LIMITED SITE DATA DOCUMENT

TRIMMER ROAD LANDFILL SITE
OPERABLE UNIT 01

TOWN OF PARMA
MONROE COUNTY, NEW YORK
(SITE N0. 8-28-012)

WORK ASSIGNMENT NO. D003600-42

Prepared For

New York State Department of Environmental Conservation

JANUARY 2006

DVIRKA AND BARTILUCCI
CONSULTING ENGINEERS
A DIVISION OF WILLIAM F. COSULICH ASSOCIATES, P.C.

LIMITED SITE DATA

TRIMMER ROAD LANDFILL SITE

TOWN OF PARMA, MONROE COUNTY, NEW YORK

SITE NO. 8-28-012

*These documents that follow are **NOT** part of the Contract Documents for the remedial work at the Trimmer Road Landfill Site. The Department neither represents that the Site conditions will be the same as in the attached document nor considers the attached documents as being comprehensive and an actual description of the site conditions. The Contractor shall be responsible for performing the remediation work based on the existing conditions at the Site.*

LIMITED SITE DATA SUMMARY REPORT

TRIMMER ROAD LANDFILL SITE
TOWN OF PARMA
MONROE COUNTY, NEW YORK
(SITE NO. 8-28-012)

WORK ASSIGNMENT NO. D003600-42

Prepared for:

NEW YORK STATE DEPARTMENT
OF ENVIRONMENTAL CONSERVATION

Prepared by:

DVIRKA AND BARTILUCCI CONSULTING ENGINEERS
SYRACUSE, NEW YORK

JANUARY 2006

LIMITED SITE DATA SUMMARY REPORT
TRIMMER ROAD LANDFILL SITE

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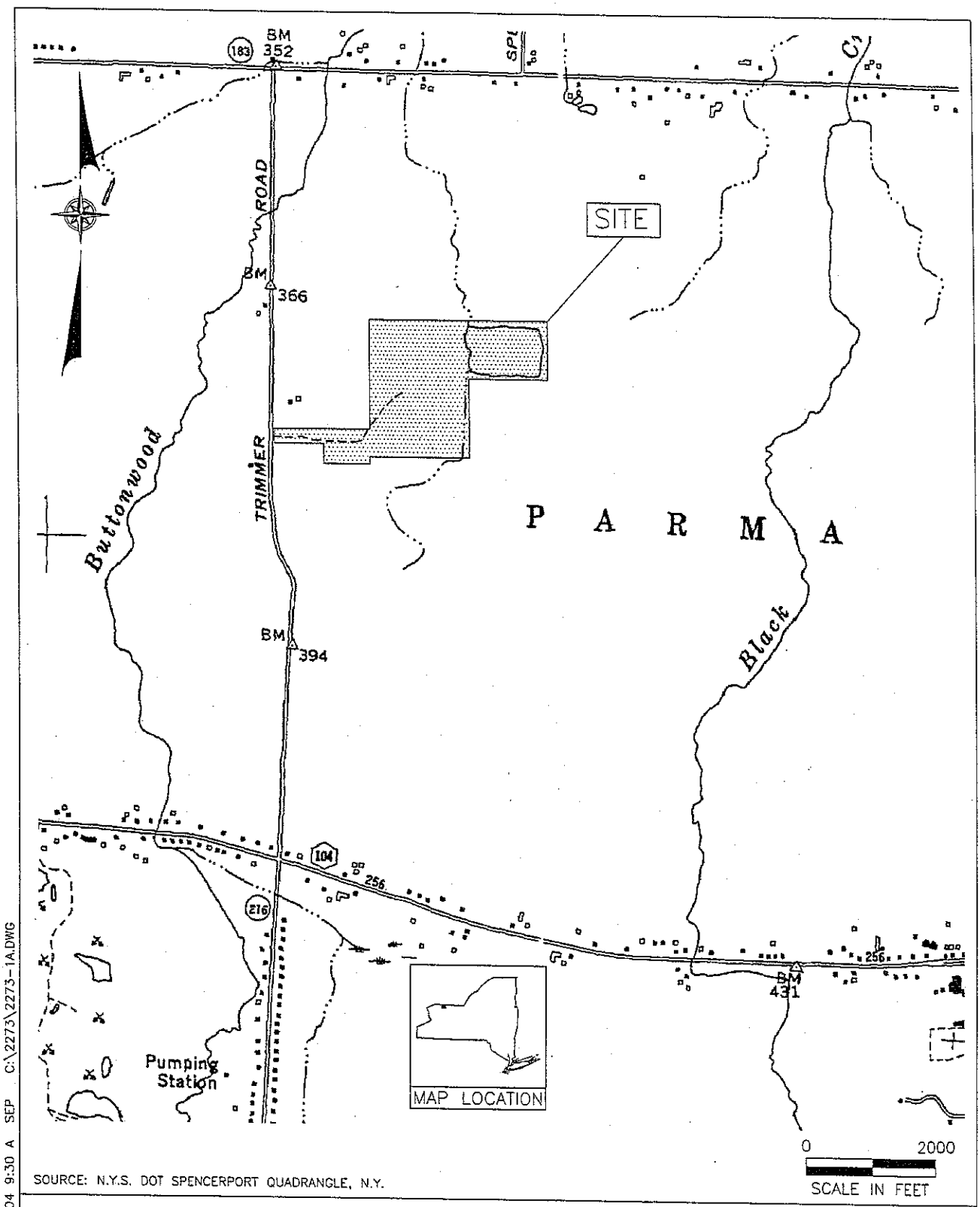
1.0 INTRODUCTION

