

September 7, 1995

Mr. James Craft
NYSDEC Regional Headquarters
Region 8 Office - DHWR
6274 East Avon-Lima Road
Avon, New York 14414-9519

RE: Immediate Investigation Work Assignment (No. D002478-31)
Modock Road Springs Site (NYSDEC No. 835013)
State Superfund Standby Contract

Dear Mr. Craft:

This letter provides a summary of the work conducted and the data generated during the Modock Road Springs Site (NYSDEC No. 835013) Immediate Investigation Work Assignment (IIWA), in Victor Township, Ontario County. Parsons Engineering Science, Inc. (Parsons ES) received "Notice to Proceed" with the investigation in a letter from the Department dated June 22, 1995. A technical work plan, prepared by NYSDEC, was attached to the letter. Parsons ES submitted a detailed budget to execute the work plan in a letter dated July 12, 1995. As directed by the NYSDEC, the work plan was modified substantially to consist of the work described below because field conditions differed from those anticipated. Field work was conducted during the weeks of July 31 and August 7, 1995. Data generated during the investigation are provided in attachments as follows:

- Attachment A - Site Sketch;
- Attachment B - Boring Logs;
- Attachment C - Laboratory Sample Data Summary Table;
- Attachment D - Groundwater Sampling Records;
- Attachment E - Water Level Measurements;
- Attachment F - Summary of Detected Compounds;
- Attachment G - Summary of Laboratory Analytical Results; and
- Attachment H - Laboratory Analytical Reports.

PROJECT SCOPE

The objective of the IIWA was to evaluate potential sources of volatile organic compounds (VOCs) that were detected in samples collected from springs located adjacent to Modock Road. The springs provided part of the Village of Victor public water supply until 1990, when trichloroethene, 1,1,1-trichloroethane, and 1,1-dichloroethane were detected in samples collected from the springs. Work conducted during the investigation consisted of: (1) subcontractor procurement, (2) health and safety plan preparation, (3) installation of seven temporary monitoring wells, (4) groundwater sampling, (5) groundwater sample analysis, and (6) preparation of deliverables. These activities are described below.

Subcontractor Procurement

Three subcontractors provided support services during the investigation:

- Parratt Wolff, Inc. of East Syracuse, New York provided drilling and monitoring well installation services;
- General Testing Corporation of Rochester, New York analyzed the groundwater samples; and
- Zebra Environmental Corporation of Inwood, New York provided and operated *Geoprobe*™ sampling equipment.

Health and Safety Plan (HASP)

A site-specific health and safety plan (HASP) was prepared prior to initiation of field work. The HASP specified the procedures that were used by Parsons ES personnel and subcontractors to ensure personal safety while conducting the investigation.

Borings and Temporary Monitoring Well Installation

As specified in the work plan, a *Geoprobe*™ sampling system was used to attempt to obtain groundwater samples on August 1. However, due to subsurface conditions, the *Geoprobe*™ sampling system did not provide sufficient penetration to reach groundwater. Consequently, a CME-55 drill rig equipped with 3.25-inch (inside diameter) hollow-stem augers was used to install seven temporary monitoring wells (designated GW-1 through GW-7) from which groundwater samples could be obtained. The temporary wells were installed by Parratt Wolff, Inc. during the week of August 7, 1995. Approximate well locations are indicated in Attachment A.

Subsurface soil samples were collected with a 2-foot-long split-spoon sampler, in accordance with ASTM specification D-1586-84, during drilling for temporary monitoring wells to characterize the subsurface geology of the site. Generally, samples were collected at 5-foot depth intervals. Split-spoon samples were visually inspected for evidence of contamination, and a lithologic description was recorded in the project field book. In addition, each split-spoon sample was retained in an airtight jar and a headspace reading was obtained with a photoionization detector (PID). All of the borings were terminated in unconsolidated sediments. Boring depths ranged from 22.5 feet below grade to 71.0 feet below grade. Boring logs are provided in Attachment B. None of the subsurface soil samples were submitted to a laboratory for chemical analysis.

The temporary monitoring wells were constructed of 2-inch (inside diameter), threaded, flush-joint, Schedule 40, PVC riser casing and screen. Ten-foot-long screens with 0.010-inch screen slots were installed in each well and placed to intercept the water table or, in two wells (GW-3 and GW-5), submerged in the saturated zone with the top of the screen less than 6 feet below the water table. Screen depths ranged from 12.5 to 22.5 feet below grade in GW-5 to 64.5 to 74.5 feet below grade in GW-7. Sand packs were installed around the well screens in four of the wells (GW-1, 2, 3, and 5). Sand packs were not installed in the other wells to ensure that the augers could be withdrawn; "running" sand was encountered in these wells. Generally, the remaining annular space between the boring walls and well casings and screens was filled by allowing subsurface sediments to collapse around the casing and screen as the augers were withdrawn from the subsurface. Well GW-3 was an exception; a 12-foot interval in the well was filled with a 2-foot-thick bentonite seal and 10 feet of sand. Well construction diagrams are included on the boring logs provided in Attachment B.

As requested, the temporary wells were not abandoned after sampling so that confirmation samples could be obtained in the near future. We understand that NYSDEC will undertake abandonment at a future time.

Groundwater Sampling

Seven groundwater samples (GW-1 through GW-7) were collected from the temporary monitoring wells using dedicated, disposable, HDPE bailers. One groundwater sample was collected from each of the temporary wells. Monitoring wells GW-1 and GW-2 were sampled on August 8. Monitoring wells GW-3 through GW-7 were sampled on August 11. Water level measurements were obtained from all seven monitoring wells on August 11. Groundwater sample data are summarized in Attachment C. Groundwater sampling records are provided in Attachment D. The water level measurements are provided in Attachment E.

Prior to sampling, the wells were purged by withdrawing water using the dedicated disposable bailers. Immediately prior to collecting each sample, the temperature, pH, conductivity, and turbidity of groundwater obtained from each well was measured. Well water turbidity was reduced to less than 50 NTU in five of the seven wells; wells GW-1 and GW-2 were the exceptions. These measurements are provided in the groundwater sampling records (Attachment D).

Groundwater Sample Analysis

All seven groundwater samples were submitted to General Testing Corporation (GTC), and analyzed by USEPA Method 8010 (purge and trap) for nine VOCs:

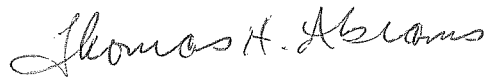
- Chloroethane
- 1,1-Dichloroethane
- 1,1-Dichloroethene
- trans-1,2-Dichloroethene
- cis-1,2-Dichloroethene
- Tetrachloroethene
- 1,1,1-Trichloroethane
- Trichloroethene, and
- Vinyl Chloride.

GTC provided 24-hour turnaround of the results from samples GW-1 and GW-2, and one week turnaround of the results from the other five samples. Attachment F presents a summary of compounds detected in the samples. Attachment G presents a summary of the analytical results. Laboratory reports are provided in Attachment H.

Mr. James Craft
Immediate Investigation Work Assignment
Page 5

If you have any questions or require additional information, please feel free to contact me at (315) 451-9560. In addition, please contact myself or Pete Petrone if Parsons ES may assist in any way with additional investigation or remedial work resulting from this work assignment.

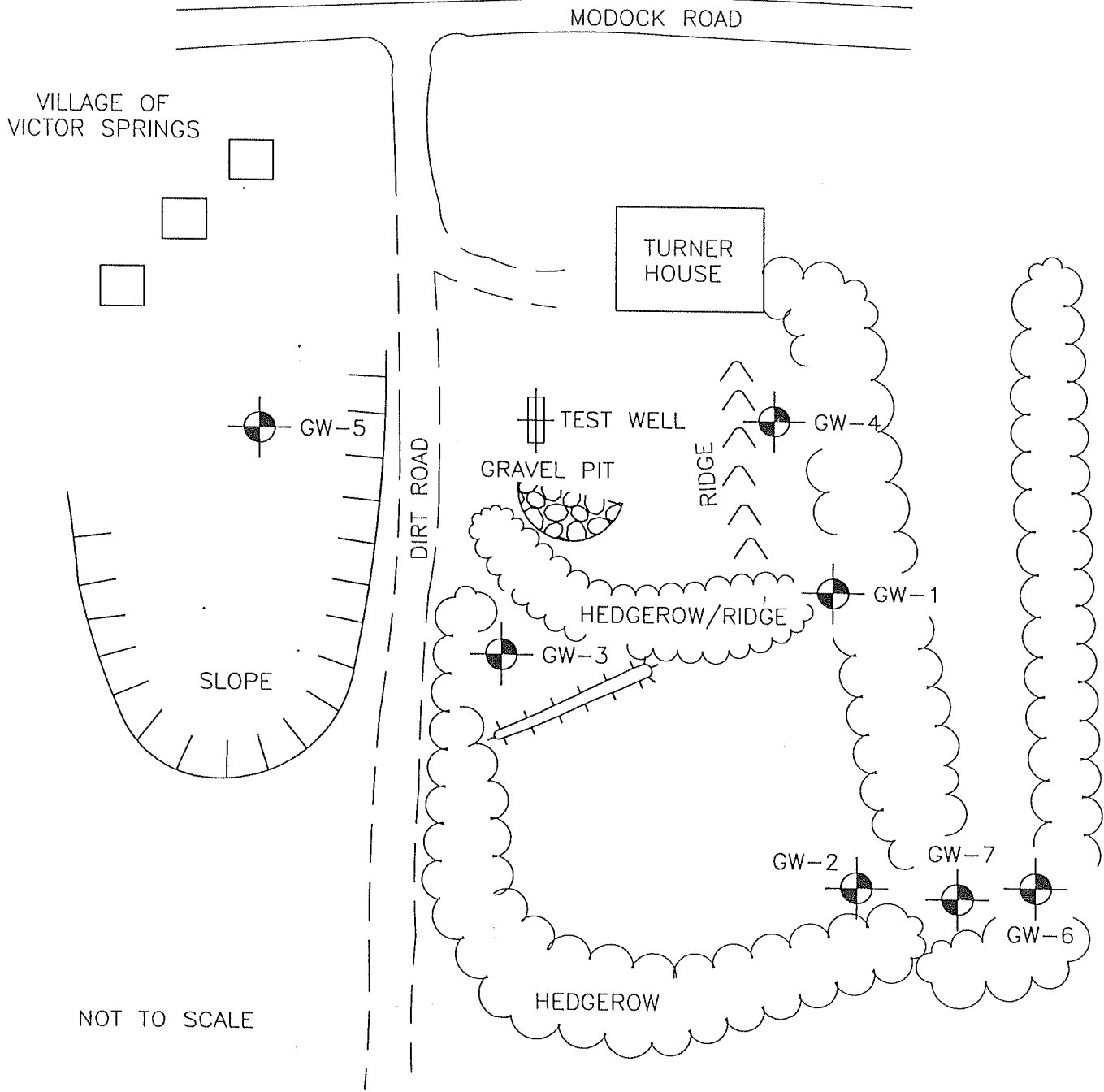
Sincerely,



Thomas H. Abrams
Project Manager



cc: File/726332.01
PMP
Mr. William Shaw (NYSDEC Central Office) w/o Attachments

ATTACHMENT A
SITE SKETCH



NOT TO SCALE

LEGEND:

-  TEST WELL TURNER TEST WELL
-  GW-1 TEMPORARY MONITORING WELL

HOUSING DEVELOPMENT

FIGURE 1

N.Y.S. DEPARTMENT OF ENVIRONMENTAL
 CONSERVATION
 IMMEDIATE INVESTIGATION WORK ASSIGNMENT
 MODOCK ROAD SPRINGS SITE
 SAMPLE LOCATION MAP

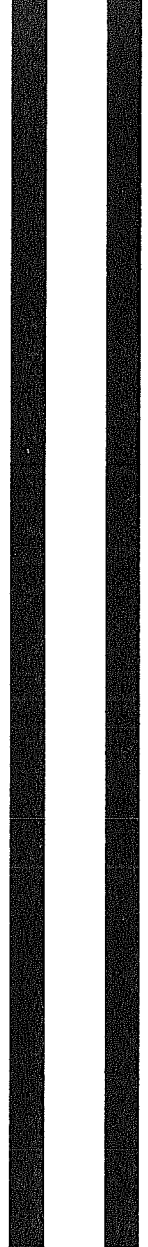
PARSONS ENGINEERING SCIENCE, INC.
 DESIGN • RESEARCH • PLANNING
 290 ELWOOD DAVIS ROAD • SUITE 312 • LIVERPOOL, N.Y. 13088 • 315/451-9560
 OFFICES IN PRINCIPAL CITIES

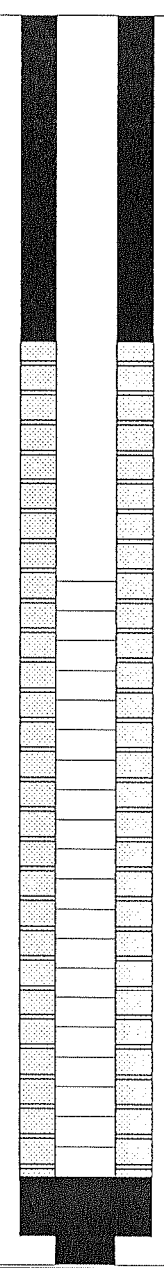
ATTACHMENT B
BORING LOGS

PARSONS ENGINEERING SCIENCE, INC. DRILLING RECORD					BORING/ WELL NO. GW-1			
Contractor: <u>Parratt-Wolff</u> Driller: <u>Dick Walls</u> Inspector: <u>N.A. Smith</u> Rig Type: <u>CME-55, 3.25" HSA</u>					PROJECT NAME <u>NYSDEC - Modock Road Springs</u> PROJECT NUMBER <u>726332.01000, Work Assignment # D002478-31</u>			
GROUNDWATER OBSERVATIONS DATE <u>8/11/95</u> DTW (ft BGS) <u>52.32</u> TEMP (deg. F) <u>55.2</u> COND (uS/cm) <u>612</u> pH <u>6.65</u> TURB (Ntu) <u>> 200</u>					Weather <u>Sunny, 80s</u> Date/Time Start <u>August 7, 1995 / 1620</u> Date/Time Finish <u>August 8, 1995 / 0900</u>			
					Sheet <u>1</u> of <u>4</u> Location Description: <u>On M. Turner property in gap between hedgerows southeast of house.</u>			
					Location Plan SEE SITE PLAN			
Sample Depth	Sample I.D.	SPT	% Rec.	PID Reading	FIELD IDENTIFICATION OF MATERIAL	SCHEMATIC	COMMENTS	
+2							LOCKING CAP	
+1							2 INCH I.D. PVC RISER +1.25 - 49 FEET	
0		SS					BENTONITE SEAL 0-4 FEET	
		4	75	2.3	SILT & FINE SAND, some pebbles, brown, dry			
1		5						
		7						
2		9						
		A						
3		A						
		A						
4		A						
		A						
5		SS						BOREHOLE COLLAPSE 4-45 FEET
		10	62.5	2.6				
6		10			FINE SAND, brown, dry			
		9			FINE SAND, some silt, brown, damp			
7		6						
		A						
8		A						
		A						
9		A						
		A						
10		SS						
		4	50	1.9	FINE - COARSE SAND, some fine gravel, dark brown, damp		10 ft	
11		4						
		12						
12		37						
		A						
13		A						
		A						
14		A						
		A						
15		SS			FINE - MEDIUM SAND, some fine gravel - cobbles, brown, dry contains gray siltstone and red sandstone		15 ft	
		9	75	2.8				
16		9						
		11						
17		13						
		A						
18		A						
		A						

SAMPLING METHOD
 SS = SPLIT SPOON
 A = AUGER CUTTINGS
 C = CORED


COMMENTS: _____

PARSONS ENGINEERING SCIENCE, INC.					BORING/ WELL NO. GW-1	
Contractor: <u>Parratt-Wolff</u> Driller: <u>Dick Walls</u> Inspector: <u>N.A. Smith</u> Rig Type: <u>CME-55, 3.25" HSA</u>					DRILLING RECORD PROJECT NAME <u>NYSDEC - Modock Road Springs</u> PROJECT NUMBER <u>726332.01000, Work Assignment # D002478-31</u>	
GROUNDWATER OBSERVATIONS					Sheet <u>2</u> of <u>4</u> Location Description: <u>On M. Turner property in gap between hedgerows southeast of house.</u>	
DATE	8/11/95				Weather <u>Sunny, 80s</u>	
DTW (ft BGS)	52.32				Date/Time Start <u>August 7, 1995 / 1620</u>	
TEMP (deg. F)	55.2				Date/Time Finish <u>August 8, 1995 / 0900</u>	
COND (uS/cm)	612				Location Plan SEE SITE PLAN	
pH	6.65					
TURB (Ntu)	> 200				FIELD IDENTIFICATION OF MATERIAL	
Sample Depth	Sample I.D.	SPT	% Rec.	PID Reading	SCHEMATIC	
19		A				
20		SS				
21		10	62.5	0.7		
22		12				
23		12			FINE - MEDIUM SAND, some fine gravel - cobbles, brown, dry contains gray siltstone and red sandstone little - some pebbles - cobbles	
24		19				
25		A			damp	
26		A				
27		A			damp	
28		A				
29		A			damp	
30		A				
31		SS			damp	
32		16	50	4.4		
33		5			damp	
34		7				
35		12			damp	
36		A				
37		A			damp	
38		A				
39		A			damp	
40		A				
SAMPLING METHOD SS = SPLIT SPOON A = AUGER CUTTINGS C = CORED					COMMENTS: _____ _____ _____	

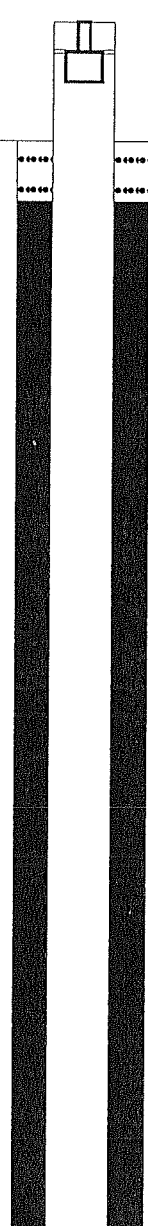
PARSONS ENGINEERING SCIENCE, INC. DRILLING RECORD					BORING/ WELL NO. GW-1		
Contractor: <u>Farratt-Wolff</u> Driller: <u>Dick Walls</u> Inspector: <u>N.A. Smith</u> Rig Type: <u>CME-55, 3.25" HSA</u>					PROJECT NAME <u>NYSDEC - Modock Road Springs</u> PROJECT NUMBER <u>726332.01000, Work Assignment # D002478-31</u>		
GROUNDWATER OBSERVATIONS					Sheet <u>3</u> of <u>4</u> Location Description: <u>On M. Turner property in gap between hedgerows southeast of house.</u>		
DATE <u>8/11/95</u> DTW (ft BGS) <u>52.32</u> TEMP (deg. F) <u>55.2</u> COND (uS/cm) <u>612</u> pH <u>6.65</u> TURB (Ntu) <u>> 200</u>					Weather <u>Sunny, 80s</u> Date/Time Start <u>August 7, 1995 / 1620</u> Date/Time Finish <u>August 8, 1995 / 0900</u>		
FIELD IDENTIFICATION OF MATERIAL					SCHEMATIC		
					COMMENTS		
Sample Depth	Sample I.D.	SPT	% Rec.	PID Reading	FINE - MEDIUM SAND, some cobbles, trace silt, brown, dry		2 INCH I.D. PVC RISER +1.25 - 49 FEET BOREHOLE COLLAPSE 4 - 45 FEET SAND PACK 45 - 59 FEET 2 INCH I.D. PVC SCREEN 49 - 59 FEET BOREHOLE COLLAPSE 59 - 62 FEET
40		SS					
41		53	83.3	8.6			
		50/0.1					
42		A					
		A					
43		A					
		A					
44		A					
		A					
45		SS					
		25	62.5	5.2			
46		26					
		19					
47		34					
		A					
48		A					
		A					
49		A					
		A					
50		SS					
		19	50	2.3	moist		
51		16					
		37					
52		27					
		A					
53		A					
		A					
54		A					
		A					
55		SS					
		12	62.5	2.1	FINE - MEDIUM SAND, some fine gravel - cobbles, brown, wet		
56		12					
		15					
57		17					
		A					
58		A					
		A					
59		A					
		A					
60		SS					
		12	75	5.6	little silt, compact		

