

Mr. Randy Whitcher New York State Department of Environmental Conservation Division of Environmental Remediation, Remedial Bureau C 625 Broadway, 11th Floor Albany, New York 12233-7014

Subject:

Proposal to Decommission Damaged On-Site Monitoring Wells Port Jervis Former MGP Site City of Port Jervis, Orange County, New York Site No. 3-36-049

Dear Mr. Whitcher:

This letter has been prepared on behalf Orange and Rockland Utilities, Inc. (O&R) to request approval from the New York State Department of Environmental Conservation (NYSDEC) to decommission certain groundwater monitoring wells located at the Port Jervis former manufactured gas plant (MGP) site. The wells in question – GRMW1, GRMW2, MW3S, MW3D, and MW5 (Figure 1) – were significantly damaged during the on-going building demolition and excavation activities at the site. O&R is requesting approval to decommission these wells due to the uncertainty associated with our ability to repair the wells and the questionable value of these wells for on-going monitoring of on-site groundwater conditions. Boring/well construction logs for monitoring wells GRMW1, GRMW2, MW3S, MW3D, and MW5 are provided in Attachment A.

Decommissioning will be performed by a drilling subcontractor of O&R's Remedial Contractor (D.A. Collins Environmental Services, LLC [DAC]) in accordance with the NYSDEC's *Groundwater Monitoring Well Decommissioning Policy* (CP-43). The specific decommissioning method – grouting in-place, pulling the casing, or overdrilling – will be determined based on the construction and current condition of each well. Waste materials generated during the decommissioning work will be transported off-site for disposal in accordance with applicable laws and regulations. The details associated with the well decommissioning will be included in the Construction Completion Report. ARCADIS of New York, Inc. 6723 Towpath Road P.O. Box 66 Syracuse New York 13214-0066 Tel 315 446 9120 Fax 315 449 0017 www.arcadis-us.com

ENVIRONMENT

Date: April 5, 2013

Contact: Margaret Carrillo-Sheridan, P.E.

Phone: 315.671.9167

Email: m.carrillo-sheridan@ arcadis-us.com

Our ref: B0043021

ARCADIS

Mr. Randy Whitcher April 5, 2013

Please contact Mr. Dave Work of O&R at 845.577.3664 with any questions or comments regarding the information provided herein.

Sincerely,

ARCADIS of New York, Inc.

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Margaret Carrillo-Sheridan, P.E. Vice President

Enclosures:

Figure 1, Monitoring Well Locations Attachment A, Boring/Well Construction Logs for Monitoring Wells GRMW1, GRMW2, MW3S, MW3D, and MW5

