

Date Start/Finish: 5/9/2010 to 5/11/2010
Drilling Company: Boart Longyear
Driller's Name: Rodney (Bear) Parr
Drilling Method: Rotosonic
Sampling Method: 10 ft by 4 in (ID) Core Barrel
Rig Type: Track-mounted Rotosonic

Northing: 215757.39
Easting: 690222.03
Casing Elevation: 23.31 ft msl
Borehole Depth: 227 ft bgs
Surface Elevation: 23.54 ft msl
Descriptions By: David Heuer

Well/Boring ID: MW-13D
Client: Public Well TCE Site
Location: WB Atkins Memorial Park, Millsboro, DE

DRAFT

DEPTH	ELEVATION	PID (ppm)	Recovery (feet)	Geologic Column	Stratigraphic Description	Well/Boring Construction
0					Gray-tan-brown Silty VF SAND, little M-C Sand, F Gravel, and Clay, slightly cohesive	
5		0 - 7 ft	100			
10					Tan-orange Silty VF-F SAND, little to trace M-C Sand and F Gravel, subrounded, texture generally gets finer with depth	
15		7 - 17 ft	100			
20					Tan-orange VF Sandy SILT, little Clay, cohesive, wet, Clayey Silt lens at 18 to 18.5 ft bgs	
25					Tan-orange Silty VF SAND, semi-loose	
30		17 - 27 ft	100		Tan-orange Silty VF-M SAND, little C Sand, loose, wet, color turns gray at 22 ft bgs	
35					Tan-orange Silty VF-F SAND, little to trace M-C Sand and F Gravel	
40					Tan-gray-orange Silty VF-C SAND and F-C GRAVEL, very loose	
45		27 - 37 ft	100		Grayish tan Silty VF SAND, trace F-C Sand and F Gravel	
50					Grayish tan Silty VF-C SAND and F-C GRAVEL	
55					Orange VF-M SAND, little to trace C Sand and F-C Gravel, slightly silty	
60					Grayish tan VF-F SAND, little M-C Sand, trace F-C Gravel	

Remarks: Water levels measured on 5/21/10: MW-13S - 15.02 ft bgs; MW-13M - 10.08 ft bgs; MW-13D - 9.00 ft bgs.



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-15					Grayish tan Silty VF SAND, little F Sand	
40		37 - 47 ft	100		Orange VF-C SAND, some F-C Gravel	
-20					Orange VF-F SAND, little M-C Sand, trace F-C Gravel, subrounded	
45					Orange-grayish tan VF-F SAND, little M-C Sand and F Gravel, Sandy F-C Gravel lens at 50 ft bgs	
-25		47 - 57 ft	100		Light orange Silty VF SAND, semi-loose	
50					Orange Silty VF SAND, semi-loose	
-30					Orange Silty VF-F SAND, little M-C Sand and F Gravel	
55		57 - 67 ft	100		Orange Silty VF-M SAND, little C Sand and F Gravel	
-35					Orange Silty VF-C SAND and F-C GRAVEL	
60						
-40						
65						
-45						
70						
-50		67 - 77 ft	100			
75						

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DEPTH	ELEVATION	PID (ppm)	Recovery (feet)	Geologic Column	Stratigraphic Description	Well/Boring Construction
-55						
-80		77 - 87 ft	100			
-60						
-85					Orange Silty VF SAND, trace F-C Gravel and C Sand	
-65						
-90		87 - 97 ft	100		Orange Silty VF-F SAND, little to trace M-C Sand and F Gravel	
-70					Gray Silty (30 to 40%) VF SAND, little Clay, cohesive, wet	
-95					Gray CLAY and SILT, stiff, moist	
-75					Gray VF Sandy SILT, little Clay, cohesive, semi-stiff, wet to highly moist	
-100		97 - 107 ft	100		Gray CLAY and SILT, stiff, moist	
-80					Gray VF Sandy SILT, little Clay, cohesive, semi-stiff to semi-loose	
-105					Gray VF Sandy (30 to 40%) SILT, little to trace Clay, wet, cohesive to semi-loose	
-85					Gray Clayey SILT, stiff, low moisture	
-110		107 - 117 ft	100		Gray VF Sandy (10 to 20%) SILT, little Clay, cohesive and semi-stiff	
-90					Gray-black CLAY and SILT with white shells, stiff, low moisture	
					Gray Clayey SILT, trace VF Sand, stiff, low to medium moisture	

MW-13S well screen 84 to 94 ft bgs. Well installed next to MW-13D by mud rotary method.

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DEPTH	ELEVATION	PID (ppm)	Recovery (feet)	Geologic Column	Stratigraphic Description	Well/Boring Construction
115					Gray VF Sandy (10 to 20%) SILT, little Clay, cohesive, soft, wet to highly moist	 <p>MW-13M well screen 119 to 124 ft bgs. Well installed next to MW-13D by mud rotary method.</p>
-95					Gray VF Sandy SILT, trace Clay, semi-loose to slightly cohesive, wet	
120		117 - 127 ft	100		Gray Silty (20 to 35%) VF SAND, semi-loose to loose, wet, Clayey Silt seem (3" thick) present	
-100					Gray Silty VF SAND, semi-loose, wet	
125					Gray Clayey SILT, trace VF Sand, stiff, medium to low moisture	
-105		127 - 137 ft	100		Gray Silty (35 to 45%) VF SAND, semi-loose, highly moist to wet	
130					Gray Clayey SILT, stiff, medium to low moisture	
-110					Gray Silty (25 to 35%) VF SAND, little F Sand, wet, loose to semi-loose	
135					Gray Silty (30 to 40%) VF SAND, loose to semi-loose, wet	
-115		137 - 147 ft	100			
140						
-120						
145						
-125						
150						

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-130		147 - 157 ft	100			
-135					Gray Silty (10 to 25%) VF SAND, wet, loose	
-140		157 - 167 ft	100			
-145					Gray Silty VF SAND, wet, loose, Clayey Silt lens (3" thick) at 177 ft bgs	
-150		167 - 177 ft	100			
-155					Light gray VF SAND, little to trace Silt, wet, loose	
-160		177 - 187 ft	100			
-165					Light gray VF SAND, trace Silt, wet, loose	

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190		187 - 197 ft	100			
-170						
195						
-175					Light gray VF SAND, wet, loose	
200		197 - 207 ft	100			
-180						
205						
-185						
210		207 - 217 ft	100			
-190						
215						MW-13D well screen 210 to 220 ft bgs.
-195						
220						
-200		217 - 227 ft	100			
225						

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