SAMPLING METHOD
 SS = SPLIT SPOON
 A = AUGER CUTTINGS
 C = CORED

COMMENTS: _____

PARSONS ENGINEERING SCIENCE, INC. DRILLING RECORD					BORING/ WELL NO. GW-1		
Contractor: <u>Farratt-Wolff</u> Driller: <u>Dick Walls</u> Inspector: <u>N.A. Smith</u> Rig Type: <u>CME-55, 3.25" HSA</u>					PROJECT NAME <u>NYSDEC -- Modock Road Springs</u> PROJECT NUMBER <u>726332.01000, Work Assignment # D002478-31</u>		
GROUNDWATER OBSERVATIONS					Weather <u>Sunny, 80s</u> Date/Time Start <u>August 7, 1995 / 1620</u> Date/Time Finish <u>August 8, 1995 / 0900</u>		
DATE	8/11/95				Location Plan SEE SITE PLAN		
DTW (ft BGS)	52.32						
TEMP (deg. F)	55.2						
COND (uS/cm)	612						
pH	6.65						
TURB (Ntu)	> 200				FIELD IDENTIFICATION OF MATERIAL		
Sample Depth	Sample I.D.	SPT Rec.	% Rec.	PID Reading			
61		14			FINE-MEDIUM SAND, some fine gravel-cobbles, little silt, brown, compact, wet		BOREHOLE COLLAPSE 9-62 FEET
62		27					
63					Boring terminated at 62 feet.		
64							
65							
66							
67							
68							
69							
70							
71							
72							
73							
74							
75							
76							
77							
78							
79							
80							
81							

SAMPLING METHOD SS = SPLT SPOON A = AUGER CUTTINGS C = CORED	COMMENTS: _____ _____ _____
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PARSONS ENGINEERING SCIENCE, INC.					DRILLING RECORD		BORING/ WELL NO. GW-2	
Contractor: <u>Parratt-Wolff</u>					PROJECT NAME <u>NYSDEC - Modock Road Springs</u>		Sheet <u>1</u> of <u>3</u>	
Driller: <u>Dick Walls</u>					PROJECT NUMBER <u>726332.01000, Work Assignment # D002478-31</u>		Location Description: <u>In depression north-northwest of subdivision, south-southeast of GW-1.</u>	
Inspector: <u>N.A. Smith</u>					Weather <u>Mostly sunny, 65 degrees</u>		Location Plan	
Rig Type: <u>CME-55, 3.25" HSA</u>					Date/Time Start <u>August 8, 1995 / 0950</u>		SEE SITE PLAN	
Date/Time Finish <u>August 8, 1995 / 1330</u>					FIELD IDENTIFICATION OF MATERIAL		SCHEMATIC	
GROUNDWATER OBSERVATIONS								
DATE	8/11/95							
DTW (ft BGS)	52.06							
TEMP (deg. F)	56.1							
COND (uS/cm)	649							
pH	6.43							
TURB (Ntu)	>200							
Sample Depth	Sample I.D.	SPT	% Rec.	PID Reading				
+2								
+1								
0		SS						
		4	87.5	0.0	FINE SAND, some silt, trace cobble fragments, brown, dry			
1		5						
		7						
2		9						
		A						
3		A						
		A						
4		A						
		A						
5		SS						
		65	100	0.0	<div style="border-top: 1px dashed black; padding-top: 5px;">10 ft</div> FINE-MEDIUM SAND, some fine gravel-cobbles, brown, dry contains gray siltstone and red sandstone		BOREHOLE COLLAPSE 1-46 FEET	
6		A						
		A						
7		A						
		A						
8		A						
		A						
9		A						
		A						
10		SS						
		18	62.5	0.0				
11		17						
		23						
12		32						
		A						
13		A						
		A						
14		A						
		A						
15		SS						
		31	75	0.0				
16		31						
		20						
17		21						
		A						
18		A						
		A						

SAMPLING METHOD
 SS = SPLIT SPOON
 A = AUGER CUTTINGS
 C = CORED

COMMENTS: _____

Contractor: Parratt-Wolff
 Driller: Dick Walls
 Inspector: N.A. Smith
 Rig Type: CME-55, 3.25" HSA

**PARSONS ENGINEERING SCIENCE, INC.
 DRILLING RECORD**

**BORING/
 WELL NO. GW-2**
 Sheet 2 of 3
 Location Description: In depression north-northwest
 of subdivision, south-southeast of GW-1.

PROJECT NAME NYSDEC - Modock Road Springs
 PROJECT NUMBER 726332.01000, Work Assignment # D002478-31

GROUNDWATER OBSERVATIONS

DATE	8/11/95		
DTW (ft BGS)	52.06		
TEMP (deg. F)	56.1		
COND (uS/cm)	649		
pH	6.43		
TURB (Ntu)	>200		

Weather Mostly sunny, 65 degrees
 Date/Time Start August 8, 1995 / 0950
 Date/Time Finish August 8, 1995 / 1330

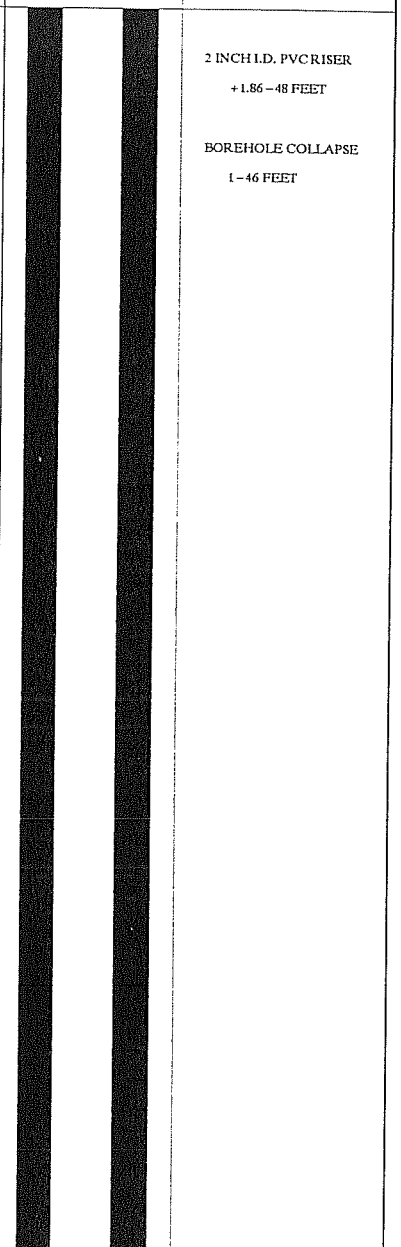
Location Plan
 SEE SITE PLAN

FIELD IDENTIFICATION OF MATERIAL

SCHEMATIC COMMENTS

Sample Depth	Sample I.D.	SPT Rec.	% Rec.	PID Reading
19		A		
		A		
20		SS		
		27	62.5	0.0
21		17		
		15		
22		16		
		A		
23		A		
		A		
24		A		
		A		
25		SS		
		12	75	0.0
26		12		
		13		
27		18		
		A		
28		A		
		A		
29		A		
		A		
30		SS		
		15	62.5	0.0
31		20		
		17		
32		10		
		A		
33		A		
		A		
34		A		
		A		
35		SS		
		9	75	0.0
36		10		
		23		
37		19		
		A		
38		A		
		A		
39		A		
		A		

FINE - MEDIUM SAND, some fine gravel - cobbles, brown, dry
 contains gray siltstone and red sandstone
 damp
 trace silt, dry
 FINE - MEDIUM SAND, some fine gravel - pebbles, little cobbles,
 trace silt, brown, dry
 35 ft
 FINE - MEDIUM SAND, trace silt, gray, dry



SAMPLING METHOD
 SS = SPLIT SPOON
 A = AUGER CUTTINGS
 C = CORED

COMMENTS: _____

Contractor: Parratt-Wolff
 Driller: Dick Walls
 Inspector: N.A. Smith
 Rig Type: CME-55, 3.25" HSA

**PARSONS ENGINEERING SCIENCE, INC.
 DRILLING RECORD**

**BORING/
 WELL NO. GW-2**

 Sheet 3 of 3
 Location Description: In depression north-northwest
 of subdivision, south-southeast of GW-1.

PROJECT NAME NYSDEC - Modock Road Springs
 PROJECT NUMBER 726332.01000, Work Assignment # D002478-31

GROUNDWATER OBSERVATIONS

DATE	8/11/95		
DTW (ft BGS)	52.06		
TEMP (deg. F)	56.1		
COND (uS/cm)	649		
pH	6.43		
TURB (Ntu)	>200		

Weather Mostly sunny, 65 degrees

 Date/Time Start August 8, 1995 / 0950

 Date/Time Finish August 8, 1995 / 1330

Location Plan

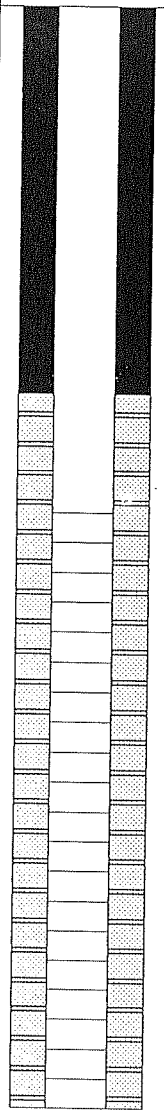
 SEE SITE PLAN

FIELD IDENTIFICATION OF MATERIAL

SCHEMATIC **COMMENTS**

Sample Depth	Sample I.D.	SPT Rec.	% Rec.	PID Reading
40		SS		
		2	87.5	0.0
41		5		
		7		
42		11		
		A		
43		A		
		A		
44		A		
		A		
45		SS		
		12	62.5	0.0
46		15		
		15		
47		19		
		A		
48		A		
		A		
49		A		
		A		
50		SS		
		4	87.5	0.0
51		6		
		7		
52		12		
		A		
53		A		
		A		
54		A		
		A		
55		SS		
		4	100	0.0
56		5		
		12		
57		17		
		A		
58		A		
59				
60				

FINE - MEDIUM SAND, trace silt, gray, dry 40.5 ft
 SILT, little clay, brown, moist 40.7 ft
 FINE - MEDIUM SAND, little fine gravel - pebbles, brown, damp 41.2 ft
 SILT, little clay, brown, damp 41.4 ft
 FINE - MEDIUM SAND, little fine gravel, brown, damp
 little - some fine gravel - cobbles
 FINE - MEDIUM SAND, trace - little silt, brown, wet 50 ft
 FINE - MEDIUM SAND, some fine gravel - pebbles, brown, wet 56.5 ft
 Boring terminated at 58 feet.