The Trimmer Road Landfill Site, located in the Town of Parma, Monroe County, New York, is a New York State Class 2 inactive hazardous waste disposal site, registry number 8-28-012. The New York State Department of Environmental Conservation (NYSDEC) issued a Remedial Design (RD) Work Assignment to Dvirka and Bartilucci Consulting Engineers (D&B) under the State Superfund Standby Contract for the Trimmer Road Landfill Site. The RD for this site is being performed with funds allocated under the New York State Superfund Program, as part of New York State's program to investigate and remediate hazardous waste sites. The purpose of this report is to present a summary of the activities and findings of the previous investigations conducted at the site.

1.1 Site Location, Ownership and Access

The Trimmer Road Landfill Site is located in a rural portion of the Town of Parma, Monroe County, New York, approximately two-miles northwest of Parma Corners and 10-miles west northwest of the City of Rochester (see Figure 1-1). The site is on the east side of Trimmer Road about one-mile north of the intersection of Trimmer Road and New York State Route 104. The 60-acre site consists of an unlined landfill occupying 40-acres and includes a 10-acre pond (see Figure 1-2).

The site is surrounded by undeveloped land on all sides, although there are a number of residential properties within a half-mile radius. The on-site pond discharges to a tributary of Buttonwood Creek, which is a Class C stream that drains into Lake Ontario. There are drainage ditches at the perimeter of the site on portions of three sides. The ditches collect leachate seeps and surface runoff, and ultimately drain into the pond.



SOURCE: N.Y.S. DOT SPENCERPORT QUADRANGLE, N.Y.

TRIMMER ROAD LANDFILL
TOWN OF PARMA, NEW YORK

SITE LOCATION MAP

Dvirka and Bartilucci
Consulting Engineers
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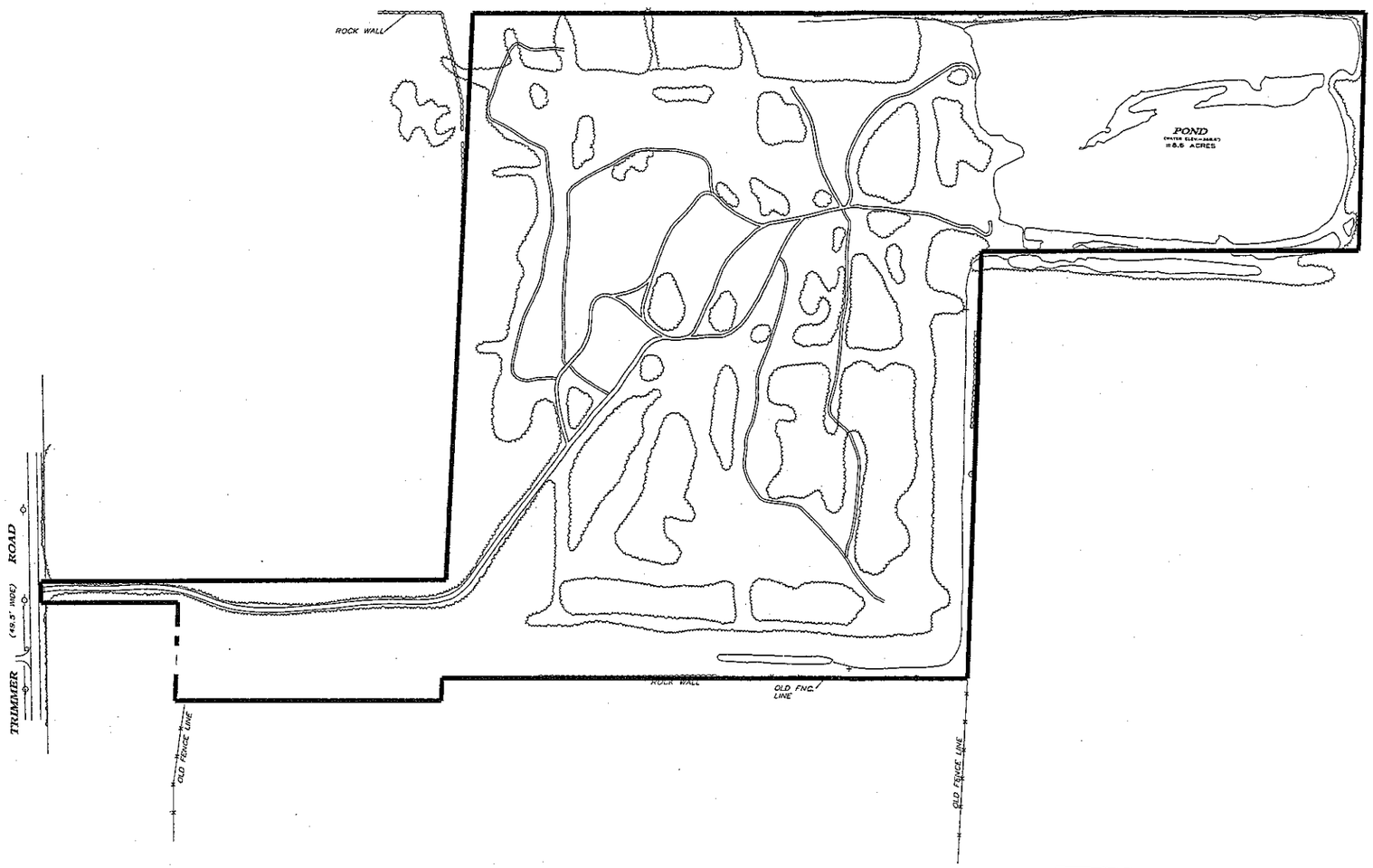
FIGURE 1-1

