	Hardness (as CaCO3) (mg/L)	1840	1920	<1.1	1750	838
	pH (pH)	7.42	7.47	5.66	7.16	6.67
	Total Dissolved Solids (mg/L)	2430	2560	<10	2370	1420
Anions and Nutrients	Acidity (as CaCO3) (mg/L)	39.9	31.9	<1.0	45.7	143
	Alkalinity, Total (as CaCO3) (mg/L)	434	426	<2.0	389	231
	Ammonia as N (mg/L)	<0.020	0.021	<0.020	2.24	17.9
	Bromide (Br) (mg/L)	<1.0	<1.0	<0.050	<1.0	<1.0
	Chloride (Cl) (mg/L)	<10	<10	<0.50	<10	<10
	Fluoride (F) (mg/L)	<0.40	<0.40	<0.020	<0.40	<0.40
	Nitrate (as N) (mg/L)	0.30	<0.10	<0.0050	<0.10	<0.10
	Nitrite (as N) (mg/L)	<0.020	<0.020	<0.0010	<0.020	<0.020
	Sulfate (SO4) (mg/L)	1400	1490	<0.50	1340	818
Cyanides	Cyanide, Weak Acid Diss (mg/L)	<0.0050	<0.0050	<0.0050	<0.0050	0.0169
	Cyanide, Total (mg/L)	<0.0050	<0.0050	<0.0050	0.0146	0.0293
	Cyanate (CNO) (mg/L)	<0.50	<0.50	<0.50	5.75	20.7
	Thiocyanate (SCN) (mg/L)	1.35	1.23	<0.50	1.25	1.98
Organic / Inorganic Carbon	Total Organic Carbon (mg/L)	5.01	2.89	<0.50	80.8	42.5
Dissolved Metals	Aluminum (Al)-Dissolved (mg/L)	<0.025	<0.050	<0.0050	<0.025	0.152
	Antimony (Sb)-Dissolved (mg/L)	<0.0025	<0.0050	<0.00050	<0.0025	<0.0025
	Arsenic (As)-Dissolved (mg/L)	0.0128	0.0526	<0.00050	0.0834	0.0443
	Barium (Ba)-Dissolved (mg/L)	<0.020	<0.020	<0.020	0.077	0.426
	Beryllium (Be)-Dissolved (mg/L)	<0.0050	<0.010	<0.0010	<0.0050	<0.0050
	Bismuth (Bi)-Dissolved (mg/L)	<0.20	<0.20	<0.20	<0.20	<0.20
	Boron (B)-Dissolved (mg/L)	0.16	<0.10	<0.10	0.40	<0.10
	Cadmium (Cd)-Dissolved (mg/L)	<0.000085	<0.00017	<0.000017	<0.000085	0.000162
	Calcium (Ca)-Dissolved (mg/L)	350	375	<0.10	373	293
	Chromium (Cr)-Dissolved (mg/L)	<0.0050	<0.010	<0.0010	<0.0050	<0.0050
	Cobalt (Co)-Dissolved (mg/L)	<0.0015	<0.0030	<0.00030	<0.0015	0.0260
	Copper (Cu)-Dissolved (mg/L)	<0.0050	<0.010	<0.0010	<0.0050	<0.0050
	Iron (Fe)-Dissolved (mg/L)	<0.030	<0.030	<0.030	30.4	66.4
	Lead (Pb)-Dissolved (mg/L)	<0.0025	<0.0050	<0.00050	<0.0025	<0.0025
	Lithium (Li)-Dissolved (mg/L)	<0.025	<0.050	<0.0050	<0.025	<0.025
	Magnesium (Mg)-Dissolved (mg/L)	235	240	<0.10	200	26.1
	Manganese (Mn)-Dissolved (mg/L)	0.0096	0.427	<0.00030	1.97	6.73
	Mercury (Hg)-Dissolved (mg/L)	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
	Molybdenum (Mo)-Dissolved (mg/L)	<0.0050	<0.010	<0.0010	<0.0050	<0.0050
	Nickel (Ni)-Dissolved (mg/L)	<0.0050	<0.010	<0.0010	<0.0050	<0.0050
	Phosphorus (P)-Dissolved (mg/L)	<0.30	<0.30	<0.30	0.41	<0.30
	Potassium (K)-Dissolved (mg/L)	7.5	7.1	<2.0	4.9	9.4

* Please refer to the Reference Information section for an explanation of any qualifiers detected.

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample ID Description Sampled Date Sampled Time Client ID		L814853-11	L814853-12	L814853-13	L814853-14	
		01-SEP-09	01-SEP-09	01-SEP-09	01-SEP-09	
		MW09-22	MW09-23	MW09-24	MW09-26	
Grouping	Analyte					
WATER						
Physical Tests	Conductivity (uS/cm)	543	1890	378	666	
	Hardness (as CaCO3) (mg/L)	244	1030	197	355	
	pH (pH)	6.92	7.30	7.69	7.85	
	Total Dissolved Solids (mg/L)	378	1610	255	434	
Anions and Nutrients	Acidity (as CaCO3) (mg/L)	27.2	24.4	5.9	9.1	
	Alkalinity, Total (as CaCO3) (mg/L)	122	247	107	317	
	Ammonia as N (mg/L)	4.37	8.73	<0.020	2.43	
	Bromide (Br) (mg/L)	<0.50	<0.50	<0.050	0.050	
	Chloride (Cl) (mg/L)	<5.0	<5.0	<0.50	4.96	
	Fluoride (F) (mg/L)	<0.20	<0.20	0.032	0.711	
	Nitrate (as N) (mg/L)	<0.050	<0.050	2.52	0.544	
	Nitrite (as N) (mg/L)	<0.010	<0.010	0.0016	0.0271	
	Sulfate (SO4) (mg/L)	156	916	81.7	51.4	
Cyanides	Cyanide, Weak Acid Diss (mg/L)	<0.0050	0.0190	<0.0050	<0.0050	
	Cyanide, Total (mg/L)	0.0102	0.0324	0.0119	0.0074	
	Cyanate (CNO) (mg/L)	1.14	2.34	<0.50	<0.50	
	Thiocyanate (SCN) (mg/L)	1.20	3.72	<0.50	1.04	
Organic / Inorganic Carbon	Total Organic Carbon (mg/L)	13.7	18.8	4.18	26.8	
Dissolved Metals	Aluminum (Al)-Dissolved (mg/L)	0.0982	0.037	<0.0050	<0.0050	
	Antimony (Sb)-Dissolved (mg/L)	<0.00050	<0.0025	<0.00050	<0.00050	
	Arsenic (As)-Dissolved (mg/L)	0.0368	0.0137	0.00102	0.0235	
	Barium (Ba)-Dissolved (mg/L)	0.115	0.064	0.056	0.315	
	Beryllium (Be)-Dissolved (mg/L)	<0.0010	<0.0050	<0.0010	<0.0010	
	Bismuth (Bi)-Dissolved (mg/L)	<0.20	<0.20	<0.20	<0.20	
	Boron (B)-Dissolved (mg/L)	<0.10	0.14	<0.10	<0.10	
	Cadmium (Cd)-Dissolved (mg/L)	0.000077	0.000126	0.000034	0.000035	
	Calcium (Ca)-Dissolved (mg/L)	89.9	332	60.4	65.8	
	Chromium (Cr)-Dissolved (mg/L)	<0.0020	<0.0050	<0.0010	<0.0010	
	Cobalt (Co)-Dissolved (mg/L)	0.0123	0.0171	0.00063	0.00097	
	Copper (Cu)-Dissolved (mg/L)	0.0015	<0.0050	0.0057	<0.0010	
	Iron (Fe)-Dissolved (mg/L)	14.6	7.93	<0.030	1.45	
	Lead (Pb)-Dissolved (mg/L)	<0.00050	<0.0025	<0.00050	<0.00050	
	Lithium (Li)-Dissolved (mg/L)	<0.0050	<0.025	<0.0050	<0.0050	
	Magnesium (Mg)-Dissolved (mg/L)	4.84	47.8	11.3	46.4	
	Manganese (Mn)-Dissolved (mg/L)	3.20	6.06	0.00267	1.38	
	Mercury (Hg)-Dissolved (mg/L)	<0.000020	<0.000020	<0.000020	<0.000020	
	Molybdenum (Mo)-Dissolved (mg/L)	<0.0010	<0.0050	<0.0010	0.0078	
	Nickel (Ni)-Dissolved (mg/L)	0.0092	<0.0050	<0.0010	0.0028	
	Phosphorus (P)-Dissolved (mg/L)	<0.30	<0.30	<0.30	<0.30	
	Potassium (K)-Dissolved (mg/L)	4.4	14.4	<2.0	4.3	

* Please refer to the Reference Information section for an explanation of any qualifiers detected.

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample ID Description Sampled Date Sampled Time Client ID		L814853-1	L814853-2	L814853-3	L814853-4	L814853-5
		01-SEP-09	01-SEP-09	02-SEP-09	01-SEP-09	01-SEP-09
		GLL07-03	MW09-08	MW09-11	MW09-15	MW09-16
Grouping	Analyte					
WATER						
Dissolved Metals	Selenium (Se)-Dissolved (mg/L)	<0.010	<0.0010	<0.0010	<0.0020	<0.0050
	Silicon (Si)-Dissolved (mg/L)	4.92	8.72	6.03	6.32	5.28
	Silver (Ag)-Dissolved (mg/L)	<0.00020	<0.000020	<0.000020	<0.000040	<0.00010
	Sodium (Na)-Dissolved (mg/L)	8.0	3.8	20.1	6.9	9.0
	Strontium (Sr)-Dissolved (mg/L)	0.354	0.140	0.637	1.32	0.596
	Thallium (Tl)-Dissolved (mg/L)	<0.0020	<0.00020	<0.00020	<0.00040	<0.0010
	Tin (Sn)-Dissolved (mg/L)	<0.0050	<0.00050	<0.00050	<0.0010	<0.0025
	Titanium (Ti)-Dissolved (mg/L)	0.014	<0.010	<0.010	0.011	0.013
	Uranium (U)-Dissolved (mg/L)	<0.0020	<0.00020	0.00346	0.0128	0.0029
	Vanadium (V)-Dissolved (mg/L)	<0.010	0.0048	0.0018	<0.0020	<0.0050
	Zinc (Zn)-Dissolved (mg/L)	23.2	0.0117	<0.0050	0.233	3.66

* Please refer to the Reference Information section for an explanation of any qualifiers detected.

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample ID Description Sampled Date Sampled Time Client ID		L814853-6	L814853-7	L814853-8	L814853-9	L814853-10
		01-SEP-09	01-SEP-09	01-SEP-09	01-SEP-09	01-SEP-09
		MW09-17	MW09-18	TRIP BLANK	MW09-19	MW09-21
Grouping	Analyte					
WATER						
Dissolved Metals	Selenium (Se)-Dissolved (mg/L)	<0.0050	<0.010	<0.0010	<0.0050	<0.0050
	Silicon (Si)-Dissolved (mg/L)	4.75	4.85	<0.050	7.60	5.69
	Silver (Ag)-Dissolved (mg/L)	<0.00010	<0.00020	<0.000020	<0.00010	<0.00010
	Sodium (Na)-Dissolved (mg/L)	11.0	10.5	<2.0	14.0	73.1
	Strontium (Sr)-Dissolved (mg/L)	0.990	1.01	<0.0050	1.01	1.00
	Thallium (Tl)-Dissolved (mg/L)	<0.0010	<0.0020	<0.00020	<0.0010	<0.0010
	Tin (Sn)-Dissolved (mg/L)	<0.0025	<0.0050	<0.00050	<0.0025	<0.0025
	Titanium (Ti)-Dissolved (mg/L)	0.014	0.014	<0.010	0.015	0.019
	Uranium (U)-Dissolved (mg/L)	0.0070	0.0075	<0.00020	<0.0010	0.0010
	Vanadium (V)-Dissolved (mg/L)	<0.0050	<0.010	<0.0010	<0.0050	0.0064
	Zinc (Zn)-Dissolved (mg/L)	<0.0050	<0.0050	<0.0050	<0.0050	0.0076

* Please refer to the Reference Information section for an explanation of any qualifiers detected.

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample ID Description Sampled Date Sampled Time Client ID		L814853-11	L814853-12	L814853-13	L814853-14	
		01-SEP-09	01-SEP-09	01-SEP-09	01-SEP-09	
		MW09-22	MW09-23	MW09-24	MW09-26	
Grouping	Analyte					
WATER						
Dissolved Metals	Selenium (Se)-Dissolved (mg/L)	<0.0010	<0.0050	<0.0010	<0.0010	
	Silicon (Si)-Dissolved (mg/L)	5.51	5.69	5.62	6.06	
	Silver (Ag)-Dissolved (mg/L)	<0.000020	<0.00010	<0.000020	<0.000020	
	Sodium (Na)-Dissolved (mg/L)	15.4	56.9	8.7	20.3	
	Strontium (Sr)-Dissolved (mg/L)	0.286	0.698	0.295	0.645	
	Thallium (Tl)-Dissolved (mg/L)	<0.00020	<0.0010	<0.00020	<0.00020	
	Tin (Sn)-Dissolved (mg/L)	<0.00050	<0.0025	<0.00050	<0.00050	
	Titanium (Ti)-Dissolved (mg/L)	0.011	0.016	<0.010	<0.010	
	Uranium (U)-Dissolved (mg/L)	0.00071	0.0015	0.00058	0.00341	
	Vanadium (V)-Dissolved (mg/L)	0.0044	<0.0050	<0.0010	0.0017	
	Zinc (Zn)-Dissolved (mg/L)	<0.0050	<0.0050	<0.0050	<0.0050	

* Please refer to the Reference Information section for an explanation of any qualifiers detected.

Reference Information

Additional Comments for Sample Listed:

Samplenum	Matrix	Report Remarks	Sample Comment:
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Qualifiers for Individual Parameters Listed:

Qualifier	Description
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DLM Detection Limit Adjustment For Sample Matrix Effects

Samples with Qualifiers for Individual Parameters as listed above:

Sample Number	Client Sample ID	Parameters	Qualifier
L814853-2	MW09-08	Nitrate (as N) Sulfate (SO4) Bromide (Br) Chloride (Cl) Nitrite (as N) Fluoride (F)	DLM

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Analytical Method Reference(Based On)
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ACY-PCT-VA Water Acidity by Automatic Titration APHA 2310 "Acidity"

This analysis is carried out using procedures adapted from APHA Method 2310 "Acidity". Acidity is determined by potentiometric titration to a specified endpoint.

