

MONITORING WELL ID: AEC32-MW17-28



Well Type: Groundwater and Soil Vapour Monitoring Wells

Project Location: AEC32

Drilling Contractor: Omega Environmental Drilling Ltd.

Drilling Equipment/Method: Sonic

Well Location: AEC 32D

Project Name/No.: [REDACTED]

Client: PSPC

Engineer/Geologist: [REDACTED]

Drill Date: July 13, 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		
-1													
0		Ground Surface											
0		SAND and GRAVEL Light brown, fine to coarse grained SAND and GRAVEL. Loose, moist to wet, low odours were observed, staining was not observed.	G	90	N	MW17-28 (0.4)	0.6						
1													
2													
3		SAND Grey, fine to medium grained SAND, some fine to coarse grained gravel, trace silt. Loose, moist, odours and/or staining were not observed.	G	100	N	MW17-28 (0.9)	6.2						
4													
5													
6			G	100	N	MW17-28 (1.7)	8.6						
7													
8		Coarse gravel and moderate odours at 2.1 m. Odour strength increases with depth.											
9			G	100	N	MW17-28 (2.6)	398.0						
10													
11		Silt at 3.3 m											
12			G	120	N	MW17-28 (3.5)	191.7						
13													
14													
15		Very strong odours at 4.6 m											
16			G	120	N	MW17-28 (4.9)	189.9						
17													
18													
19			G	110	N	MW17-28 (5.6)	191.7						

Date of Water Level: N/A	Well-Borehole Diameter: 150 mm (6")	Depth of Well (TOC): N/A
Water Level (from TOC): N/A	Well Casing Diameter: 50 mm (2")	
	Well Casing Material: Schedule 40 PVC	
	Well Screen Slot Size: 0.25 mm	

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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		
20		Odours decreasing starting at 6.1 m											
21			G	110	N	MW17-28 (6.5)							
22													
23	7												
24													
25				G	110	N	MW17-28 (7.6)						
26	8												
27													
28													
29			G	110	N	MW17-28 (8.8)							
30	9												
31		Silty SAND Mottled, silty fine grained SAND. Loose, moist, low odours were observed, staining was not observed.											
32			G	110	N	MW17-28 (9.7) / MW17-X							
33	10												
34		Medium grained sand and fine to medium gravel observed below 10.3 m											
35			G	110	Y	MW17-28 (10.7)							
36	11												
37													
38			G	110	N	MW17-28 (11.6)							
39	12												
40													
41			G	110	N	MW17-28 (12.5)							

Date of Water Level: N/A
Water Level (from TOC): N/A

Well-Borehole Diameter: 150 mm (6")
Well Casing Diameter: 50 mm (2")
Well Casing Material: Schedule 40 PVC
Well Screen Slot Size: 0.25 mm

Depth of Well (TOC): N/A

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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		
42	13	Silty SAND Mottled, silty fine grained SAND. Loose, moist, low odours were observed, staining was not observed.											
43		Medium grained sand and fine to medium gravel observed below 10.3 m Cobble at 13.1 m	G	120	N	MW17-28 (13.4)		34.0					
44	14	Sandy SILT Grey, fine grained sandy SILT. Soft, moist, odours and/or staining were not observed.											
45			G	120	N	MW17-28 (14.3)		15.7					
46		SILT Grey SILT, trace fine to coarse grained gravel, trace fine grained sand. Dense, moist, staining and odours not observed.	G	120	N	MW17-28 (14.6)		7.2					
47	15												
48			G	110	N	MW17-28 (15.8)		4.9					
49	16	SAND and GRAVEL Brown fine to coarse grained SAND and GRAVEL, trace cobbles, trace silt. Loose, wet, staining and/or odours not observed.											
50			G	110	N	MW17-28 (16.5)		2.7					
51			G	110	N	MW17-28 (17.2)		3.0					
52		Silt lense at 17.7-18.0 m	G	95	N	MW17-28 (17.7)		0.4					
53	17												
54			G	95	N	MW17-28 (18.9)		1.2					
55	18												
56			G	95	N	MW17-28 (18.9)		1.2					
57	19												
58			G	95	N	MW17-28 (18.9)		1.2					
59													
60													
61													
62													
63													

