WASTE OIL PIT	CLIENT: CITY OF WHITEHORSE	BOREHOLE NO: 13914.1-MW01
CITY OF WHITEHORSE LANDFILL	DRILL: AIR ROTARY	PROJECT NO: [redacted]
WHITEHORSE, YT	UTM ZONE: 8 N6734100 E490000	ELEVATION: 828.8 m

SAMPLE TYPE: GRAB SAMPLE | NO RECOVERY | STANDARD PEN. | 75 mm SPLIT SP. | CRREL BARREL | NW CORE

BACKFILL TYPE: BENTONITE | PEA GRAVEL | SLOUGH | GROUT | DRILL CUTTINGS | SAND

Depth(m)	SAMPLE TYPE	USC	SOIL SYMBOL	SLOTTED PIEZOMETER	SLOTTED PIEZOMETER	SOIL DESCRIPTION	STANDARD PENETRATION 10 20 30 40 / PLASTIC M.C. LIQUID 10 20 30 40	PERCENT SILT OR CLAY 20 40 60 80 / PERCENT SAND 20 40 60 80 / PERCENT GRAVEL 20 40 60 80	ELEVATION(m)
0.0						WASTE ROCK (FILL) – gravel & sand sizes recovered by cyclone (minimal sample recovery), damp, reddish brown			828.0
2.0									
4.0									826.0
6.0						– color changes to grey, silt sized particles present			824.0
8.0									822.0
10.0									820.0
12.0						– 0.6 M thick seam of silt, sand & gravel (appears to consist of native overburden till), damp, grey – boulder, no sample recovered – color changes to brown			818.0
14.0									816.0
16.0									814.0
18.0						– no sample recovery from 17 m to 22 m			812.0
20.0									810.0
22.0									808.0
24.0 ▼						SAND AND GRAVEL (TILL) – silty, gravel particles sub-angular to rounded, wet, brown – water level at 23.8 m below ground surface on Aug.19/99			806.0 ▼
26.0									804.0
28.0									802.0
30.0		SM							800.0

[redacted]

COMPLETION DEPTH: 52.6 m

COMPLETE: 99/07/26

WASTE OIL PIT	CLIENT: CITY OF WHITEHORSE	BOREHOLE NO: 13914.1-MW01
CITY OF WHITEHORSE LANDFILL	DRILL: AIR ROTARY	PROJECT NO: [redacted]
WHITEHORSE, YT	UTM ZONE: 8 N6734100 E490000	ELEVATION: 828.8 m

SAMPLE TYPE: GRAB SAMPLE | NO RECOVERY | STANDARD PEN. | 75 mm SPLIT SP. | CRREL BARREL | NW CORE

BACKFILL TYPE: BENTONITE | PEA GRAVEL | SLOUGH | GROUT | DRILL CUTTINGS | SAND

Depth(m)	SAMPLE TYPE	USC	SOIL SYMBOL	SLOTTED PIEZOMETER	SLOTTED PIEZOMETER	SOIL DESCRIPTION	STANDARD PENETRATION 10 20 30 40	PLASTIC M.C. LIQUID 10 20 30 40	PERCENT SILT OR CLAY 20 40 60 80	PERCENT SAND 20 40 60 80	PERCENT GRAVEL 20 40 60 80	ELEVATION(m)
30.0						BEDROCK (GRANITE) – weathered, fractured, gravel, sand and silt sized particles retrieved (sand particles granite (quartz) crystals, damp, grey						798.0
32.0						– bedrock becomes more competent (33m), slower drilling finer sand and silt sized particles, quartz crystals, dry, light grey						796.0
34.0												794.0
36.0												792.0
38.0						– potential fracture zones (37m) approximately 0.3 m thick, becomes moist						790.0
40.0						– welded casing ends (39m) and left in–place –end of casing completed within 0.6 m thick quickset concrete plug – stopped drilling until 99/7/27						788.0
42.0						– potential fracture zone (41m), becomes wet, larger quartz particles and some water present in material retrieved from cyclone, dark grey						786.0
44.0						– bedrock becomes more competent (43m) finer sand & silt sized particles retrieved, dry, light grey						784.0
46.0												782.0
48.0						– potential fracture zone (48m), becomes damp and dark grey, coarser gravel & sand sized particles (quartz) in cyclone sample						780.0
50.0												778.0
52.0						– stop drilling – water accumulation in hole at a rate of approx. 2 L/min. Well completed in this seepage zone						776.0
54.0						END OF HOLE @ 52.6 m						774.0
56.0						NOTES: Welded casing installed from 1 m above to 39 m below ground surface – well MW1A completed within fractured bedrock zones at 41 m to 44 m below ground surface and MW1B completed with fractured bedrock zones at 49.5 m to 52.5 m						772.0
58.0												770.0
60.0												

[redacted]

COMPLETION DEPTH: 52.6 m

COMPLETE: 99/07/26