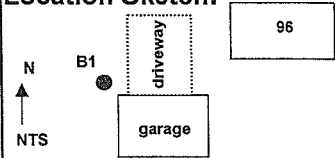


APPENDIX C
BORING LOGS

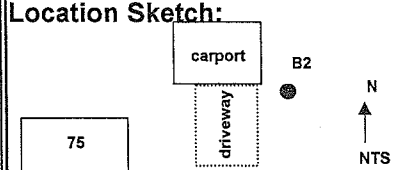
Driller: <u>Nothnagle</u> Inspector: <u>S. Pepling</u> Rig Type: <u>CME-85</u> Drilling Method: <u>3 1/4-in HSA, Macro Core</u>	Dvirka and Bartilucci Boring Log Project Name: <u>AVM Gowanda</u> Project #: <u>2184</u> Boring Depth: <u>27'</u>	Boring ID : <u>B-1</u> Sheet <u>1</u> of <u>2</u> Location: <u>SW side 96</u> <u>chestnut, NW garage</u>
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	Groundwater Observations	Start (Date & Time): <u>6/1/04 - 1237</u>	Location Sketch: 
Date		Finish (Date & Time): <u>6/1/04 - 1505</u>	
Time		Weather: <u>Partly cloudy, warm upper 60s F,</u>	
DTW		wind <u>2-5 mph from SW</u>	
Casing/Total Depth		Elevation of Ground Surface: _____	

Sample Interval	Sample No.	Blows	PID (ppm)	Field Description	Well Schematic	Comments
0-4	1238	1	0.0	Moderate yellowish brown (10 YR 5/4) SILT and f-SAND , trace f-m gravel (subrnd) (damp) (loose)		
	2.6'	1				
		1				
		3				
		2				
		4				
		11				
		9				
		9				
4-8	1250	17	0.0	Moderate yellowish brown (10 YR 5/4) f-c SAND and f-c GRAVEL (subrnd), little silt (damp-moist) (loose)		
	2.8'	12				
		9				
		14				
		11				
		17				
8-12	1310	7	0.0	same (wet)		Wet at 8' bg
	2.6'	10				
		9				
		8				
		7				
		16				
		27				
12-16	1318	15	0.0	Brownish gray (5 YR 4/1) f-SAND , some Silt (damp) (compact)		
	2.9'	22				
		23				
		16				
		18				
		24				
		42				
16-20	1330	14	0.0	same		
	4.0'	15				
		17				
		31				
		31				
		33				
		51				
		70				

Soil Stratigraphy Summary _____

Driller: <u>Nothnagle</u> Inspector: <u>S. Pepling</u> Rig Type: <u>CME-85</u> Drilling Method: <u>3 1/4-in HSA, Macro Core</u>	Dvirka and Bartilucci Boring Log Project Name: <u>AVM Gowanda</u> Project #: <u>2184</u> Boring Depth: <u>28'</u>	Boring ID : <u>B-2</u> Sheet <u>1</u> of <u>2</u> Location: <u>NE corner</u> <u>75 Torrance Place</u>
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	Groundwater Observations Date: _____ Time: _____ DTW: _____ Casing/Total Depth: _____	Start (Date & Time): <u>5/25/04 - 1230</u> Finish (Date & Time): <u>5/25/04 - 1530</u> Weather: <u>Overcast, warm lower 60s F.</u> wind calm Elevation of Ground Surface: _____	Location Sketch: 
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Sample Interval	Sample No.	Blows	PID (ppm)	Field Description	Well Schematic	Comments
0-4	1232 3.2'	12/4'	0.0	Dusky brown (5 YR 2/2) SILT , some f-Sand, trace f- gravel (damp) (firm) Moderate yellowish brown (10 YR 5/4) f-SAND , some Silt (moist) (loose)		
4-8	1235 3.4'	21/4'	0.0	same		Wet at 5.5' bg
8-12	1256 1.7'	79/4'	0.0	Moderate yellowish brown (10 YR 5/4) f-c SAND , some f-m Gravel (subrnd), some silt (wet) (loose)		
12-16	1256 3.0'	89/4'	0.0	same		Install temporary 1-inch PVC well, 10 ft screen after sampling to 16 ft bg hole collapsed to 10 ft bg 1320 - collect groundwater sample AVM-B2 for TCL VOCs Sample not submitted
16-20	1330 3.8'	>200/4'	0.0	Olive gray (5 Y 4/1) f-SAND , little silt, trace f-gravel (wet) (loose) Olive gray (5 Y 4/1) f-SAND , little-some silt (wet) (loose)		

Soil Stratigraphy Summary _____

Driller: <u>Nothnagle</u> Inspector: <u>S. Pepling</u> Rig Type: <u>Geoprobe 6610 DT</u> Drilling Method: <u>3 1/4-in HSA, Macro Core</u>	Dvirka and Bartilucci Boring Log Project Name: <u>AVM Gowanda</u> Project #: <u>2184</u> Boring Depth: <u>36'</u>	Boring ID : <u>B-3</u> Sheet <u>1</u> of <u>2</u> Location: <u>NW corner</u> <u>69 Torrance Place</u>
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Date Time DTW Casing/Total Depth	Groundwater Observations	Start (Date & Time): <u>6/3/04 - 0950</u> Finish (Date & Time): <u>6/3/04 - 1450</u> Weather: <u>Partly cloudy, warm lower 60s F</u> Elevation of Ground Surface: _____	Location Sketch:
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Sample Interval	Sample No.	Blows	PID (ppm)	Field Description	Well Schematic	Comments		
0-4	0953	NR	0.0	Dusky brown (5 YR 2/2) SILT , some f-m Sand, (damp) (loose)				
	2.9'			Moderate yellowish brown (10 YR 5/4) SILT , little f-sand (damp) (firm)				
				Moderate yellowish brown (10 YR 5/4) f-m SAND , little silt (damp) (loose)				
				Moderate yellowish brown (10 YR 5/4) f- SAND , some Silt (moist-wet) (loose)				
4-8	0956	NR	0.0	same				Wet at 4.9' bg
	3.6'							
8-10.5	0959	NR	0.0	same				
	1.6'							
10.5-13	1002	NR	0.0	becomes Dark yellowish brown (10 YR 4/2) same				
	1.4'							
13-16	1010	NR	0.0	Olive gray (5 Y 4/1) f-SAND , little silt (wet) (compact)		sampled to 16 ft bg, then spun casing to 14 ft bg		
	2.6'			Olive gray (5 Y 4/1) CLAY and SILT , trace f-gravel (subang) (damp) (stiff)				
14-17	1040	NR	0.0					
	3.1'							
17-19	1050	NR	0.0	same				
	2.1'							
19-22	1107	NR	0.0	same				
	3.2'							