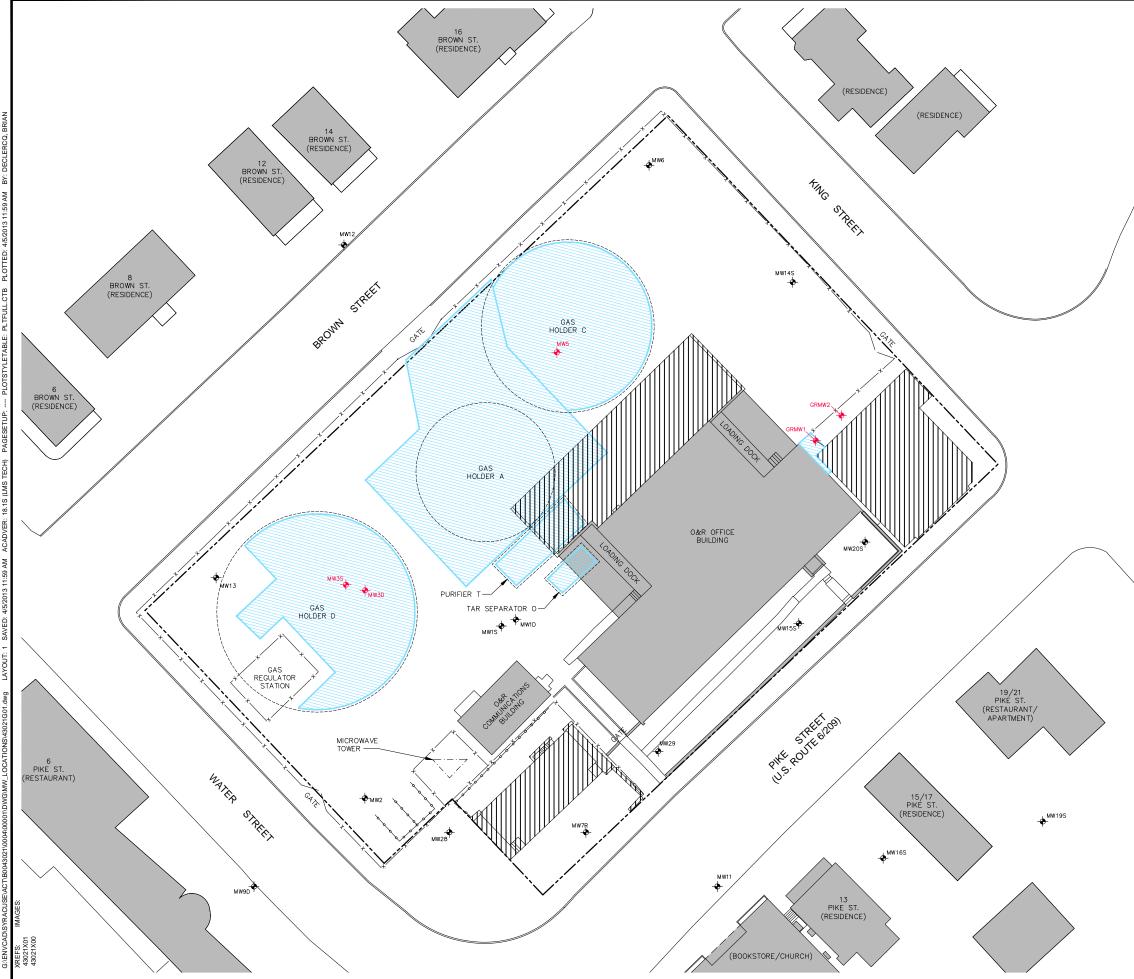
Copies: Scott Deyette, NYSDEC James Candiloro, NYSDEC Jamie Verrigni, NYSDEC Kristin Kulow, NYSDOH Dave Work, P.E., O&R Maribeth McCormick, O&R

Michael Benoit, P.E., ARCADIS Timothy Olean, CH2M Hill

Tom Shock, GEI



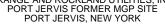
Figure



PIC: M. CARRILLO-SHERIDAN PM: M. BENOIT TM: M. DALEY LYR: ON=';OFF='REF', IX01 CONTROL', HISTORICAL' g LAYOUT: 1 SAVED: 445201311:59 AM ACADVER: 18.15 (LMS TECH) PAGESETUP: --- PLOTSTYLETABLE: PLT DIV/GROUP: ENV141 DB: L. FORAKER K. WOOD K. DAVIS LD: USE\ACT\B0043021\0004\00001\DWG\MW_LOCATIONS\43021G01.d SYRACUSE [VCAD\SYRACU



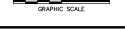
MONITORING WELL LOCATIONS





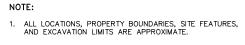


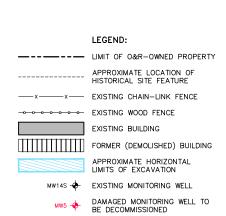














ARCADIS

Attachment A

Boring/Well Construction Logs for Monitoring Wells GRMW1, GRMW2, MW3S, MW3D, and MW5

