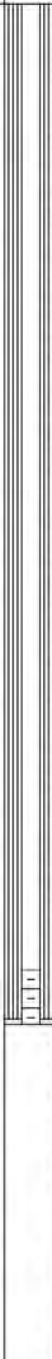




PROJECT: 2012 City of Whitehorse Groundwater Exploration		CLIENT: City of Whitehorse		TESTHOLE NO: TH02-12	
LOCATION: Selkirk Aquifer N 6,729,187 E 498,821				PROJECT NO.: 60274244	
CONTRACTOR: Boart-Longyear			METHOD: Sonic Drilling		ELEVATION (m): 656
SAMPLE TYPE	<input checked="" type="checkbox"/> 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)	WELL INSTALLATION	SOIL SYMBOL	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE #	% RECOVERY	COMMENTS	ELEVATION (m)
0			TOPSOIL, sandy loam with rootlets. Brown to yellow organic layer.				Well Stickup: 0.84 m	655
1			Fine SAND with trace silt. Some rootlets, light brown to grey.		S1	90	Well Casing: 152.4 mm OD Sch. 40 PVC.	654
2			- Fine SAND, uniform, light grey to light brown.		S2	100		653
3			- Becoming wet at 7.0 m.		S3	30	Poor recovery due to wash of fine materials.	652
4					S4	90		651
5					S5	100		650
6					S6	100		649
7					S7	100		648
8					S8	100		647
9					S9	100		646
10					S10	100		645
11					S11	100		644
12					S12	100		643
13					S13	100		642
14					S14	100		641
15					S15	100		640
16								639
17								638
18								637
19								636
20								635
21								634
22								633
23								632
24								631
25								630
26								629
27								628
28			- SILTY SAND, very fine and wet.		S12	100		627
29			- GRAVEL, some sand, coarse to sub-rounded. Poorly sorted with some cobbles present.		S13	100		626
30			- Fine SAND, uniform, light grey, wet.		S14	100		625
31					S15	100		624
32								623
33								622
34								621
35								620
36								619
37								618
38			- Becoming medium SAND at 38.1 m.					617
39								
40								

ENVIRO (VAPOUR/F2/F3) BH-2012-09-27-CITY OF WHSE GW EXPLORATION GINT LOGS CL-60274244 GPJ AECOM BBY GDT 19/11/12

PROJECT: 2012 City of Whitehorse Groundwater Exploration				CLIENT: City of Whitehorse				TESTHOLE NO: TH02-12				
LOCATION: Selkirk Aquifer N 6,729,187 E 498,821								PROJECT NO.: 60274244				
CONTRACTOR: Boart-Longyear				METHOD: Sonic Drilling				ELEVATION (m): 656				
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 checked="" type="checkbox"/> GROUT	<input checked="" type="checkbox"/> CUTTINGS	<input type="checkbox"/> SAND					
DEPTH (m)	WELL INSTALLATION	SOIL SYMBOL	SOIL DESCRIPTION				SAMPLE TYPE	SAMPLE #	% RECOVERY	COMMENTS	ELEVATION (m)	
40			- Becoming fine SAND at 41.2 m.					S16	80			615
41												614
42												613
43												612
44			Fine SAND and GRAVEL, moderately sorted becoming coarser with depth.					S17	0	V. saturated sandy gravel, core barrel did not retain integrity of sample.		611
45												610
46			- Becoming well sorted at 45.7 m.									609
47			- Fine SAND and GRAVEL, well sorted, sub-rounded, light grey with occasional thin layers of silt. Olive grey pea gravel inclusions.					S18	30	Pea gravel present in core barrel, fines washed.		608
48												607
49												606
50								S19	30	Remains poor recovery due to substrate.		605
51												604
52			- Medium SAND and GRAVEL at 51.8 m with trace fines. Sub-rounded, light grey and poorly sorted.									603
53								S20	80			602
54												601
55												600
56			- Becoming sandy GRAVEL with trace fines at 56.8 m. Angular to sub-angular. Some cobbles present.					S21	100			599
57												598
58												597
59			- Fine SAND and with trace GRAVEL at 59 m					S22	100	Drillers note stiffening and slowing of casing push.		596
60			GRAVEL, some sand and fines. Rounded to sub-rounded, grey and saturated.									595
61								S23	100			594
62												593
63								S24	100			592
64												591
65												590
66												589
67			- Interbedded coarse gravel with some cobbles and layers of fine sand with gravel. Light grey, wet.					S25	100	Well Screen Details: Screen Length: 1.524 m Screen Outer Ø: 96.0 mm Screen Inner Ø: 85.0 mm Screen Cap: 10 cm PVC sch. 40 threaded end cap. Slot: 120-slot Details: Threaded Veriperm Stainless Steel Screen. Bottom of screen assembly placed at 68.43 m below ground surface.		588
68										587		
69										586		
70	Orange and white coloured mineral, likely decomposed granite boulder or basalt. Very fine grained, wet, friable.					S26	90			585		
71	TILL, saturated, light grey coloured becoming dry and stiff with depth.									584		
72						S27	90			583		
73										582		
74										581		
75										580		
76	- Becoming interbedded with sandy silt, with trace gravel clasts, moist and interbedded with silty SAND, cobbles and boulders with depth.							END OF TEST HOLE. Refusal of test hole casing encountered. Required to grout and lubricate well casing to continue further, therefore test hole discontinued.		579		
77	Hole terminated at 77.72 m in Till.					S28	100			578		
78										577		
79												
80												

	AECOM Canada Ltd. 2251 2 nd Avenue Whitehorse, Yukon Y1A 7A2	LOGGED BY: Caleb Light		COMPLETION DEPTH: 77.72 m	
		REVIEWED BY: Forest Pearson		COMPLETION DATE: 23/8/12	
		PROJECT ENGINEER: Forest Pearson		Page 2 of 2	