Soil Stratigraphy Summary _____

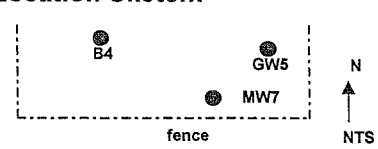
Driller: <u> Nothnagle </u> Inspector: <u> S. Pepling </u> Rig Type: <u> Geoprobe 6610 DT </u> Drilling Method: <u> 3 1/4-in HSA, Macro Core </u>	Dvirka and Bartilucci Boring Log Project Name: <u> AVM Gowanda </u> Project #: <u> 2184 </u> Boring Depth: <u> 36' </u>	Boring ID : <u> B-3 </u> Sheet <u> 2 </u> of <u> 2 </u> Location: <u> NW corner </u> <u> 69 Torrance Place </u>
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	Groundwater Observations Date: _____ Time: _____ DTW: _____ Casing/Total Depth: _____	Start (Date & Time): <u> 6/3/04 - 0950 </u> Finish (Date & Time): <u> 6/3/04 - 1450 </u> Weather: <u> Partly cloudy, warm lower 60s F </u> Elevation of Ground Surface: _____	Location Sketch:
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Sample Interval	Sample No.	Blows	PID (ppm)	Field Description	Well Schematic	Comments
19-22	1107 3.2'	NR	0.0			
22-25	1119 NM	NR	0.0	Olive gray (5 Y 4/1) f-SAND , little silt (moist) (compact)		Macro Core 22-25 ft stuck in tube, mixed up on release
				Olive gray (5 Y 4/1) SILT , little clay (damp) (stiff)		
				Olive gray (5 Y 4/1) f-SAND , little silt (moist) (compact)		
25-27	1140 NM	NR	0.0	same		
27-29				same		
29-33	1338 2.0'	NR	0.0	same		Macro Cored to 29 ft then advanced HSAs to 29 ft to continue
				Olive gray (5 Y 4/1) CLAY and SILT , with interbeds of f-SAND (damp) (hard)		Install temporary 1-inch PVC well, 10 ft screen, 20 ft riser
33-36	1405 1.7'	NR	0.0	Olive gray (5 Y 4/1) CLAY and SILT (damp) (hard)		1430 - collect groundwater sample AVM-B3 for TCL VOCs
				EOB at 36 ft bg		

Soil Stratigraphy Summary _____

Driller: <u>Nothnagle</u>	Dvirka and Bartilucci Boring Log	Boring ID : <u>B-4</u>
Inspector: <u>S. Pepling</u>	Project Name: <u>AVM Gowanda</u>	Sheet <u>1</u> of <u>2</u>
Rig Type: <u>CME-85</u>	Project #: <u>2184</u>	Location: <u>south center</u>
Drilling Method: <u>3 1/4-in HSA, Macro Core</u>	Boring Depth: <u>24'</u>	<u>former lumber yard</u>

Date Time DTW Casing/Total Depth	Groundwater Observations		Start (Date & Time): <u>5/28/04 - 1250</u>	Location Sketch: 
			Finish (Date & Time): <u>5/28/04 - 1420</u>	
			Weather: <u>Overcast, cool lower 60s F,</u>	
			wind <u>2-10 mph from SE</u>	
			Elevation of Ground Surface: _____	

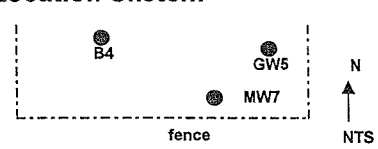
Sample Interval	Sample No.	Blows	PID (ppm)	Field Description	Well Schematic	Comments
0-4	1252	2	0.0	Moderate brown (5 YR 3/4) SILT , some f-m Sand, trace f-m gravel (damp) (soft)		
	2.3'					
		2				
		4				
		6				
4-8	1300	10	0.0	Moderate yellowish brown (10 YR 5/4) f-SAND , little silt (moist) (loose)		
	2.8'	6				
		3				
		3				
		4				
		6				
8-12	1306	27	0.0	same		
	2.5'	16				
		25				
		22				
		17				
		17				
12-16	1312	8	0.0	same		
	2.5'	14				
		6				
		7				
		12				
		10				
16-20	1320	13	0.0	same		
	2.0'	22				
		22				
		41				
		54				
		30				
	36					
	30					

Wet at 10.5' bg

Macro cored to 20 ft, then 3 1/4 HSA to 20 ft, then 2-in split spoon to 24 ft

Soil Stratigraphy Summary _____

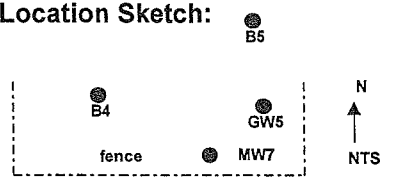
Driller: <u>Nothnagle</u> Inspector: <u>S. Pepling</u> Rig Type: <u>CME-85</u> Drilling Method: <u>3 1/4-in HSA, Macro Core</u>	Dvirka and Bartilucci Boring Log Project Name: <u>AVM Gowanda</u> Project #: <u>2184</u> Boring Depth: <u>24'</u>	Boring ID : <u>B-4</u> Sheet <u>2</u> of <u>2</u> Location: <u>south center</u> <u>former lumber yard</u>
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	Groundwater Observations Date: _____ Time: _____ DTW: _____ Casing/Total Depth: _____	Start (Date & Time): <u>5/28/04 - 1250</u> Finish (Date & Time): <u>5/28/04 - 1420</u> Weather: <u>Overcast, cool lower 60s F,</u> <u>wind 2-10 mph from SE</u> Elevation of Ground Surface: _____	Location Sketch: 
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Sample Interval	Sample No.	Blows	PID (ppm)	Field Description	Well Schematic	Comments
20-22	1356	2	0.0	Brownish gray (5 YR 4/1) CLAY and SILT , trace f- gravel (subang) (moist) (stiff)		
	1.0'	3				
		7				
		10				
22-24	1400	7	0.0	same		
	1.1'	9				
		11				
		11				
				EOB at 24 ft bg		Install temporary 1-inch PVC well, 10 ft screen 10 ft riser 6/1/04 0750 - collect groundwater sample AVM-B4 for TCL VOCs

Soil Stratigraphy Summary _____

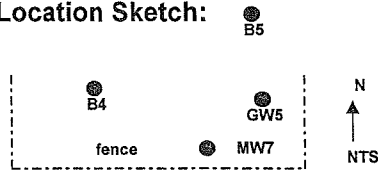
Driller: <u> Nothnagle </u> Inspector: <u> S. Pepling </u> Rig Type: <u> CME-85 </u> Drilling Method: <u> 3 1/4-in HSA, Macro Core </u>	Dvirka and Bartilucci Boring Log Project Name: <u> AVM Gowanda </u> Project #: <u> 2184 </u> Boring Depth: <u> 24' </u>	Boring ID : <u> B-5 </u> Sheet <u> 1 </u> of <u> 2 </u> Location: <u> east side </u> <u> former lumber yard </u>
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	Groundwater Observations	Start (Date & Time): <u> 5/28/04 - 1428 </u>	Location Sketch: 
Date		Finish (Date & Time): <u> 5/28/04 - 1530 </u>	
Time		Weather: <u> Mostly cloudy, cool lower 60s F, </u>	
DTW		wind <u> 2-5 mph from SW </u>	
Casing/Total Depth		Elevation of Ground Surface: <u> </u>	