2 INCH I.D. PVC RISER
 +1.86 - 48 FEET

 BOREHOLE COLLAPSE
 1 - 46 FEET

 SAND PACK
 46 - 58 FEET

 2 INCH I.D. PVC SCREEN
 48 - 58 FEET

SAMPLING METHOD
 SS = SPLIT SPOON
 A = AUGER CUTTINGS
 C = CORED

COMMENTS: _____

PARSONS ENGINEERING SCIENCE, INC. DRILLING RECORD					BORING/ WELL NO. GW-3	
Contractor: <u>Parratt-Wolff</u>					PROJECT NAME <u>NYSDEC - Modock Road Springs</u> PROJECT NUMBER <u>726332.01000, Work Assignment # D002478-31</u>	
Driller: <u>Dick Walls</u>						
Inspector: <u>N.A. Smith</u>						
Rig Type: <u>CME-55, 3.25" HSA</u>					Sheet <u>1</u> of <u>3</u>	
GROUNDWATER OBSERVATIONS					Location Description: <u>On M. Turner property south of gravel pit and test well.</u>	
DATE	8/11/95				Weather <u>Sunny, 81 degrees</u>	
DTW (ft BGS)	44.90				Date/Time Start <u>August 8, 1995 / 1425</u>	
TEMP (deg. F)	55.3				Date/Time Finish <u>August 8, 1995 / 1840</u>	
COND (uS/cm)	342				Location Plan SEE SITE PLAN	
pH	6.89					
TURB (Ntu)	199					
Sample Depth	Sample I.D.	SPT	% Rec.	PID Reading	FIELD IDENTIFICATION OF MATERIAL	SCHMATIC
+2						
+1						
0		SS			FINE SAND, some silt, brown, dry	
1		3	75	0.0		
		7				
2		9				
		A				
3		A				
		A				
4		A				
		A				
5		SS				
		5	62.5	0.0		
6		9				
		50/0.2			FINE SAND, some silt and cobbles, brown, dry	
7		A				
		A				
8		A				
		A				
9		A				
		A				
10		SS				
		9	25	3.9		
11		8				
		10				
12		5				
		A				
13		A				
		A				
14		A				
		A				
15		SS				
		13	25	0.0		
16		11				
		6				
17		12				
		A				
18		A				
		A				
SAMPLING METHOD SS = SPLIT SPOON A = AUGER CUTTINGS C = CORED					COMMENTS: _____ _____ _____	

PARSONS ENGINEERING SCIENCE, INC.					DRILLING RECORD		BORING/ WELL NO. GW-3	
Contractor: <u>Farratt-Wolff</u>					PROJECT NAME <u>NYSDEC - Modock Road Springs</u>		Sheet <u>2</u> of <u>3</u>	
Driller: <u>Dick Walls</u>					PROJECT NUMBER <u>726332.01000, Work Assignment # D002478-31</u>		Location Description: <u>On M. Turner property south of gravel pit and test well.</u>	
Inspector: <u>N.A. Smith</u>					Weather <u>Sunny, 81 degrees</u>		Location Plan	
Rig Type: <u>CME-55, 3.25" HSA</u>					Date/Time Start <u>August 8, 1995 / 1425</u>		SEE SITE PLAN	
Date/Time Finish <u>August 8, 1995 / 1840</u>					FIELD IDENTIFICATION OF MATERIAL		SCHEMATIC	
GROUNDWATER OBSERVATIONS							COMMENTS	
DATE	8/11/95							
DTW (ft BGS)	44.90							
TEMP (deg. F)	55.3							
COND (uS/cm)	342							
pH	6.89							
TURB (Ntu)	199							
Sample Depth	Sample I.D.	SPT	% Rec.	PID Reading				
19		A			FINE SAND, some silt and cobbles, brown, dry		2 INCH I.D. PVC RISER +1.4-49 FEET	
20		SS			----- 20 ft			
		7	75	0.0	FINE - MEDIUM SAND, some fine gravel-pebbles, brown, dry		BOREHOLE COLLAPSE 13-45 FEET	
21		8			----- 21 ft			
		6			FINE - MEDIUM SAND, little silt, light brown, damp			
22		5						
		A						
23		A						
		A						
24		A						
		A						
25		SS			----- 25 ft			
		9	37.5	0.0	FINE - MEDIUM SAND, trace pebbles, light brown, dry			
26		19						
		13						
27		11						
		A						
28		A						
		A						
29		A						
		A						
30		SS						
		4	44.1	0.0	no pebbles			
31		6						
		8						
32		50/0.2						
		A						
33		A						
		A						
34		A						
		A						
35		SS			----- 35 ft			
		19	50	2.6	FINE - MEDIUM SAND, some fine gravel-cobbles, brown, dry			
36		9						
		37						
37		27						
		A						
38		A						
		A						
39		A						
		A						
SAMPLING METHOD					COMMENTS: _____			
SS = SPLIT SPOON					_____			
A = AUGER CUTTINGS					_____			
C = CORED					_____			

PARSONS ENGINEERING SCIENCE, INC.					BORING/ WELL NO. GW-3	
Contractor: <u>Parratt-Wolff</u> Driller: <u>Dick Walls</u> Inspector: <u>N.A. Smith</u> Rig Type: <u>CME-55, 3.25" HSA</u>					DRILLING RECORD	
PROJECT NAME <u>NYSDEC - Modock Road Springs</u> PROJECT NUMBER <u>726332.01000, Work Assignment # D002478-31</u>					Sheet <u>3</u> of <u>3</u> Location Description: <u>On M. Turner property south of gravel pit and test well.</u>	
GROUNDWATER OBSERVATIONS					Location Plan	
DATE	8/11/95				Weather <u>Sunny, 81 degrees</u>	
DTW (ft BGS)	44.90				Date/Time Start <u>August 8, 1995 / 1425</u>	
TEMP (deg. F)	55.3				Date/Time Finish <u>August 8, 1995 / 1840</u>	
COND (uS/cm)	342				Location Plan	
pH	6.89				SEE SITE PLAN	
TURB (Ntu)	199					
Sample Depth	Sample I.D.	SPT	% Rec.	PID Reading	FIELD IDENTIFICATION OF MATERIAL	
40		SS			FINE-MEDIUM SAND, some fine gravel-cobbles, brown, dry	
		9	25	0.0		
41		11				
		19				
42		29				
		A			FINE-MEDIUM SAND, some silt, gray, stiff, moist-wet	
43		A				
		A				
44		A				
		A				
45		SS			SILT, some clay, trace fine sand, gray, damp	
		7	87.5	0.0		
46		10				
		17				
47		21				
		A			FINE SAND, little silt, gray, wet	
48		A				
		A				
49		A				
		A				
50		SS			FINE SAND, some silt, trace clay partings, gray, wet	
		6	25	0.0		
51		8				
		9				
52		12				
		A			Boring terminated at 59 feet.	
53		A				
		A				
54		A				
		A				
55		SS				
		6	100	0.0		
56		7				
		9				
57		11				
		A				
58		A				
		A				
59		A				
60						

SAMPLING METHOD

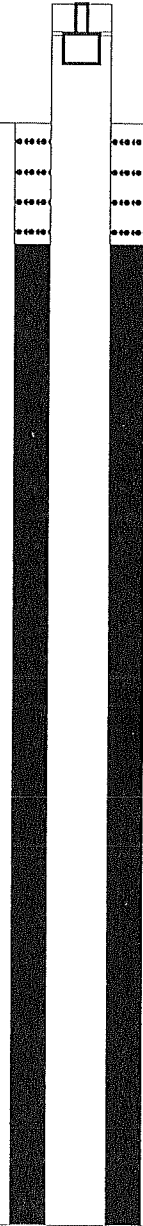
SS = SPLIT SPOON

A = AUGER CUTTINGS

C = CORED

COMMENTS: _____

PARSONS ENGINEERING SCIENCE, INC. DRILLING RECORD					BORING/ WELL NO. GW-4																															
Contractor: <u>Parratt-Wolff</u> Driller: <u>Dick Walls</u> Inspector: <u>N.A. Smith</u> Rig Type: <u>CME-55, 3.25" HSA</u>					PROJECT NAME <u>NYSDEC - Modock Road Springs</u> PROJECT NUMBER <u>726332.01000, Work Assignment # D002478-31</u>																															
GROUNDWATER OBSERVATIONS					Weather <u>Mostly sunny, 56 degrees</u> Date/Time Start <u>August 9, 1995 / 0710</u> Date/Time Finish <u>August 9, 1995 / 1220</u>																															
<table border="1" style="width:100%; border-collapse: collapse;"> <tr><td>DATE</td><td>8/11/95</td><td></td><td></td><td></td></tr> <tr><td>DTW (ft BGS)</td><td>42.05</td><td></td><td></td><td></td></tr> <tr><td>TEMP (deg. F)</td><td>57.6</td><td></td><td></td><td></td></tr> <tr><td>COND (uS/cm)</td><td>679</td><td></td><td></td><td></td></tr> <tr><td>pH</td><td>7.02</td><td></td><td></td><td></td></tr> <tr><td>TURB (Ntu)</td><td>65</td><td></td><td></td><td></td></tr> </table>					DATE	8/11/95				DTW (ft BGS)	42.05				TEMP (deg. F)	57.6				COND (uS/cm)	679				pH	7.02				TURB (Ntu)	65				Sheet <u>1</u> of <u>3</u> Location Description: <u>In depression along hedgerow east of test well, southeast of house.</u> Location Plan SEE SITE PLAN	
DATE	8/11/95																																			
DTW (ft BGS)	42.05																																			
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6		4																																		
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7		5			FINE-MEDIUM SAND, some silt, little fine gravel, dark brown, damp																															
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8		A																																		
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15		SS																																		
		3	87.5	0.0																																
16		1			FINE-MEDIUM SAND, trace silt, light brown, dry-damp																															
		2																																		
17		3																																		
		A																																		
18		A																																		
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SAMPLING METHOD
 SS = SPLIT SPOON
 A = AUGER CUTTINGS
 C = CORED