ACY-PCT-VA Water Acidity by Automatic Titration APHA 2310 Acidity

This analysis is carried out using procedures adapted from APHA Method 2310 "Acidity". Acidity is determined by potentiometric titration to a specified endpoint.

ALK-COL-VA Water Alkalinity by Colourimetric (Automated) APHA 310.2

This analysis is carried out using procedures adapted from EPA Method 310.2 "Alkalinity". Total Alkalinity is determined using the methyl orange colourimetric method.

ALK-PCT-VA Water Alkalinity by Auto. Titration APHA 2320 "Alkalinity"

This analysis is carried out using procedures adapted from APHA Method 2320 "Alkalinity". Total alkalinity is determined by potentiometric titration to a pH 4.5 endpoint. Bicarbonate, carbonate and hydroxide alkalinity are calculated from phenolphthalein alkalinity and total alkalinity values.

ALK-PCT-VA Water Alkalinity by Auto. Titration APHA 2320 Alkalinity

This analysis is carried out using procedures adapted from APHA Method 2320 "Alkalinity". Total alkalinity is determined by potentiometric titration to a pH 4.5 endpoint. Bicarbonate, carbonate and hydroxide alkalinity are calculated from phenolphthalein alkalinity and total alkalinity values.

ANIONS-BR-IC-VA Water Bromide by Ion Chromatography APHA 4110 B.

This analysis is carried out using procedures adapted from APHA Method 4110 B. "Ion Chromatography with Chemical Suppression of Eluent Conductivity" and EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography".

ANIONS-CL-IC-VA Water Chloride by Ion Chromatography APHA 4110 B.

This analysis is carried out using procedures adapted from APHA Method 4110 B. "Ion Chromatography with Chemical Suppression of Eluent Conductivity" and EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography".

ANIONS-F-IC-VA Water Fluoride by Ion Chromatography APHA 4110 B.

This analysis is carried out using procedures adapted from APHA Method 4110 B. "Ion Chromatography with Chemical Suppression of Eluent Conductivity" and EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography".

ANIONS-NO2-IC-VA Water Nitrite by Ion Chromatography APHA 4110 B.

This analysis is carried out using procedures adapted from APHA Method 4110 B. "Ion Chromatography with Chemical Suppression of Eluent Conductivity" and EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography". Specifically, the nitrite detection is by UV absorbance and not conductivity.

Reference Information

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Analytical Method Reference(Based On)
ANIONS-NO3-IC-VA			
	Water	Nitrate by Ion Chromatography	APHA 4110 B.
This analysis is carried out using procedures adapted from APHA Method 4110 B. "Ion Chromatography with Chemical Suppression of Eluent Conductivity" and EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography". Specifically, the nitrate detection is by UV absorbance and not conductivity.			
ANIONS-SO4-IC-VA			
	Water	Sulfate by Ion Chromatography	APHA 4110 B.
This analysis is carried out using procedures adapted from APHA Method 4110 B. "Ion Chromatography with Chemical Suppression of Eluent Conductivity" and EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography".			
CARBONS-TOC-VA			
	Water	Total organic carbon by combustion	APHA 5310 "TOTAL ORGANIC CARBON (TOC)"
This analysis is carried out using procedures adapted from APHA Method 5310 "Total Organic Carbon (TOC)".			
CARBONS-TOC-VA			
	Water	Total organic carbon by combustion	APHA 5310 TOTAL ORGANIC CARBON (TOC)
This analysis is carried out using procedures adapted from APHA Method 5310 "Total Organic Carbon (TOC)".			
CN-SCN-VA			
	Water	Thiocyanate by Colour	APHA 4500-CN "CYANIDE"
This analysis is carried out using procedures adapted from APHA Method 4500-CN "Cyanide". Total or strong acid dissociable (SAD) cyanide and weak acid dissociable (WAD) cyanide are determined by sample distillation and analysis using the chloramine-T colourimetric method. Cyanate is determined by the cyanate hydrolysis method using an ammonia selective electrode. Thiocyanate is determined by the ferric nitrate colourimetric method.			
CN-SCN-VA			
	Water	Thiocyanate by Colour	APHA 4500-CN CYANIDE
This analysis is carried out using procedures adapted from APHA Method 4500-CN "Cyanide". Total or strong acid dissociable (SAD) cyanide and weak acid dissociable (WAD) cyanide are determined by sample distillation and analysis using the chloramine-T colourimetric method. Cyanate is determined by the cyanate hydrolysis method using an ammonia selective electrode. Thiocyanate is determined by the ferric nitrate colourimetric method.			
CN-T-MID-HH-COL-VA			
	Water	Total Cyanide by HH Distillation	APHA 4500-CN "Cyanide"
This analysis is carried out using procedures adapted from APHA Method 4500-CN "Cyanide". Total or strong acid dissociable (SAD) cyanide are determined by sample distillation and analysis using the chloramine-T colourimetric method.			
CN-T-MID-HH-COL-VA			
	Water	Total Cyanide by HH Distillation	APHA 4500-CN Cyanide
This analysis is carried out using procedures adapted from APHA Method 4500-CN "Cyanide". Total or strong acid dissociable (SAD) cyanide are determined by sample distillation and analysis using the chloramine-T colourimetric method.			
CN-WAD-MID-COL-VA			
	Water	Weak Acid Cyanide by Colorimetric	APHA 4500-CN "Cyanide"
This analysis is carried out using procedures adapted from APHA Method 4500-CN "Cyanide". Weak acid dissociable (WAD) cyanide are determined by sample distillation and analysis using the chloramine-T colourimetric method.			
CN-WAD-MID-COL-VA			
	Water	Weak Acid Cyanide by Colorimetric	APHA 4500-CN Cyanide
This analysis is carried out using procedures adapted from APHA Method 4500-CN "Cyanide". Weak acid dissociable (WAD) cyanide are determined by sample distillation and analysis using the chloramine-T colourimetric method.			
CNO-SIE-VA			
	Water	Cyanate by SIE	APHA 4500-CN Cyanide
This analysis is carried out using procedures adapted from APHA Method 4500-CN "Cyanide". Cyanate is determined by the cyanate hydrolysis method using an ammonia selective electrode.			
EC-PCT-VA			
	Water	Conductivity (Automated)	APHA 2510 Auto. Conduc.
This analysis is carried out using procedures adapted from APHA Method 2510 "Conductivity". Conductivity is determined using a conductivity electrode.			

Reference Information

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Analytical Method Reference(Based On)
<hr/>			
HARDNESS-CALC-VA	Water	Hardness	APHA 2340B
Hardness is calculated from Calcium and Magnesium concentrations, and is expressed as calcium carbonate equivalents.			
<hr/>			
HG-DIS-CCME-CVAFS-VA	Water	Diss. Mercury in Water by CVAFS (CCME)	EPA 3005A/245.7
This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures may involve preliminary sample treatment by filtration (EPA Method 3005A) and involves a cold-oxidation of the acidified sample using bromine monochloride prior to reduction of the sample with stannous chloride. Instrumental analysis is by cold vapour atomic fluorescence spectrophotometry (EPA Method 245.7).			
<hr/>			
MET-DIS-CCME-ICP-VA	Water	Diss. Metals in Water by ICPOES (CCME)	EPA SW-846 3005A/6010B
This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures may involve preliminary sample treatment by acid digestion, using either hotblock or microwave oven, or filtration (EPA Method 3005A). Instrumental analysis is by inductively coupled plasma - optical emission spectrophotometry (EPA Method 6010B).			
<hr/>			
MET-DIS-CCME-MS-VA	Water	Diss. Metals in Water by ICPMS (CCME)	EPA SW-846 3005A/6020A
This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures may involve preliminary sample treatment by acid digestion, using either hotblock or microwave oven, or filtration (EPA Method 3005A). Instrumental analysis is by inductively coupled plasma - mass spectrometry (EPA Method 6020A).			
<hr/>			
MET-DIS-ICP-VA	Water	Dissolved Metals in Water by ICPOES	EPA SW-846 3005A/6010B
This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedure involves filtration (EPA Method 3005A) and analysis by inductively coupled plasma - optical emission spectrophotometry (EPA Method 6010B).			
<hr/>			
NH3-SIE-VA	Water	Ammonia by SIE	APHA 4500 D. - NH3 NITROGEN (AMMONIA)
This analysis is carried out, on sulphuric acid preserved samples, using procedures adapted from APHA Method 4500-NH3 "Nitrogen (Ammonia)". Ammonia is determined using an ammonia selective electrode.			
<hr/>			
PH-MAN-VA	Water	pH by Manual Meter	APHA 4500-H "pH Value"
This analysis is carried out using procedures adapted from APHA Method 4500-H "pH Value". The pH is determined in the laboratory using a pH electrode.			
<hr/>			
PH-MAN-VA	Water	pH by Manual Meter	APHA 4500-H pH Value
This analysis is carried out using procedures adapted from APHA Method 4500-H "pH Value". The pH is determined in the laboratory using a pH electrode.			
<hr/>			
PH-PCT-VA	Water	pH by Meter (Automated)	APHA 4500-H "pH Value"
This analysis is carried out using procedures adapted from APHA Method 4500-H "pH Value". The pH is determined in the laboratory using a pH electrode			
<hr/>			
PH-PCT-VA	Water	pH by Meter (Automated)	APHA 4500-H pH Value
This analysis is carried out using procedures adapted from APHA Method 4500-H "pH Value". The pH is determined in the laboratory using a pH electrode			
<hr/>			
TDS-VA	Water	Total Dissolved Solids by Gravimetric	APHA 2540 C - GRAVIMETRIC

Reference Information

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Analytical Method Reference(Based On)
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This analysis is carried out using procedures adapted from APHA Method 2540 "Solids". Solids are determined gravimetrically. Total Dissolved Solids (TDS) are determined by filtering a sample through a glass fibre filter, TDS is determined by evaporating the filtrate to dryness at 180 degrees celsius.

**** Laboratory Methods employed follow in-house procedures, which are generally based on nationally or internationally accepted methodologies. The last two letters of the above ALS Test Code column indicate the laboratory that performed analytical analysis for that test. Refer to the list below:**

Laboratory Definition Code	Laboratory Location	Laboratory Definition Code	Laboratory Location
VA	ALS LABORATORY GROUP - VANCOUVER, BC, CANADA		

GLOSSARY OF REPORT TERMS

Surr - A surrogate is an organic compound that is similar to the target analyte(s) in chemical composition and behavior but not normally detected in environmental samples. Prior to sample processing, samples are fortified with one or more surrogate compounds.

The reported surrogate recovery value provides a measure of method efficiency.

mg/kg (units) - unit of concentration based on mass, parts per million

mg/L (units) - unit of concentration based on volume, parts per million

N/A - Result not available. Refer to qualifier code and definition for explanation

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Although test results are generated under strict QA/QC protocols, any unsigned test reports, faxes, or emails are considered preliminary.

ALS Laboratory Group has an extensive QA/QC program where all analytical data reported is analyzed using approved referenced procedures followed by checks and reviews by senior managers and quality assurance personnel. However, since the results are obtained from chemical measurements and thus cannot be guaranteed, ALS Laboratory Group assumes no liability for the use or interpretation of the results.

Report to:						Report Format / Distribution						Service Requested:							
Company: AECOM (GAR200)						<input checked="" type="checkbox"/> Standard	<input type="checkbox"/> Other					<input checked="" type="checkbox"/>	Regular Service (Default)						
Contact: Ryan Mills						<input checked="" type="checkbox"/> PDF	<input checked="" type="checkbox"/> Excel <input type="checkbox"/> Fax					<input type="checkbox"/>	Rush Service (2-3 Days)						
Address: 275 - 3001 WAYBURN DR, Burnaby BC						Email 1: Ryan.Mills@aecom.com						<input type="checkbox"/>	Priority Service (1 Day or ASAP)						
Phone:						Fax:							Emergency Service (<1 Day / Wkend) - Contact ALS						
Invoice To: <input checked="" type="checkbox"/> Same as Report						Indicate Bottles: Filtered / Preserved (F/P) -->						<input checked="" type="checkbox"/>	Analysis Request						
Company:						Client / Project Information:													
Contact:						Job #: 112359													
Address:						PO/A/E:													
Sample:						Legal Site Description: Mt Nansen Mine, YT													
Phone:						Quote #:													
Lab Work Order # (lab use only)						ALS Contact: NatashaMM						Sampler (initials): MNL/JF							
Sample Identification (This description will appear on the report)						Date	Time	Sample Type											
#						dd-mm-yy	hh:mm	(Select from drop-down list)											
	GLL07-03					01-Sep-09		Water	X	X	X	X	X	X	X	X	4		
	MW09-08					01-Sep-09		Water	X	X	X	X	X	X	X	X	5		
	MW09-11					02-Sep-09		Water	X	X	X	X	X	X	X	X	5		
	MW09-15					01-Sep-09		Water	X	X	X	X	X	X	X	X	4		
	MW09-16					01-Sep-09		Water	X	X	X	X	X	X	X	X	5		
	MW09-17					01-Sep-09		Water	X	X	X	X	X	X	X	X	5		
	MW09-18					01-Sep-09		Water	X	X	X	X	X	X	X	X	5		
Guidelines / Regulations																			
Special Instructions / Hazardous Details																			
Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY.																			
By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the adjacent worksheet.																			
Reinquished By:	Date & Time:	Received By:	Date & Time:	Temperature	Sample Condition (lab use only) Samples received in Good Condition? Y/N (if no provided details)														
Reinquished By:	Date & Time:	Received By:	Date & Time:																