Sample Interval	Sample No.	Blows	PID (ppm)	Field Description	Well Schematic	Comments			
/	0-4	1430	1	0.0	Grayish brown (5 YR 3/2) SILT and f- SAND (damp-moist) (firm) Dark yellowish brown (10 YR 4/2) f-c SAND , some f-c Gravel, little silt (damp) (loose) Dusky brown (5 YR 2/2) f- SAND , some Silt (damp) (loose) Moderate yellowish brown (10 YR 5/4) f-c SAND and f-c GRAVEL (subrnd), little silt (damp) (loose) same same (becomes wet) Olive gray (5 Y 4/1) f-SAND and SILT (wet) (stiff)				
		2.7'	1						
			1						
			5						
			7						
			6						
			7						
/	4-8	1435	1	0.0					
		2.5'	2						
			2						
			4						
			8						
			8						
/	8-12	1445	10	0.0					
		2.4'	21						
			20						
			14						
			16						
			23						
			16						
/	12-16	1453	4	0.0		Wet at 12.5' bg			
		2.6'	13						
			22						
			18						
			24						
			14						
/	16-20	1509	13	0.0					
		2.4'	11						
			12						
			14						
			11						
			12						
			23						
		35							

Soil Stratigraphy Summary _____

Driller: <u> Nothnagle </u> Inspector: <u> S. Pepling </u> Rig Type: <u> CME-85 </u> Drilling Method: <u> 3 1/4-in HSA, Macro Core </u>	Dvirka and Bartilucci Boring Log Project Name: <u> AVM Gowanda </u> Project #: <u> 2184 </u> Boring Depth: <u> 24' </u>	Boring ID : <u> B-5 </u> Sheet <u> 2 </u> of <u> 2 </u> Location: <u> east side </u> <u> former lumber yard </u>
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	Groundwater Observations	Start (Date & Time): <u> 5/28/04 - 1428 </u>	Location Sketch: 
Date		Finish (Date & Time): <u> 5/28/04 - 1530 </u>	
Time		Weather: <u> Mostly cloudy, cool lower 60s F, </u>	
DTW		wind <u> 2-5 mph from SW </u>	
Casing/Total Depth		Elevation of Ground Surface: <u> </u>	

Sample Interval	Sample No.	Blows	PID (ppm)	Field Description	Well Schematic	Comments
20-24	1515	10	0.0	Brownish gray (5 YR 4/1) CLAY and SILT , trace f- gravel (subang) (moist) (stiff) 0.01' thick f-SAND layer at 21.5'		
	3.0'	13				
		16				
		14				
		16				
		21				
		24				
	28					
				EOB at 24 ft bg		Install temporary 1-inch PVC well, 10 ft screen 10 ft riser 6/1/04 0808 - collect groundwater sample AVM-B5 for TCL VOCs

Soil Stratigraphy Summary _____

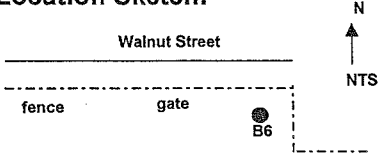
Driller: <u>Nothnagle</u> Inspector: <u>S. Pepling</u> Rig Type: <u>CME-85</u> Drilling Method: <u>3 1/4-in HSA, Macro Core</u>	Dvirka and Bartilucci Boring Log Project Name: <u>AVM Gowanda</u> Project #: <u>2184</u> Boring Depth: <u>28'</u>	Boring ID : <u>B-6</u> Sheet <u>1</u> of <u>2</u> Location: <u>NE corner</u> <u>former lumber yard</u>
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Date Time DTW Casing/Total Depth	Groundwater Observations	Start (Date & Time): <u>6/4/04 - 0904</u> Finish (Date & Time): <u>6/4/04 - 1144</u> Weather: <u>Mostly sunny, cool lower 50s F,</u> <u>wind calm</u> Elevation of Ground Surface: _____	Location Sketch:
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Sample Interval	Sample No.	Blows	PID (ppm)	Field Description	Well Schematic	Comments
0-4	0906 3.2'	NR	0.0	Moderate brown (5 YR 3/4) SILT , some f-m Sand, trace f-m gravel (damp) (soft) Moderate yellowish brown (10 YR 5/4) f- SAND and SILT (damp) (firm) Moderate yellowish brown (10 YR 5/4) f-c SAND , some Silt, trace f-m gravel (damp) (loose) becomes f-c SAND , little silt (damp) (loose)		
4-8	0908 2.8'	NR	0.0	Moderate yellowish brown (10 YR 5/4) f- SAND and SILT , trace f-m gravel (damp) (firm) Moderate yellowish brown (10 YR 5/4) f-c SAND and f-c GRAVEL (subrnd), little silt (damp) (loose)		
8-12	0925 2.2'	NR	0.0	same		
12-16	0930 1.7'	NR	0.0	same becomes wet		Wet at 12.5' bg
16-20	0942 3.3'	NR	0.0	becomes Olive gray (5 Y 4/1) same Olive gray (5 Y 4/1) f-SAND , some Silt (moist) (compact)		

Soil Stratigraphy Summary _____

Driller: <u> Nothnagle </u>	Dvirka and Bartilucci Boring Log	Boring ID : <u> B-6 </u>
Inspector: <u> S. Pepling </u>	Project Name: <u> AVM Gowanda </u>	Sheet <u> 2 </u> of <u> 2 </u>
Rig Type: <u> CME-85 </u>	Project #: <u> 2184 </u>	Location: <u> NE corner </u>
Drilling Method: <u> 3 1/4-in HSA, Macro Core </u>	Boring Depth: <u> 28' </u>	<u> former lumber yard </u>

Date Time DTW Casing/Total Depth	Groundwater Observations	Start (Date & Time): <u> 6/4/04 - 0904 </u>	Location Sketch: 
		Finish (Date & Time): <u> 6/4/04 - 1144 </u>	
		Weather: <u> Mostly sunny, cool lower 50s F, </u>	
		wind calm	
		Elevation of Ground Surface: _____	

Sample Interval	Sample No.	Blows	PID (ppm)	Field Description	Well Schematic	Comments
20-22	0955 4.0'	NR	0.0	Olive gray (5 Y 4/1) f-SAND , some Silt (moist) (compact)		
				Brownish gray (5 YR 4/1) CLAY and SILT (damp) (stiff)		varved
24-28	1010 3.8'	NR	0.0	same		Install temporary 1-inch PVC well, 10 ft screen 20 ft riser
				Brownish gray (5 YR 4/1) f-SAND , some Silt (moist-wet) (v. compact)		1125 - collect groundwater sample AVM-B6 for TCL VOCs
				EOB at 28 ft bg		

Soil Stratigraphy Summary _____

Driller: Nothnagle
 Inspector: S. Pepling
 Rig Type: CME-85
 Drilling Method: Macro Core