COMMENTS: _____

Contractor: Parratt-Wolff Driller: Dick Walls Inspector: N.A. Smith Rig Type: CME-55, 3.25" HSA					PARSONS ENGINEERING SCIENCE, INC. DRILLING RECORD					BORING/ WELL NO. GW-4																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
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<tr><td>22</td><td></td><td>A</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td>A</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>23</td><td></td><td>A</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td>A</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>24</td><td></td><td>A</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td>A</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>25</td><td></td><td>SS</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td>11</td><td>50</td><td>0.0</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> 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<tr><td>30</td><td></td><td>SS</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td>29</td><td>71.4</td><td>1.8</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>31</td><td></td><td>50/0.5</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td>A</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>32</td><td></td><td>A</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td>A</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>33</td><td></td><td>A</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td>A</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>34</td><td></td><td>A</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td>A</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>35</td><td></td><td>SS</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td>63</td><td>80</td><td>1.6</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>36</td><td></td><td>A</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td>A</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>37</td><td></td><td>A</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td>A</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> 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SPT	% Rec.	PID Reading								19		A												A										20		SS												11	83.3	0.0								21		27												50/0.2										22		A												A										23		A												A										24		A												A										25		SS												11	50	0.0								26		17												17										27		28												A										28		A												A										29		A												A										30		SS												29	71.4	1.8								31		50/0.5												A										32		A												A										33		A												A										34		A												A										35		SS												63	80	1.6								36		A												A										37		A												A										38		A												A										39		A												A										FIELD IDENTIFICATION OF MATERIAL					SCHEMATIC					COMMENTS				
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					FINE - MEDIUM SAND, trace silt, light brown, dry - damp ----- 20 ft FINE - MEDIUM SAND AND COBBLES, brown, dry contains gray limestone and red sandstone some fine gravel - cobbles										2 INCH I.D. PVC RISER + 1.6 - 41.5 FEET BOREHOLE COLLAPSE 2 - 53 FEET																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
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PARSONS ENGINEERING SCIENCE, INC. DRILLING RECORD					BORING/ WELL NO. GW-4					
Contractor: <u>Farratt-Wolff</u> Driller: <u>Dick Walls</u> Inspector: <u>N.A. Smith</u> Rig Type: <u>CME-55, 3.25" HSA</u>					PROJECT NAME <u>NYSDEC - Modock Road Springs</u> PROJECT NUMBER <u>726332.01000, Work Assignment # D002478-31</u>					
GROUNDWATER OBSERVATIONS					Weather <u>Mostly sunny, 56 degrees</u> Date/Time Start <u>August 9, 1995 / 0710</u> Date/Time Finish <u>August 9, 1995 / 1220</u>					
DATE		8/11/95			Location Plan SEE SITE PLAN					
DTW (ft BGS)		42.05								
TEMP (deg. F)		57.6			<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 20%;">SCHEMATIC</th> <th style="width: 80%;">COMMENTS</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;"> </td> <td> 2 INCH I.D. PVC RISER +1.64 - 51.5 FEET BOREHOLE COLLAPSE 2-53 FEET 2 INCH I.D. PVC SCREEN 41.5 - 51.5 FEET </td> </tr> </tbody> </table>		SCHEMATIC	COMMENTS		2 INCH I.D. PVC RISER +1.64 - 51.5 FEET BOREHOLE COLLAPSE 2-53 FEET 2 INCH I.D. PVC SCREEN 41.5 - 51.5 FEET
SCHEMATIC	COMMENTS									
	2 INCH I.D. PVC RISER +1.64 - 51.5 FEET BOREHOLE COLLAPSE 2-53 FEET 2 INCH I.D. PVC SCREEN 41.5 - 51.5 FEET									
COND (uS/cm)		679								
pH		7.02								
TURB (Ntu)		65								
Sample Depth	Sample I.D.	SPT	% Rec.	PID Reading						
40		SS			FINE - MEDIUM SAND, some fine gravel - cobbles, brown, dry wet ----- 45 ft FINE - MEDIUM SAND, little - some fine - medium gravel, brown, wet ----- 50 ft FINE - MEDIUM SAND, trace - little fine gravel, gray, heaving, wet Boring terminated at 53 feet.					
		58	50	0.0						
41		A								
		A								
42		A								
		A								
43		A								
		A								
44		A								
		A								
45		SS								
		12	75	0.0						
46		14								
		18								
47		22								
		A								
48		A								
		A								
49		A								
		A								
50		SS								
		9	100	0.0						
51		11								
		13								
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		A								
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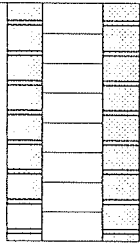
SAMPLING METHOD
 SS = SPLT SPOON
 A = AUGER CUTTINGS
 C = CORED

COMMENTS: _____

PARSONS ENGINEERING SCIENCE, INC. DRILLING RECORD					BORING/ WELL NO. GW-5	
Contractor: <u>Parratt-Wolff</u> Driller: <u>Dick Walls</u> Inspector: <u>N.A. Smith</u> Rig Type: <u>CME-55, 3.25" HSA</u>					PROJECT NAME <u>NYSDEC - Modock Road Springs</u> PROJECT NUMBER <u>726332.01000, Work Assignment # D002478-31</u>	
GROUNDWATER OBSERVATIONS					Weather <u>Sunny, 80 degrees</u> Date/Time Start <u>August 9, 1995 / 1340</u> Date/Time Finish <u>August 9, 1995 / 1500</u>	
DATE <u>8/11/95</u> DTW (ft BGS) <u>11.61</u> TEMP (deg. F) <u>56.0</u> COND (uS/cm) <u>664</u> pH <u>6.76</u> TURB (Ntu) <u>113</u>					Location Description: <u>In sloping gully in woods west of road and test well, northwest of Larson well.</u> Location Plan SEE SITE PLAN	
FIELD IDENTIFICATION OF MATERIAL					SCHEMATIC	
					COMMENTS	
Sample Depth	Sample I.D.	SPT	% Rec.	PID Reading		
+2						LOCKING CAP
+1						2 INCH I.D. PVC RISER +2.11 - 12.5 FEET
0		SS				BENTONITE SEAL 0-1 FEET
		2	75	0.0	FINE SAND and SILT, brown, dry	
1		2				
		3				
2		2				
		A				
3		A				
		A				
4		A				
		A				
5		SS				BOREHOLE COLLAPSE 1-9 FEET
		10	75	0.0	little cobbles	
6		12				
		14				
7		14				
		A				
8		A				
		A				
9		A				
		A				
10		SS				SAND PACK 9-22.5 FEET
		15	75	0.0	FINE - MEDIUM SAND, some fine gravel - cobbles, brown, dry	
11		18				
		16				
12		14			wet	
		A				
13		A				
		A				
14		A				2 INCH I.D. PVC SCREEN 12.5 - 22.5 FEET
		A				
15		SS				
		9	87.5	0.0	little cobbles	
16		13				
		15				
17		19				
		A				
18		A				
		A				

SAMPLING METHOD
 SS = SPLIT SPOON
 A = AUGER CUTTINGS
 C = CORED

COMMENTS: _____

PARSONS ENGINEERING SCIENCE, INC. DRILLING RECORD					BORING/ WELL NO. GW-5		
Contractor: <u>Parratt-Wolff</u> Driller: <u>Dick Walls</u> Inspector: <u>N.A. Smith</u> Rig Type: <u>CME-55, 3.25" HSA</u>					PROJECT NAME <u>NYSDEC - Modock Road Springs</u> PROJECT NUMBER <u>726332.01000, Work Assignment # D002478-31</u>		
GROUNDWATER OBSERVATIONS					Sheet <u>2</u> of <u>2</u> Location Description: <u>In sloping gully in woods west of road and test well, northwest of Larson well.</u>		
DATE	8/11/95				Weather <u>Sunny, 80 degrees</u>		
DTW (ft BGS)	11.61				Date/Time Start <u>August 9, 1995 / 1340</u>		
TEMP (deg. F)	56.0				Date/Time Finish <u>August 9, 1995 / 1500</u>		
COND (uS/cm)	664				Location Plan SEE SITE PLAN		
pH	6.76						
TURB (Ntu)	113						
Sample Depth	Sample I.D.	SPT	% Rec.	PTD Reading	FIELD IDENTIFICATION OF MATERIAL	SCHEMATIC	COMMENTS
19		A			FINE-MEDIUM SAND, some fine-medium gravel, little cobbles, brown, wet <div style="text-align: right;">21.5 ft</div>		2 INCH I.D. PVC SCREEN 12.5-22.5 FEET SAND PACK 9-22.5 FEET
20		SS					
		4	100	0.0			
21		27					
		16					
22		23			CLAY, trace silt, brown-gray, stiff, damp		
		A					
23					Boring terminated at 22.5 feet.		
24							
25							
26							
27							
28							
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							
SAMPLING METHOD SS = SPLIT SPOON A = AUGER CUTTINGS C = CORED					COMMENTS: _____ _____ _____		

