

CLIENT: Northern Enviro Services	NORTHING: 6658062.272, EASTING: 513870.2776	BOREHOLE NO: BH17-02a				
DRILLER: Midnight Sun Drilling		PROJECT NO: [REDACTED]				
DRILL TYPE/METHOD: Odex/Reverse Circulation		ELEVATION: 672.886 m				
SAMPLE TYPE	<input checked="" type="checkbox"/> TUBE	<input type="checkbox"/> NO RECOVERY	<input type="checkbox"/> SPLIT SPOON	<input type="checkbox"/> GRAB	<input type="checkbox"/> MUD RETURN	<input type="checkbox"/> CORE RETURN
BACKFILL TYPE	<input checked="" type="checkbox"/> BENTONITE	<input type="checkbox"/> CEMENT SEAL	<input type="checkbox"/> SLOUGH	<input type="checkbox"/> GROUT	<input type="checkbox"/> DRILL CUTTINGS	<input type="checkbox"/> SAND

DEPTH (m)	SOIL SYMBOL	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	RECOVERY (%)	ADDITIONAL INFORMATION	BACKFILL DETAILS	ELEVATION (m)
0	[Symbol]	SAND (SW), gravelly, fine to medium, well graded, compact, brown, dry						672
1	[Symbol]							671
2	[Symbol]							670
3	[Symbol]							669
4	[Symbol]	SAND (SM), silty, trace gravel, loose, brown, dry Gravelly from 5.5 m to 6.1 m						668
5	[Symbol]							667
6	[Symbol]							666
7	[Symbol]	GRAVEL (GM), silty, sandy, coarse, poorly graded, sub-angular, very dense, brown, dry Hard to drill Advancement 10 min/5 ft (20 ft-25 ft) Advancement 14 min/10 ft (25 ft-35 ft) Less silt content from 7.6 m to 9.1 m Very dense from 9.5 m to 10.4 m (very hard, grey pounded material)						665
8	[Symbol]							664
9	[Symbol]							663
10	[Symbol]							662
11	[Symbol]							661
12	[Symbol]							660
13	[Symbol]	SAND and GRAVEL (GM), silty, coarse sand, loose, grey, wet Advancement 5 min/ft Water after lift test in hole at 13.3 m				12.2 - 15.2 m Environmental Sample		659
14	[Symbol]							658
15	[Symbol]							657
16	[Symbol]							656
17	[Symbol]					15.2 - 18.3 m Environmental Sample		655
18	[Symbol]							654
19	[Symbol]	SAND (SW), gravelly, trace silt, fine to medium, well graded, loose, brown, wet						653
20	[Symbol]							653

ENVIRONMENTAL_NES_LTF_BH_LOGS.GPJ_AMEC-PG-MUL-TIWELL-DATATEMPLATE.GDT_2/20/18



LOGGED BY: [REDACTED]	COMPLETION DEPTH: 32.9 m
ENTERED BY: [REDACTED]	COMPLETION DATE: 11/19/17
REVIEWED BY: [REDACTED]	Page 1 of 2

CLIENT: Northern Enviro Services	NORTHING: 6658062.272, EASTING: 513870.2776	BOREHOLE NO: BH17-02a				
DRILLER: Midnight Sun Drilling		PROJECT NO: [REDACTED]				
DRILL TYPE/METHOD: Odex/Reverse Circulation		ELEVATION: 672.886 m				
SAMPLE TYPE	<input checked="" type="checkbox"/> TUBE	<input type="checkbox"/> NO RECOVERY	<input type="checkbox"/> SPLIT SPOON	<input type="checkbox"/> GRAB	<input type="checkbox"/> MUD RETURN	<input type="checkbox"/> CORE RETURN
BACKFILL TYPE	<input checked="" type="checkbox"/> BENTONITE	<input type="checkbox"/> CEMENT SEAL	<input type="checkbox"/> SLOUGH	<input type="checkbox"/> GROUT	<input type="checkbox"/> DRILL CUTTINGS	<input type="checkbox"/> SAND

DEPTH (m)	SOIL SYMBOL	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	RECOVERY (%)	ADDITIONAL INFORMATION	BACKFILL DETAILS	ELEVATION (m)
20		SAND and GRAVEL (GM), silty, fine to medium, well graded, sub-angular, very dense, brown, dry (TILL?)				18.3 - 21.3 m Environmental Sample		652
21		Hard to drill (<i>continued</i>)						651
22		GRAVEL (GP), medium, fine to medium sand, rounded, poorly graded, compact, brown, dry						650
23		Open hole with tri-cone from 25.9 m to 32.9 m				21.3 - 24.4 m Environmental Sample		649
24		Used water from 29.0 m to 32.9 m						648
25		Could not advance with odex and tri-cone bit due to massive gravel unit						647
26						24.4 - 27.4 m Environmental Sample		646
27								645
28								644
29								643
30								642
31								641
32								640
33		End of Borehole at 32.9 m						639
34								638
35								637
36								636
37								635
38								634
39								633
40								633

ENVIRONMENTAL_NES_LTF_BH_LOGS.GPJ_AMEC-PG-MULTIWELL-DATATEMPLATE.GDT_2/20/18



LOGGED BY: [REDACTED]	COMPLETION DEPTH: 32.9 m
ENTERED BY: [REDACTED]	COMPLETION DATE: 11/19/17
REVIEWED BY: [REDACTED]	Page 2 of 2