Dvirka and Bartilucci Boring Log
 Project Name: AVM Gowanda
 Project #: 2184
 Boring Depth: 8'

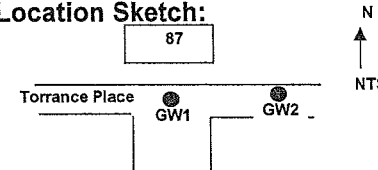
Boring ID : GW-1
 Sheet 1 of 1
 Location: N side of
Torrance, S of 87

Date Time DTW Casing/Total Depth	Groundwater Observations		Start (Date & Time): <u>5/24/04 - 1515</u>	Location Sketch:
			Finish (Date & Time): <u>5/24/04 - 1547</u>	
			Weather: <u>see logbook</u>	
			Elevation of Ground Surface: _____	

Sample Interval	Sample No.	Blows	PID (ppm)	Field Description	Well Schematic	Comments
0-4	1517	NR	0.0	Asphalt and subbase		
	2.2'			Moderate yellowish brown (10 YR 5/4) f-m SAND , some Silt, trace f-m gravel (damp) (loose)		
				Moderate yellowish brown (10 YR 5/4) f-c SAND , some Silt, trace f-m gravel (damp) (loose)		
4-8	1525	NR	0.0	same		
	2.7'			becomes f-c SAND , some f-c Gravel, some Silt (moist-wet) (loose)		Wet at 5.5' bg
				EOB at 8 ft bg		Install temporary 1-inch PVC well, 10 ft screen
						1545 - collect groundwater sample AVM-GW1 for TCLVOCs

Soil Stratigraphy Summary _____

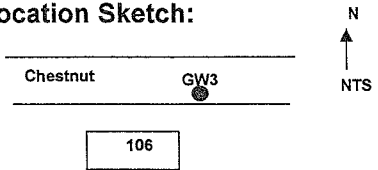
Driller: <u>Nothnagle</u> Inspector: <u>S. Pepling</u> Rig Type: <u>CME-85</u> Drilling Method: <u>Macro Core</u>	Dvirka and Bartilucci Boring Log Project Name: <u>AVM Gowanda</u> Project #: <u>2184</u> Boring Depth: <u>12'</u>	Boring ID : <u>GW-2</u> Sheet <u>1</u> of <u>1</u> Location: <u>E of GW1</u> <u>SE of 87 Torrance</u>
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Date Time DTW Casing/Total Depth	Groundwater Observations	Start (Date & Time): <u>6/1/04 - 1128</u> Finish (Date & Time): <u>6/1/04 - 1158</u> Weather: <u>Mostly sunny, upper 60s F,</u> <u>wind 2-5 mph from SW</u> Elevation of Ground Surface: _____	Location Sketch: 
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Sample Interval	Sample No.	Blows	PID (ppm)	Field Description	Well Schematic	Comments
0-4	1130 3.0'	NR	0.0	Asphalt and gravel subbase Moderate yellowish brown (10 YR 5/4) f-c SAND , some Gravel (subang), little silt (damp) (loose)		
				Moderate yellowish brown (10 YR 5/4) f- SAND , some Silt (damp-moist)		
4-8	1133 2.8	NR	0.0	Moderate yellowish brown (10 YR 5/4) f-c SAND and f-c GRAVEL (subrnd), little silt (damp-moist) (loose)		
8-12	1138 2.6'	NR	0.0	same		Wet at 8.5' bg
				EOB at 12 ft bg		Install temporary 1-inch PVC well, 10 ft screen 1157 - collect groundwater sample AVM-GW2 for TCLVOCs

Soil Stratigraphy Summary _____

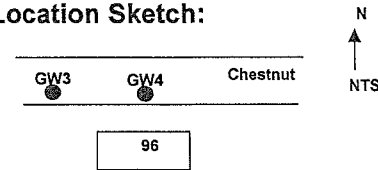
Driller: <u>Nothnagle</u> Inspector: <u>S. Pepling</u> Rig Type: <u>CME-85</u> Drilling Method: <u>Macro Core</u>	Dvirka and Bartilucci Boring Log Project Name: <u>AVM Gowanda</u> Project #: <u>2184</u> Boring Depth: <u>12'</u>	Boring ID : <u>GW-3</u> Sheet <u>1</u> of <u>1</u> Location: <u>S side of Chestnut, N of 106</u>
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	Groundwater Observations Date Time DTW Casing/Total Depth	Start (Date & Time): <u>5/24/04 - 1254</u> Finish (Date & Time): <u>5/24/04 - 1335</u> Weather: <u>see logbook</u> Elevation of Ground Surface: _____	Location Sketch: 
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Sample Interval	Sample No.	Blows	PID (ppm)	Field Description	Well Schematic	Comments		
0-4	1258	NR	0.0	Asphalt and gravel subbase		Wet at 6.0' bg		
	2.4'			Moderate yellowish brown (10 YR 5/4) CLAY and SILT (damp) (firm)				
4-8	1303	NR	0.0	Moderate yellowish brown (10 YR 5/4) f-m SAND and SILT , trace f-m gravel (damp) (loose)				
	2.7			same				
8-12	1311	NR	0.0	Moderate yellowish brown (10 YR 5/4) f-c SAND , some f-m Gravel (subrnd), little silt (wet) (loose)				
	3.0'			same				
				Dark yellowish brown (10 YR 4/2) f- SAND , some Silt, trace c-sand (wet) (loose)				
								EOB at 12 ft bg
								Install temporary 1-inch PVC well, 10 ft screen
								1330 - collect groundwater sample AVM-GW3 for TCLVOCs

Soil Stratigraphy Summary _____

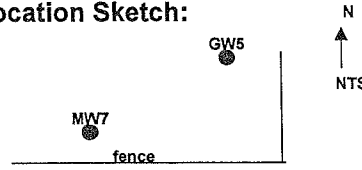
Driller: <u> Nothnagle </u> Inspector: <u> S. Pepling </u> Rig Type: <u> CME-85 </u> Drilling Method: <u> Macro Core </u>	Dvirka and Bartilucci Boring Log Project Name: <u> AVM Gowanda </u> Project #: <u> 2184 </u> Boring Depth: <u> 12' </u>	Boring ID : <u> GW-4 </u> Sheet <u> 1 </u> of <u> 1 </u> Location: <u> N of 96 </u> <u> Chestnut, E of GW-3 </u>
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	Groundwater Observations	Start (Date & Time): <u> 6/1/04 - 0935 </u>	Location Sketch: 
Date		Finish (Date & Time): <u> 6/1/04 - 1012 </u>	
Time		Weather: <u> Partly cloudy, low 60s F </u>	
DTW		wind <u> 2-5 mph from SW </u>	
Casing/Total Depth		Elevation of Ground Surface: <u> </u>	