PARSONS ENGINEERING SCIENCE, INC.					DRILLING RECORD		BORING/ WELL NO. GW-6															
Contractor: <u>Farratt-Wolff</u>					PROJECT NAME <u>NYSDEC - Modock Road Springs</u>		Sheet <u>1</u> of <u>4</u>															
Driller: <u>Dick Walls</u>							PROJECT NUMBER <u>726332.01000, Work Assignment # D002478-31</u>		Location Description: <u>Southeast corner of Turner field, east of GW-2, in line with GW-1 and Test Well.</u>													
Inspector: <u>N.A. Smith</u>					Weather <u>Sunny, 90 degrees</u>		Location Plan															
Rig Type: <u>CME-55, 3.25" HSA</u>							Date/Time Start <u>August 9, 1995 / 1645</u>		SEE SITE PLAN													
Date/Time Finish <u>August 10, 1995 / 1200</u>					FIELD IDENTIFICATION OF MATERIAL		SCHEMATIC		COMMENTS													
GROUNDWATER OBSERVATIONS																						
DATE	8/11/95																					
DTW (ft BGS)	61.02																					
TEMP (deg. F)	56.8																					
COND (uS/cm)	798																					
pH	6.55																					
TURB (Ntu)	142																					
Sample Depth	Sample I.D.	SPT	% Rec.	PID Reading																		
+2																						
+1																						
0		SS																				
		2	87.5	0.0																	SILT & FINE SAND, light brown, dry BENTONITE SEAL 0-1 FEET BOREHOLE COLLAPSE 1-71 FEET	
1		2																				
		3																				
2		5																				
		A																				
3		A																				
		A																				
4		A																				
		A																				
5		SS																				
		3	100	0.0					trace silt 10.5 ft													
6		4																				
		4																				
7		3																				
		A																				
8		A																				
		A																				
9		A																				
		A																				
10		SS																				
		8	62.5	0.0											FINE-MEDIUM SAND, little fine gravel, gray, dry 15 ft							
11		8																				
		7																				
12		7																				
		A																				
13		A																				
		A																				
14		A																				
		A																				
15		SS																				
		4	62.5	0.0					FINE-MEDIUM SAND, gray, dry													
16		5																				
		3																				
17		4																				
		A																				
18		A																				
		A																				

SAMPLING METHOD
 SS = SPLIT SPOON
 A = AUGER CUTTINGS
 C = CORED

COMMENTS: _____

PARSONS ENGINEERING SCIENCE, INC. DRILLING RECORD					BORING/ WELL NO. GW-6	
Contractor: <u>Parratt-Wolff</u> Driller: <u>Dick Walls</u> Inspector: <u>N.A. Smith</u> Rig Type: <u>CME-55, 3.25" HSA</u>					PROJECT NAME <u>NYSDEC - Modock Road Springs</u> PROJECT NUMBER <u>726332.01000, Work Assignment # D002478-31</u>	
GROUNDWATER OBSERVATIONS					Sheet <u>2</u> of <u>4</u> Location Description: <u>Southeast corner of Turner field, east of GW-2, in line with GW-1 and Test Well.</u> Location Plan <p style="text-align: center;">SEE SITE PLAN</p>	
DATE	8/11/95				Weather <u>Sunny, 90 degrees</u>	
DTW (ft BGS)	61.02				Date/Time Start <u>August 9, 1995 / 1645</u>	
TEMP (deg. F)	56.8				Date/Time Finish <u>August 10, 1995 / 1200</u>	
COND (uS/cm)	798					
pH	6.55					
TURB (Ntu)	142					
Sample Depth	Sample I.D.	SPT	% Rec.	PID Reading	FIELD IDENTIFICATION OF MATERIAL	
19		A				
20		SS				
21		4	37.5	0.0		
22		7				
23		13				
24		11				
25		A				
26		A				
27		A				
28		A				
29		A				
30		A				
31		SS	50	0.0		
32		14				
33		12				
34		A				
35		A				
36		A				
37		A				
38		A				
39		A				
		5	62.5	0.0	FINE-MEDIUM SAND, gray, damp FINE-MEDIUM SAND, little pebbles-cobbles, gray, dry little-some fine gravel-pebbles FINE-MEDIUM SAND, gray, damp little cobbles, dry	
		9				
		14				
		A				
		A				
		A				
		A				
		SS				
		63	100	0.0		
		A				
		A				
		A				
		A				
		A				
		A				

SAMPLING METHOD

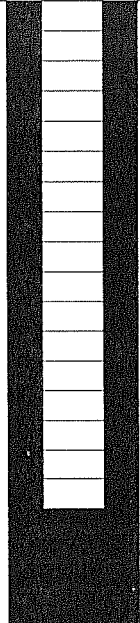
SS = SPLJT SPOON

A = AUGER CUTTINGS

C = CORED

COMMENTS: _____

PARSONS ENGINEERING SCIENCE, INC.						BORING/ WELL NO. GW-6	
DRILLING RECORD						Sheet <u>3</u> of <u>4</u>	
Contractor: Parratt-Wolff Driller: Dick Walls Inspector: N.A. Smith Rig Type: CME-55, 3.25" HSA						Location Description: Southeast corner of Turner field, east of GW-2, in line with GW-1 and Test Well.	
PROJECT NAME NYSDEC - Modock Road Springs PROJECT NUMBER 726332.01000, Work Assignment # D002478-31						Location Plan SEE SITE PLAN	
GROUNDWATER OBSERVATIONS							
DATE	8/11/95					Weather Sunny, 90 degrees	
DTW (ft BGS)	61.02					Date/Time Start August 9, 1995 / 1645	
TEMP (deg. F)	56.8					Date/Time Finish August 10, 1995 / 1200	
COND (uS/cm)	798						
pH	6.55						
TURB (Ntu)	142						
Sample Depth	Sample I.D.	SPT	% Rec.	PID Reading	FIELD IDENTIFICATION OF MATERIAL		
40		SS			FINE - MEDIUM SAND, little cobbles, gray, dry		
		68	50	5.6			
41		A					
		A					
42		A					
		A					
43		A					
		A					
44		A					
		A					
45		SS			little fine - medium gravel		
		11	62.5	0.0			
46		17					
		21					
47		32					
		A					
48		A					
		A					
49		A					
		A					
50		SS			damp		
		13	75	0.0			
51		12					
		14					
52		36					
		A					
53		A					
		A					
54		A					
		A					
55		SS			55 ft FINE - MEDIUM SAND, gray, damp		
		11	87.5	0.0			
56		15					
		19					
57		18					
		A					
58		A					
		A					
59		A					
		A					
60		SS			wct		
		14	75	0.0			
SAMPLING METHOD						COMMENTS:	
SS = SPLIT SPOON							
A = AUGER CUTTINGS							
C = CORED							

PARSONS ENGINEERING SCIENCE, INC. DRILLING RECORD					BORING/ WELL NO. GW-6	
Contractor: <u>Parratt-Wolff</u> Driller: <u>Dick Walls</u> Inspector: <u>N.A. Smith</u> Rig Type: <u>CME-55, 3.25" HSA</u>					PROJECT NAME <u>NYSDEC - Modock Road Springs</u> PROJECT NUMBER <u>726332.01000, Work Assignment # D002478-31</u>	
GROUNDWATER OBSERVATIONS					Weather <u>Sunny, 90 degrees</u> Date/Time Start <u>August 9, 1995 / 1645</u> Date/Time Finish <u>August 10, 1995 / 1200</u>	
DATE	8/11/95				Location Description: <u>Southeast corner of Turner field, east of GW-2, in line with GW-1 and Test Well.</u>	
DTW (ft BGS)	61.02				Location Plan	
TEMP (deg. F)	56.8				SEE SITE PLAN	
COND (uS/cm)	798					
pH	6.55					
TURB (Ntu)	142					
Sample Depth	Sample I.D.	SPT	% Rec.	PID Reading	FIELD IDENTIFICATION OF MATERIAL	SCHEMATIC
61		27			FINE - MEDIUM SAND, gray, wet little fine gravel - pebbles	
		37				
62		16				
		A				
63		A				
		A				
64		A				
		A				
65		SS				
		23	100	0.0		
66		59			CLAY, some silt, trace fine sand & gravel, brown, wet CLAY, little silt, trace fine gravel, (till), gray, very stiff, damp Boring terminated at 71 feet.	
		A				
67		A				
		A				
68		A				
		A				
69		SS				
		6	100	0.0		
70		7				
		19				
71		28				
72						
73						
74						
75						
76						
77						
78						
79						
80						
81						

SAMPLING METHOD
 SS = SPLT SPOON
 A = AUGER CUTTINGS
 C = CORED

COMMENTS: _____

PARSONS ENGINEERING SCIENCE, INC.					DRILLING RECORD		BORING/ WELL NO. GW-7	
Contractor: <u>Farratt-Wolff</u> Driller: <u>Dick Walls</u> Inspector: <u>N.A. Smith</u> Rig Type: <u>CME-55, 3.25" HSA</u>					PROJECT NAME <u>NYSDEC - Modock Road Springs</u> PROJECT NUMBER <u>726332.01000, Work Assignment # D002478-31</u>		Sheet <u>1</u> of <u>4</u> Location Description: <u>Southern edge of Turner field, between GW-2 and GW-6.</u>	
GROUNDWATER OBSERVATIONS					Weather <u>Partly sunny, humid, 80 degrees</u> Date/Time Start <u>August 10, 1995 / 1240</u> Date/Time Finish <u>August 10, 1995 / 1708</u>		Location Plan SEE SITE PLAN	
DATE	8/11/95				FIELD IDENTIFICATION OF MATERIAL		SCHEMATIC	
DTW (ft BGS)	64.75							
TEMP (deg. F)	58.1				COMMENTS			
COND (uS/cm)	767							
pH	7.15				FIELD IDENTIFICATION OF MATERIAL			
TURB (Ntu)	57							
Sample Depth	Sample I.D.	SFT	% Rec.	PID Reading	FIELD IDENTIFICATION OF MATERIAL		SCHEMATIC	
+2								
+1					FIELD IDENTIFICATION OF MATERIAL			
0								
1		A			FIELD IDENTIFICATION OF MATERIAL			
2		SS						
3		3	75	2.8	FIELD IDENTIFICATION OF MATERIAL			
4		5						
5		8			FIELD IDENTIFICATION OF MATERIAL			
6		8						
7		A			FIELD IDENTIFICATION OF MATERIAL			
8		A						
9		A			FIELD IDENTIFICATION OF MATERIAL			
10		A						
11		SS			FIELD IDENTIFICATION OF MATERIAL			
12		4	87.5	0.3				
13		5			FIELD IDENTIFICATION OF MATERIAL			
14		7						
15		13			FIELD IDENTIFICATION OF MATERIAL			
16		A						
17		A			FIELD IDENTIFICATION OF MATERIAL			
18		A						
19		A			FIELD IDENTIFICATION OF MATERIAL			
20		A						
21		SS			FIELD IDENTIFICATION OF MATERIAL			
22		27	68.2	4.4				
23		21			FIELD IDENTIFICATION OF MATERIAL			
24		50/0.1						
25		A			FIELD IDENTIFICATION OF MATERIAL			
26		A						
27		A			FIELD IDENTIFICATION OF MATERIAL			
28		A						

