

MONITORING WELL ID: MW16-12



Well Type: Groundwater Monitoring Well
 Project Location: Watson Lake Airport - AEC 32, YT
 Drilling Contractor: Omega Environmental Drilling Ltd.
 Drilling Equipment/Method: Sonic
 Well Location: Tank E Area, MW16-G

Project Name/No.: [REDACTED]
 Client: PWGSC
 Engineer/Geologist: [REDACTED]
 Drill Date: November 24, 2016 Page: 1 of 6

Depth (ft/m)	Symbol	Soil / Sediment Description	Sample Type	% Recovery	Sample Analyzed	Sample ID	Headspace (PID)					Well Construction	Remarks
							0	500	1000	1500	2000		
ft m													
-2													
-1													
0		Ground Surface											
1	1	SAND Brown, very fine to medium SAND with some silt to silty sand. Loose to slightly dense, dry, low to moderate odours, staining not observed.	G	50	N	MW16-12 (0.2)	119.0					Concrete	
2													
3	1	Siltier, slightly dense, dry, strong odours, staining not observed.	G	120	Y	MW16-12 (1.0)	482.0					Bentonite	
4						DUP M							
5		SAND and GRAVEL Grey, fine to coarse SAND and fine to medium GRAVEL. Loose, dry, strong odours, staining not observed.											
6													
7	2		G	120	N	MW16-12 (2.0)	338.0						
8													
9		SAND Brown, fine to medium SAND with trace silt and trace gravel. Loose, dry, staining and odours not observed.											
10	3		G	90	N	MW16-12 (3.0)	2.3						
11													
12													
13	4		G	90	Y	MW16-12 (4.0)	3.6						
14													
15													
16	5		G	100	N	MW16-12 (5.0)	3.0						
17													
18													

Date of Water Level: November 27, 2016
 Water Level (from TOC): 33.67
 Well-Borehole Diameter: 150mm (6")
 Well Casing Diameter: 50mm (2")
 Well Casing Material: Schedule 40 PVC
 Well Screen Slot Size: 10 Slot
 Depth of Well (TOC): 36.59

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							0	500	1000	1500	2000		
19	6	SAND Brown, fine to medium SAND with some silt and trace gravel. Compact, dense, dry, staining and odours not observed.	G	80	N	MW16-12 (6.0)						Cuttings and Slough	
20							1.5						
21	7	SAND Brown, fine to medium SAND with some silt and trace to some fine gravel. Dense, dry, staining and odours not observed.	G	80	Y	MW16-12 (6.75)						Cuttings and Slough	
22							5.0						
23	8	SAND Brown, fine to medium SAND with trace silt and trace fine gravel. Loose, dry, staining and odours not observed.	G	80	Y	MW16-12 (8.25)						Bentonite	
24							5.1						
25	9	SAND Brown, fine to medium SAND with trace silt and trace fine gravel. Loose, dry, staining and odours not observed.	G	100	Y	MW16-12 (9.2)						Bentonite	
26							17.3						
27	10	Silty SAND Brown, silty fine to medium SAND. Compact, moist, staining and odours not observed.	G	100	N	MW16-12 (10.0)						Bentonite	
28							3.3						
29	11	SAND Brown, fine to medium SAND with some fine gravel. Dry, staining and odours not observed.	G	100	N	MW16-12 (10.5)						Bentonite	
30							3.4						
31	11	SAND Brown, fine to medium SAND with fine gravel. Slightly dense, moist to wet, staining and odours not observed.	G	100	N	MW16-12 (11.5)						Bentonite	
32							7.2						

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Depth (ft/m)	Symbol	Soil / Sediment Description	Sample Type	% Recovery	Sample Analyzed	Sample ID	Headspace (PID)					Well Construction	Remarks	
							0	500	1000	1500	2000			
40		SAND Brown, fine to medium SAND with trace silt. Loose, moist, staining and odours not observed.	G	100	N	MW16-12 (12.0)	2.5							
41		SAND Brown, fine to medium SAND with trace silt and trace fine gravel. Loose, dry, staining and odours not observed.												
42			G	100	N	MW16-12 (13.0)	3.1							
43														
44														
45		Slightly siltier, compact lens (10cm).												
46			G	100	N	MW16-12 (14.0)	2.3							
47														
48														
49		SAND Brown, fine to medium SAND with trace silt and trace coarse sand. Loose, dry, staining and odours not observed.	G	85	N	MW16-12 (15.0)	1.1							
50														
51														
52		Trace silt at 16.0m.												
53			G	85	N	MW16-12 (16.0)	4.5							
54		Trace gravel at 16.5m.												
55														
56			G	85	N	MW16-12 (17.0)	1.0							
57														
58														
59		SAND Grey, medium SAND. Loose, saturated, staining and odours not observed.	G	70	Y	MW16-12 (18.0)	34.0							
60														