ENSR AECOM

1001 West Seneca Street, Suite 204 Ithaca, New York, 14850

Boring/Well ID: SB25(08)/GRMW1

Project Name: Suffern Property Transfer Assesment

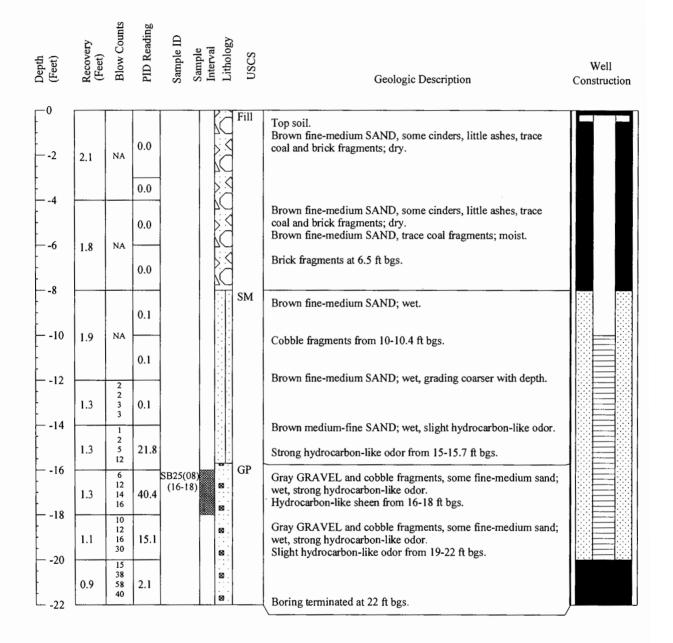
Client/Project Number: Orange and Rockland/05090-0019

Date Started/Completed: February 20, 2008

Drilling Company: Nothnagle

Drilling/Sampling Method: Auger/Macrocore, split spoon Logged By: Jesse Lloyd Location: 28 Pike Street Total Depth of Boring 22 ft bgs

Page 1 of 1



Comments:

SB25(08)(16-18) was analyzed for VOCs, SVOCs, PCBs, metals, and total CN.

Ground elevation: 434.38 ft MSL, Top of PVC: 433.92 ft MSL

Well is screened from 10-20 ft bgs, 2 ft well sump from 20-22 ft bgs.

ENSR AECOM

1001 West Seneca Street, Suite 204 Ithaca, New York, 14850

Boring/Well ID: SB27(08)/GRMW2

Page 1 of 1

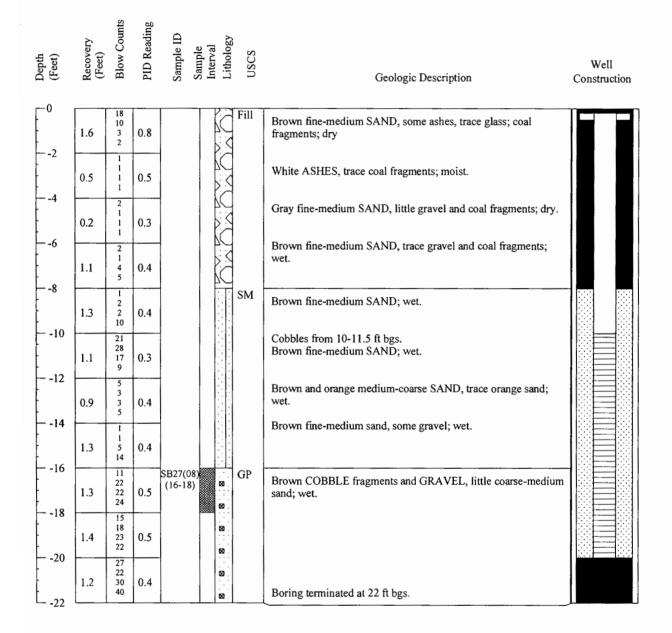
Project Name: Suffern Property Transfer Assessment

Client/Project Number: Orange and Rockland/05090-0019

Date Started/Completed: February 20, 2008

Drilling Company: Nothnagle

Drilling/Sampling Method: Auger/Macrocore, split spoon Logged By: Jesse Lloyd Location: 28 Pike Street Total Depth of Boring 22 ft bgs