Report to:		Report Format / Distribution		Service Requested:	
Company: AECOM (GAR200)		<input checked="" type="checkbox"/> Standard	<input type="checkbox"/> Other	<input checked="" type="checkbox"/> Regular Service (Default)	
Contact: Ryan Mills		<input checked="" type="checkbox"/> PDF	<input type="checkbox"/> Excel	<input type="checkbox"/> Rush Service (2-3 Days)	
Address: 275 - 3001 WAYBURNE DR, Burnaby BC		Email 1: Ryan.Mills@aecom.com		<input type="checkbox"/> Priority Service (1 Day or ASAP)	
		Email 2: Marc-Andre.Lavigne@aecom.com		<input type="checkbox"/> Emergency Service (<1 Day / Weekend) - Contact ALS	
Phone:	Fax:				
Invoice To: <input checked="" type="checkbox"/> Same as Report		Indicate Bottles: Filtered / Preserved (F/P) ---			
Company:		Client / Project Information:			
Contact:		Job #:	112369		
Address:		PO/AFE:			
Sample		Legal Site Description:	Mt Nansen Mine, YT		
Phone:	Fax:	Quote #:			
Lab Work Order # (lab use only)		ALS Contact:	NatashaMM	Sampler (initials):	MAL/JF
Sample #	Sample Identification (This description will appear on the report)	Date	Time	Sample Type (Select from drop-down list)	
	TRIP BLANK	dd-mm-yy	hh:mm		
MW09-19		01-Sep-09		WATER	X
MW09-21		02-Sep-09		Water	X
MW09-22		02-Sep-09		Water	X
MW09-23		01-Sep-09		Water	X
MW09-24		01-Sep-09		Water	X
MW09-26		02-Sep-09		Water	X
Guidelines / Regulations					
Special Instructions / Hazardous Details					
Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the adjacent worksheet.					
Relinquished By:	Date & Time:	Received By:	Date & Time:	Temperature:	Sample Condition (lab use only) Samples Received in Good Condition? Y/N (if no provided details)
Marc-Andre	03/09/09		7/9/5		
Relinquished By:	Date & Time:	Received By:	Date & Time:		



Environmental Division

Certificate of Analysis

LORAX ENVIRONMENTAL SERVICES

ATTN: SKYA FAWCETT

2289 BURRARD STREET

VANCOUVER BC V6J 3H9

Report Date: 16-SEP-09 13:32 (MT)

Version: FINAL

Lab Work Order #: **L815006**

Date Received: **04-SEP-09**

Project P.O. #: NOT SUBMITTED

Job Reference: 907-2 MT.NANSEN

Legal Site Desc:

CofC Numbers: 08-038864, 08-038865

Other Information:

Comments:

Andre Langlais
Account Manager

THIS REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL WITHOUT THE WRITTEN AUTHORITY OF THE LABORATORY.
ALL SAMPLES WILL BE DISPOSED OF AFTER 30 DAYS FOLLOWING ANALYSIS. PLEASE CONTACT THE LAB IF YOU
REQUIRE ADDITIONAL SAMPLE STORAGE TIME.

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample ID Description Sampled Date Sampled Time Client ID		L815006-1	L815006-2	L815006-3	L815006-4	L815006-5
		02-SEP-09	02-SEP-09	02-SEP-09	02-SEP-09	03-SEP-09
		MP09-09	MP09-10	MP09-11	MP09-12	MW09-1
Grouping	Analyte					
WATER						
Physical Tests	Hardness (as CaCO3) (mg/L)	382	196	607	668	943
Anions and Nutrients	Ammonia as N (mg/L)	8.50	2.65	1.60	1.98	13.5
	Bromide (Br) (mg/L)	<0.50	<0.50	<0.50	<0.50	<5.0
	Chloride (Cl) (mg/L)	6.5	<5.0	8.5	6.3	<50
	Fluoride (F) (mg/L)	0.64	1.67	0.218	0.20	0.076
	Nitrate (as N) (mg/L)	<0.050	<0.050	<0.050	<0.050	<0.50
	Nitrite (as N) (mg/L)	<0.010	<0.010	<0.010	<0.010	<0.10
	Sulfate (SO4) (mg/L)	179	237	<5.0	59.9	531
Cyanides	Cyanide, Weak Acid Diss (mg/L)	0.0335	0.964	0.0099	<0.0050	0.0209
	Cyanide, Total (mg/L)	0.125	2.96	0.0747	0.0387	0.0525
	Cyanate (CNO) (mg/L)	<0.60	0.54	0.54	<0.50	5.1
	Thiocyanate (SCN) (mg/L)	1.96	3.20	4.46	2.89	27.1
Organic / Inorganic Carbon	Total Organic Carbon (mg/L)	35.4	48.5	142	55.9	66.8
Dissolved Metals	Aluminum (Al)-Dissolved (mg/L)	0.0023	<0.010	0.0244	0.0052	0.0812
	Antimony (Sb)-Dissolved (mg/L)	0.109	0.178	0.00098	0.0707	0.00404
	Arsenic (As)-Dissolved (mg/L)	5.73	24.2	1.33	9.27	0.215
	Barium (Ba)-Dissolved (mg/L)	0.0130	0.00361	0.158	0.0470	0.163
	Beryllium (Be)-Dissolved (mg/L)	<0.0010	<0.0050	<0.0010	<0.0025	<0.0025
	Bismuth (Bi)-Dissolved (mg/L)	<0.0010	<0.0050	<0.0010	<0.0025	<0.0025
	Boron (B)-Dissolved (mg/L)	<0.020	<0.10	0.027	0.114	0.051
	Cadmium (Cd)-Dissolved (mg/L)	0.000166	0.00089	0.000229	0.000546	<0.000085
	Calcium (Ca)-Dissolved (mg/L)	115	76.0	129	185	293
	Chromium (Cr)-Dissolved (mg/L)	<0.0010	<0.0050	<0.0070	<0.0025	<0.0070
	Cobalt (Co)-Dissolved (mg/L)	0.00954	0.0896	0.00276	0.00208	0.0110
	Copper (Cu)-Dissolved (mg/L)	<0.015	0.725	0.00075	0.00102	<0.00050
	Iron (Fe)-Dissolved (mg/L)	0.160	0.496	8.10	1.03	66.4
	Lead (Pb)-Dissolved (mg/L)	0.00077	0.00311	0.00023	0.00404	0.00044
	Lithium (Li)-Dissolved (mg/L)	<0.010	<0.050	<0.010	<0.025	<0.025
	Magnesium (Mg)-Dissolved (mg/L)	23.0	1.49	69.0	50.1	51.7
	Manganese (Mn)-Dissolved (mg/L)	0.679	0.260	2.03	3.30	6.05
	Molybdenum (Mo)-Dissolved (mg/L)	0.0151	0.0123	0.0246	0.0235	0.00121
	Nickel (Ni)-Dissolved (mg/L)	0.0084	0.0367	0.0160	0.0133	0.0033
	Phosphorus (P)-Dissolved (mg/L)	0.68	0.54	0.41	<0.30	<0.30
	Potassium (K)-Dissolved (mg/L)	32.0	12.6	2.5	6.6	9.0
	Selenium (Se)-Dissolved (mg/L)	0.00060	0.00259	0.00111	0.00065	<0.00050
	Silicon (Si)-Dissolved (mg/L)	22.7	15.9	12.0	16.7	6.65
	Silver (Ag)-Dissolved (mg/L)	0.000079	0.0285	0.000068	<0.000050	<0.000050
	Sodium (Na)-Dissolved (mg/L)	36.8	106	39.1	40.1	81.9
	Strontium (Sr)-Dissolved (mg/L)	0.731	0.233	0.582	0.633	1.03
	Thallium (Tl)-Dissolved (mg/L)	<0.00020	<0.0010	<0.00020	<0.00050	<0.00050

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample ID Description Sampled Date Sampled Time Client ID		L815006-6	L815006-7	L815006-8	L815006-9	L815006-10
		03-SEP-09	03-SEP-09	03-SEP-09	03-SEP-09	03-SEP-09
		MW09-2	MW09-3	MW09-4	MW09-6	MW09-23
Grouping	Analyte					
WATER						
Physical Tests	Hardness (as CaCO ₃) (mg/L)	1440	1510	1480	1550	1070
Anions and Nutrients	Ammonia as N (mg/L)	14.0	10.7	14.7	1.96	9.27
	Bromide (Br) (mg/L)	<2.5	<1.0	<1.0	<1.0	<1.0
	Chloride (Cl) (mg/L)	<25	<10	<10	<10	<10
	Fluoride (F) (mg/L)	0.729	0.56	0.68	<0.40	<0.40
	Nitrate (as N) (mg/L)	<0.25	7.15	<0.10	<0.10	<0.10
	Nitrite (as N) (mg/L)	<0.050	1.14	<0.020	<0.020	<0.020
	Sulfate (SO ₄) (mg/L)	1690	1570	1610	1450	976
Cyanides	Cyanide, Weak Acid Diss (mg/L)	0.0281	0.0107	0.0239	<0.0050	0.0583
	Cyanide, Total (mg/L)	0.361	0.298	0.0425	<0.0050	0.0729
	Cyanate (CNO) (mg/L)	4.7	1.74	5.9	<0.50	3.0
	Thiocyanate (SCN) (mg/L)	3.11	1.10	1.21	0.71	5.86
Organic / Inorganic Carbon	Total Organic Carbon (mg/L)	6.23	8.80	5.16	6.05	18.1
Dissolved Metals	Aluminum (Al)-Dissolved (mg/L)	<0.010	<0.010	<0.010	<0.010	0.0390
	Antimony (Sb)-Dissolved (mg/L)	0.0068	0.439	0.484	0.591	<0.00050
	Arsenic (As)-Dissolved (mg/L)	15.3	3.29	4.06	0.868	0.00912
	Barium (Ba)-Dissolved (mg/L)	0.0138	0.0523	0.00834	0.00564	0.0683
	Beryllium (Be)-Dissolved (mg/L)	<0.0050	<0.0050	<0.0050	<0.0050	<0.0025
	Bismuth (Bi)-Dissolved (mg/L)	<0.0050	<0.0050	<0.0050	<0.0050	<0.0025
	Boron (B)-Dissolved (mg/L)	<0.10	0.28	0.23	0.36	0.152
	Cadmium (Cd)-Dissolved (mg/L)	0.00019	0.00018	<0.00017	0.00827	0.000132
	Calcium (Ca)-Dissolved (mg/L)	488	493	489	548	353
	Chromium (Cr)-Dissolved (mg/L)	<0.0050	<0.0050	<0.0050	<0.0050	<0.0025
	Cobalt (Co)-Dissolved (mg/L)	0.0122	0.0091	0.0051	0.0038	0.0170
	Copper (Cu)-Dissolved (mg/L)	<0.0010	0.0018	<0.0010	0.0045	<0.00050
	Iron (Fe)-Dissolved (mg/L)	9.46	0.126	<0.030	<0.030	5.55
	Lead (Pb)-Dissolved (mg/L)	<0.00050	<0.00050	<0.00050	0.00087	<0.00025
	Lithium (Li)-Dissolved (mg/L)	<0.050	<0.050	<0.050	<0.050	<0.025
	Magnesium (Mg)-Dissolved (mg/L)	53.2	69.0	62.7	44.0	47.2
	Manganese (Mn)-Dissolved (mg/L)	23.7	0.761	3.32	14.0	6.88
	Molybdenum (Mo)-Dissolved (mg/L)	0.00974	0.0128	0.0105	0.00899	0.00252
	Nickel (Ni)-Dissolved (mg/L)	<0.0050	<0.0050	<0.0050	0.0059	<0.0025
	Phosphorus (P)-Dissolved (mg/L)	<0.30	<0.30	<0.30	<0.30	<0.30
	Potassium (K)-Dissolved (mg/L)	51.8	31.0	44.0	11.4	15.6
	Selenium (Se)-Dissolved (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	Silicon (Si)-Dissolved (mg/L)	5.36	5.29	9.61	7.43	5.33
	Silver (Ag)-Dissolved (mg/L)	0.00014	0.00012	<0.00010	<0.00010	0.00128
	Sodium (Na)-Dissolved (mg/L)	123	72.7	55.9	28.4	80.9
	Strontium (Sr)-Dissolved (mg/L)	1.08	1.18	1.14	1.02	0.752
	Thallium (Tl)-Dissolved (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	<0.00050

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample ID Description Sampled Date Sampled Time Client ID		L815006-11	L815006-12	L815006-13		
		03-SEP-09	03-SEP-09	03-SEP-09		
		MP09-5	MW09-200	TS		
Grouping	Analyte					
WATER						
Physical Tests	Hardness (as CaCO ₃) (mg/L)	693	1470	1760		
Anions and Nutrients	Ammonia as N (mg/L)	8.06	15.4	0.0197		
	Bromide (Br) (mg/L)	<0.50	<1.0	<1.0		
	Chloride (Cl) (mg/L)	6.6	<10	<10		
	Fluoride (F) (mg/L)	<0.20	0.64	0.121		
	Nitrate (as N) (mg/L)	5.70	<0.10	0.31		
	Nitrite (as N) (mg/L)	0.119	<0.020	<0.020		
	Sulfate (SO ₄) (mg/L)	530	1750	1750		
Cyanides	Cyanide, Weak Acid Diss (mg/L)	0.0171	0.128			
	Cyanide, Total (mg/L)	0.0219	0.857			
	Cyanate (CNO) (mg/L)	3.42	<1.8			
	Thiocyanate (SCN) (mg/L)	1.62	2.67	0.54		
Organic / Inorganic Carbon	Total Organic Carbon (mg/L)	24.3	6.76			
Dissolved Metals	Aluminum (Al)-Dissolved (mg/L)	0.0198	<0.010	<0.010		
	Antimony (Sb)-Dissolved (mg/L)	<0.00050	0.0045	0.0500		
	Arsenic (As)-Dissolved (mg/L)	0.00355	13.5	0.0026		
	Barium (Ba)-Dissolved (mg/L)	0.0440	0.0142	0.0513		
	Beryllium (Be)-Dissolved (mg/L)	<0.0025	<0.0050	<0.0050		
	Bismuth (Bi)-Dissolved (mg/L)	<0.0025	<0.0050	<0.0050		
	Boron (B)-Dissolved (mg/L)	0.071	<0.10	<0.10		
	Cadmium (Cd)-Dissolved (mg/L)	0.00239	<0.00017	0.0114		
	Calcium (Ca)-Dissolved (mg/L)	232	504	522		
	Chromium (Cr)-Dissolved (mg/L)	<0.0025	<0.0050	<0.0050		
	Cobalt (Co)-Dissolved (mg/L)	0.0211	0.0117	0.0296		
	Copper (Cu)-Dissolved (mg/L)	0.0324	<0.0010	<0.0013		
	Iron (Fe)-Dissolved (mg/L)	0.346	8.12	<0.030		
	Lead (Pb)-Dissolved (mg/L)	<0.00025	<0.00050	<0.00050		
	Lithium (Li)-Dissolved (mg/L)	<0.025	<0.050	<0.050		
	Magnesium (Mg)-Dissolved (mg/L)	28.0	50.6	112		
	Manganese (Mn)-Dissolved (mg/L)	9.04	20.0	5.62		
	Molybdenum (Mo)-Dissolved (mg/L)	0.00034	0.0108	0.00053		
	Nickel (Ni)-Dissolved (mg/L)	0.0097	<0.0050	0.0792		
	Phosphorus (P)-Dissolved (mg/L)	<0.30	<0.30	<0.30		
	Potassium (K)-Dissolved (mg/L)	7.4	49.6	8.5		
	Selenium (Se)-Dissolved (mg/L)	<0.00050	<0.00050	<0.00050		
	Silicon (Si)-Dissolved (mg/L)	5.07	4.88	6.26		
	Silver (Ag)-Dissolved (mg/L)	<0.000050	<0.00010	<0.00010		
	Sodium (Na)-Dissolved (mg/L)	79.0	158	6.4		
	Strontium (Sr)-Dissolved (mg/L)	0.679	1.03	1.24		
	Thallium (Tl)-Dissolved (mg/L)	<0.00050	<0.0010	<0.0010		