Sample Interval	Sample No.	Blows	PID (ppm)	Field Description	Well Schematic	Comments
0-4	0943	NR	0.0	Asphalt and gravel subbase		
	2.6'			Brick		
				Medium light gray (N 6) f-c GRAVEL (subang) and f-c SAND (dry) (loose)		
				Moderate yellowish brown (10 YR 5/4) f- SAND and SILT , little clay (damp) (loose)		
4-8	0947	NR	0.0	same		
	2.2					
				Moderate yellowish brown (10 YR 5/4) f-c SAND and f-c GRAVEL (subrnd), little silt (moist-wet) (loose)		Wet at 6.5' bg
8-12	0955	NR	0.0	same		
	4.0'					
				Brownish gray (5 YR 4/1) CLAY and SILT , trace f-gravel (subang) (dry-damp) (hard)		
				EOB at 12 ft bg		Install temporary 1-inch PVC well, 10 ft screen
						1010 - collect groundwater sample AVM-GW4 for TCLVOCs

Soil Stratigraphy Summary _____

Driller: <u>Nothnagle</u> Inspector: <u>S. Pepling</u> Rig Type: <u>CME-85</u> Drilling Method: <u>Macro Core</u>	Dvirka and Bartilucci Boring Log Project Name: <u>AVM Gowanda</u> Project #: <u>2184</u> Boring Depth: <u>14'</u>	Boring ID : <u>GW-5</u> Sheet <u>1</u> of <u>1</u> Location: <u>ESE side</u> <u>former lumber yard</u>
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	Groundwater Observations Date: _____ Time: _____ DTW: _____ Casing/Total Depth: _____	Start (Date & Time): <u>5/24/04 - 1053</u> Finish (Date & Time): <u>5/24/04 - 1155</u> Weather: <u>see logbook</u> Elevation of Ground Surface: _____	Location Sketch: 
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Sample Interval	Sample No.	Blows	PID (ppm)	Field Description	Well Schematic	Comments
0-4	1056 2.7'	NR	0.0	Moderate yellowish brown (10 YR 5/4) SILT and f- SAND (damp-moist) (loose)		
4-8	1103 3.1'	NR	0.0	same Moderate yellowish brown (10 YR 5/4) f-m SAND , some f-m Gravel (subrnd), some Silt (damp-moist) (loose)		
8-10	1109 1.1'	NR	0.0	same		
10-14	1116 3.3'	NR	0.0	same Olive gray (5 Y 4/1) SILT and CLAY , trace f-gravel (subang) (dry) (compact) EOB at 14 ft bg		Wet at 12.5' bg
						Install temporary 1-inch PVC well, 10 ft screen
						1145 - collect groundwater sample AVM-GW5 for TCLVOCs

Soil Stratigraphy Summary _____

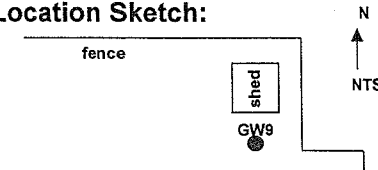
Driller: <u>Nothnagle</u> Inspector: <u>S. Pepling</u> Rig Type: <u>CME-85</u> Drilling Method: <u>3 1/4-in HSA, Macro Core</u>	Dvirka and Bartilucci Boring Log Project Name: <u>AVM Gowanda</u> Project #: <u>2184</u> Boring Depth: <u>19'</u>	Boring ID : <u>GW-6</u> Sheet <u>1</u> of <u>1</u> Location: <u>E of MW7, SE corner frmr lmbr yrd</u>
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	Groundwater Observations Date: _____ Time: _____ DTW: _____ Casing/Total Depth: _____	Start (Date & Time): <u>6/1/04 - 0818</u> Finish (Date & Time): <u>6/1/04 - 0920</u> Weather: <u>Partly cloudy, cool low 50s F</u> Elevation of Ground Surface: _____	Location Sketch:
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Sample Interval	Sample No.	Blows	PID (ppm)	Field Description	Well Schematic	Comments	
0-4	0819	1	0.0	Moderate brown (5 YR 3/4) SILT and f-m GRAVEL , little f-c sand (damp) (loose)			
	3.1'	1					
		2					Moderate yellowish brown (10 YR 5/4) f- SAND , little silt (moist) (loose)
		3					
		2					
		3					
	5						
	6			Moderate yellowish brown (10 YR 5/4) f-c SAND and f-c GRAVEL (subrnd), little silt (damp) (loose)			
4-8	0825	4	0.0				
	2.6'	2					
		2					
		4					
		5					
		14					
		12					
		12					
8-12	0833	11	0.0	same		Wet at 10' bg	
	2.2'	19					
		13					
		14					
		10					
		6					
		5					
		5					
12-16	0845	7	0.0	same		Install temporary 1-inch PVC well, 10 ft screen	
	1.9'	9					
		21					
		12					
		56					
		22					
		21		Brownish gray (5 YR 4/1) CLAY and SILT , trace f-m gravel (subang) (damp) (hard)			
		23					
16-20	0852	14	0.0	same		0920 - collect groundwater sample AVM-GW6 for TCLVOCs	
	0.5'	14					
		28					
		32					
		58					
		86					
				EOB at 19 ft bg			

Soil Stratigraphy Summary _____

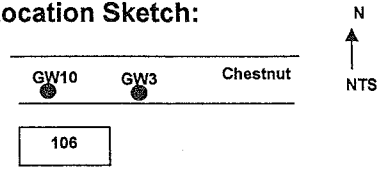
Driller: <u>Nothnagle</u> Inspector: <u>S. Pepling</u> Rig Type: <u>CME-85</u> Drilling Method: <u>Macro Core</u>	Dvirka and Bartilucci Boring Log Project Name: <u>AVM Gowanda</u> Project #: <u>2184</u> Boring Depth: <u>16'</u>	Boring ID : <u>GW-9</u> Sheet <u>1</u> of <u>1</u> Location: <u>east side</u> <u>former lumber yard</u>
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	Groundwater Observations	Start (Date & Time): <u>6/4/04 - 0828</u>	Location Sketch: 
Date		Finish (Date & Time): <u>6/4/04 - 0910</u>	
Time		Weather: <u>Mostly sunny, cool low 50s F</u>	
DTW		<u>calm</u>	
Casing/Total Depth		Elevation of Ground Surface: _____	

Sample Interval	Sample No.	Blows	PID (ppm)	Field Description	Well Schematic	Comments
0-4	0830 3.6'	NR	0.0	Moderate brown (5 YR 3/4) SILT , some f-m Sand, trace f-m gravel (damp) (soft) Moderate yellowish brown (10 YR 5/4) f-SAND , some Silt (damp) (loose)		
4-8	0835 3.1'	NR	0.0	same Moderate yellowish brown (10 YR 5/4) f-c SAND , some Silt, trace f-m gravel (damp) (loose) Moderate yellowish brown (10 YR 5/4) f-c SAND and f-c GRAVEL (subrnd), little silt (damp) (firm)		
8-12	0840 1.0'	NR	0.0	same		
12-16	0850 2.0'	NR	0.0	same becomes Olive gray (5 Y 4/1)		Wet at 12' bg
				EOB at 16 ft bg		Install temporary 1-inch PVC well, 10 ft screen, 10 ft riser 0907 - collect groundwater sample AVM-GW9 for TCLVOCs

