

PROJECT No: [REDACTED]

RECORD OF MONITORING WELL: MW-01-07

SHEET 1 OF 7
DATUM [REDACTED]

LOCATION: Downstream of Heap Leach Facility Sediment Pond
N: -6912688 E: -412220
Note: Northing and Easting Coordinates have been determined by GPS in the field and are approximate only.

BORING DATE: October 5th, 6th and 7th, 2007

DEPTH SCALE METRES	BORING METHOD	SOIL PROFILE		SAMPLES		SAMPLE / CORE		GRADATION %			HYDRAULIC CONDUCTIVITY, k_v cm/s		PIEZOMETER, STANDPIPE OR THERMISTOR INSTALLATION
		DESCRIPTION	STRATA PLOT	ELEV. DEPTH (m)	NUMBER	TYPE	BLOWS/0.3m	RECOVERY %	GRAVEL	SAND	FINES	WATER CONTENT PERCENT	
0		Ground Surface		0.00									
0.40		CL, silty, sandy CLAY, few gravel, well graded sand, sub-rounded to sub-angular, trace of organics, dark brown.											
2		SM, SAND, silty, gravelly, sand fine to coarse, light brown. - 2.1m few cobbles.											
3.4m		- 3.4m few cobbles.											
3.50													
4	Rotary Diamond Drill	SW, well graded, SAND, with silt, little gravel, angular to sub-rounded, light brown.		3.50									Bentonite and Sand Grout
4.90													
5		SW-GW, well graded SAND and GRAVEL cobbly, sub-rounded to sub-angular.		4.90									
6													
6.40		SM, silty SAND, little gravel, fine to coarse, dark grey. [Nbn]		6.40									
7													
7.60		SW, well graded, SAND, with silt, little gravel, trace cobbles. [Nbn]		7.60	1	GS							
8													

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QZ08 084

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CUSTOM LOG 6 (CARMACK COPPER) ALL 2007 HOLES.GPJ GLDR_CAN_ABB.GDT 03/04/08

PROJECT No. [REDACTED]

RECORD OF MONITORING WELL: MW-01-07

SHEET 2 OF 7
 DATUM: [REDACTED]

LOCATION: Downstream of Heap Leach Facility Sediment Pond
 N: -8912688 E: -412220
 Note: Northing and Easting Coordinates have been determined by GPS in the field and are approximate only.

BORING DATE: October 5th, 6th and 7th, 2007

DEPTH SCALE METRES	BORING METHOD	SOIL PROFILE		SAMPLES		SAMPLE / CORE		GRADATION %			HYDRAULIC CONDUCTIVITY, k_v , cm/s		ADDITIONAL LAB. TESTING	PIEZOMETER, STANDPIPE OR THERMISTOR INSTALLATION	
		DESCRIPTION	STRATA PLOT	ELEV. DEPTH (m)	NUMBER	TYPE	BLOWS/0.3m	RUN No.	RECOVERY %	GRAVEL	SAND	FINES			10 ⁻⁶
8	Kjane Diamond Drill	SW, well graded, SAND, with silt, little gravel, trace cobbles. [Nbn] (continued)													
9		COBBLES, gravelly, angular to rounded.		8.80											
		BOULDER.		9.40											
10		CL, silty CLAY, with sand, little gravel. [Nbn]		9.90	2	GS									
		- 10.35m [Vc of 2mm]		10.00											
11															
		SC, clayey SAND, some silt, with gravel. [Nbn]													
		- 11.3m Boulder.													
		- 11.5m Boulder.													
12					3	GS									
		- 11.82m [Vx of 1cm]													
13				12.50											
		- 14.0m [Vx of 1cm]													
14															
		SC, clayey, gravelly SAND, trace cobbles, increasing fines below 17.0m. [Nbn]													
15					4	GS									
16															

Bentonite and Sand Grout

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DEPTH SCALE

1 : 40

CUSTOM LOG 6 (CARMACK COPPER), ALL 2007 HOLES.GPJ GLDR_CAN_ABB.GDT 03/04/08

PROJECT No: [REDACTED]

RECORD OF MONITORING WELL: MW-01-07

SHEET [REDACTED]
 DATUM [REDACTED]

LOCATION: Downstream of Heap Leach Facility Sediment Pond
 N: -6912688 E: -412220
 Note: Northing and Easting Coordinates have been determined by
 GPS in the field and are approximate only.