ALS LABORATORY GROUP ANALYTICAL REPORT

		Sample ID				
		Description				
		Sampled Date				
		Sampled Time				
		Client ID				
Grouping	Analyte					
WATER						
Dissolved Metals	Tin (Sn)-Dissolved (mg/L)	<0.00020	<0.0010	<0.00020	<0.00050	<0.00050
	Titanium (Ti)-Dissolved (mg/L)	<0.010	<0.010	<0.010	<0.010	<0.010
	Uranium (U)-Dissolved (mg/L)	0.00337	0.00077	0.000211	0.00384	0.00120
	Vanadium (V)-Dissolved (mg/L)	<0.0020	<0.010	0.0507	<0.0050	0.0125
	Zinc (Zn)-Dissolved (mg/L)	0.0044	0.033	0.0048	0.0380	0.0094

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		Sample ID	L815006-6	L815006-7	L815006-8	L815006-9	L815006-10
		Description					
		Sampled Date	03-SEP-09	03-SEP-09	03-SEP-09	03-SEP-09	03-SEP-09
		Sampled Time					
		Client ID	MW09-2	MW09-3	MW09-4	MW09-6	MW09-23
Grouping	Analyte						
WATER							
Dissolved Metals	Tin (Sn)-Dissolved (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	<0.00050	
	Titanium (Ti)-Dissolved (mg/L)	<0.010	<0.010	<0.010	<0.010	<0.010	
	Uranium (U)-Dissolved (mg/L)	0.00048	0.00513	0.00015	0.00309	0.00157	
	Vanadium (V)-Dissolved (mg/L)	<0.010	<0.010	<0.010	<0.010	<0.0050	
	Zinc (Zn)-Dissolved (mg/L)	0.462	<0.010	<0.010	0.121	<0.0050	

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample ID Description Sampled Date Sampled Time Client ID		L815006-11	L815006-12	L815006-13		
Grouping	Analyte					
WATER						
Dissolved Metals	Tin (Sn)-Dissolved (mg/L)	<0.00050	<0.0010	<0.0010		
	Titanium (Ti)-Dissolved (mg/L)	<0.010	<0.010	<0.010		
	Uranium (U)-Dissolved (mg/L)	0.00133	0.00042	0.00019		
	Vanadium (V)-Dissolved (mg/L)	<0.0050	<0.010	<0.010		
	Zinc (Zn)-Dissolved (mg/L)	0.0354	0.244	0.952		

Reference Information

Additional Comments for Sample Listed:

Samplenum	Matrix	Report Remarks	Sample Comments
Methods Listed (if applicable):			
ALS Test Code	Matrix	Test Description	Analytical Method Reference(Based On)
ANIONS-BR-IC-VA	Water	Bromide by Ion Chromatography	APHA 4110 B.
This analysis is carried out using procedures adapted from APHA Method 4110 B. "Ion Chromatography with Chemical Suppression of Eluent Conductivity" and EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography".			
ANIONS-CL-IC-VA	Water	Chloride by Ion Chromatography	APHA 4110 B.
This analysis is carried out using procedures adapted from APHA Method 4110 B. "Ion Chromatography with Chemical Suppression of Eluent Conductivity" and EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography".			
ANIONS-F-IC-VA	Water	Fluoride by Ion Chromatography	APHA 4110 B.
This analysis is carried out using procedures adapted from APHA Method 4110 B. "Ion Chromatography with Chemical Suppression of Eluent Conductivity" and EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography".			
ANIONS-NO2-IC-VA	Water	Nitrite by Ion Chromatography	APHA 4110 B.
This analysis is carried out using procedures adapted from APHA Method 4110 B. "Ion Chromatography with Chemical Suppression of Eluent Conductivity" and EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography". Specifically, the nitrite detection is by UV absorbance and not conductivity.			
ANIONS-NO3-IC-VA	Water	Nitrate by Ion Chromatography	APHA 4110 B.
This analysis is carried out using procedures adapted from APHA Method 4110 B. "Ion Chromatography with Chemical Suppression of Eluent Conductivity" and EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography". Specifically, the nitrate detection is by UV absorbance and not conductivity.			
ANIONS-SO4-IC-VA	Water	Sulfate by Ion Chromatography	APHA 4110 B.
This analysis is carried out using procedures adapted from APHA Method 4110 B. "Ion Chromatography with Chemical Suppression of Eluent Conductivity" and EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography".			
CARBONS-TOC-VA	Water	Total organic carbon by combustion	APHA 5310 "TOTAL ORGANIC CARBON (TOC)"
This analysis is carried out using procedures adapted from APHA Method 5310 "Total Organic Carbon (TOC)".			
CARBONS-TOC-VA	Water	Total organic carbon by combustion	APHA 5310 TOTAL ORGANIC CARBON (TOC)
This analysis is carried out using procedures adapted from APHA Method 5310 "Total Organic Carbon (TOC)".			
CN-SCN-VA	Water	Thiocyanate by Colour	APHA 4500-CN "CYANIDE"
This analysis is carried out using procedures adapted from APHA Method 4500-CN "Cyanide". Total or strong acid dissociable (SAD) cyanide and weak acid dissociable (WAD) cyanide are determined by sample distillation and analysis using the chloramine-T colourimetric method. Cyanate is determined by the cyanate hydrolysis method using an ammonia selective electrode. Thiocyanate is determined by the ferric nitrate colourimetric method.			
CN-SCN-VA	Water	Thiocyanate by Colour	APHA 4500-CN CYANIDE
This analysis is carried out using procedures adapted from APHA Method 4500-CN "Cyanide". Total or strong acid dissociable (SAD) cyanide and weak acid dissociable (WAD) cyanide are determined by sample distillation and analysis using the chloramine-T colourimetric method. Cyanate is determined by the cyanate hydrolysis method using an ammonia selective electrode. Thiocyanate is determined by the ferric nitrate colourimetric method.			
CN-T-L-MAC-HH-COL-VA	Water	Total Cyanide- Low Level by HH Distillat	APHA 4500-CN CYANIDE
This analysis is carried out using procedures adapted from APHA Method 4500-CN "Cyanide". Total or strong acid dissociable (SAD) cyanide are determined by sample distillation and analysis using the chloramine-T colourimetric method.			

Reference Information

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Analytical Method Reference(Based On)
CN-T-MID-HH-COL-VA	Water	Total Cyanide by HH Distillation	APHA 4500-CN "Cyanide"
This analysis is carried out using procedures adapted from APHA Method 4500-CN "Cyanide". Total or strong acid dissociable (SAD) cyanide are determined by sample distillation and analysis using the chloramine-T colourimetric method.			
CN-T-MID-HH-COL-VA	Water	Total Cyanide by HH Distillation	APHA 4500-CN Cyanide
This analysis is carried out using procedures adapted from APHA Method 4500-CN "Cyanide". Total or strong acid dissociable (SAD) cyanide are determined by sample distillation and analysis using the chloramine-T colourimetric method.			
CN-WAD-MID-COL-VA	Water	Weak Acid Cyanide by Colorimetric	APHA 4500-CN "Cyanide"
This analysis is carried out using procedures adapted from APHA Method 4500-CN "Cyanide". Weak acid dissociable (WAD) cyanide are determined by sample distillation and analysis using the chloramine-T colourimetric method.			
CN-WAD-MID-COL-VA	Water	Weak Acid Cyanide by Colorimetric	APHA 4500-CN Cyanide
This analysis is carried out using procedures adapted from APHA Method 4500-CN "Cyanide". Weak acid dissociable (WAD) cyanide are determined by sample distillation and analysis using the chloramine-T colourimetric method.			
CNO-SIE-VA	Water	Cyanate by SIE	APHA 4500-CN Cyanide
This analysis is carried out using procedures adapted from APHA Method 4500-CN "Cyanide". Cyanate is determined by the cyanate hydrolysis method using an ammonia selective electrode.			
F-SIE-VA	Water	Fluoride by SIE	APHA 4500-F "Fluoride"
This analysis is carried out using procedures adapted from APHA Method 4500-F "Fluoride". Fluoride is determined using a selective ion electrode. This method has a significant negative interference (i.e. results could be biased low) when Al ³⁺ is present in the sample at a concentration greater than 2.5 mg/L.			
F-SIE-VA	Water	Fluoride by SIE	APHA 4500-F Fluoride
This analysis is carried out using procedures adapted from APHA Method 4500-F "Fluoride". Fluoride is determined using a selective ion electrode. This method has a significant negative interference (i.e. results could be biased low) when Al ³⁺ is present in the sample at a concentration greater than 2.5 mg/L.			
HARDNESS-CALC-VA	Water	Hardness	APHA 2340B
Hardness is calculated from Calcium and Magnesium concentrations, and is expressed as calcium carbonate equivalents.			
MET-DIS-ICP-VA	Water	Dissolved Metals in Water by ICPOES	EPA SW-846 3005A/6010B
This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedure involves filtration (EPA Method 3005A) and analysis by inductively coupled plasma - optical emission spectrophotometry (EPA Method 6010B).			
MET-DIS-LOW-MS-VA	Water	Dissolved Metals in Water by ICPMS(Low)	EPA SW-846 3005A/6020A
This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures involves preliminary sample treatment by filtration (EPA Method 3005A). Instrumental analysis is by inductively coupled plasma - mass spectrometry (EPA Method 6020A).			
MET-DIS-ULTRA-MS-VA	Water	Diss. Metals in Water by ICPMS (Ultra)	EPA SW-846 3005A/6020A
This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures involves preliminary sample treatment by filtration (EPA Method 3005A). Instrumental analysis is by inductively coupled plasma - mass spectrometry (EPA Method 6020A).			
NH3-COL-VA	Water	Ammonia by Colour	APHA 4500-NH3 "Nitrogen (Ammonia)"

Reference Information

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Analytical Method Reference(Based On)
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This analysis is carried out, on unpreserved samples, using procedures adapted from APHA Method 4500-NH3 "Nitrogen (Ammonia)". Ammonia is determined using the phenate colourimetric method.

NH3-COL-VA	Water	Ammonia by Colour	APHA 4500-NH3 Nitrogen (Ammonia)
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This analysis is carried out, on unpreserved samples, using procedures adapted from APHA Method 4500-NH3 "Nitrogen (Ammonia)". Ammonia is determined using the phenate colourimetric method.

NH3-SIE-VA	Water	Ammonia by SIE	APHA 4500 D. - NH3 NITROGEN (AMMONIA)
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This analysis is carried out, on sulphuric acid preserved samples, using procedures adapted from APHA Method 4500-NH3 "Nitrogen (Ammonia)". Ammonia is determined using an ammonia selective electrode.

SE-D-HVAF-VA	Water	Dissolved Selenium in Water by HVAFS	APHA 3030B&E/ISO/CD 17378&9-1 2006:DRAFT
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This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Water Quality - Determination of As/Se/Sb, Part 1 - Hydride Generation Atomic Fluorescence Spectrometry (HG-AFS)", by the International Organization for Standardization (ISO). The procedures may involve preliminary sample treatment by acid digestion, using hotblock, or filtration (APHA 3030B&E). Instrumental analysis is by atomic fluorescence spectrophotometry (ISO/CD 17378&9-1 2006: DRAFT).

**** Laboratory Methods employed follow in-house procedures, which are generally based on nationally or internationally accepted methodologies. The last two letters of the above ALS Test Code column indicate the laboratory that performed analytical analysis for that test. Refer to the list below:**

Laboratory Definition Code	Laboratory Location	Laboratory Definition Code	Laboratory Location
VA	ALS LABORATORY GROUP - VANCOUVER, BC, CANADA		

GLOSSARY OF REPORT TERMS

Surr - A surrogate is an organic compound that is similar to the target analyte(s) in chemical composition and behavior but not normally detected in environmental samples. Prior to sample processing, samples are fortified with one or more surrogate compounds.

The reported surrogate recovery value provides a measure of method efficiency.

mg/kg (units) - unit of concentration based on mass, parts per million

mg/L (units) - unit of concentration based on volume, parts per million

N/A - Result not available. Refer to qualifier code and definition for explanation

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Although test results are generated under strict QA/QC protocols, any unsigned test reports, faxes, or emails are considered preliminary.

ALS Laboratory Group has an extensive QA/QC program where all analytical data reported is analyzed using approved referenced procedures followed by checks and reviews by senior managers and quality assurance personnel. However, since the results are obtained from chemical measurements and thus cannot be guaranteed, ALS Laboratory Group assumes no liability for the use or interpretation of the results.