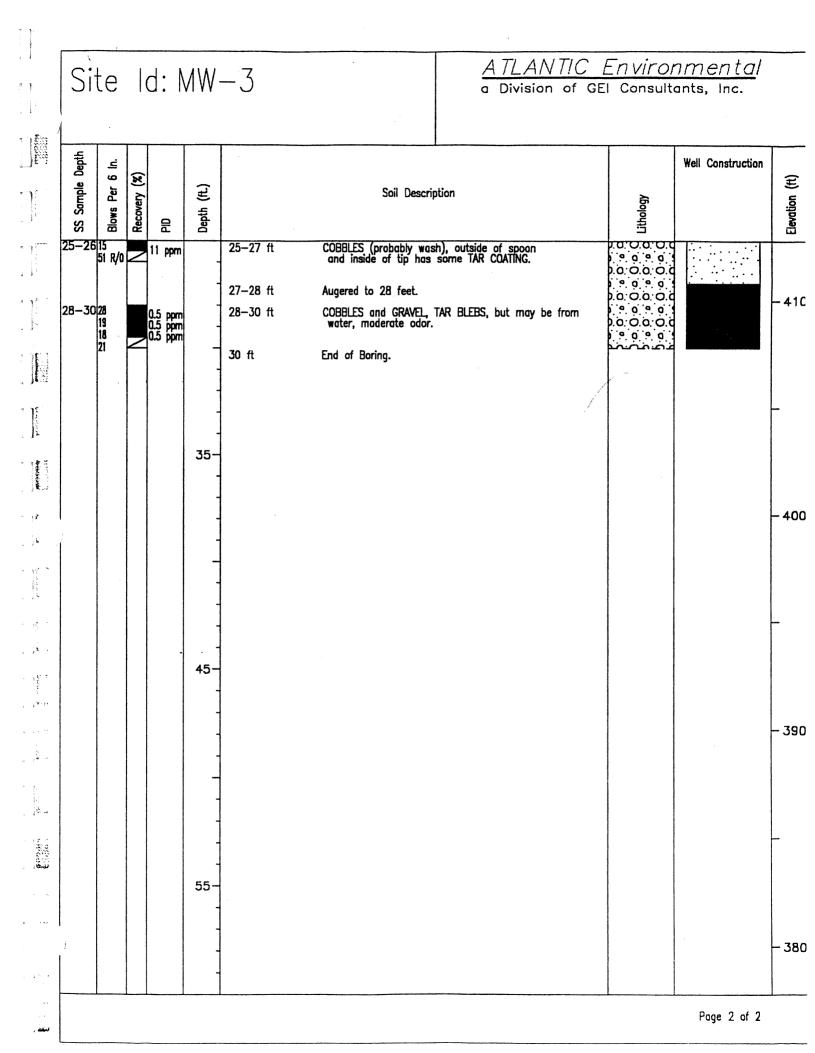


Comments:

SB27(08)(16-18) was analyzed for VOCs, SVOCs, PCBs, metals, and total CN. Ground elevation: 433.86 ft MSL, Top of PVC: 433.59 ft MSL

Well is screened from 10-20 ft bgs with a 2 ft well sump from 20-22 ft bgs

Site Id: MW-		<u>ATLANTIC E</u>		
		a Division of GEI	Consultant	s, inc.
Location: Part Jervis former MGP sit				
Township/Range: Port Jervis, NY	Project Number:			
Date(s): 04/21/98 - 04/21/98	Total Depth: 30.00' Datum: Mean Sea Level			
Elevation: 437.81	Y Coardinate: 925227.26	Blank Casing: type: PVC dia:	2.00in fm: 0.3'	to: 13.00'
X Coordinate: 438212.52	Drilling Method: Hollow Stem Auger	Screens:	2 00in (m. 13 00	' to: 23.00'
Contractor: AT&D	Drilling wethod: Hollow Stern Auger	type: Slotted size: 0.020india: Annular Fill:	2.00in fm: 13.00	10: 23.00
Logged By: Terry Taylor Remarks:		type: Grout type: Bentonite Pellets type: choker sand type: Sand Filter type: Fill	fm: 1.00' fm: 8.00' fm: 10.00 fm: 11.00 fm: 27.00	to: 10.00' to: 11.00' to: 27.00'
SS Sample Depth (ft.) Blows Per 6 Inches Recovery (%) PID Depth (ft.)	Soil Descript	tion	бор	ell' Construction
11-1251 R/.1	1–13 ft No recovery. 1–13 ft Augered to 13 feet.	rete pad and subsurface e material consisted of ome gravel, no odor, FILL.		
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	5-15.5 ftGray fine sand, TAR of5.5-17 ftOlive green VERY FINE tar, moderate odor, SAMPLE PJ-MW3-027-19 ftBlack FINE SAND and wet. collected SAMP9-20 ftAugered to 20 feet.0-21.2 ftCOBBLES with TAR BLE Brown soupy FINE SAN	ed, moderate odor, moist. SAND and SILT, no visible very moist to wet. Collected FROM 15.1 - 16.8 FEET. COBBLES, strong odor, TAR BLEBS, PLE PJ-MW3-03 FROM 17.0-18.0 FE EBS. ID and SILT, no visible tar. silty water, few TAR BLEBS		