SAMPLING METHOD

SS = SPLIT SPOON

A = AUGER CUTTINGS

C = CORED

COMMENTS: _____

PARSONS ENGINEERING SCIENCE, INC. DRILLING RECORD						BORING/ WELL NO. GW-7					
Contractor: <u>Parratt-Wolff</u> Driller: <u>Dick Walls</u> Inspector: <u>N.A. Smith</u> Rig Type: <u>CME-55, 3.25" HSA</u>						PROJECT NAME <u>NYSDEC - Modock Road Springs</u> PROJECT NUMBER <u>726332.01000, Work Assignment # D002478-31</u>					
GROUNDWATER OBSERVATIONS						Weather <u>Partly sunny, humid, 80 degrees</u> Date/Time Start <u>August 10, 1995 / 1240</u> Date/Time Finish <u>August 10, 1995 / 1708</u>					
DATE	8/11/95					Sheet <u>2</u> of <u>4</u> Location Description: <u>Southern edge of Turner field, between GW-2 and GW-6.</u>					
DTW (ft BGS)	64.75					Location Plan SEE SITE PLAN					
TEMP (deg. F)	58.1										
COND (uS/cm)	767										
pH	7.15										
TURB (Ntu)	57										
Sample Depth	Sample I.D.	SPT	% Rec.	PID Reading	FIELD IDENTIFICATION OF MATERIAL		SCHEMATIC	COMMENTS			
19		A			FINE - MEDIUM SAND, trace fine gravel - cobbles, brown, damp			BOREHOLE COLLAPSE 1-74.5 FEET			
		A									
20		SS			----- 20 ft			2 INCH I.D. PVC RISER - 1.47 - 64.5 FEET			
		2	75	0.0	FINE - MEDIUM SAND, light brown, dry						
21		2			some cobbles						
		1									
22		2									
		A									
23		A									
		A									
24		A									
		A									
25		SS									
		41	35.7	15.1							
26		27			----- 30 ft						
		50/0.4							FINE SAND, light brown, dry		
27		A			FINE - MEDIUM SAND, light brown, dry						
		A									
28		A									
		A									
29		A									
		A									
30		SS									
		16	87.5	0.0							
31		20									
		19							----- 31.5 ft		
32		18			FINE - MEDIUM SAND, light brown, dry						
		A									
33		A									
		A									
34		A									
		A									
35		SS			----- 35 ft						
		21	100	0.0	FINE SAND, brown, damp - moist						
36		16									
		11									
37		8			contains clay partings, wet						
		A									
38		A									
		A									
39		A									
		A									

SAMPLING METHOD SS = SPLIT SPOON A = AUGER CUTTINGS C = CORED	COMMENTS: _____ _____ _____
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PARSONS ENGINEERING SCIENCE, INC.					DRILLING RECORD		BORING/ WELL NO. GW-7	
Contractor: <u>Parratt-Wolff</u>					PROJECT NAME <u>NYSDEC - Modock Road Springs</u>		Sheet <u>3</u> of <u>4</u>	
Driller: <u>Dick Walls</u>					PROJECT NUMBER <u>726332.01000, Work Assignment # D002478-31</u>		Location Description: <u>Southern edge of Turner field, between GW-2 and GW-6.</u>	
Inspector: <u>N.A. Smith</u>					Weather <u>Partly sunny, humid, 80 degrees</u>		Location Plan SEE SITE PLAN	
Rig Type: <u>CME-55, 3.25" HSA</u>								
GROUNDWATER OBSERVATIONS					Date/Time Finish <u>August 10, 1995 / 1708</u>			
DATE	8/11/95							
DTW (ft BGS)	64.75							
TEMP (deg. F)	58.1							
COND (uS/cm)	767							
pH	7.15							
TURB (Ntu)	57							
Sample Depth	Sample I.D.	SPT	% Rec.	PID Reading	FIELD IDENTIFICATION OF MATERIAL		SCHEMATIC	COMMENTS
40		SS			40 ft			BOREHOLE COLLAPSE 1-74.5 FEET 2 INCH I.D. PVC RISER -1.47-64.5 FEET
41		19	100	0.0	FINE-MEDIUM SAND, little fine gravel, brown-gray, dry			
		13						
42		13						
		A						
43		A						
		A						
44		A						
		A						
45		SS						
		68	100	0.0	little cobbles			
46		A						
		A						
47		A						
		A						
48		A						
		A						
49		A						
		A						
50		SS						
		51	60	4.4				
51		A						
		A						
52		A						
		A						
53		A						
		A						
54		A						
		A						
55		SS						
		29	83.3	0.0	gray, damp			
56		24						
		50/0.2						
57		A						
		A						
58		A						
		A						
59		A						
		A						
60		SS						
		50/0.4	100	0.0				
SAMPLING METHOD					COMMENTS:			
SS = SPLIT SPOON					_____			
A = AUGER CUTTINGS					_____			
C = CORED					_____			

Contractor: Parratt-Wolff		PARSONS ENGINEERING SCIENCE, INC. DRILLING RECORD				BORING/ WELL NO. GW-7	
Driller: Dick Walls		PROJECT NAME NYSDEC - Modock Road Springs				Sheet 4 of 4	
Inspector: N.A. Smith		PROJECT NUMBER 726332.01000, Work Assignment # D002478-31				Location Description: Southern edge of Turner field, between GW-2 and GW-6.	
Rig Type: CME-55, 3.25" HSA		Weather: Partly sunny, humid, 80 degrees				Location Plan	
GROUNDWATER OBSERVATIONS		Date/Time Start: August 10, 1995 / 1240				SEE SITE PLAN	
DATE 8/11/95		Date/Time Finish: August 10, 1995 / 1708					
DTW (ft BGS) 64.75							
TEMP (deg. F) 58.1							
COND (uS/cm) 767							
pH 7.15							
TURB (Ntu) 57							
Sample Depth	Sample I.D.	SPT	% Rec.	PID Reading	FIELD IDENTIFICATION OF MATERIAL	SCHEMATIC	COMMENTS
61		A			FINE - MEDIUM SAND, little fine gravel - cobbles, gray, damp		BOREHOLE COLLAPSE 1 - 74.5 FEET 2 INCH I.D. PVC RISER - 1.47 - 64.5 FEET 2 INCH I.D. PVC SCREEN 64.5 - 74.5 FEET
		A					
62		A					
		A					
63		A					
		A					
64		A					
		A					
65		SS			65 ft		
		6	100	0.0	FINE - MEDIUM SAND, trace fine gravel, gray, wet		
66		10					
		13					
67		15					
		A					
68		A					
		A					
69		A					
		A					
70		SS			70 ft		
		34	100	0.0	FINE - MEDIUM SAND, some fine gravel - cobbles, brown - gray, wet		
71		43					
		58					
72		A					
		A					
73		A					
		A					
74		SS					
		50	100	0.0			
75					Boring terminated at 74.5 feet.		
76							
77							
78							
79							
80							
81							

*G.W. level - 60'-65'
BGS*

SAMPLING METHOD
 SS = SPLIT SPOON
 A = ALGER CUTTINGS
 C = CORED

COMMENTS: _____

ATTACHMENT C
SAMPLE DATA SUMMARY

ATTACHMENT C

GROUNDWATER SAMPLE SUMMARY
 MODOCK ROAD SPRINGS SITE (NYSDEC SITE NO. 835013)
 ONTARIO COUNTY, NEW YORK

SAMPLE MATRIX	SAMPLE IDENTIFIER	WELL SCREEN DEPTH (FEET BGS)	SAMPLING DATE	ANALYTICAL METHOD	DESCRIPTION OF SAMPLE LOCATION
Groundwater	GW-1	49.0 - 59.0	08/08/95	USEPA 8010*	South - southeast of Turner house in gap between hedgerows.
Groundwater	GW-2	48.0 - 58.0	08/08/95	USEPA 8010	South - southeast of Turner house, south of GW-1.
Groundwater	GW-3	49.0 - 59.0	08/11/95	USEPA 8010	South - southwest of Turner house, gravel pit, and Turner test well.
Groundwater	GW-4	41.5 - 51.5	08/11/95	USEPA 8010	South - southeast of Turner house in depression adjacent to hedgerow.
Groundwater	GW-5	12.5 - 22.5	08/11/95	USEPA 8010	West - southwest of Turner house on slope adjacent to access road.
Groundwater	GW-6	59.0 - 69.0	08/11/95	USEPA 8010	South - southeast of Turner house, east of GW-7.
Groundwater	GW-7	64.5 - 74.5	08/11/95	USEPA 8010	South - southeast of Turner house, east of GW-2, west of GW-6.

* Reported compounds consisted of chloroethane: 1,1-DCA; 1,1-DCE; 1,1,1-DCE; 1,1,1,1-TCA; TCE; and vinyl chloride.