BORING DATE: October 5th, 6th and 7th, 2007

DEPTH SCALE METRES	BORING METHOD	SOIL PROFILE		SAMPLES		SAMPLE / CORE		GRADATION %			HYDRAULIC CONDUCTIVITY, k_v , cm/s		ADDITIONAL LAB. TESTING	PIEZOMETER STANDPIPE OR THERMISTOR INSTALLATION
		DESCRIPTION	STRATA PLOT	ELEV. DEPTH (m)	NUMBER	TYPE	BLOWS/0.3m	RUN No.	RECOVERY %	GRAVEL	SAND	FINES		
16	Kilgus Diamond Drill	- 17.7m [10cm thick ice layer]	[Pattern]											
17		SC, clayey, gravelly SAND, trace cobbles, increasing fines below 17.0m. [Nbn] (continued)	[Pattern]											
18			[Pattern]											
19			[Pattern]											
20				[Pattern]	20.00									
21		CL, sandy CLAY, little gravel and cobbles. [Nbn]	[Pattern]											
22		COBBLES and BOULDERS.	[Pattern]	21.30										
23		CL, sandy CLAY, with gravel, trace cobbles, becomes less sandy below 26.5m. [Nbn]	[Pattern]	22.10										
24		CONTINUED NEXT PAGE												

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CUSTOM LOG 6 (CARMACK COPPER) ALL 2007 HOLES.GPJ GLDR_CAN_ABB.GDT 03/04/08

DEPTH SCALE
 1 : 40

PROJECT No.: [REDACTED]

RECORD OF MONITORING WELL: MW-01-07

SHEET 4 OF 7
 DATUM: [REDACTED]

LOCATION: Downstream of Heap Leach Facility Sediment Pond
 N: -6912698 E: -412220
 Note: Northing and Easting Coordinates have been determined by GPS in the field and are approximate only.

BORING DATE: October 5th, 6th and 7th, 2007

DEPTH SCALE METRES	BORING METHOD	SOIL PROFILE		SAMPLES		SAMPLE / CORE		GRADATION %			HYDRAULIC CONDUCTIVITY, k, cm/s		ADDITIONAL LAB. TESTING	PIEZOMETER STANDPIPE OR THERMISTOR INSTALLATION
		DESCRIPTION	STRATA PLOT	ELEV. DEPTH (m)	NUMBER	TYPE	BLOWS/0.3m	RECOVERY %	GRAVEL	SAND	FINES	10 ⁰		
24	Kilane Diamond Drill	- 24.9m [5cm thick ice layer]			5	GS								
25		CL, sandy CLAY, with gravel, trace cobbles, becomes less sandy below 26.5m. [Nbn] (continued)												
26		- 25.4m [16cm thick ice layer]												
27														
28		CL, CLAY, with silt, high plasticity, light grey. [Nbn]				6	GS							
29		- 28.3m [20cm thick ice layer]												
30		CL, sandy CLAY, few fine to coarse gravel.												
31		- 30.0m [Vx of 1cm]												
32		CL, CLAY, little sand, trace gravel, light grey.												
		- 31.8m [Vx of 2cm]												

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Bentonite and Sand Grout

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CUSTOM LOG 6 (CARMACK COPPER) ALL 2007 HOLES.GPJ GLDR CAN_A8B.GDT 0300408

DEPTH SCALE
 1 : 40

PROJECT No.: [REDACTED]

RECORD OF MONITORING WELL: MW-01-07

SHEET 5 OF 7

LOCATION: Downstream of Heap Leach Facility Sediment Pond

BORING DATE: October 5th, 6th and 7th, 2007

DATUM: [REDACTED]

N: -6912688 E: -412220

Note: Northing and Easting Coordinates have been determined by GPS in the field and are approximate only.