Soil Stratigraphy Summary _____

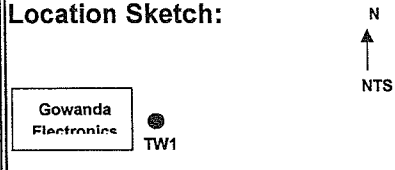
Driller: <u> Nothnagle </u> Inspector: <u> S. Pepling </u> Rig Type: <u> CME-85 </u> Drilling Method: <u> Macro Core </u>	Dvirka and Bartilucci Boring Log Project Name: <u> AVM Gowanda </u> Project #: <u> 2184 </u> Boring Depth: <u> 12' </u>	Boring ID : <u> GW-10 </u> Sheet <u> 1 </u> of <u> 1 </u> Location: <u> S side of </u> <u> Chestnut, W of GW-3 </u>
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	Groundwater Observations	Start (Date & Time): <u> 6/3/04 - 0840 </u>	Location Sketch: 
Date		Finish (Date & Time): <u> 6/3/04 - 0930 </u>	
Time		Weather: <u> Mostly cloudy, upper 50s F </u>	
DTW			
Casing/Total Depth		Elevation of Ground Surface: <u> </u>	

Sample Interval	Sample No.	Blows	PID (ppm)	Field Description	Well Schematic	Comments
0-4	0845	NR	0.0	Asphalt and gravel subbase		
	3.0'			Brick		
				Dark gray (N 3) m-c GRAVEL , some f-c Sand (dry)		
				Moderate yellowish brown (10 YR 5/4) SILT and f- SAND (damp) (loose)		
				Moderate yellowish brown (10 YR 5/4) f-c SAND , some f-c Gravel (subang), little silt (damp) (loose)		
4-8	0851	NR	0.0	same		
	2.5					
				Moderate yellowish brown (10 YR 5/4) f-c SAND and f-c GRAVEL (subrnd), little silt (moist-wet) (loose)		Wet at 7' bg
8-12	0856	NR	0.0	same		
	3.2'					
				Moderate yellowish brown (10 YR 5/4) f- SAND , little silt (wet) (loose)		
				Olive gray (5 Y 4/1) f-SAND , little silt (wet) (loose)		
				EOB at 12 ft bg		Install temporary 1-inch PVC well, 10 ft screen
						0920 - collect groundwater sample AVM-GW10 for TCLVOC

Soil Stratigraphy Summary _____

Driller: <u>Nothnagle</u> Inspector: <u>S. Pepling</u> Rig Type: <u>CME-85</u> Drilling Method: <u>10¹/₄-in HSA & 4-in mud</u>	Dvirka and Bartilucci Boring Log Project Name: <u>AVM Gowanda</u> Project #: <u>2184</u> Boring Depth: <u>155'</u>	Boring ID : <u>TW-1</u> Sheet <u>1</u> of <u>8</u> Location: <u>east side</u> Gowanda Electronics
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Date Time DTW Casing/Total Depth	Groundwater Observations	Start (Date & Time): <u>5/25/04 - 0819</u>	Location Sketch: 
		Finish (Date & Time): <u>6/2/04 - 1454</u>	
		Weather: <u>see logbook</u>	
		Elevation of Ground Surface: _____	

Sample Interval	Sample No.	Blows	PID (ppm)	Field Description	Well Schematic	Comments
0-4	0821 2.2'	NR	0.0	Moderate brown (5 YR 4/4) f-c SAND , little silt trace f- gravel (damp) (losse)		borehole abandoned by tremie grouting on 6/2/04
4-8	0825 1.9'	NR	0.0	same Moderate yellowish brown (10 YR 5/4) f-c SAND and SILT , some f-m Gravel (subrnd) (wet) (loose)		wet at 6 ft bg
8-12	0830 1.8'	NR	0.0	same becomes Olive gray (5 Y 4/1) f-c GRAVEL (subrnd) and SILT , some f-c Sand (wet) (loose)		macro cored to 12 ft, then 4 ¹ / ₄ HSA to 12 ft, macro cored 12-16 ft, then 4 ¹ / ₄ HSA to 16 ft, then 10 ¹ / ₄ HSA to 16 ft
12-16	0850 0.7'	NR	0.0	Olive gray (5 Y 4/1) CLAY and SILT , trace f- gravel (subrnd) (damp) (compact)		set 8-in steel casing to 15.5 ft bg and grouted in place moved off hole 5/25/04 to let grout set Resumed drilling on 5/26/04 with 4-in mud
16-18	0847 1.8'	22 24 36 24	0.0	Brownish gray (5 YR 4/1) CLAY and SILT , trace f-m gravel (subang) (striated) (damp) (hard) vertical cylindrical parting of sample 17-18' (0.07' diam)		

Soil Stratigraphy Summary _____


Driller: <u>Nothnagle</u> Inspector: <u>S. Pepling</u> Rig Type: <u>CME-85</u> Drilling Method: <u>10¹/₄-in HSA & 4-in mud</u>	Dvirka and Bartilucci Boring Log Project Name: <u>AVM Gowanda</u> Project #: <u>2184</u> Boring Depth: <u>155'</u>	Boring ID : <u>TW-1</u> Sheet <u>2</u> of <u>8</u> Location: <u>east side</u> Gowanda Electronics
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Date Time DTW Casing/Total Depth	Groundwater Observations		Start (Date & Time): <u>5/25/04 - 0819</u>	Location Sketch:
			Finish (Date & Time): <u>6/2/04 - 1454</u>	
			Weather: <u>see logbook</u>	
			Elevation of Ground Surface: _____	

Sample Interval	Sample No.	Blows	PID (ppm)	Field Description	Well Schematic	Comments
						borehole abandoned by tremie grouting on 6/2/04
30-32	0952	22	0.0	Brownish gray (5 YR 4/1) CLAY and SILT , trace f-m gravel (subang) (striated) (damp) (hard)		varved silt parting ~31.5 ft bg
	1.7'	24				
		19				
		40				

Soil Stratigraphy Summary _____


Driller: Nothnagle Inspector: S. Pepling Rig Type: CME-85 Drilling Method: 10¹/₄-in HSA & 4-in mud	Dvirka and Bartilucci Boring Log Project Name: <u>AVM Gowanda</u> Project #: <u>2184</u> Boring Depth: <u>155'</u>	Boring ID : <u>TW-1</u> Sheet <u>3</u> of <u>8</u> Location: <u>east side</u> Gowanda Electronics
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Date _____ Time _____ DTW _____ Casing/Total Depth _____	Groundwater Observations <table border="1" style="width:100%; height: 40px; border-collapse: collapse;"> <tr><td style="width:25%;"></td><td style="width:25%;"></td><td style="width:25%;"></td><td style="width:25%;"></td></tr> <tr><td></td><td></td><td></td><td></td></tr> </table>									Start (Date & Time): <u>5/25/04 - 0819</u> Finish (Date & Time): <u>6/2/04 - 1454</u> Weather: <u>see logbook</u> Elevation of Ground Surface: _____	Location Sketch: <div style="text-align: right;"> N ↑ NTS </div> <div style="text-align: center;">  </div>