Date of Water Level: N/A
Water Level (from TOC): N/A

Well-Borehole Diameter: 150 mm (6")
Well Casing Diameter: 50 mm (2")
Well Casing Material: Schedule 40 PVC
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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		
64	20	SAND and GRAVEL Brown fine to coarse grained SAND and GRAVEL, trace cobbles, trace silt. Loose, wet, staining and/or odours not observed.	G	95	N	MW17-28 (19.8)	0.8					[Cross-hatched]	
65		Silt lense at 17.7-18.0 m Mottled at 19.8 m											
66	21	Sandy SILT Mottled medium to coarse grained sandy SILT, some medium grained gravel. Moderately stiff, dry, odours and/or staining were not observed.	G	110	N	MW17-28 (20.7)	2.4					[Cross-hatched]	
67													
68	22	SAND and GRAVEL Grey to brown fine to coarse grained SAND and GRAVEL. Loose, moist to wet, staining and odours not observed.	G	110	N	MW17-28 (21.6)	0.7					[Cross-hatched]	
69													
70	23	Sandy SILT Grey, medium to coarse grained sandy SILT. Some fine to medium grained rounded gravel. Stiff, moist to wet, staining and/or odours not observed.	G	110	N	MW17-28 (22.5)	2.0					[Cross-hatched]	
71													
72	24	SAND and GRAVEL Grey, medium to coarse grained sandy SILT. Some fine to medium grained rounded gravel. Stiff, dry, staining and/or odours not observed.	G	95	Y	MW17-28 (23.6)	0.7					[Cross-hatched]	
73													
74	25	SAND and GRAVEL Grey, medium to coarse grained sandy SILT. Some fine to medium grained rounded gravel. Stiff, dry, staining and/or odours not observed.	G	95	N	MW17-28 (24.4)	0.7					[Cross-hatched]	
75													
76	26	Sandy SILT Grey sandy SILT, some fine to medium grained rounded gravel. Stiff, dry, odours and/or staining were not observed	G	95	N	MW17-28 (25.6)	0.5					[Cross-hatched]	
77													
78													
79													
80													
81													
82													
83													
84													
85													

Date of Water Level: N/A
Water Level (from TOC): N/A

Well-Borehole Diameter: 150 mm (6")
Well Casing Diameter: 50 mm (2")
Well Casing Material: Schedule 40 PVC
Well Screen Slot Size: 0.25 mm

Depth of Well (TOC): N/A

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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		
86		Sandy SILT Grey sandy SILT, some fine to medium grained rounded gravel. Stiff, dry, odours and/or staining were not observed											
87		SILT Mottled SILT, trace fine grained sand. Soft, moist to wet, odours and/or staining were not observed.	G	100	N	MW17-28 (26.8)	0.1						
89		Sandy SILT Brown fine to medium grained sandy SILT. Soft, moist to wet, odours and/or staining were not observed.	G	100	N	MW17-28 (27.0)	0.0						
91		SILT Grey SILT, some fine to medium grained rounded gravel, trace coarse grained sand. Stiff, moist, odours and/or staining were not observed.	G	125	N	MW17-28 (27.7)	0.1						
95		Medium to coarse grained gravel at 29.0 m	G	125	N	MW17-28 (29.0)	0.0						
96		Grey silty SAND lense and moist to wet 29.3 to 29.5 m											
98		Mottled 30.2 to 31.1 m	G	125	N	MW17-28 (29.9)	0.0						
101		Hard at 30.8 m	G	125	N	MW17-28 (30.7)	0.0						
102		Moderately stiff at 31.1 m											
103			G	130	N	MW17-28 (31.4)	0.0						
105			G	130	N	MW17-28 (32.3)	0.0						
107			G										

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Water Level (from TOC): N/A

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							0	500	1000	1500		
08		SILT Brown with orange mottling, SILT. Some fine to medium sand, trace fine to medium gravel. Weathered rock, angular, massive. Medium stiff, moist, staining and odours not observed. Sand and gravel lenses throughout.	G	130	N	MW17-28 (32.9)	0.0					
09												
10												
11												
12			G	150	Y	MW17-28 (34.2)	0.0					
13												
14												
15			G	150	N	MW17-28 (35.1)	0.0					
16												
17												
18			G	150	N	MW17-28 (36.0)	0.0					
19												
20												
21			G	145	N	MW17-28 (36.9)	0.1					
22												
23												
24			G	145	N	MW17-28 (38.1)	0.0					
25												
26												
27												
28												
29												

Well Screen and 10/20 Silica Sand

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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		
30		End of Hole											
31	40												
32													
33													
34													
35	41												
36													
37													
38	42												
39													
40													
41	43												
42													
43													
44	44												
45													
46													
47													
48	45												
49													
50													
51	46												

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