DEPTH SCALE METRES	BORING METHOD	SOIL PROFILE		SAMPLES		SAMPLE / CORE		GRADATION %			HYDRAULIC CONDUCTIVITY, $k, \text{cm/s}$				ADDITIONAL LAB. TESTING	PIEZOMETER, STANDPIPE OR THERMISTOR INSTALLATION	
		DESCRIPTION	STRATA PLOT	ELEV. DEPTH (m)	NUMBER	TYPE	BLOWS/0.3m	RUN No.	RECOVERY %	GRAVEL	SAND	FINES	10 ⁻⁴	10 ⁻⁵			10 ⁻⁶
32	Kilane Diamond Drill	- 32.1m [6cm thick ice layer]	[Hatched pattern]														
		- 32.2m [13cm thick ice layer]															
33																	
34		- 33.9m to 34.3m [N]															
		- 34.3m to 44.7m no frozen ground observed.															
35																	
36		CL, CLAY, with silt. (continued)															
37																	
38																	
39																	
40																	

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CUSTOM LOG B (CARMACK COPPER) ALL 2007 HOLES.GPJ GLDR_CAN_ABB.GDT 03/04/08

DEPTH SCALE

1 : 40

PROJECT No.: [REDACTED]

RECORD OF MONITORING WELL: MW-01-07

SHEET 6 OF 7

LOCATION: Downstream of Heap Leach Facility Sediment Pond

BORING DATE: October 5th, 6th and 7th, 2007

DATUM: [REDACTED]

N: -6912688 E: -412220

Note: Northing and Easting Coordinates have been determined by GPS in the field and are approximate only.

DEPTH SCALE METRES	BORING METHOD	SOIL PROFILE		SAMPLES		SAMPLE / CORE		GRADATION %			HYDRAULIC CONDUCTIVITY, k, cm/s		ADDITIONAL LAB. TESTING	PIEZOMETER, STANDPIPE OR THERMISTOR INSTALLATION	
		DESCRIPTION	STRATA PLOT	ELEV. DEPTH (m)	NUMBER	TYPE	BLOWS/0.3m	RUN No.	RECOVERY %	GRAVEL	SAND	FINES			10 ⁻¹
40	Kjane Diamond Drill														
41															
42															
43		CL, CLAY, with silt. (continued)													
44		- 43.7m to 44.5m trace sand and gravel.													
45															
46															
47															
48															

CL, CLAY, with silt. (continued)

- 43.7m to 44.5m trace sand and gravel.

- 44.7m to 55.2m night shift drilling, no observation of frozen ground possible.

SC, clayey fine SAND, some silty clay lenses.

SW, well-graded SAND, little fines, few angular gravel and thin layers of clayey sand.

No recovery.

Bentonite and Sand Grout

Bentonite and Sand Seal

Silica Sand Filter Pack

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DEPTH SCALE

1 : 40

CUSTOM LOG 6 (CARMACK COPPER) ALL 2007 HOLES.GPJ GLDR_CAN_ABB.GDT 03/04/08

PROJECT No.: [REDACTED]

RECORD OF MONITORING WELL: MW-01-07

SHEET 7 OF 7

LOCATION: Downstream of Heap Leach Facility Sediment Pond

BORING DATE: October 5th, 6th and 7th, 2007

DATUM: [REDACTED]

N: ~6912688 E: ~412220

Note: Northing and Easting Coordinates have been determined by GPS in the field and are approximate only.

DEPTH SCALE METRES	BORING METHOD	SOIL PROFILE		SAMPLES		SAMPLE / CORE		GRADATION %			HYDRAULIC CONDUCTIVITY, $k, \text{cm/s}$		ADDITIONAL LAB. TESTING	PIEZOMETER STANDPIPE OR THERMISTOR INSTALLATION	
		DESCRIPTION	STRATA PLOT	ELEV. DEPTH (m)	NUMBER	TYPE	BLOWS/0.3m	RUN No.	RECOVERY %	GRAVEL	SAND	FINES			WATER CONTENT PERCENT
48	Kilane Diamond Drill	No recovery. (continued)													
49															
50		Highly weathered granodiorite BEDROCK to coarse sand, cobbles, boulders, angular.	[Hatched Pattern]	48.50											
51															
52															
53															
54		Slightly weathered to fresh granodiorite BEDROCK.	[Hatched Pattern]	52.40											
55															
56		End of MONITORING WELL. - 0.0m to 6.4m no frozen ground observed due to drilling during night shift.		55.20											

Silica Sand Filter Pack
Slotted 50mm PVC Pipe

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CUSTOM LOG 6 (CARMACK COPPER) ALL 2007 HOLES.GPJ GLDR_CAV_A8B.GDT 03/04/08

DEPTH SCALE

1 : 40