WED, AUG 18, 2004 9:30 A SEP C:\2273\2273-1A.DWG

GRID NORTH



LEGEND

- ROCK WALL
- OLD WIRE FENCE LINE
- EDGE OF WATER

MAR 3, 2005 SEP C:\2273\Trimmer RD base.dwg

Dvirka and Bartilucci
Consulting Engineers
A Division of William F. Cosulich Associates, P.C.

TRIMMER ROAD SITE
TOWN OF PARMA, NEW YORK

SITE MAP

FIGURE 1-2

Mr. Patrick Fasciano, who purchased the property in 1980, currently owns the site. The site is presently unused and is overgrown with emergent trees and scrub growth.

Access to the site is via a quarter-mile long private road with a locked gate adjacent to Trimmer Road. Access can also be gained by walking through forested land and following recreational vehicle trails. The site is not fenced.

1.2 Site History and Previous Investigations

The Trimmer Road Landfill Site was a private disposal facility that accepted municipal waste from surrounding towns and industrial waste from local industries. The landfilling operations took place between 1952 and 1974. Some of the industries are known to have produced hazardous waste. While there is no direct evidence of disposal of hazardous waste at the site, chemical analyses of groundwater samples indicate the presence of volatile organic compounds (VOCs) at concentrations exceeding groundwater standards.

A Phase I investigation conducted in 1983 identified sparse vegetation on the landfilled area, with debris exposed through the cover. A Phase II investigation conducted in 1986 found organic compounds and metals contamination in groundwater, and established a preliminary groundwater flow direction in the overburden to the northwest. Leachate from landfill seeps was noted entering the pond on the northeast portion of the site through the perimeter drainage ditch.

The site was delisted in 1992 due to the relatively low levels of contamination found in the Phase II study. Additional investigations in 1996 revealed the presence of site contamination in groundwater at levels that raised public health concerns due to the existence of downgradient private water supplies. Therefore, the site was re-listed as a Class 2 site in 1997.

A Remedial Investigation (RI) was conducted between October 1999 and January 2001 (D&B 2001). The purpose of the RI was to define the nature and extent of contamination resulting from previous activities at the site. A summary of the activities and findings of the RI are presented in Section 2 of this report.

Based on the results of the RI and Feasibility Study for the Trimmer Road Site and the criteria identified for evaluation of alternatives, NYSDEC selected a remedy to prevent the release of hazardous waste constituents from the site. The selected remedy, as described in the March 2001 Record of Decision (ROD), is an evapotranspiration cap consisting of a cover of enhanced soil planted with selected vegetation designed to intercept infiltrating water along with enhanced evapotranspiration to the atmosphere.

A pre-design investigation was conducted at the Trimmer Road Site to provide site specific information to evaluate the extent of site groundwater contamination and to collect information required for the design of the selected remedial alternative. The Trimmer Road Site pre-design investigation was conducted between November 2004 and February 2005. A summary of the activities and findings of the pre-design investigation are presented in Section 3 of this report.