1001 We	"hermol est Seneca Stree New York 14850	Rete	C		Well ID: MW3D Page 1 of 5	
	Port Jervis N				Boring Location: Holder D	
-	ort Jervis, NY				Ground Elevation (ft/MSL): 437.91	
	per: ORAN2-1	5063			PVC Elevation (ff/msl): 437.54	
-	ted: 10-17-00					
	pany: Boart]				Total Depth (ft): 150.4	
	od: RotoSoni		11		Boring Diameter Inner (in): 6 inch ID	
	thod: 4 inch]		Rarrel		Water Level During Drilling (ft/bgs): 18.0	
			Darrer		Logged By: James Edwards	
Depth (Feet) Recovery (feet)	Laboratory Sample ID	PID (mqq)	USCS Symbol	Lithology Symbol	Geologic Description	
		T		10,00	Will Curb Box with Locking C	ap
, †				DYDD		·r
2 - 3.4		0.0	FILL	Í	Fine-medium sand with trace fine-	
4					coarse gravel. Brown, moist, loose.	
		0.0	SM			
6						
		0.0				
-8		20.0	SM		Hydrocarbon-like odor.	
-		20.0	5171			
10 - 5.9		18.0			Grouted Annulus	
		10.0				
.12		146.0	SM		Fine-medium sand with some silt and	
#					trace fine-coarse gravel. Tan, moist, loose.	
-14		30.9				
#						
-16		12.8	SM		Fine-coarse gravel and cobbles. Gray,	
\mathbb{H}					wet.	
-18 —					Hydrocarbon-like odor.	
+				888	a Gravel and cobbles.	
-20 - 9.3		1.6	GM	888	Gravel and cobbles. Hydrocarbon-like odor	
+				888 888		
-22 —		0.0			Medium-coarse sand with silt	
#					laminations. Brown, wet.	
-24		0.0	SM			
-#	1	I	I		Strong hydrocarbon-like odor and sheen.	

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Remarks:

Laboratory Sample: MW3D (146-148)

Part for the second sec		Well ID: MW3D				Therm		
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	ge 2 of 5	Page 2		2 2	850-334	a, New York 14	Ithac	
$\begin{array}{c} -26 \\ -28 \\ -28 \\ -30 \\ -10.0 \\ -30 \\ -10.0 \\ -32 \\ -34 \\ -34 \\ -36 \\ -36 \\ -36 \\ -36 \\ -40 \\ -8.0 \\ -40 \\ -44 \\ -44 \end{array}$		Geologic Description Geologic Description	Lithology Symbol	USCS Symbol	(mqq)	Laboratory Sample ID	Depth (Feet) Recovery (feet)	A spin
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	lus	Strong hydrocarbon-like odor and sheen. Fine-coarse gravel and cobles with trace fine sand. Brown, wet, loose. Visible hydrocarbon-like sheen. Fine-coarse sand with trace coarse gravel and silt. Brown-tan, wet. Fine-coarse gravel with trace fine sand. Gray, loose. Coarse sand. Gray, wet, loose. Fine-coarse gravel with cobbles and coarse gravel with cobbles and coarse sand. Brown, wet. Medium-coarse sand with trace coarse	8 8 8 8 8 8 8 8 8 8 8 8	SM SM SM SM SM	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0		$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	-2 -2 -3 -3 -3 -3 -3 -4 -4 -4 -4 -4 -4 -5 -5

Remarks:

