

MONITORING WELL ID: MW17-15



Well Type: Groundwater and Soil Vapour Monitoring Wells

Project Location: Watson Lake Airport, Yukon

Drilling Contractor: Omega Environmental Drilling Ltd.

Drilling Equipment/Method: Sonic

Well Location: AEC 32-B

Project Name/No.: [REDACTED]

Client: PWGSC

Engineer/Geologist: [REDACTED]

Drill Date: July 7, 2017

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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		
0		Ground Surface											
0		SAND Brown, medium to coarse grained SAND (fill), trace gravel. Loose, moist from drill water, odour and/or staining not observed.		120	Y	MW17-15 (0.4)		468.0					
1		Fine grained below 1.0 m.											
2				120	N	MW17-15 (1.3)		896.0					
3													
4													
5													
6		SAND and GRAVEL Brownish grey SAND and GRAVEL (fill), some cobbles. Loose, moist, moderate odour observed.		120	N	MW17-15 (2.1)		992.0					
7													
8													
9													
10		Dense below 3.1 m.		120	N	MW17-15 (3.1)		888.0					
11													
12		SAND and GRAVEL Brownish grey, medium to coarse grained SAND and GRAVEL, some cobbles. Dense, moist, odour and/or staining not observed.											
13													
14		Loose with strong odour below 4.4 m.		120	N	MW17-15 (4.4)		840.0					
15													

Date of Water Level: July 12, 2017	Well-Borehole Diameter: 150 mm (6")	Depth of Well (TOC): 37.155 m
Water Level (from TOC): 32.685 m	Well Casing Diameter: 50 mm (2")	
	Well Casing Material: Schedule 40 PVC	
	Well Screen Slot Size: 10 Slot	

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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		
16	5	Silty SAND Brown, fine to medium grained silty SAND, some gravel. Compact, wet, low odour observed, staining was not observed.											
17													
18			110	N		MW17-15 (5.5)					647.0		
19	6	Grey in colour below 6.4 m.											
20												114.2	
21													
22													
23	7		110	N		MW17-15 (7.1)					173.6		
24													
25													
26	8	Very dense and wet from drilling below 8.2 m.	130	Y		MW17-15 (7.7), MW17-N						286.4	
27													
28													
29			130	N		MW17-15 (8.8)						170.5	
30	9												
31													82.8
32		Dark grey in colour, fine grained, and moist below 9.7 m.											
33	10	Trace cobbles, and dry below 10.4 m.											
34													
35			160	Y		MW17-15 (10.7)						20.0	

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							0	500	1000	1500	2000		
36	11												
37													
38													
39	12	Brown in colour, with trace gravel below 11.9 m.											
40			160	N		MW17-15 (12.2)		12.8					
41													
42	13	SAND Light brown SAND, some silt and gravel. Loose, dry, odour and/or staining not observed.	160	Y		MW17-15 (13.0)		73.4					
43													
44													
45													
46	14		140	N		MW17-15 (14.0)		24.9					
47		Compact below 14.3 m.											
48			140	N		MW17-15 (14.5)		2.6					
49		Increase in silt below 14.9 m.											
50	15												
51		SILT Grey SILT, some fine grained sand. Hard, dry to moist, odour and/or staining not observed.	140	N		MW17-15 (15.5)		2.9					
52													
53	16												
54		SAND and GRAVEL Grey, medium to coarse grained SAND and GRAVEL. Dense, dry, odour and/or staining not observed.	140	N		MW17-15 (16.4)		5.4					
55													

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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		
56	[Symbol]	Brown in colour, with some silt below 17.5 m.	[Symbol]	140	N	MW17-15 (18.0)	[Headspace Data]					[Well Construction]	[Remarks]
57							11.3						
58	[Symbol]	SILTY SAND Brown, fine to medium grained SILTY SAND, trace gravel. Dense, moist, odour and/or staining not observed.	[Symbol]	140	N	MW17-15 (19.2)	[Headspace Data]					[Well Construction]	[Remarks]
59							10.1						
60	[Symbol]	SAND Light brown SAND, some silt, trace gravel and cobbles. Compact and slightly dense, moist to dry, odour and/or staining not observed.	[Symbol]	140	N	MW17-15 (19.5)	[Headspace Data]					[Well Construction]	[Remarks]
61							7.2						
62	[Symbol]	SAND and GRAVEL Brown, coarse grained SAND and GRAVEL, some silt, trace rocks and cobbles. Dense, dry to moist, odour and/or staining not observed.	[Symbol]	140	N	MW17-15 (20.1)	[Headspace Data]					[Well Construction]	[Remarks]
63							5.7						
64	[Symbol]	[Description]	[Symbol]	140	N	MW17-15 (21.0)	[Headspace Data]					[Well Construction]	[Remarks]
65							2.2						
66	[Symbol]	[Description]	[Symbol]	140	N	MW17-15 (21.6)	[Headspace Data]					[Well Construction]	[Remarks]
67							1.5						
68	[Symbol]	[Description]	[Symbol]	140	N	MW17-15 (21.6)	[Headspace Data]					[Well Construction]	[Remarks]
69													
70	[Symbol]	[Description]	[Symbol]	140	N	MW17-15 (21.6)	[Headspace Data]					[Well Construction]	[Remarks]
71													
72	[Symbol]	[Description]	[Symbol]	140	N	MW17-15 (21.6)	[Headspace Data]					[Well Construction]	[Remarks]
73													
74	[Symbol]	[Description]	[Symbol]	140	N	MW17-15 (21.6)	[Headspace Data]					[Well Construction]	[Remarks]
75													

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							0	500	1000	1500	2000		
76	24	Brown in colour, and wet from drilling below 23.5 m.	120	N	N	MW17-15 (23.6)	2.0					[Hatched]	
77													
78	25	Pulverised rock below 25.3 m.	120	N	N	MW17-15 (24.8)	7.4					[Hatched]	
79													
80	26	<p>SAND</p> <p>Light brown, fine grained SAND. Compact, moist, odour and/or staining not observed.</p> <p>Dry below 26.5 m.</p>	70	N	N	MW17-15 (26.2)	4.2					[Hatched]	
81													
82	27		70	N	N	MW17-15 (27.0)	4.1					[Hatched]	
83													
84	28	<p>SILT</p> <p>Dark brown SILT, some fine grained SAND. Firm, moist, odour and/or staining not observed.</p>	70	N	N	MW17-15 (28.0)	2.0					[Hatched]	
85													
86													
87													
88													
89													
90													
91													
92													
93													
94													
95													

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							0	500	1000	1500	2000		
96				100	N	MW17-15 (29.4)	2.0						
97													
98													
99													
100				100	N	MW17-15 (30.5)	3.4						
101													
102													
103		SAND Grey SAND, some silt and charcoal. Compact, moist to wet, odour and/or staining not observed.		100	N	MW17-15 (31.7)	4.0						
104													
105													
106				130	N	MW17-15 (32.3)	2.9						
107													
108		SILTY SAND Grey, fine to medium grained SILTY SAND, some charcoal. Firm, wet, odour and/or staining not observed.											
109													
110		Saturated below 33.5 m.		130	N	MW17-15 (33.5)	2.1						
111													
112													
113													
114		SAND Grey, fine grained SAND, some silt. Compact, wet, odour and/or staining not observed.		130	N	MW17-15 (34.5)	2.7						
115													

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							0	500	1000	1500	2000		
16													
17			110	Y		MW17-15 (35.6)	2.6						
18		End of Hole											
19													
20													
21													
22													
23													
24													
25													
26													
27													
28													
29													
30													
31													
32													
33													
34													
35													

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