2.0 SUMMARY OF REMEDIAL INVESTIGATION

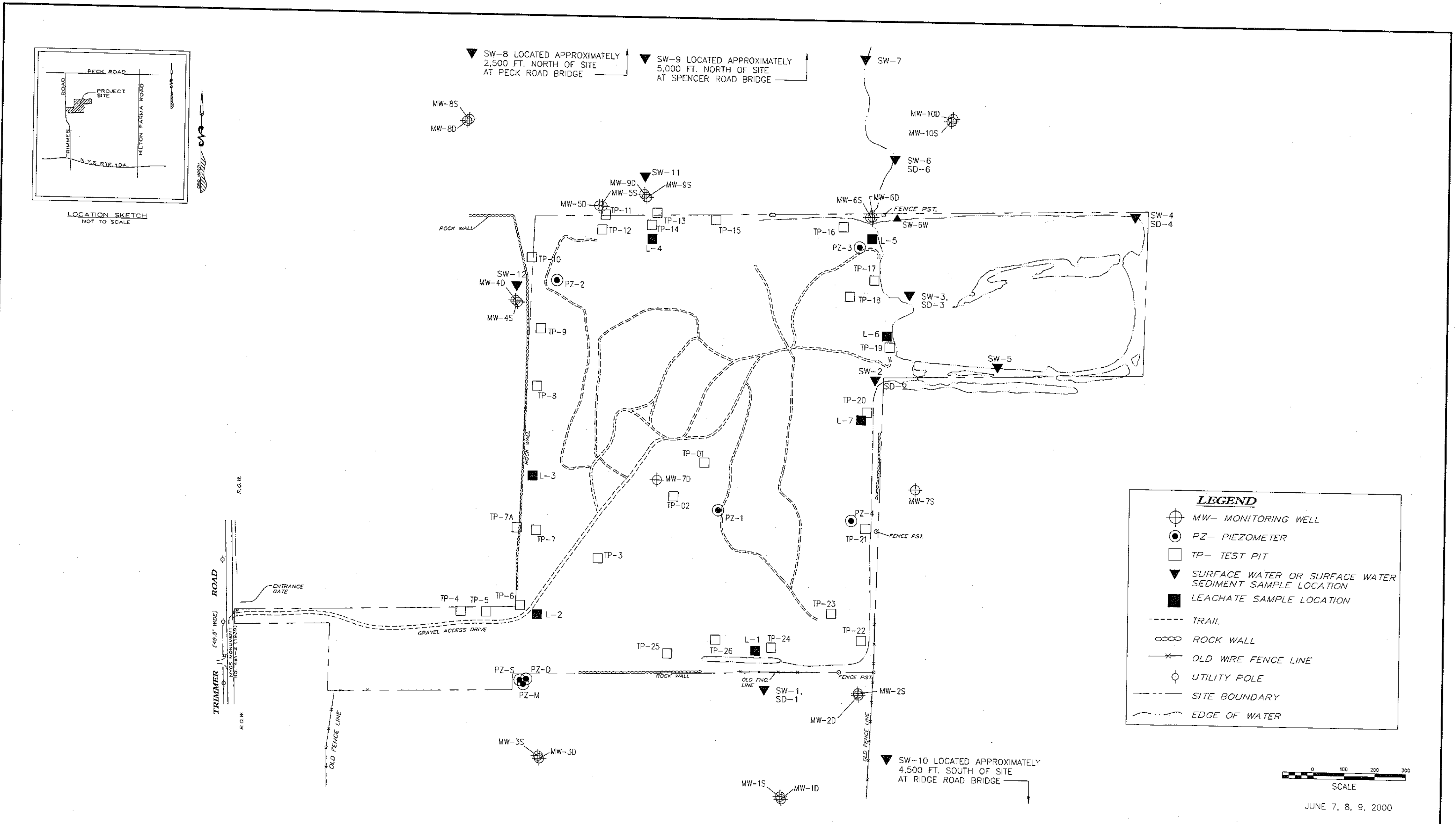
2.1 Summary of Remedial Investigation Activities

The Trimmer Road Site RI was conducted between October 1999 and January 2001 (D&B 2001). The purpose of the RI was to define the nature and extent of contamination resulting from previous activities at the site.

The RI included a base map for the site, which was compiled from aerial photography and an on-site ground control survey. A geophysical survey was conducted to identify any off-site leachate migration and the locations of possible buried drums. A landfill gas survey was completed to evaluate landfill gas generation and identify possible contaminant hot spots. A total of 26 test pits were excavated on and adjacent to the landfill during the RI to determine the areal extent of waste, thickness of soil cover and waste on-site, the presence or absence of waste off-site, and to identify the shallow stratigraphy of the site. The RI also included advancing 17 soil borings and the installation of 17 monitoring wells for analysis of soil and groundwater to determine the nature and extent of contaminants in the subsurface as well as determining physical properties of soil and hydrogeologic conditions. Surface water, sediment and leachate samples were collected to determine levels of contamination in the pond. Figure 2-1 illustrates the sample locations from the RI.

2.2 Summary of Remedial Investigation Findings

The site is located south of Lake Ontario in the plain created by glacial Lake Iroquois. The landfilled portion of the property is a nearly square parcel comprising 40-acres with relief of 10 to 25 feet above the surrounding land surface. In the area surrounding the landfill, the natural soil cover consists of 2 to 7 feet of reddish brown, poorly sorted silt and fine sand. Underlying the reddish brown unit is bedrock, which consists of the Queenston shale formation. Test Pit Logs, Boring Logs and Well Construction Logs are presented in Appendices A, B and C, respectively.