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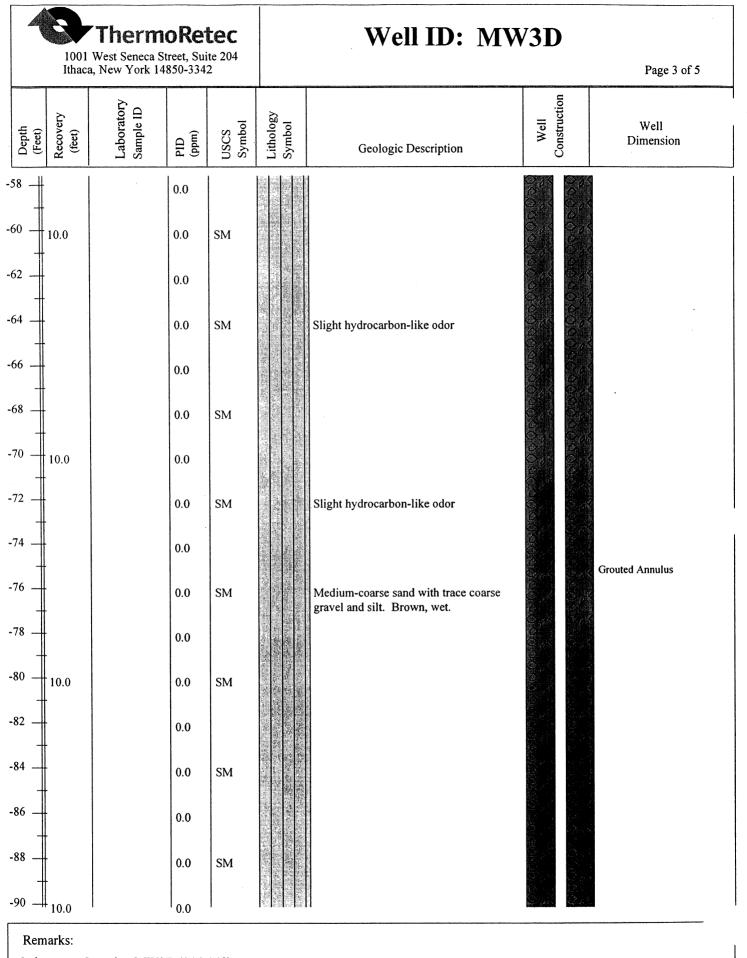
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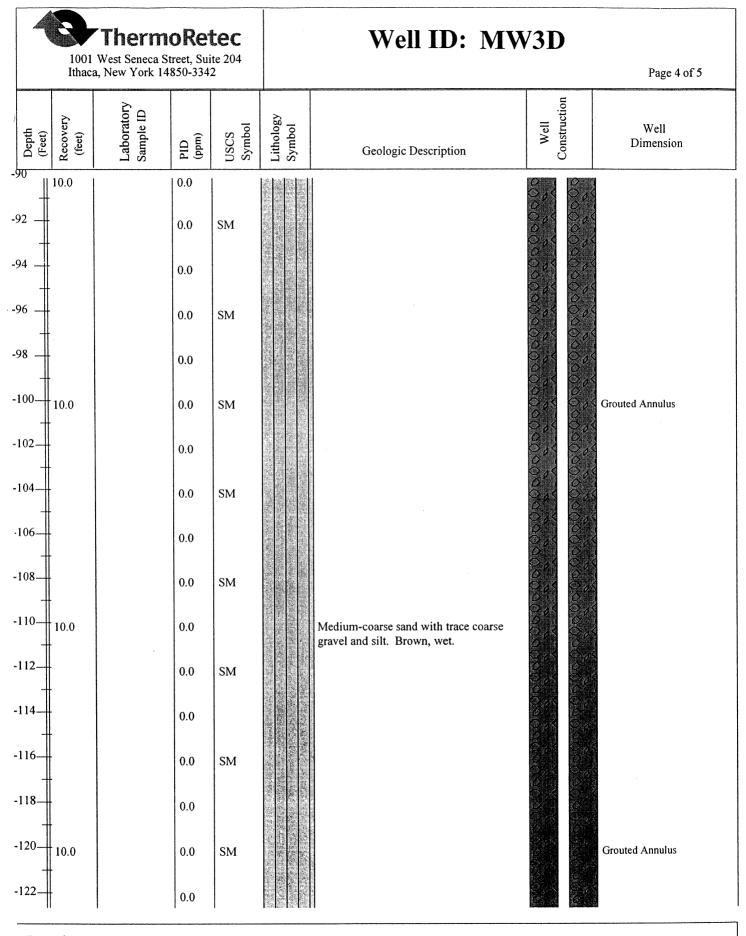
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., p

Laboratory Sample: MW3D (146-148)



Laboratory Sample: MW3D (146-148)



Remarks:

Laboratory Sample: MW3D (146-148)