Sample Interval	Sample No.	Blows	PID (ppm)	Field Description	Well Schematic	Comments
40-42	1030	14	0.0	Brownish gray (5 YR 4/1) CLAY and SILT , trace f-m gravel (subang) (damp) (hard)		borehole abandoned by tremie grouting on 6/2/04 silt parting 0.02' thick at 40.5' and 0.05' thick at 41.0' varved
	1.8'	21				
		24				
		30				
50-52	1115	6	0.0	Brownish gray (5 YR 4/1) CLAY and SILT , (damp) (hard)		varved
	1.6'	10				
		19				
		28				

Soil Stratigraphy Summary _____

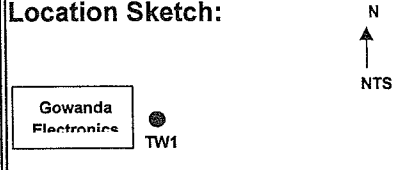
Driller: <u>Nothnagle</u> Inspector: <u>S. Pepling</u> Rig Type: <u>CME-85</u> Drilling Method: <u>10¹/₄-in HSA & 4-in mud</u>	Dvirka and Bartilucci Boring Log Project Name: <u>AVM Gowanda</u> Project #: <u>2184</u> Boring Depth: <u>155'</u>	Boring ID : <u>TW-1</u> Sheet <u>4</u> of <u>8</u> Location: <u>east side</u> Gowanda Electronics
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	Groundwater Observations	Start (Date & Time): <u>5/25/04 - 0819</u>	Location Sketch: <div style="text-align: right;">N ↑ NTS</div> 
Date		Finish (Date & Time): <u>6/2/04 - 1454</u>	
Time		Weather: <u>see logbook</u>	
DTW		Elevation of Ground Surface: _____	
Casing/Total Depth			

Sample Interval	Sample No.	Blows	PID (ppm)	Field Description	Well Schematic	Comments
60-62 /	1235	10	0.0	Brownish gray (5 YR 4/1) CLAY and SILT , (damp-moist) (stiff)		borehole abandoned by tremie grouting on 6/2/04 silt parting at 60.5' varved
	1.8'	10				
		12				
		20				
70-72 /	1330	17	0.0	Olive gray (5 Y 4/1) f-SAND , some Silt (damp)		71.5' - 0.01' thick olive gray f-SAND, some silt varved
	1.6'	24				
		25		Brownish gray (5 YR 4/1) CLAY and SILT , (damp) (hard)		
		23				

Soil Stratigraphy Summary _____


Driller: Nothnagle Inspector: S. Pepling Rig Type: CME-85 Drilling Method: 10¹/₄-in HSA & 4-in mud	Dvirka and Bartilucci Boring Log Project Name: <u>AVM Gowanda</u> Project #: <u>2184</u> Boring Depth: <u>155'</u>	Boring ID : <u>TW-1</u> Sheet <u>5</u> of <u>8</u> Location: east side Gowanda Electronics
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Date Time DTW Casing/Total Depth	Groundwater Observations	Start (Date & Time): <u>5/25/04 - 0819</u>	Location Sketch: 
		Finish (Date & Time): <u>6/2/04 - 1454</u>	
		Weather: <u>see logbook</u>	
		Elevation of Ground Surface: _____	

Sample Interval	Sample No.	Blows	PID (ppm)	Field Description	Well Schematic	Comments
80-82	1425	8	0.0	Brownish gray (5 YR 4/1) CLAY and SILT , (moist) (stiff)		borehole abandoned by tremie grouting on 6/2/04 some silt partings varved
/	2.0'	10				
/		13				
/		20				
90-92	1530	6	0.0	Brownish gray (5 YR 4/1) CLAY and SILT , (moist) (stiff)		varved stopped drilling at 90 ft bg w/ 4-in mud on 5/26/04 after collecting 90-92' sample, resumed drilling at 90 ft on 5/27/04
/	1.9'	7				
/		11				
/		13				

Soil Stratigraphy Summary _____

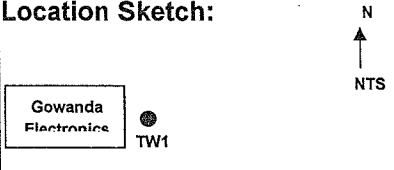
Driller: Nothnagle Inspector: S. Pepling Rig Type: CME-85 Drilling Method: 10 1/4-in HSA & 4-in mud	Dvirka and Bartilucci Boring Log Project Name: <u>AVM Gowanda</u> Project #: <u>2184</u> Boring Depth: <u>155'</u>	Boring ID : <u>TW-1</u> Sheet <u>6</u> of <u>8</u> Location: <u>east side</u> Gowanda Electronics
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Date _____ Time _____ DTW _____ Casing/Total Depth _____	Groundwater Observations	Start (Date & Time): <u>5/25/04 - 0819</u>	Location Sketch: <div style="text-align: right;">N ↑ NTS</div> 
		Finish (Date & Time): <u>6/2/04 - 1454</u>	
		Weather: <u>see logbook</u>	
		Elevation of Ground Surface: _____	

Sample Interval	Sample No.	Blows	PID (ppm)	Field Description	Well Schematic	Comments
100-102 /	0918	3	0.0	Brownish gray (5 YR 4/1) CLAY and SILT , (moist) (stiff)		borehole abandoned by tremie grouting on 6/2/04 some silt partings varved
	1.8'	6				
		8				
		11				
110-112 /	1044	6	0.0	Brownish gray (5 YR 4/1) CLAY and SILT , (moist) (stiff)		varved 116-118 encountered some gravel based on rig and fluid return
	0.8'	11				
		12				
		12				

Soil Stratigraphy Summary _____

Driller: <u>Nothnagle</u> Inspector: <u>S. Pepling</u> Rig Type: <u>CME-85</u> Drilling Method: <u>10¹/₄-in HSA & 4-in mud</u>	Dvirka and Bartilucci Boring Log Project Name: <u>AVM Gowanda</u> Project #: <u>2184</u> Boring Depth: <u>155'</u>	Boring ID : <u>TW-1</u> Sheet <u>8</u> of <u>8</u> Location: <u>east side</u> Gowanda Electronics
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Date Time DTW Casing/Total Depth	Groundwater Observations	Start (Date & Time): <u>5/25/04 - 0819</u>	Location Sketch: 
		Finish (Date & Time): <u>6/2/04 - 1454</u>	
		Weather: <u>see logbook</u>	
		Elevation of Ground Surface: _____	