SW-8 LOCATED APPROXIMATELY 2,500 FT. NORTH OF SITE AT PECK ROAD BRIDGE
SW-9 LOCATED APPROXIMATELY 5,000 FT. NORTH OF SITE AT SPENCER ROAD BRIDGE
SW-10 LOCATED APPROXIMATELY 4,500 FT. SOUTH OF SITE AT RIDGE ROAD BRIDGE
PECK ROAD
PROJECT SITE
TRIMMER ROAD
HILTON PARMA ROAD
N.Y.S. RTE. 104
LOCATION SKETCH
NOT TO SCALE
TRIMMER ROAD
ENTRANCE GATE
GRAVEL ACCESS DRIVE
ROCK WALL
OLD FENCE LINE
FENCE PST.
R.O.W.
LEGEND
MW- MONITORING WELL
PZ- PIEZOMETER
TP- TEST PIT
SURFACE WATER OR SURFACE WATER SEDIMENT SAMPLE LOCATION
LEACHATE SAMPLE LOCATION
TRAIL
ROCK WALL
OLD WIRE FENCE LINE
UTILITY POLE
SITE BOUNDARY
EDGE OF WATER
SCALE
JUNE 7, 8, 9, 2000

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Dvirka and Bartilucci
Consulting Engineers
A Division of William F. Cosulich Associates, P.C.

TRIMMER ROAD LANDFILL
TOWN OF PARMA, NEW YORK

SAMPLE LOCATIONS

FIGURE 2-1

The geophysical survey was conducted in two phases. The first phase, conducted in October 1999, was a pilot study designed to determine the effectiveness of terrain conductivity in accomplishing the objectives described above. The pilot study revealed that mapping of conductive groundwater plumes was possible, but too much electromagnetic interference was present on-site to successfully locate buried drums. The full scale geophysical survey was conducted in November 1999, and was focused on off-site areas north and west of the landfill thought to be in the likely direction of contaminant flow. Four zones of apparently elevated conductivity were identified by the survey. Two of these zones on the north side of the landfill and the other zones were located on the west and northwest sides of the landfill. No significant zones of apparent elevated conductivity were identified along the south or southwest sides of the site. The survey did not include the east side of landfill due to the presence of the pond and because the southeast side is upgradient. The geophysical report and associated mapping are presented in Appendix D.

The landfill gas survey was conducted in order to evaluate the presence of methane and volatile organic gases in the landfill. Soil gas sampling was performed by advancing a hollow stainless steel soil probe 1 foot to 2 feet below ground surface using a slam bar and withdrawing air from the soil pore-space using a battery operated personal hygiene pump or screening instrument pump. The soil gas was screened with a photoionization detector (PID) and flame ionization detector (FID). PID and FID readings were obtained from 48 locations on the site grid network at 200 foot intervals. One soil gas sampling point exhibited an elevated FID concentration greater than 50 ppm which triggered additional sampling points. Four additional sampling points were added to the program spaced at 100-foot intervals to the north, east, south and west of the elevated reading. Each of the additional sampling locations exhibited FID measurements below 50 ppm.

Table 2-1 lists the monitoring well depths and specifications that were utilized during the RI. Groundwater beneath and adjacent to the landfill has been measured at an average depth of 3.5-feet below the ground surface in the wells screened at the base of the overburden. Groundwater has been measured at an average depth of 5-feet below the ground surface in wells screened in the bedrock. In general, groundwater flow rates are relatively slow based on slug test