ATTACHMENT D
GROUNDWATER SAMPLING RECORDS

GROUNDWATER SAMPLING RECORD

Sample Identifier: GW-1 Site Name: Modock Road Springs
Date: 8/8/95 Time: 1545
Samplers: NAS of Parsons ES
Weather: Sunny, 81°F

Sample Location: 959 of Turner Avenue in a temporary well

Purge Water Disposition (e.g., contained): to ground

Sample Description: _____

Color: light brown

Odor: _____

Other: _____

Sample Analyzed for: EPA 8010, special list

QC Samples at this Location: none

QC Samples Analyzed for: _____

Field Tests:

Temperature (C/F): 55.2° F

Ph: 6.65

Conductivity (uS/cm): 612

Turbidity (NTU): >200

PID (ambient): -

Comments: collected from temporary well

GROUNDWATER SAMPLING RECORD

Sample Identifier: GW-2 Site Name: modock Road Springs
 Date: 8/8/95 Time: 15:50
 Samplers: NAS of Parsons ES
 Weather: Sunny, 81°F

Sample Location: SSe of Turner house, S of GW-1, W of GW-7
 Screen/Sample Depth: 48.0-58.0 ft. bgs
 Sampling Device: Disposable HDPE bailer

Groundwater Purging:

Initial Static Water Level: 53.92 ft (8/11/95)

Volume Standing in Well:

2-Inch Casing: 4.1 Feet of Water x 0.16 Gallons/Foot = 0.7 Gallons
 3-Inch Casing: _____ Feet of Water x 0.36 Gallons/Foot = _____ Gallons
 4-Inch Casing: _____ Feet of Water x 0.65 Gallons/Foot = _____ Gallons

Volume of groundwater purged: well purged, volume not recorded

Purging Device: disposable bailer

Purge Water Disposition (e.g., contained): to ground

Sample Description:

Color: brown
 Odor: _____
 Other: _____

Sample Analyzed for: EPA 8010, special list

QC Samples at this Location: none

QC Samples Analyzed for: _____

Field Tests:

Temperature (C/F): 56.1 ° F

Ph: 6.43

Conductivity (uS/cm): 649

Turbidity (NTU): ~200

PID (ambient): -

Comments: collected from temporary well

GROUNDWATER SAMPLING RECORD

Sample Identifier: GW-3 Site Name: Modock Road Springs
 Date: 8/11/95 Time: 1310
 Samplers: NAS of Parsons ES
 Weather: Cloudy, 73°F

Sample Location: SSE of Turner house, gravel pit, and test well
 Screen/Sample Depth: 19.0 - 59.0 ft. bgs
 Sampling Device: Disposable HDPE bailer

Groundwater Purging:

Initial Static Water Level: 46³⁰ ft.

Volume Standing in Well:

2-Inch Casing: 12.7 Feet of Water x 0.16 Gallons/Foot = 2.0 Gallons
 3-Inch Casing: _____ Feet of Water x 0.36 Gallons/Foot = _____ Gallons
 4-Inch Casing: _____ Feet of Water x 0.65 Gallons/Foot = _____ Gallons

Volume of groundwater purged: 5 gals removed during development (8/9/95)

Purging Device: disposable bailer

Purge Water Disposition (e.g., contained): to ground

Sample Description: Cloudy

Color: Gray

Odor: _____

Other: _____

Sample Analyzed for: EPA 8010, special list

QC Samples at this Location: none

QC Samples Analyzed for: _____

Field Tests:

Temperature (C/F): 55.3°F

Ph: 6.89

Conductivity (uS/cm): 342

Turbidity (NTU): 199

PID (ambient): —

Comments: collected from temporary well

GROUNDWATER SAMPLING RECORD

Sample Identifier: GW-4 Site Name: Modoch Road Springs
 Date: 8/11/95 Time: 1325
 Samplers: NAS of Parsons ES
 Weather: Cloudy, 73°F

Sample Location: SSE of Turner house in depression adjacent to hedge.
 Screen/Sample Depth: 41.5 - 51.5
 Sampling Device: Disposable HDPE bailer

Groundwater Purging:

Initial Static Water Level: 43.69 ft.
 Volume Standing in Well:
 2-Inch Casing: 7.8 Feet of Water x 0.16 Gallons/Foot = 1.3 Gallons
 3-Inch Casing: _____ Feet of Water x 0.36 Gallons/Foot = _____ Gallons
 4-Inch Casing: _____ Feet of Water x 0.65 Gallons/Foot = _____ Gallons
 Volume of groundwater purged: well purged, volume not recorded
 Purging Device: disposable bailer
 Purge Water Disposition (e.g., contained): to ground

Sample Description: Clear
 Color: _____
 Odor: _____
 Other: _____

Sample Analyzed for: EPA 3010, special list
 QC Samples at this Location: none
 QC Samples Analyzed for: _____

Field Tests:

Temperature (C/F): 57.6 °F
 Ph: 7.02
 Conductivity (uS/cm): 679
 Turbidity (NTU): 65
 PID (ambient): -

Comments: collected from temporary well

GROUNDWATER SAMPLING RECORD

Sample Identifier: GW-5 Site Name: modock Road Springs
 Date: 8/11/95 Time: 14⁰⁰
 Samplers: NAS of Parsons ES
 Weather: Cloudy, 73°F

Sample Location: WSW of Turner house on slope adjacent to access Rd.
 Screen/Sample Depth: 12.5- 22.5 ft. bgs
 Sampling Device: Disposable HDPE bailer

Groundwater Purging:

Initial Static Water Level: 13.22 ft.

Volume Standing in Well:

2-Inch Casing: 8.8 Feet of Water x 0.16 Gallons/Foot = 1.4 Gallons
 3-Inch Casing: _____ Feet of Water x 0.36 Gallons/Foot = _____ Gallons
 4-Inch Casing: _____ Feet of Water x 0.65 Gallons/Foot = _____ Gallons

Volume of groundwater purged: well purged, volume not recorded

Purging Device: disposable bailer

Purge Water Disposition (e.g., contained): to ground

Sample Description: Slightly cloudy

Color: Grey

Odor: _____

Other: _____

Sample Analyzed for: EPA 8010, special list

QC Samples at this Location: none

QC Samples Analyzed for: _____

Field Tests:

Temperature (C/F): 56.0° F

Ph: 6.76

Conductivity (uS/cm): 664

Turbidity (NTU): 113

PID (ambient): —

Comments: collected from temporary well

GROUNDWATER SAMPLING RECORD

Sample Identifier: GW-6 Site Name: Maddock Road Springs
Date: 8/11/95 Time: 12⁵⁰
Samplers: NAS of Parsons ES
Weather: Cloudy, 73° F

Sample Location: SSe of Turner house, E of GW-7
Screen/Sample Depth: 59.0 - 69.0 ft. bgs
Sampling Device: Disposable HDPE bailer

Groundwater Purging:

Initial Static Water Level: 61.96 ft.
Volume Standing in Well:
2-Inch Casing: 7.1 Feet of Water x 0.16 Gallons/Foot = 1.1 Gallons
3-Inch Casing: _____ Feet of Water x 0.36 Gallons/Foot = _____ Gallons
4-Inch Casing: _____ Feet of Water x 0.65 Gallons/Foot = _____ Gallons
Volume of groundwater purged: well purged, volume not recorded
Purging Device: Disposable bailer
Purge Water Disposition (e.g., contained): to ground

Sample Description:

Color: Light brown
Odor: _____
Other: _____

Sample Analyzed for: EPA 8010, special list
QC Samples at this Location: none
QC Samples Analyzed for: _____

Field Tests:

Temperature (C/F): 56.8° F
Ph: 6.55
Conductivity (uS/cm): 798
Turbidity (NTU): 1.42
PID (ambient): -

Comments: collected from temporary well

GROUNDWATER SAMPLING RECORD

Sample Identifier: GW-7 Site Name: modock Springs Road
Date: 8/11/95 Time: 13¹⁰
Samplers: NAS of Parsons ES
Weather: cloudy, 73°F

Sample Location: SSE of Turner house, E of GW-2, W of GW-6
Screen/Sample Depth: 64.5 - 74.5 ft. bgs
Sampling Device: disposable HDPE bailer

Groundwater Purging:

Initial Static Water Level: 66²² ft.

Volume Standing in Well:

2-Inch Casing: 8.3 Feet of Water x 0.16 Gallons/Foot = 1.3 Gallons
3-Inch Casing: _____ Feet of Water x 0.36 Gallons/Foot = _____ Gallons
4-Inch Casing: _____ Feet of Water x 0.65 Gallons/Foot = _____ Gallons

Volume of groundwater purged: well purged, volume not recorded

Purging Device: disposable bailer

Purge Water Disposition (e.g., contained): to ground

Sample Description: Clear

Color: _____

Odor: _____

Other: _____

Sample Analyzed for: EPA 8010, special list

QC Samples at this Location: none

QC Samples Analyzed for: _____

Field Tests:

Temperature (C/F): 58.1°F

Ph: 7.15

Conductivity (uS/cm): 767

Turbidity (NTU): 57

PID (ambient): -

Comments: collected from temporary well

ATTACHMENT E
WATER LEVEL MEASUREMENTS

ATTACHMENT E
WATER LEVEL MEASUREMENTS
MODOCK SPRINGS ROAD SITE (NYSDEC SITE NO. 835013)
ONTARIO COUNTY, NEW YORK

WELL IDENTIFIER	DEPTH BELOW TOP OF PVC CASING* (Feet)	HEIGHT OF TOP OF PVC CASING ABOVE GROUND* (Feet)	DEPTH BELOW GROUND SURFACE (Feet)
GW-1	53.57	1.25	52.32
GW-2	53.92	1.86	52.06
GW-3	46.30	1.40	44.90
GW-4	43.69	1.64	42.05
GW-5	13.72	2.11	11.61
GW-6	61.96	0.94	61.02
GW-7	66.22	1.47	64.75

* Measured on August 11, 1995.

ATTACHMENT F
SUMMARY OF DETECTED COMPOUNDS

ATTACHMENT F

SUMMARY OF DETECTED COMPOUNDS
 GROUNDWATER SAMPLES
 MODOCK ROAD SPRINGS SITE (NYSDEC SITE NO. 835013)
 ONTARIO COUNTY, NEW YORK

CAS NO	COMPOUND	SAMPLE ID: LAB ID: SOURCE: RUN: MATRIX: SAMPLED: UNITS:	GW-1	GW-2	GW-3	GW-4	GW-5	GW-6	GW-7
			33005 GTC 2667 WATER 8/8/95	33006 GTC 2667 WATER 8/8/95	33921 GTC 2863 WATER 8/11/95	33920 GTC 2863 WATER 8/11/95	33922 GTC 2863 WATER 8/11/95	33918 GTC 2863 WATER 8/11/95	33919 GTC 2863 WATER 8/11/95
75-35-4	USEPA METHOD 8010 1,1-Dichloroethene	UG/L	7.2	1.0 U	1.0 U	6.9	1.0 U	1.2	1.4
71-55-6	1,1,1-Trichloroethane	UG/L	120	3.0	1.0 U	110	17	28	32
79-01-6	Trichloroethene	UG/L	240	1.0 U	1.0 U	160	20	27	92

U - Indicates compound was analyzed for but not detected.