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fishbeck, thompson, carr & huber, inc.

BOREHOLE LOG

BORING/WELL ID: MW-122S

TOTAL DEPTH (ft.): 174'

PROJECT: Pall Life Sciences
SITE LOCATION: Ann Arbor, Michigan
PROJECT NO.: F96502
PROJECT MANAGER: James W. Brode, Jr., CPG
LOGGED BY: Todd C. Campbell, CPG

START DATE: 12/4/08
END DATE: 12/5/08
TOC ELEV.: 941.37'
GROUND ELEV.: approx. 942'
STATIC WATER LVL.: 72.21'

DRILLING CO.: Stearns Drilling
DRILLER: Jerry, Pat, Sam, Tony
RIG TYPE: CME 95
METHOD OF DRILLING: Hollow Stem Auger
SAMPLING METHODS: Split Spoon, Simulprobe

NOTES: 5' West of MW-122D. Descriptions based on PLS-08-05
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Static Water Level Page 1 of 3

DESCRIPTION	PID ppm	GRAPHIC LOG	DEPTH (ft. bgl)	Static Water Level	Sample/ Recovery	Sample ID	Blow Counts	WELL CONSTRUCTION DETAIL
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TOPSOIL: Sand; Silt. Dark brown, dry

DIAMICTON: Silt; Sand, fine grained (30%); Clay (20%). Brown, moderately sorted, very stiff, dry

as above

SAND: Sand, fine to medium grained (90%); Gravel, fine (10%). Brown, well sorted, medium dense, dry

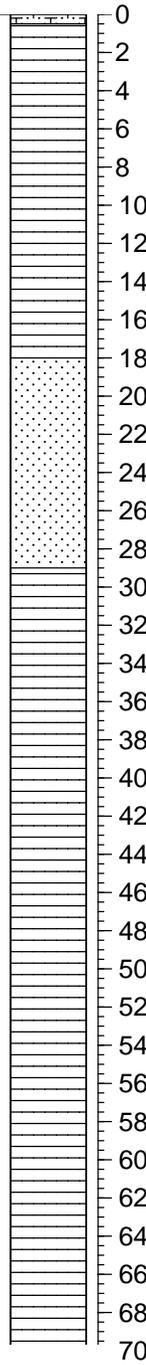
DIAMICTON: Silt; Clay (20%); Sand, fine grained (20%); trace Gravel, fine. Grayish brown, moderately sorted, stiff, dry

Silt; Sand, fine grained (30%); Clay (20%); Gravel, fine (10%). Gray, well sorted, stiff, dry

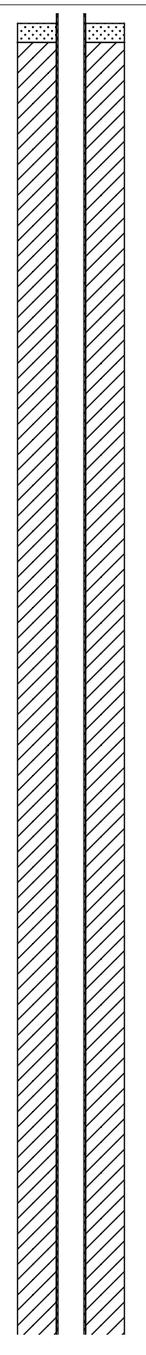
as above

as above

as above, decreasing clay content



2.0'	3,9,10,10
2.0'	7,8,10,11
1.7'	4,7,7,8
2.0'	4,5,5,6
1.8'	6,9,9,10
1.9'	11,25,30,20
1.8'	9,16,22,20



Sand Pack

Bentonite Grout

2" Galvanized Casing



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as above			70 72 74 76 78 80 82 84 86 88 89	1.9'			8,17,20,21	
SAND: Driller notes Sand			90 92 94 96 98 100 102 104 106 108 109	1.6'			5,11,21,25	Simulprobe sample 99'-100.5' (4 ug/L)
Infer Sand, fine to medium grained (from drilling and from heave in "AW" rods observed while pulling Simulprobe sampler)			110 112 114 116 117	0'			5,9,21	Bentonite Grout 2" Galvanized Casing
Sand, very fine to fine grained with trace medium grains. Grayish brown, well sorted, wet			118 120 122 124 126 127	0.6'			29,70,50 (3")	Simulprobe sample 109'-110.5' (2 ug/L) Added approximately 30 gallons of water to augers
Sand, fine to medium grained. Brown, well sorted, wet			128 130 132 133	0.5'			27,59,50 (2")	Simulprobe sample 119'-120.5' (2 ug/L) Added approximately 30 gallons of water to augers
Gravel seams throughout			134 136 138 140 142 143	<0.1'			5,7,11	Simulprobe sample 129'-130.5' (2 ug/L) Added approximately 30 gallons of water to augers
As above with Gravel, fine (10%)			144 146 148 150 152 154 156 158 160 162 164 166 168 170 172 174					Simulprobe sample 139'-140.5' (2 ug/L) Added approximately
Sand, fine grained with trace medium grains; trace Gravel, fine.			174					



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Grayish brown, well sorted, wet (sample obtained from Sand bailer)			140 142 144 146 148	0.1'			16,18,29		30 gallons of water to augers Simulprobe sample 149'-150.5' (2 ug/L)
Sand, fine grained with trace medium grains. Grayish brown, well sorted, wet			150 152 154 156 158	<0.1'			25,22,48		Added approximately 30 gallons of water to augers Bentonite Grout 2" Galvanized Casing Simulprobe sample 159'-160.5' (3 ug/L)
Sand, medium to fine grained with trace coarse grains; trace Gravel, fine. Grayish brown, moderately sorted, wet (sample obtained from Sand bailer)			160 162 164 166 168	0'			75,150		Added approximately 30 gallons of water to augers #6 Sand Pack Simulprobe sample 169'-170.5' (33 ug/L)
as above			170 172 174	1.2'			37,57, 100 (3")		2" Stainless Steel Screen (10 slot) set between 169 and 174 feet bgs