TABLE 2-1
TRIMMER ROAD LANDFILL
REMEDIAL INVESTIGATION/FEASIBILITY STUDY

MONITORING WELL AND PIEZOMETER SPECIFICATIONS

Boring ID *	Total Depth	Depth to Rock or refusal	Screen			Elevation (feet above mean sea level)				
			Top	Bottom	Length	Surface	Bedrock	Screen Top	Screen Middle	Screen Bottom
MW- 1D	32.0	3.5	17.0	32.0	15.0	384.90	381.40	367.90	360.40	352.90
MW- 1S	15.5	3.5	10.0	15.0	5.0	384.82	381.32	374.82	372.32	369.82
MW- 2D	41.0	4.5	26.0	41.0	15.0	387.24	382.74	361.24	353.74	346.24
MW- 2S **	24.0	4.5	12.0	22.0	10.0	387.56	383.06	375.56	370.56	365.56
MW- 3D	32.5	3.0	17.5	32.5	15.0	382.71	379.71	365.21	357.71	350.21
MW- 3S	14.5	3.0	4.0	14.0	10.0	382.61	379.61	378.61	373.61	368.61
MW- 4D	33.0	2.5	18.0	33.0	15.0	371.68	369.18	353.68	346.18	338.68
MW- 4S	12.5	2.5	2.0	12.0	10.0	371.67	369.17	369.67	364.67	359.67
MW- 5D	42.0	4.0	26.0	42.0	16.0	369.45	365.45	343.45	335.45	327.45
MW- 5S **	25.0	4.0	11.0	21.0	10.0	369.58	365.58	358.58	353.58	348.58
MW- 6D	42.5	2.0	27.5	42.5	15.0	371.35	369.35	343.85	336.35	328.85
MW- 6S **	25.6	2.0	13.0	23.0	10.0	371.28	369.28	358.28	353.28	348.28
MW- 7D	41.0	na	26.0	41.0	15.0	387.44	na	361.44	353.94	346.44
MW- 7S	14.5	2.0	4.0	14.0	10.0	375.54	373.54	371.54	366.54	361.54
MW- 8D	35.0	4.5	20.0	35.0	15.0	365.41	360.91	345.41	337.91	330.41
MW- 8S	14.5	4.5	4.0	14.0	10.0	365.30	360.80	361.30	356.30	351.30
MW- 9D	39.5	2.0	24.5	39.5	15.0	369.69	367.69	345.19	337.69	330.19
MW- 9S	14.5	2.0	4.0	14.0	10.0	369.95	367.95	365.95	360.95	355.95
MW-10D	32.5	7.0	17.5	32.5	15.0	368.74	361.74	351.24	343.74	336.24
MW-10S	15.5	7.0	4.0	14.0	10.0	368.77	361.77	364.77	359.77	354.77
PZ-1	23.2	na	13.0	23.0	10.0	392.55	na	379.55	374.55	369.55
PZ-2	15.0	na	9.0	14.0	5.0	381.69	na	372.69	370.19	367.69
PZ-3	9.0	na	3.0	8.0	5.0	376.44	na	373.44	370.94	368.44
PZ-4	12.0	na	6.5	11.5	5.0	382.99	na	376.49	373.99	371.49

ne - Not encountered
na - Not applicable
* For deep wells (signified by the suffix 'D'), the numbers listed for the screen top and and bottom refer to the unscreened open hole interval.
** Screened intervals for these wells were interpreted from the construction diagrams included in the Phase II Investigation Report, Engineering-Science, September, 1986.

data and the flow direction is toward the northwest, in both overburden and bedrock. Groundwater elevation data is presented in Appendix E.

The media of concern for the site are groundwater, leachate, and waste/subsurface soil. The area of highest VOC contamination in groundwater is located beneath the northwest corner of the landfill where the MW-4 cluster is located. Shallow well samples exhibited vinyl chloride at 140 ppb and 1,2-DCE at 300 ppb along with other VOCs above groundwater standards. The other area where VOCs exceeded standards is located directly north of the landfill where the MW-5 and MW-9 clusters are located. The other shallow wells and all the deeper wells did not exhibit any VOC contamination including the off-site wells located northwest (MW-8) and northeast (MW-10). Inorganics such as manganese and arsenic were detected above the standards.

Leachate was observed on the northern and eastern slopes of the landfill. Leachate samples from several locations contained VOCs, semivolatile organic compounds (SVOCs), and metals above standards, criteria, and guidance (SCG) values. Chemical analyses of one subsurface soil sample collected from a test pit did not show any exceedance for any SCG. Nonetheless, the waste is the only source for the contaminants detected in groundwater and leachate. As indicated by the landfill gas survey, there were no exceedances of the SCG of 5% of the lower explosive limit for methane at any of the sampling points.

Tabulated results for all analyses are presented in Appendix F.