Sample Interval	Sample No.	Blows	PID (ppm)	Field Description	Well Schematic	Comments
140-142	1455	14	0.0	Brownish gray (5 YR 4/1) CLAY and SILT , trace f-m gravel (subang & subrnd), trace f-c sand (damp) (hard)		borehole abandoned by tremie grouting on 6/2/04 no varving
	1.6'	21				
		40				
		34				
150-152	0757	16	0.0	Brownish gray (5 YR 4/1) CLAY and SILT , little f-m sand, trace f-m gravel (subang) (damp) (hard) thin (0.01') f-m SAND, little silt at 151'		stop drilling w/ 4-in mud on 5/27/04 at 150 ft, resume on 5/28/04 stopped at 155 ft per Village and NYSDEC no apparent fluid loss based on quantity used and quantity drummed
	1.6'	33				
		34				
		31				

Soil Stratigraphy Summary _____

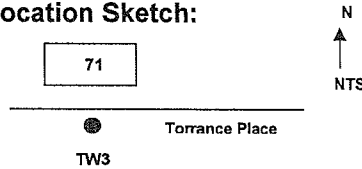
Driller: <u>Nothnagle</u>	Dvirka and Bartilucci Boring Log	Boring ID : <u>TW-2</u>
Inspector: <u>S. Pepling</u>	Project Name: <u>AVM Gowanda</u>	Sheet <u>1</u> of <u>2</u>
Rig Type: <u>CME-85</u>	Project #: <u>2184</u>	Location: <u>SW of 85</u>
Drilling Method: <u>4 1/4-in HSA, Macro Core</u>	Boring Depth: <u>28'</u>	<u>Torrance, N side st.</u>

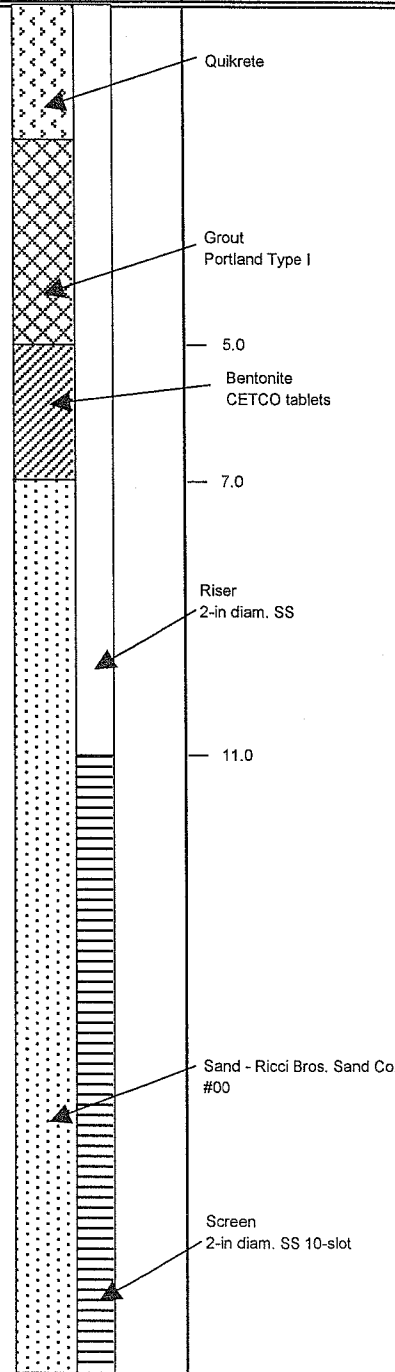
Date Time DTW Casing/Total Depth	Groundwater Observations		Start (Date & Time): <u>6/2/04 - 0819</u>	Location Sketch:
			Finish (Date & Time): <u>6/2/04 - 1235</u>	
			Weather: <u>Mostly cloudy, upper 50s F</u>	
			Elevation of Ground Surface: _____	

Sample Interval	Sample No.	Blows	PID (ppm)	Field Description	Well Schematic	Comments	
0-4	0821	24	0.0	Asphalt and gravel subbase			
	1.3'	5		Moderate yellowish brown (10 YR 5/4) f- SAND and SILT (moist) (loose)			
		3					
		3					
		3					
		2					
		2					
		2					
4-8	0824	4	0.0	same			
	3.5'	3					
		10					
		12		becomes f- SAND , little silt			
		13					
		10		Moderate yellowish brown (10 YR 5/4) f-c SAND , some			
		13		f-c Gravel (subang) (damp) (loose)			
		16					
8-12	0850	4	0.0	same (becomes wet at 8.5')			
	1.9'	2					
		1					
		8					
		7					
		6					
		4					
		4					
12-16	0910	4	0.0	same			
	1.7'	3					
		2					
		2					
		2					
		8					
		44					
16-20	0929	4	0.0	same			
	2.0'	13					
		16		Brownish gray (5 YR 4/1) f-SAND , little silt			
		37		(wet) (compact)			
		55					
		84					

Soil Stratigraphy Summary _____

Driller: <u>Nothnagle</u>	Dvirka and Bartilucci Boring Log	Boring ID : <u>TW-3</u>
Inspector: <u>S. Pepling</u>	Project Name: <u>AVM Gowanda</u>	Sheet <u>1</u> of <u>2</u>
Rig Type: <u>CME-85</u>	Project #: <u>2184</u>	Location: <u>S of 71</u>
Drilling Method: <u>4 1/4-in HSA, Macro Core</u>	Boring Depth: <u>22'</u>	<u>Torrance, N side st.</u>

Date Time DTW Casing/Total Depth	Groundwater Observations		Start (Date & Time): <u>6/3/04 - 0955</u>	Location Sketch: 
			Finish (Date & Time): <u>6/3/04 - 1300</u>	
			Weather: <u>Partly cloudy, warm low 60s F</u>	
			wind <u>2-5 mph from SW</u>	
		Elevation of Ground Surface: _____		

Sample Interval	Sample No.	Blows	PID (ppm)	Field Description	Well Schematic	Comments	
0-4	1015	NR	0.0	Asphalt and gravel subbase			
	2.4'			Moderate brown (5 YR 4/4) f-c SAND, some f-c Gravel, some Silt (damp) (loose)			
				Moderate yellowish brown (10 YR 5/4) f- SAND, little silt (damp) (loose)			
4-8	1020	NR	0.0	same			
	2.6'			Moderate yellowish brown (10 YR 5/4) f-c SAND and f-c GRAVEL (subang), little silt (damp-moist) (loose)			
8-12	1030	NR	0.0	same (becomes wet at 8.5')			
	2.3'						
12-16	1040	NR	0.0	same			
	2.8'			Dark yellowish brown (10 YR 4/2) f- SAND, some Silt, little f-m gravel (wet) (compact)			
				Dark yellowish brown (10 YR 4/2) f-c SAND and f-c GRAVEL (subrnd) (wet) (compact)			
16-18	1102	NR	0.0	same			
	0.6'						
18-22	1118	NR	0.0	same			
	2.4'			Dark yellowish brown (10 YR 4/2) CLAY and SILT, some f-c Sand, little f-m gravel (moist) (hard)			

Soil Stratigraphy Summary _____