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A vertical strip of a film negative, showing a landscape scene. In the upper portion, there is a building with a dark roof and some trees. The lower portion shows a lighter, possibly overexposed area, possibly a body of water or a field. The image is grainy and has a high-contrast, negative-like appearance.

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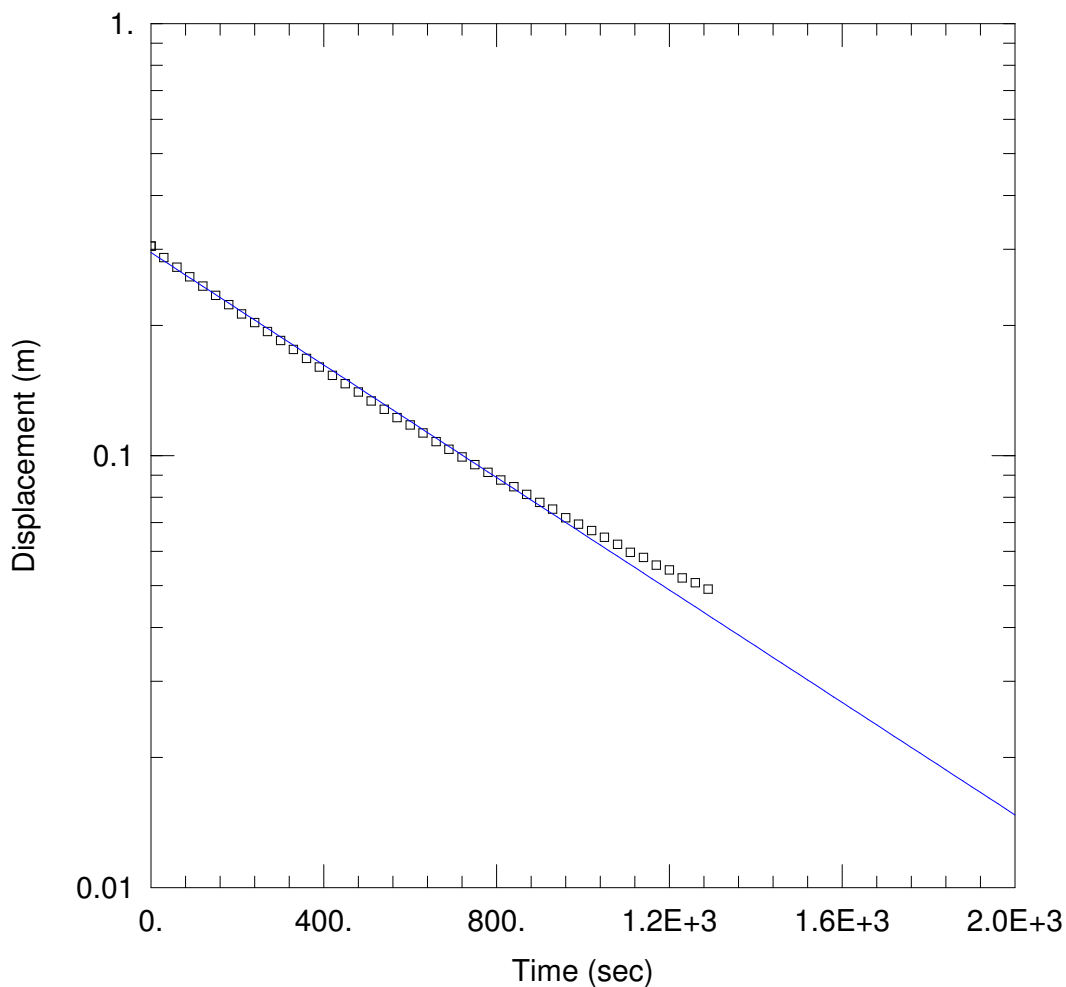
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 3. ☐ **Not Complete** (I have not read the document yet.)
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1. **Introduction**
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WELL TEST ANALYSIS

Data Set: Y:\...\MW09-02.aqt
 Date: 12/03/09

Time: 12:45:56

PROJECT INFORMATION

Company: AECOM
 Client: Mt. Nansen
 Project: 112349

AQUIFER DATA

Saturated Thickness: 2.28 m

Anisotropy Ratio (K_z/K_r): 1.

WELL DATA (MW09-02)

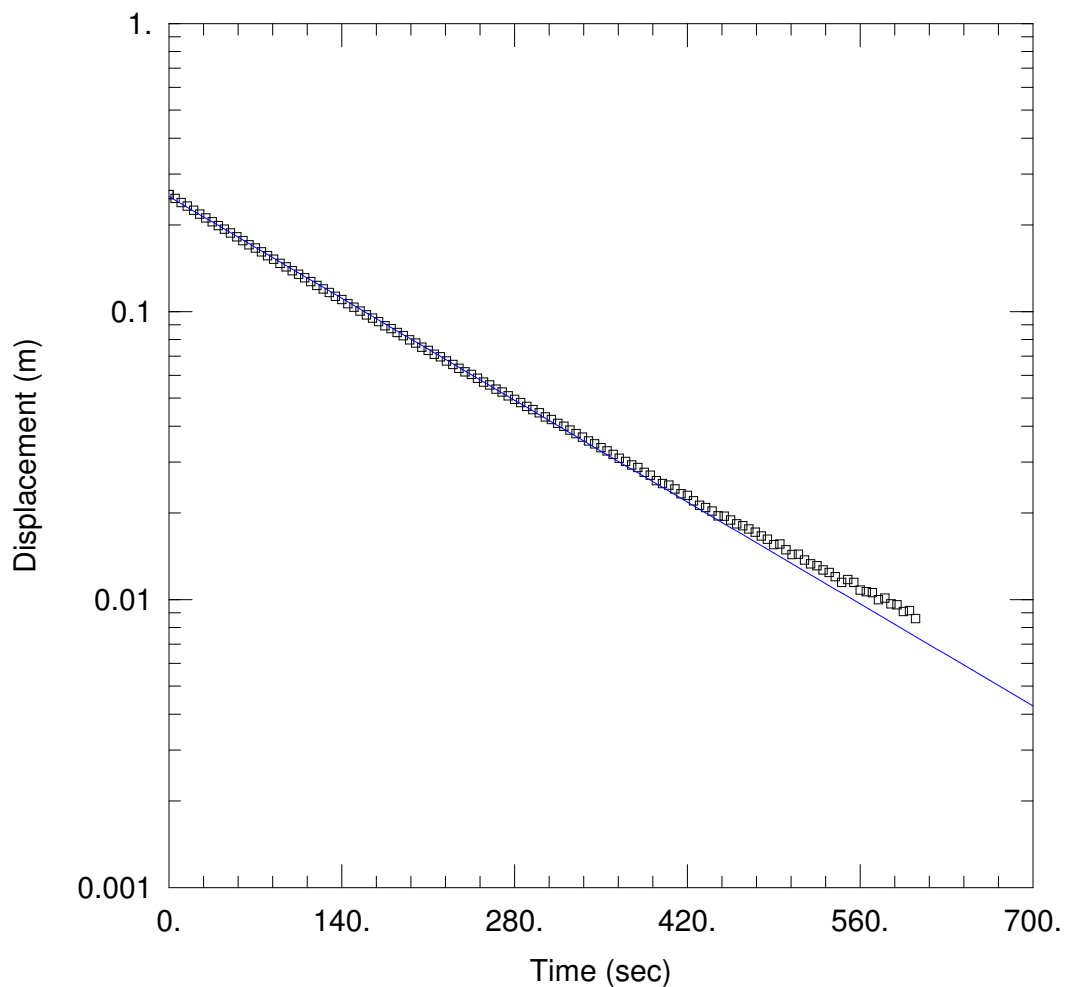
Initial Displacement: 0.3053 m
 Total Well Penetration Depth: 2.284 m
 Casing Radius: 0.0254 m

Static Water Column Height: 2.28 m
 Screen Length: 1.524 m
 Well Radius: 0.03 m

SOLUTION

Aquifer Model: Unconfined
 $K = 1.035E-6$ m/sec

Solution Method: Bouwer-Rice
 $y_0 = 0.295$ m



WELL TEST ANALYSIS

Data Set: Y:\...\MW09-03.aqt
 Date: 12/03/09

Time: 12:48:21

PROJECT INFORMATION

Company: AECOM
 Client: Mt. Nansen
 Project: 112349

AQUIFER DATA

Saturated Thickness: 0.91 m

Anisotropy Ratio (K_z/K_r): 1.

WELL DATA (MW09-03)

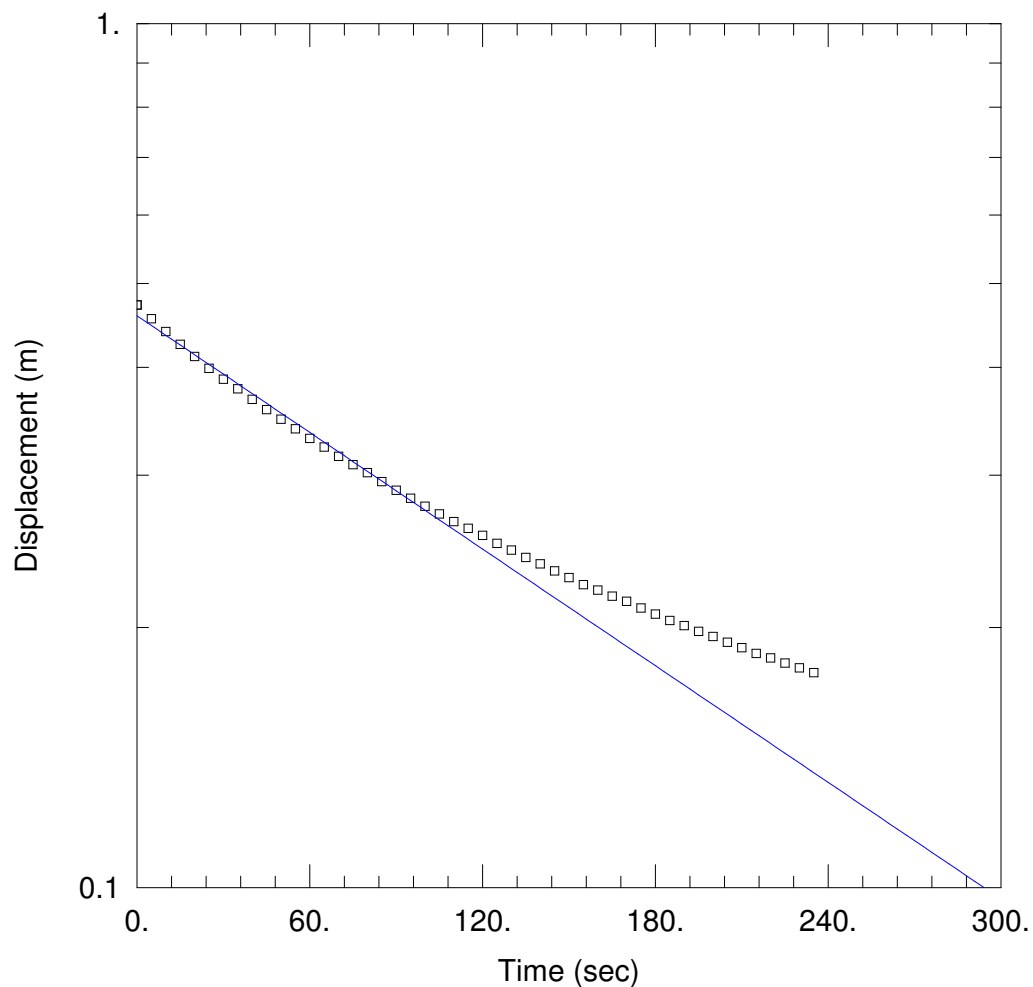
Initial Displacement: 0.255 m
 Total Well Penetration Depth: 1.067 m
 Casing Radius: 0.0254 m

Static Water Column Height: 0.91 m
 Screen Length: 1.067 m
 Well Radius: 0.03 m

SOLUTION

Aquifer Model: Unconfined
 $K = 5.525E-6$ m/sec

Solution Method: Bouwer-Rice
 $y_0 = 0.251$ m



WELL TEST ANALYSIS

Data Set: Y:\...\MW09-06.aqt
 Date: 12/03/09

Time: 12:48:32

PROJECT INFORMATION

Company: AECOM
 Client: Mt. Nansen
 Project: 112349

AQUIFER DATA

Saturated Thickness: 2.91 m

Anisotropy Ratio (K_z/K_r): 1.