3.0 SUMMARY OF PRE-DESIGN INVESTIGATION

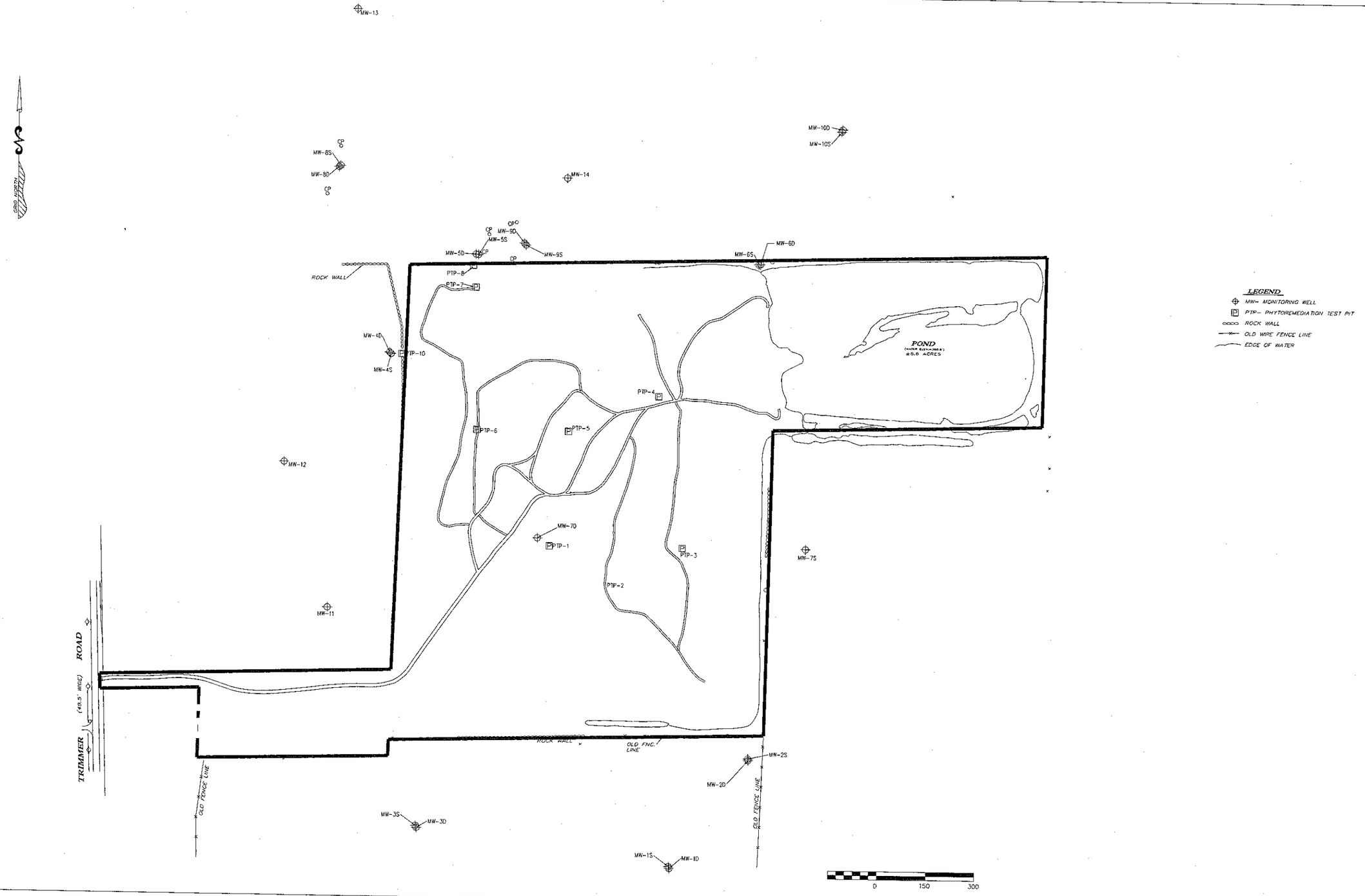
3.1 Summary of Pre-Design Investigation Activities

The purpose of the pre-design investigation was to provide site specific information to evaluate the extent of site groundwater contamination and to collect information required for the design of the selected remedial alternative. The Trimmer Road Site pre-design investigation was conducted between November 2004 and February 2005.

Eight test pits were excavated on and adjacent to the landfill to determine the thickness of soil cover and to identify the shallow soil stratigraphy in the area of the proposed alternative cover test plots. Four new monitoring wells were installed to compliment the 20 existing monitoring wells constructed during previous investigations at the site. Ten groundwater samples were collected from six existing monitoring wells and four new monitoring wells during the during the pre-design investigation. Samples for chemical analysis were collected from wells MW-4S MW-5S, MW-6S, MW-7S, MW-8S, MW-9S, MW-11, MW-12, MW-13 and MW-14 as part of the pre-design investigation groundwater sampling event. Figure 3-1 illustrates the sample locations from the pre-design investigation.

3.2 Summary of Pre-Design Investigation Findings

Based on the results of the Trimmer Road Landfill Site pre-design investigation, the following conclusions were established.



MAR 3, 2005 SEP C:\2273\Trimmer RD base.dwg

TRIMMER ROAD SITE
TOWN OF PARMA, NEW YORK

PRE-DESIGN INVESTIGATION TEST PIT AND MONITORING WELL LOCATIONS

FIGURE 3-1

Dvirka and Bartilucci
Consulting Engineers
A Division of William F. Cosulich Associates, P.C.

Geology/Hydrogeology:

- Soil (Test Pit Logs and Boring Logs are presented in Appendices A and B, respectively) encountered in the study area can be described as follows:

On-Site Geology	
Depth	**Description**
Ground surface to two feet below ground	Red silt cover material
Bottom of overburden to 25 feet below ground	Waste and fill material
Bottom of waste and fill material	Queenstone Shale - bedrock beneath landfill site

Off-Site Geology	
Depth	**Description**
Ground surface to two to seven feet	Reddish brown, poorly sorted silt and fine sand
Bottom of overlying unit	Queenstone Shale - bedrock beneath landfill site

- Table 3-1 lists the monitoring well depths and specifications that were utilized during the pre-design investigation. Groundwater (Well Construction Logs are presented in Appendix C) beneath and adjacent to the landfill is found at an average depth of 3.5 feet below the ground surface in wells screened at the base of the overburden. Groundwater is found at an average depth of 5 feet below the ground surface in wells screened in the bedrock. Groundwater elevation data is presented in Appendix E.

