

Town of Watson Lake

Borehole No: WLL-MW17-06

Project: TOWL Landfill Hydrogeological Update

Project No: ENW.WENW03058-01

Location: TOWL Landfill

Ground Elev: 712.827 m

Watson Lake, Yukon

UTM: 514026.454 E; 6659046.335 N; Z 9

Depth (m)	Method	Soil Description	Notes and Comments	Elevation (m)
0				
0.86		SILT - gravelly, sandy, some cobbles, mixed lithology, poorly sorted, damp, firm to stiff, beige brown, smooth rounded cobbles to 80 mm diameter	Pipe stickup = 0.86 metres above ground surface	712.827
0.6			Cement from 0.6 metres below ground to ground surface	
1		- some gravel		711
2		- cobbly, smooth rounded cobbles to 150 mm diameter		710
3		SAND AND GRAVEL - some cobbles, some silt, mixed lithology, well graded, grey brown, angular cobbles and gravel to 80 mm diameter		709
4		BASALT - fractured, dark grey, vesicular with vesicles to 5 mm diameter		708
5		- 200 mm thick weathered zone, clay fault gouge and rubble	51 mm schedule 40 PVC pipe	707
6		- good quality, vesicles to 20 mm diameter		706
7		SILT - sandy, trace gravel, mixed lithologies, damp, stiff, beige to brown, pinkish beige sand, subangular gravel to 15 mm diameter		705
8		SAND AND GRAVEL - some silt, mixed lithologies, damp, loose, pinkish brown, smooth subrounded gravel to 60 mm diameter		704
9		SAND - gravelly, trace silt, mixed lithologies, damp, loose, pinkish brown, smooth subrounded gravel to 60 mm diameter		703
10		- beige to brown		702
11	Sonic		Bentonite from 22.6 to 0.6 metres below ground surface	701
12		- silty, some cobbles, damp, angular to subrounded gravel, cobbles to 90 mm diameter		700
13		- some silt		699
14		- silty, smooth subrounded cobbles to 120 mm diameter		698
15		GRAVEL - sandy, silty, some cobbles, coarse cobbles to 80 m diameter		697
16		SAND - gravelly, some silt, damp, loose, beige		696
17		SILT - trace sand, well sorted, dry, stiff, non cohesive, beige to brown, fine sand		695
18		SAND - silty, wet, loose, soft, non cohesive, beige to brown, fine sand		694
19		- trace silt		693
20		- some silt, compact		



Contractor: [REDACTED]

Completion Depth: 29 m

Drilling Rig Type: LS 250 Track Mounted Mini Sonic

Start Date: 2017 October 4

Logged By: [REDACTED]

Completion Date: 2017 October 5

Reviewed By: [REDACTED]

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20					
21		- trace silt, dry to damp			692
22			51 mm schedule 40 PVC pipe		691
23		SILT AND SAND - gravelly, well compacted, damp, stiff, brown, subangular gravel to 50 mm diameter			690
24		- trace clay, trace cobbles, moist, subangular and subrounded cobbles to 80 mm diameter			689
25	Sonic	SAND - some silt, medium to coarse sand			688
26		SILT - sandy, some gravel, trace clay, moist, stiff, greyish beige, subrounded gravel to 75 mm diameter	No. 10/20 silica sand to 22.4 metres below ground surface		687
27		SAND - some gravel, trace silt, damp, loose, orange beige, smooth subrounded gravel to 40 mm diameter	51 mm schedule 40 10-slot PVC screen from 23.0 to 29.0 metres below ground surface		686
28		SILT - sandy, some gravel, trace clay, moist, stiff, cohesive, subangular gravel to 30 mm diameter			685
29		END OF BOREHOLE (29.00 metres) Monitoring well installed to 29.00 metres			684
30					683
31					682
32					681
33					680
34					679
35					678
36					677
37					676
38					675
39					674
40					673



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