

MONITORING WELL ID: MW16-08



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 Farm E South, MW16-K

Project Name/No.: [REDACTED]
 Client: PWGSC
 Engineer/Geologist: [REDACTED]
 Drill Date: November 21, 2016 Page: 1 of 6

Depth (ft/m)	Symbol	Soil / Sediment Description	Sample Type	% Recovery	Sample Analyzed	Sample ID	Headspace (PID)		Well Construction	Remarks
							ppm			
0		Ground Surface								
0.8		SAND Brown to orange SAND with some silt and trace gravel. Compact, moist odours not observed.	G	110	N	MW16-08 (0.2)	0.8		Concrete	
1.2		SAND Brown SAND with trace gravel. Loose, moist, staining and odours not observed.	G	110	Y	MW16-08 (1.3)	1.2		Bentonite	
2.0		SAND Grey SAND with trace gravel. Loose, dry, staining and odours not observed. Dense below 7.0m.	G	110	N	MW16-08 (2.0)	0.4			
2.7			G	90	N	MW16-08 (2.7)	0.9			
3.5			G	90	Y	MW16-08 (3.5)	4.6		Cuttings and Slough	
4.7			G	90	Y	MW16-08 (4.7)	2.4			

Date of Water Level: November 25, 2016
 Water Level (from TOC): 28.356

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): 31.495

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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		
18													
19													
20	6		G	40	N	MW16-08 (6.0)		3.3					
21													
22													
23	7												
24													
25													
26	8		G	40	Y	MW16-08 (7.7)		2.4					
27													
28													
29													
30	9												
31		SAND Grey SAND with some silt and trace gravel. Dense, moist, staining and odours not observed.	G	105	N	MW16-08 (9.4)		0.7					
32		SAND Brown SAND with trace gravel. Loose, dry to moist, staining and odours not observed.											
33	10		G	105	N	MW16-08 (10.0)		0.3					
34													
35													
36	11		G	105	N	MW16-08 (11.0)		0.1					
37													

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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			
38	12	SAND Brown SAND with trace gravel. Loose, dry to moist, staining and odours not observed.												
39														
40			G	90	N	MW16-08 (12.0)	2.1							
41														
42														
43			G	90	N	MW16-08 (13.0)	1.4							
44														
45														
46			G	90	N	MW16-08 (14.0)	0.4							
47														
48														
49			G	95	N	MW16-08 (15.0)	0.1							
50														
51														
52			G	95	N	MW16-08 (16.0)	0.0							
53														
54														
55														
56	G	95	N	MW16-08 (17.0)	0.0									
57														

Cuttings and Slough

Bentonite

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							0	500	1000	1500	2000		
58		SAND Brown SAND with trace gravel. Loose, dry to moist, staining and odours not observed.											
59	18	SAND Brown fine to medium SAND with trace silt. Loose, dry, staining and odours not observed.	G	80	N	MW16-08 (18.0)	1.2						
60		SAND Brown, fine to medium SAND with trace silt. Loose, dry, staining and odours not observed.											
61													
62	19		G	80	N	MW16-08 (19.0)	0.6						Cuttings and Slough
63													
64													
65													
66	20		G	80	N	MW16-08 (20.0)	0.8						
67													
68		Silty SAND Brown, silty very fine to fine SAND. Slightly dense, dry, staining and odours not observed.	G	80	N	MW16-08 (20.5)	2.0						
69	21		G	90	N	MW16-08 (21.0)	1.7						Bentonite
70													
71		SAND Brown, very fine to medium SAND with fine to medium gravel and some silt. Loose, dry, staining and odours not observed.											
72	22		G	90	N	MW16-08 (22.0)	12.7						Cuttings and Slough
73													
74													
75													
76	23		G	90	Y	MW16-08 (23.0)	98.0						
77			G	90	Y	DUP L							

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							0	500	1000	1500	2000			
78	24	SAND Brown, very fine to medium SAND with fine to medium gravel and some silt. Loose, dry, staining and odours not observed.												
79			G	120	N	MW16-08 (24.0)	2.8							
80														
81														
82	25		G	120	N	MW16-08 (25.0)	2.3						Cuttings and Slough	
83														
84														
85	26		G	120	N	MW16-08 (26.0)	2.6						Bentonite	
86														
87														
88	27	SAND Brown, very fine to medium SAND with fine to medium gravel and trace to some silt. Dense, moist, staining and odours not observed.	G	90	N	MW16-08 (27.0)	0.8							
89														
90														
91	28	Sandy SILT Grey, very fine sandy SILT. Stiff, moist, low plasticity, no odours observed.	G	90	N	MW16-08 (28.0)	1.6						Sand and Well Screen	
92														
93	29	Sandy SILT Grey, very fine sandy SILT with fine to medium angular gravel. Dense, moist, staining and odours not observed.												
94														
95														
96			G	120	N	MW16-08 (29.0)	1.5							
97														

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							0	500	1000	1500	2000		
98		Silty GRAVEL Grey silty GRAVEL (till) with rock clasts and medium to coarse gravel. Very compact, dense, dry, staining and odours not observed.	G	100	N	MW16-08 (30.0)	ppm						Sand and Well Screen
99		Silty GRAVEL Grey silty GRAVEL (till) with rock clasts and medium to coarse gravel. Very dense, dry to moist, staining and odours not observed.					2.4						
30													
31													
32													
33													
34													
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