Cuttings and Slough
 Bentonite
 Cuttings and Slough

Perched @ 18.0m

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							0	500	1000	1500	2000		
61		SAND Brown, fine to medium SAND with trace silt and trace fine gravel.											
62		Silty SAND Brown, silty fine to medium SAND. Compact, dense, moist to wet, staining and odours not observed.	G	70	N	MW16-12 (19.0)	0.6						Cuttings and Slough
63													
64													
65		SAND Brown, fine to medium SAND with some silt. Loose, moist, staining and odours not observed.	G	70	N	MW16-12 (20.0)	0.4						Cuttings and Slough
66													
67													
68		SAND Brown, fine to coarse SAND. Loose, wet, staining and odours not observed.	G	80	N	MW16-12 (21.0)	2.8						Bentonite Perched @ 21.0m
69													
70													
71													
72		Sandy SILT Grey brown, very fine sandy SILT, laminated. Dense, moist, staining and odours not observed.	G	80	N	MW16-12 (22.2)	2.9						
73													
74													
75													
76		Stones at 23.5m.	G	80	N	MW16-12 (23.0)	5.8						Cuttings and Slough
77													
78		Sandy SILT Brown, fine to medium gravelly and very fine to medium sandy SILT.	G	105	N	MW16-12 (24.0)	0.5						
79													
80													
81													

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Depth (ft/m)	Symbol	Soil / Sediment Description	Sample Type	% Recovery	Sample Analyzed	Sample ID	Headspace (PID)					Well Construction	Remarks
							0	500	1000	1500	2000		
82	25	SAND and GRAVEL Brown, fine to medium SAND and fine to medium GRAVEL. Loose, dry, staining and odours not observed.	G	105	N	MW16-12 (25.0)	0.7						
83													
84													
85	26		G	105	N	MW16-12 (26.0)	9.5						Cuttings and Slough
86													
87													
88													
89	27	SILT Grey SILT with trace sand. Stiff, wet, staining and odours not observed.	G	70	N	MW16-12 (27.0)	3.8						Bentonite
90		SAND Brown SAND with some gravel and trace to no silt. Loose, dry, staining and odours not observed.											
91													
92	28		G	70	N	MW16-12 (28.0)	2.3						
93													
94													
95	29		G	70	N	MW16-12 (29.0)	2.4						Slough
96		SAND Brown SAND with some silt and trace fine to medium gravel. Loose, moist, staining and odours not observed.											
97													
98	30	SAND and GRAVEL Brown, fine to medium SAND and fine to medium GRAVEL with some silt and trace grey cobbles. Loose, dry, staining and odours not observed.	G	55	N	MW16-12 (30.0)	1.4						
99													
100		SAND and GRAVEL Brown, fine to medium SAND and fine to coarse GRAVEL with some silt. Loose, dry, staining and odours not observed.											Bentonite
101													
102	31												

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							0	500	1000	1500	2000		
03		SAND and GRAVEL Brown, fine to medium SAND and fine to coarse GRAVEL with some silt. Loose, dry, staining and odours not observed.	G	55	N	MW16-12 (31.0)	1.0						Bentonite
04		Grey silt lense at 30.8m.											
05			G	55	N	MW16-12 (32.0)	1.2						Silica Sand and Well Screen
06													
08		Silty SAND and GRAVEL Grey to grey brown, silty fine to coarse SAND and fine to medium GRAVEL (till). Compact, dense, moist to wet, low plasticity, odours not observed.	G	80	N	MW16-12 (33.0)	1.6						Silica Sand and Well Screen
09													
12			G	80	N	MW16-12 (34.0)	2.0						Silica Sand and Well Screen
13													
15			G	80	N	MW16-12 (35.0)	2.0						Silica Sand and Well Screen
16													
17		BEDROCK Dark grey metamorphic BEDROCK, very competent. Staining and odours were not observed.											Silica Sand and Well Screen
18													
21													

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