WELL DATA (MW09-06)

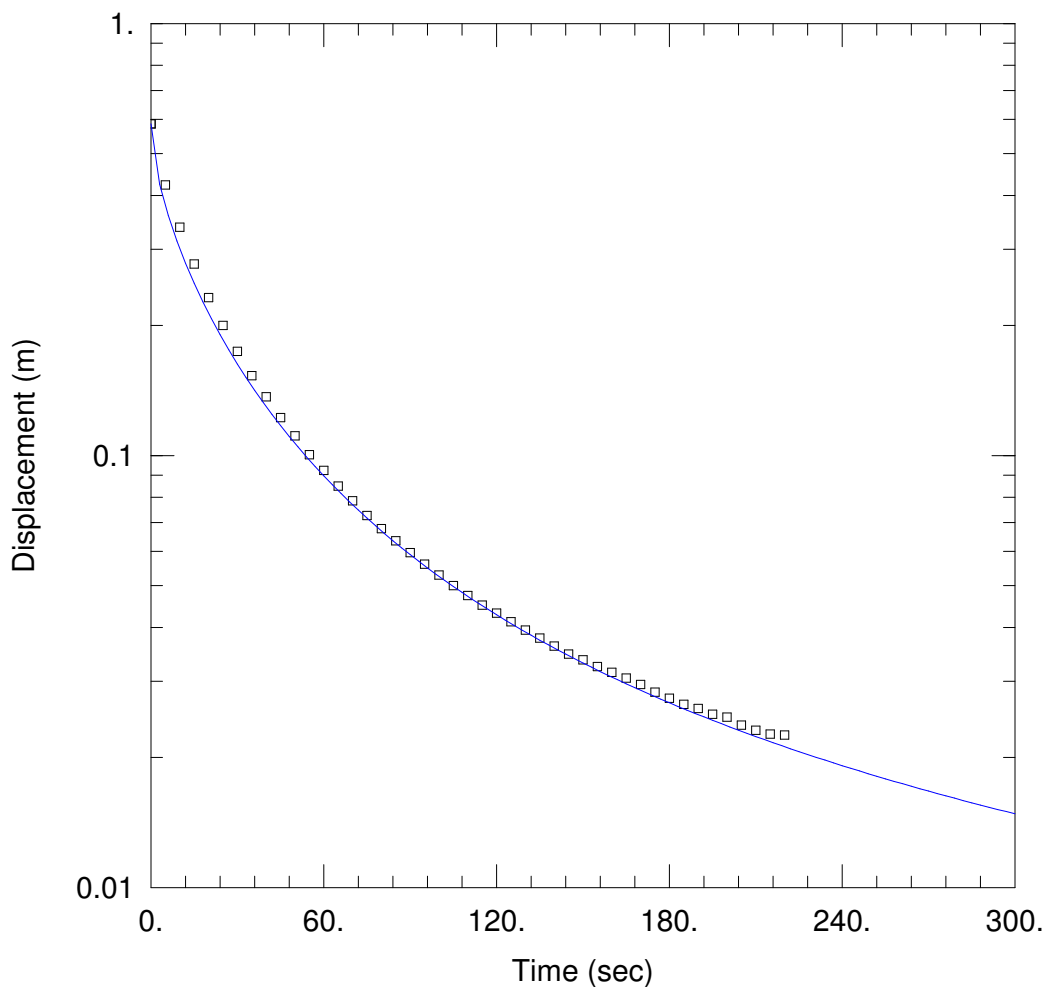
Initial Displacement: 0.4723 m
 Total Well Penetration Depth: 3.048 m
 Casing Radius: 0.0254 m

Static Water Column Height: 2.91 m
 Screen Length: 3.048 m
 Well Radius: 0.03 m

SOLUTION

Aquifer Model: Unconfined
 $K = 2.039E-6$ m/sec

Solution Method: Bouwer-Rice
 $y_0 = 0.4589$ m



WELL TEST ANALYSIS

Data Set: Y:\...\MW09-15_Fracture.aqt

Date: 12/03/09

Time: 12:48:57

PROJECT INFORMATION

Company: AECOM

Client: Mt. Nansen

Project: 112349

AQUIFER DATA

Saturated Thickness: 21.17 m

Anisotropy Ratio (K_z/K_r): 1.

WELL DATA (MW09-15)

Initial Displacement: 0.5858 m

Static Water Column Height: 21.17 m

Total Well Penetration Depth: 21.17 m

Screen Length: 3.048 m

Casing Radius: 0.0254 m

Well Radius: 0.04604 m

SOLUTION

Aquifer Model: Fractured

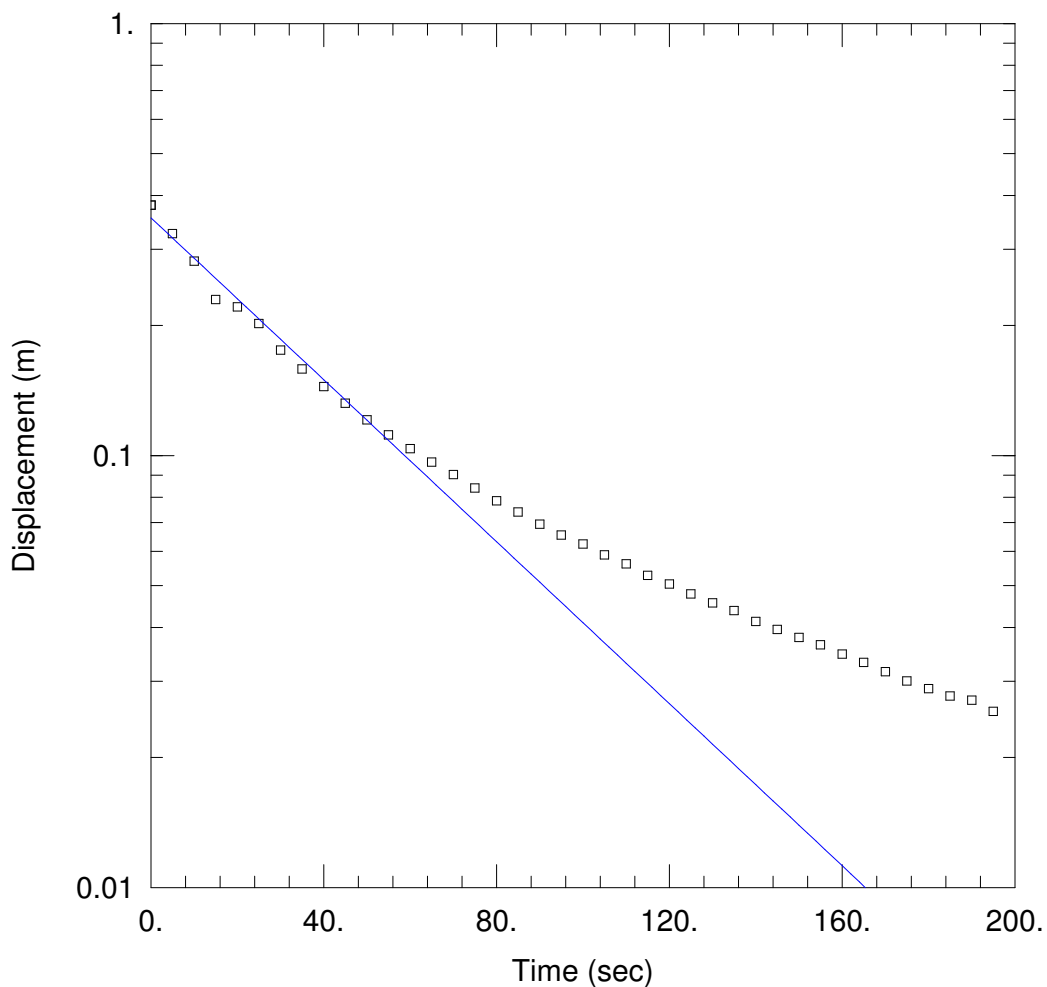
Solution Method: Barker-Black

$T = 2.538\text{E-}5 \text{ m}^2/\text{sec}$

$S = 0.03$

$K' = 1.0\text{E-}9 \text{ m/sec}$

$Ss' = 1.0\text{E-}6 \text{ m}^{-1}$



WELL TEST ANALYSIS

Data Set: Y:\...\MW09-23.aqt
 Date: 12/03/09

Time: 12:49:14

PROJECT INFORMATION

Company: AECOM
 Client: Mt. Nansen
 Project: 112349

AQUIFER DATA

Saturated Thickness: 2.46 m

Anisotropy Ratio (K_z/K_r): 1.

WELL DATA (MW09-23)

Initial Displacement: 0.3799 m
 Total Well Penetration Depth: 2.46 m
 Casing Radius: 0.0254 m

Static Water Column Height: 2.46 m
 Screen Length: 1.52 m
 Well Radius: 0.05398 m

SOLUTION

Aquifer Model: Unconfined
 $K = 1.287E-5$ m/sec

Solution Method: Bouwer-Rice
 $y_0 = 0.3551$ m

MEMORANDUM

August 21, 2009

To: Diane Lister

From: Robert Stroshein

Re: Geological Considerations at the Brown-McDade Open Pit

The Brown-McDade open pit mine occurs in a major structurally weak zone that began with the emplacement of the felsic dykes that host the mineralization. There have been multiple episodes of faulting since the emplacement of the deposit. The geology of the pit area is controlled by the structural weakness of the generally northwest trending zone.

The host rocks are a layered metamorphic sequence (LMS) in fault or intrusive contact with Cretaceous (?) aged hornblende diorite to hornblende granodiorite. The LMS is composed of metamorphosed sedimentary, volcanic and igneous rocks. The LMS appears to dip to the north at a shallow dip angle. The intrusive suite is coeval with the Mount Nansen volcanic rocks in the area. The mineralization is a late stage event related to hypabyssal rocks (felsic dykes) of the plutonic suite.

The region was unglaciated during the last period of continental glaciation and therefore the rocks are deeply weathered especially the faulted and altered sequences. The deep end of the pit was mined to the depth of weathering. There was increasing sulphide mineralization at depth in the pit. The sulphide mineralization consisted of primarily pyrite with fine grained sphalerite (Zn) and galena (Pb).

Lithologies

The lithological contacts are generally fault or intrusive related. Along the east wall of the pit diorite to granodiorite intrusive rocks are in fault contact with the metamorphic rocks that dominate the west side of the pit. There are locally thin veneers and slices of fault bounded altered and mineralized rock on the east pit wall.

The central portion of the pit is the mined out ore zone that was intensely altered and weathered. Approximately one fourth to one third of the mined material was milled and with the tailings going to the pond the remainder of the removed material was stacked in the waste piles around the pit. The oxidized and sulphide ore material was hosted by clay altered felsic dykes that have been deformed by multiple stage faulting. At the north end the breccia body has been mined below the weathered and oxidized ore and sulphides (pyrite) are exposed in the pit at and below the water level. There are local patches of interstitially weathered pyrite mineralization that exhibit a white oxide coating at surface (possibly hydrozincite). Several selvages and veneers of altered and mineralized rock were left in the pit wall above the water level. There are no visible sulphides in these zones but locally also exhibit the white oxide coating.

The west side of the pit is predominantly metamorphic rocks with fault bounded blocks of granodiorite and felsic dyke material. The dykes tend to be unaltered but locally thin segments contain mineralization. The southern half the pit wall is composed of primarily sedimentary metamorphic rocks (LMS a) with older intrusive rocks that form gneiss and schist. The northern half of the pit wall is predominantly thick bedded, white to tan weathered metamorphic

sandstones (LMS b) that form resistant quartzite. Near the north end of the pit a unit of calcareous quartzite (metamorphosed sandstone) is exposed in the pit wall.

The north end of the pit is made of light weathering grey quartzite overlain by highly weathered metamorphic rocks (unit LMS c) of gneiss and schist.

There is limited rock exposure north of the pit in the Pony Creek drainage. On the northeast side of the creek there are hornblende granodiorite rocks exposed in old exploration trenches. Within the drainage area a number of exploration diamond drill holes have been located. Examination of some of the drill holes and log records indicate the metamorphic units in fault contact with granodiorite and hornblende granodiorite. Multiple fault/shear zones occur within the drilled sequence. The fault zones are commonly coarse granular host rock to sandy with some clay content. The zones range from less than one meter to intervals of five meters and larger zones with multiple faults. The material is strongly weathered and appears to be porous and permeable. The fault zones cut all the rock units including the granodiorite.

Structural Geology

A number of fault surfaces were observed in the open pit. There are two dominant orientations to the faulting and cross cutting relationships suggest that the faulting occurred as separate episodes after the mineralization was deposited.

The most prominently defined faulting trends northwest and contains the deposit within a graben like structure. The two defining faults are exposed in the pit. The footwall (FW) fault juxtaposes unaltered granodiorite/hornblende diorite with the strongly altered rocks enclosing the mineralized zone. The hanging wall (HW) fault occurs within the altered rocks on the west side pit wall face. The FW fault dips steeply west and the HW fault dips steeply east. Slickensides on the fault surfaces indicate vertical and lateral movement along the faults. The structure defines the predominant northwest trending zone of alteration and structural weakness.

The second set of dominant faulting trends northerly and displace the northwest trending FW and HW faults. Movement along the northerly trending faults is vertical with very little lateral movement as indicated by slickensides on exposed faults. The northerly trending faults dip moderately east forming a series of steps. Drill hole intersections at the northern end of the open pit indicate a swarm of these faults cross cutting all rock types.

Summary

The Brown-McDade open pit is located and bounded by a major structural zone. The pit and the structural zone trend northwesterly. The structural zone intersects the Pony Creek drainage between 100 and 200 meters north of the pit. The structural zone is composed of multiple fault sets that intersect at acute angles. The fault zones have variable widths up to five (5) meters observed in drill hole intersections and are composed of coarse to fine granular material and clay. The intersecting faults create a network of porous and permeable channels.

The south end of the pit is poorly exposed but the structure appears to narrow and is at a higher elevation than the north end of the pit.