ThermoRetec 1001 West Seneca Street, Suite 204 Ithaca, New York 14850-3342			e 204		Well ID: MW	Page 5 of 5	
Depth (Feet) Recovery (feet)	Laboratory Sample ID	PID (mqq)	USCS Symbol	Lithology Symbol	Geologic Description	Well Construction	Well Dimension
$ \begin{array}{c} -124 \\ -126 \\ -128 \\ -130 \\ -130 \\ -132 \\ -134 \\ -136 \\ -138 \\ -140 \\ -138 \\ -140 \\ -144 \\ -146 \\ -144 \\ -146 \\ -148 \\ -150 \\ -150 \\ -100 \\ -$	MW-3D (146- 148)	0.0 0.0 0.0 0.0	SM SM GM SM SM		Fine-coarse gravel and cobbles. Loose, wet. Medium-coarse sand with trace coarse gravel and silt. Brown, wet. Dark gray shale bedrock. Boring Terminated at 150.4 ft		Bentonite Seal 125-130 #00 Sand 135-137 2 inch PVC Riser 2.5-140 #2 Sand 137-150 2 inch 0.20 PVC Screen 140-150 Threaded End Plug

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Remarks: Laboratory Sample: MW3D (146-148)

ocation: Port Jervis former MGP site	8			
Township/Range: Part Jervis, NY	Project Number:			-
Date(s): 04/22/98 - 04/22/98	Total Depth: 30.00'			
Elevation: 436.50°	Datum: Mean Sea Level	Blank Cosing:	ı: 2.00in fm: 0.2'	to: 12.00'
X Coardinate: 438300.02	Y Coordinate: 925324.45	type: PVC dia: Screens:	2.00m m. 0.2	10. 12.00
Contractor: AT&D	Drilling Method: Hollow Stern Auger		a: 2.00in fm: 12.00'	to: 22.00'
ogged By: Terry Taylor		Annular Fill: type: Grout	fm: 1.00'	to: 7.00
Remarks:		type: Bentonite Pellets type: choker sand type: Sand Filter type:	fm: 7.00' fm: 9.00' fm: 10.00' fm:	to: 9.00' to: 10.00' to: 30.00' to:
Sample Depth (ft.) s Per 6 Inches overy (%) th (ft.) th (ft.)			Weli Co	onstruction
SS Blow Dep	Soil Descrip		AGoopy MP. EL	L. 436.35
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	-8 ftBrown VERY FINE SI VOC ador9 ftGray VERY FINE SIL above, slightly moi10.1 ftBrown VERY FINE SIL above, slightly moi.0.1-11 ftBrown VERY FINE SIL black staining (Sightly moi.1-11.6 ftGray VERY FINE SAND, wei (moderate).1.6-13.3 ftDark gray FINE SAND will slightly moist, moi.3.3-15 ftVERY FINE SAND, wei odor, fuel oil), we odor (fuel oil), we FROM 15-15.7 ft5-15.7 ftGray FINE SAND, wei odor (fuel oil), we odor, black OIL BL9-21 ftSame as above, wi21-22 ftAugered to 22 feet at 22:9-23 feet.	FILL. nd with little brick fragments dry, slight VOC odor from SILTY SAND, slight sweet light LTY SAND, strong VOC odor as ist at top. ILTY SAND, slightly moist, some ght tar odor in stained soil). Ill sorted, VOC petroleum odor ND, well sorted, moderate VOC st. IEDIUM SAND, well sorted, iderate VOC odor. th some silt, very moist to wet, VOC odor. ell sorted, strong petroleum et. Collected SAMPLE PJ-MW5-01 ET. a odor, less wet than above. S and GRAVEL, moderate petroleum ILEBS on water surface. with OIL BLEBS.	• • • • •	

Site Id: N	WW-	-5 <u>A TLAN TI</u> a Division of	<u>C Enviror</u> GEI Consulta	n <u>menta</u> l onts, Inc.	
SS Sample Depth Blows Per 6 In. Recovery (X) PID	Depth (ft.)	Soil Description	Lithology	Well Construction	Elevation (ft)
26-26.551 R/0 5.5 ppm		26-28 ftNo recovery.0.3 ft of gravel wash, moderate tar odor on wash, slight SHEEN on water.28-29 ftAugered to 29 feet.29-30 ftNo recovery.30 ftEnd of Boring.			- 410
	35-				- 400
	- - 45 - - - -				- 39
					- 38

r'

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