The quartzite unit (LMS b) is a resistant bed that does not weather readily and although it is no doubt faulted the lack of weathering the unit has a damming effect on the ground water flow. This has been observed at the north end of the pit where water cascades over the resistant quartzite beds. Photo

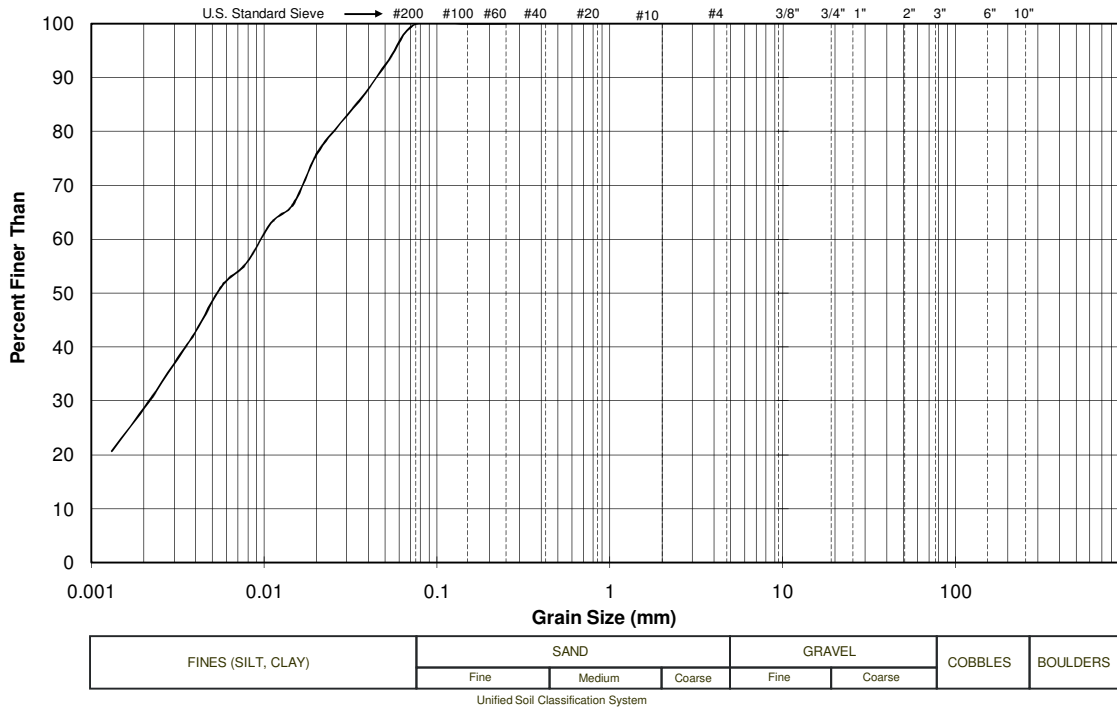
approximate location of
seepage horizon, North
end of Brown McDade pit



PARTICLE-SIZE ANALYSIS REPORT

(Test Reference: ASTM D 422)

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Hydrometer Analysis <table style="width: 100%; border-collapse: collapse;"> <tbody> <tr><td></td><td style="text-align: center;">0.0524</td><td style="text-align: center;">93.2</td></tr> <tr><td></td><td style="text-align: center;">0.0382</td><td style="text-align: center;">87.0</td></tr> <tr><td>Dispersing agent:</td><td style="text-align: center;">0.0277</td><td style="text-align: center;">81.6</td></tr> <tr><td>Sodium Hexametaphosphate</td><td style="text-align: center;">0.0201</td><td style="text-align: center;">75.8</td></tr> <tr><td></td><td style="text-align: center;">0.0148</td><td style="text-align: center;">66.6</td></tr> <tr><td>Dosage of dispersing agent:</td><td style="text-align: center;">0.0109</td><td style="text-align: center;">63.0</td></tr> <tr><td>40 g/L</td><td style="text-align: center;">0.0078</td><td style="text-align: center;">55.5</td></tr> <tr><td></td><td style="text-align: center;">0.0057</td><td style="text-align: center;">51.5</td></tr> <tr><td></td><td style="text-align: center;">0.0040</td><td style="text-align: center;">42.8</td></tr> <tr><td></td><td style="text-align: center;">0.0030</td><td style="text-align: center;">37.0</td></tr> <tr><td></td><td style="text-align: center;">0.0021</td><td style="text-align: center;">29.8</td></tr> <tr><td></td><td style="text-align: center;">0.0013</td><td style="text-align: center;">20.7</td></tr> </tbody> </table>		0.0524	93.2		0.0382	87.0	Dispersing agent:	0.0277	81.6	Sodium Hexametaphosphate	0.0201	75.8		0.0148	66.6	Dosage of dispersing agent:	0.0109	63.0	40 g/L	0.0078	55.5		0.0057	51.5		0.0040	42.8		0.0030	37.0		0.0021	29.8		0.0013	20.7														
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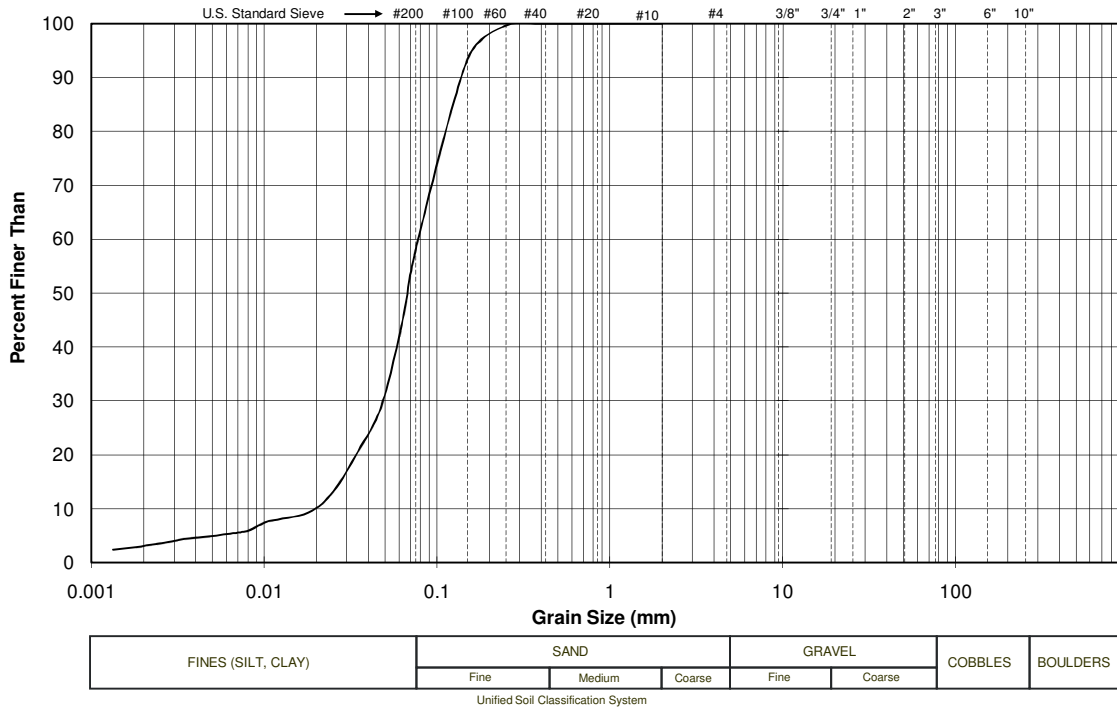
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(Test Reference: ASTM D 422)

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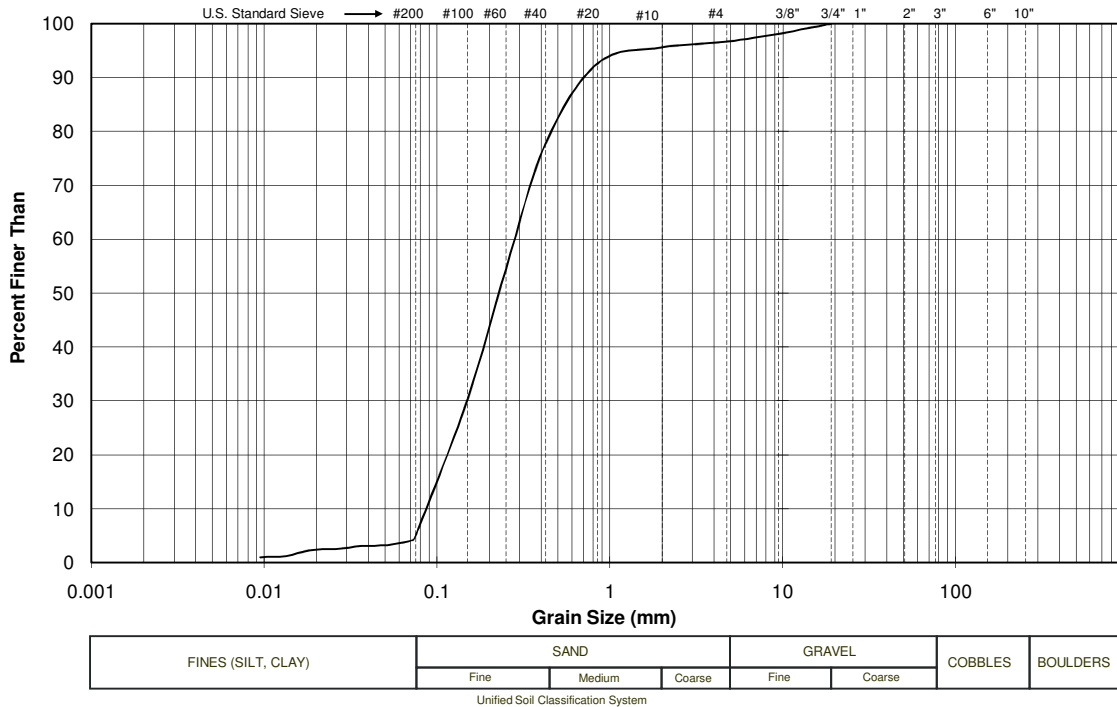
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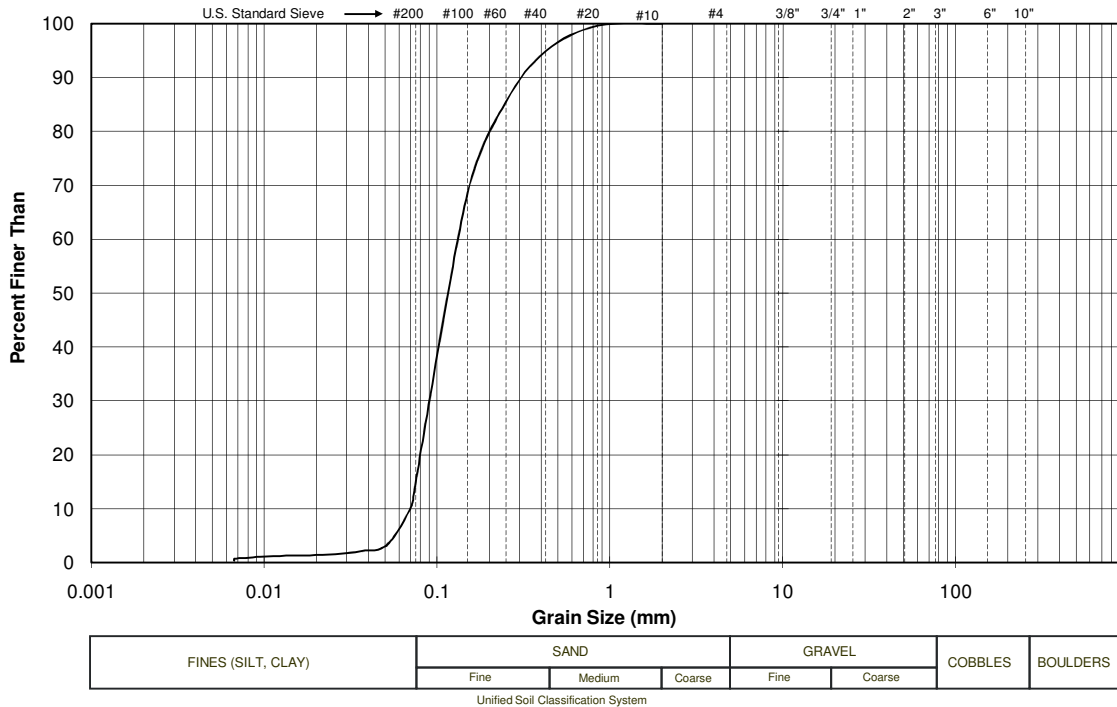
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Hydrometer Analysis <table style="width: 100%; border-collapse: collapse;"> <tbody> <tr><td></td><td style="text-align: center;">0.0714</td><td style="text-align: center;">10.7</td></tr> <tr><td></td><td style="text-align: center;">0.0515</td><td style="text-align: center;">3.4</td></tr> <tr><td>Dispersing agent:</td><td style="text-align: center;">0.0365</td><td style="text-align: center;">2.2</td></tr> <tr><td><i>Sodium Hexametaphosphate</i></td><td style="text-align: center;">0.0259</td><td style="text-align: center;">1.6</td></tr> <tr><td></td><td style="text-align: center;">0.0183</td><td style="text-align: center;">1.4</td></tr> <tr><td>Dosage of dispersing agent:</td><td style="text-align: center;">0.0134</td><td style="text-align: center;">1.3</td></tr> <tr><td><i>40 g/L</i></td><td style="text-align: center;">0.0095</td><td style="text-align: center;">1.1</td></tr> <tr><td></td><td style="text-align: center;">0.0067</td><td style="text-align: center;">0.7</td></tr> <tr><td></td><td style="text-align: center;">0.0067</td><td style="text-align: center;">0.4</td></tr> <tr><td></td><td style="text-align: center;">0.0067</td><td style="text-align: center;">0.0</td></tr> </tbody> </table>		0.0714	10.7		0.0515	3.4	Dispersing agent:	0.0365	2.2	<i>Sodium Hexametaphosphate</i>	0.0259	1.6		0.0183	1.4	Dosage of dispersing agent:	0.0134	1.3	<i>40 g/L</i>	0.0095	1.1		0.0067	0.7		0.0067	0.4		0.0067	0.0																				
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**SPECIFIC GRAVITY TEST (FINE MATERIAL)**

Project: AECOM, Vancouver

L1950

Technician: CEO

Date: Aug 24/09

Sample: MW 09-01

PYCNOMETER DATA:

Pycnometer #: C2A

Mass of pycnometer empty & dry (g): 179.76

Mass of pycnometer with water (g): 678.63

Temperature (°C): 20.8

PRE-TEST SAMPLE INFORMATION:**Water Content (wet sample):**

Wet weight (g):

Tare #: _____

Calc. Dry Weight (g): 49.84

Tare Mass (g): _____

Wet sample + tare (g): _____

Dry sample + tare (g): _____

Water Content (%): _____

POST-TEST INFORMATION:

Mass of pycnometer, water, & sample (g): 709.52

Temperature (°C): 21.8

Mass of dry sample (g): 49.84

Specific gravity: 2.64

Comments:

**SPECIFIC GRAVITY TEST (FINE MATERIAL)**

Project: AECOM, Vancouver

L1950

Technician: CEO

Date: Aug 24/09

Sample: MW 09-02

PYCNOMETER DATA:

Pycnometer #: C8A

Mass of pycnometer empty & dry (g): 186.78

Mass of pycnometer with water (g): 685.15

Temperature (°C): 21.1

PRE-TEST SAMPLE INFORMATION:**Water Content (wet sample):**

Wet weight (g):

Tare #: _____

Calc. Dry Weight (g): 49.92

Tare Mass (g): _____

Wet sample + tare (g): _____

Dry sample + tare (g): _____

Water Content (%): _____

POST-TEST INFORMATION:

Mass of pycnometer, water, & sample (g): 716.71

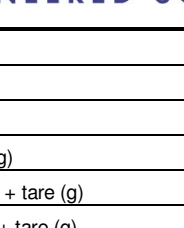
Temperature (°C): 21.8

Mass of dry sample (g): 49.92

Specific gravity: 2.73

Comments: _____

WATER CONTENT/ BULK DENSITY/TOTAL ORGANIC CARBON - REPORT

 MDH ENGINEERED SOLUTIONS		Client: AECOM, Vancouver	
		Project: -	
		MDH Project No: L1950	
		Date: 19-Aug-09	

Water Content					
Sample #	MW 09-01	MW 09-02			
Tare #	DN3	M3			
Tare Mass (g)	106.59	99.29			
Wet sample + tare (g)	541.16	562.56			
Dry sample + tare (g)	393.76	462.97			
Wt. Dry sample (g)	287.17	363.68			
Water Content (%)	51.3	27.4			

Bulk Density					
Sample #					
Mass of sample in air (g):					
Mass of sample + wax in air (g):					
Mass of sample + wax in water (g):					
Wet density (kg/m ³):					
Dry density (kg/m ³):					
Specific gravity of solids					
Total porosity					
Air-filled porosity					
Degree of saturation					

Total Organic Carbon - Inorg & Total C (%)					
Sample #					
Inorganic Carbon					
Total Organic Carbon					
CaCO ₃ Equivalent					
Total Carbon by Combustion					

Comments:

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Soil-Water Characteristic Curve Test Report

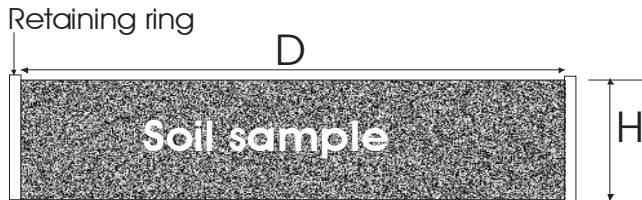
(reference standards: ASTM D6836-02)



CLIENT: AECOM, Vancouver
PROJECT: -
MDH Job No. L1950
DATE: Sept. 24, 2009

Soil Identification/Sample Description: MW 09-01
Water used in test: de-aired water
Method of saturation: saturation chamber

Test sample data: Initial wet density = 1.675 g/cc
Initial water content = 51.0%



Specimen dimensions

H = 31.00 mm
D = 72.70 mm

Method A - Hanging column test

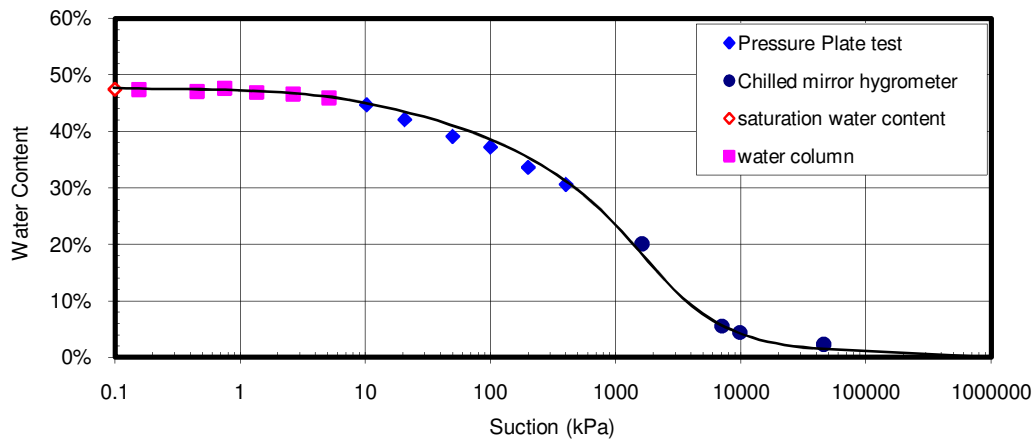
water elevation from (cm)		average suction, kPa	Gravimetric water content, %
top	base		
3	0.0	0.2	47.4%
6	3.0	0.5	47.1%
9	6.0	0.8	47.7%
15	12.0	1.4	46.9%
28	25.0	2.7	46.6%
53	50.0	5.2	45.9%

Method	Extraction pressure, kPa	Gravimetric water content, %
C	10	44.6%
C	21	42.0%
C	50	39.0%
C	100	37.2%
C	200	33.6%
C	400	30.6%

Pressure Plate Test

Method	measured suction, kPa	Gravimetric water content, %
D	1620	20.1%
D	7040	5.5%
D	9810	4.3%
D	45750	2.2%

Chilled Mirror Hygrometer Test



Soil-Water Characteristic Curve Test Report

(reference standards: ASTM D6836-02)



CLIENT: AECOM, Vancouver
PROJECT: -
MDH Job No. L1950
DATE: Sept. 24, 2009

Soil Identification/Sample Description: MW 09-02
Water used in test: de-aired water
Method of saturation: saturation chamber

Test sample data: Initial wet density = 1.621 g/cc
Initial water content = 27.7%



Specimen dimensions

H = 47.00 mm

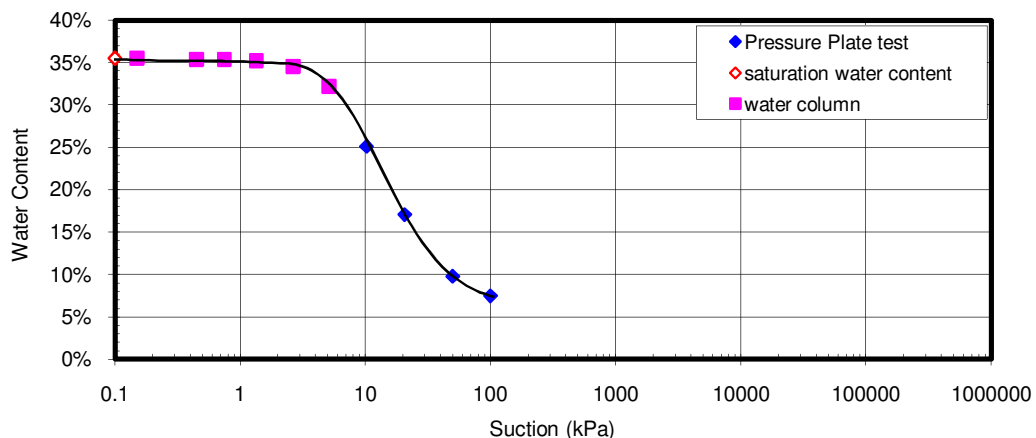
D = 72.70 mm

Method A - Hanging column test

water elevation from (cm)		average suction, kPa	Gravimetric water content, %
top	base		
3	0.0	0.2	35.5%
6	3.0	0.5	35.4%
9	6.0	0.8	35.3%
15	12.0	1.4	35.2%
28	25.0	2.7	34.5%
53	50.0	5.2	32.2%

Method	Extraction pressure, kPa	Gravimetric water content, %	Pressure Plate Test (101mm diameter cell)
C	10	25.1%	
C	21	17.1%	
C	50	9.8%	
C	100	7.5%	

Method	measured suction, kPa	Gravimetric water content, %	Chilled Mirror Hygrometer Test



ATTERBERG LIMITS TEST REPORT

(Test Reference: ASTM D 4318)



Client: AECOM, Vancouver
 Project: -
 MDH Job No: L1950
 Technician: CEO
 Date: 21-Sep-2009

Sample: MW 09-01 (air-dried)

Percentage of sample retained on 425-um (No. 40) sieve: NA

Plastic Limit

Tare #	46A	69A	
Tare Wt, g	14.17	14.37	
Wet + Tare, g	18.56	19.35	
Dry + Tare, g	17.53	18.17	average
M%	30.7%	31.1%	30.9%

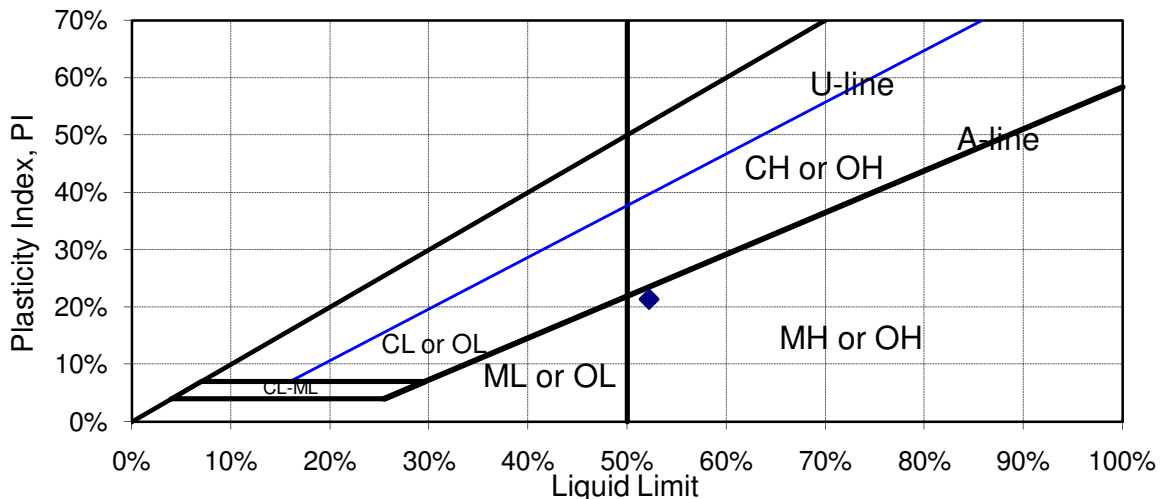
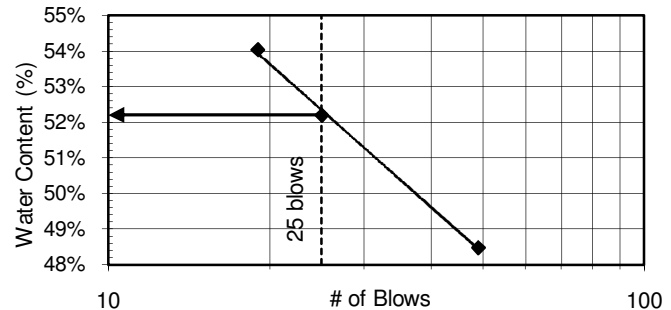
Liquid Limit (method A)

# of Blows	19	25	49
Tare #	15A	65A	9A
Tare Wt, g	14.57	14.33	14.28
Wet + tare, g	19.16	18.50	18.17
Dry + tare, g	17.55	17.07	16.90
Water content	54.0%	52.2%	48.5%

SUMMARY

Plastic Limit: 30.9%
 Liquid Limit: 52.2%
 Plasticity Index: 21.4%
 Classification: MH

Natural Water Content: 51.0%



Comments: -

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ATTERBERG LIMITS TEST REPORT

(Test Reference: ASTM D 4318)



Client: AECOM, Vancouver

Project: -

MDH Job No: L1950

Technician: BC

Date: 11-Sep-2009

Sample: MW 09-02 (air-dried)

Percentage of sample retained on 425-um (No. 40) sieve: NA

Plastic Limit

Tare #	-	-	average
Tare Wt, g	-	-	
Wet + Tare, g	-	-	
Dry + Tare, g	-	-	
M%	-	-	

Liquid Limit (method A)

# of Blows	-	-	-
Tare #	-	-	-
Tare Wt, g	-	-	-
Wet + tare, g	-	-	-
Dry + tare, g	-	-	-
Water content	-	-	-

SUMMARY

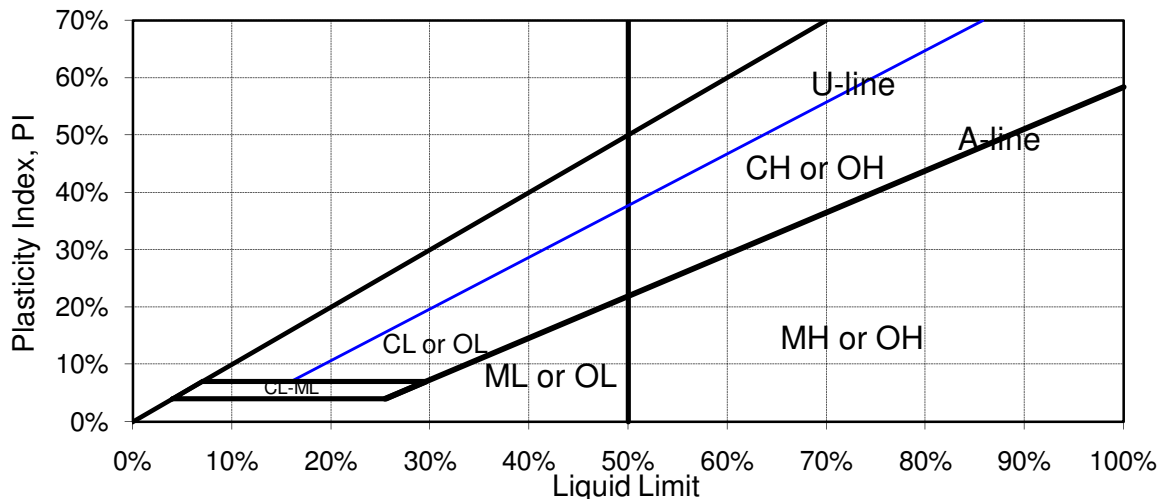
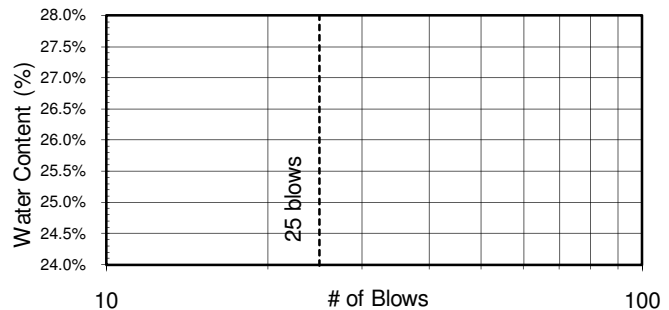
Plastic Limit: -

Liquid Limit: -

Plasticity Index: -

Classification: **Non Plastic**

Natural Water Content: n/a



Comments: **Material cannot be rolled. Non-plastic**

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