- Groundwater flow at the site is relatively slow based on slug test data and toward the northwest in both the shallow and deep zones. The vertical component of groundwater flow is small and generally downward; however, an upward gradient was observed in four well clusters during the investigation activities.

TABLE 3-1
TRIMMER ROAD LANDFILL SITE
PRE-DESIGN INVESTIGATION
SUMMARY OF WELL CONSTRUCTION DETAILS

Well ID	Date Installed	Well Diameter (inches)	Well Material	Total Depth (feet)	Screened Formation	Screen**			Elevation (feet above mean sea level)*				LOCATION*	
						Top (feet bgs)	Bottom (feet bgs)	Length (feet)	Casing Top	Ground Surface	Screen Top	Screen Bottom	Northing (feet)	Easting (feet)
MW-11	12/22/04	2	PVC	15.5	Overburden/Bedrock	2.3	12.3	10.0	379.84	376.63	374.38	364.38	1179122.67	1351692.21
MW-12	12/22/04	2	PVC	15.7	Overburden/Bedrock	3.4	13.4	10.0	376.82	374.51	371.16	361.16	1179569.52	1351552.22
MW-13	12/21/04	2	PVC	17.5	Overburden/Bedrock	4.8	14.8	10.0	366.36	363.64	358.89	348.89	1180966.23	1351766.44
MW-14	12/22/04	2	PVC	16.9	Overburden/Bedrock	4.4	14.4	10.0	369.85	367.38	362.96	352.96	1180455.07	1352421.35

Notes:
* - Data from survey completed by Om Popli, Inc. in 2005 (NAD 83/92, NAVD 88)
** - Screen top and bottom based on field measurements
PVC - Poly Vinyl Chloride
bgs - below ground surface

Groundwater Quality:

- Groundwater samples were collected from six existing monitoring wells (MW-4S, MW-5S, MW-6S, MW-7S, MW-8S and MW-9S) located outside the estimated extent of waste material. The following VOCs were detected in excess of SCGs in at least one groundwater sample: benzene, chlorobenzene, chloroethane, 1,4-dichlorobenzene, 1,1-dichloroethane, cis-1,2-dichloroethene, 1,1,1-thrichloroethane and vinyl chloride.

- Four shallow monitoring wells (MW-11, MW-12, MW-13 and MW-14) were installed to further delineate the nature and extent of groundwater contamination at the site. The following VOCs were detected in groundwater samples collected from monitoring well MW-13 located to the north of MW-8S and MW-8D: 1,1-dichloroethane, cis-1,2-dichloroethene and vinyl chloride. No VOCs were detected in excess of SCGs in MW-11, MW-12 and MW-14.

- The groundwater VOC contaminants identified during the pre-design investigation as exceeding SCGs are consistent with the site contaminants of concern specified in the ROD. Consistent with the results of the RI, the area of highest VOC groundwater contamination is located beneath the northwest corner of the landfill and continues off-site to the northwest. Monitoring wells MW-4S, MW-5S and MW-9S exhibited the greatest total VOC concentrations during the pre-design investigation. These wells are located downgradient from the northwest portion of the landfill in the direction of groundwater flow emanating from the landfill.

- In general, VOC concentrations observed during the pre-design investigation were found to be similar to those reported in the February 2001 RI Report.

- Groundwater samples were collected from ten monitoring wells (MW-4S, MW-5S, MW-6S, MW-7S, MW-8S, MW-9S, MW-11, MW-12, MW-13 and MW-14) located outside the estimated extent of waste material. Elevated levels of dissolved metals were detected in each of the monitoring wells except MW-7S. SCGs were exceeded in at least one of the samples collected for the following dissolved metals: antimony, barium, iron, magnesium, manganese, sodium and thallium.

- Groundwater inorganic contaminants identified during the pre-design investigation are generally consistent with the site contaminants of concern specified in the ROD. Consistent with the results of the RI, the area of highest metals groundwater contamination is located beneath the northwest corner of the landfill and continues off-site to the northwest.

- In general, dissolved metal concentrations were found to be lower during the pre-design investigation than reported in the February 2001 RI Report.

- The results of the pre-design investigation do not indicate any specific limitations to the technologies identified in the ROD for remediation of the groundwater contamination encountered. However, elevated levels of 1,1-dichloroethane, cis-1,2-dichloroethene and vinyl chloride were identified in MW-13 located north of MW-8S and MW-8D.

Tabulated results for all analyses are presented in Appendix F.

APPENDIX A

TEST PIT LOGS

Dvirka and Bartilucci Test Pit Log

Pit No. TP- 1
Sheet 1 of 1
Pit Location:

Contractor: PW
Operator: Jim
Inspector: JM/SP
Equip Type: Terex Rubber Tire Backhoe TX 760B

Project Name: Trimmer Road LF
Project #: 2273

Start: 1215
Finish: 1225
Weather: overcast mid 50s

Plot Plan (see location map)

Groundwater Observations

Water level	NOT encountered	
Time	1215	
Date	11/17/04	
Depth of pit	2.5	

USCS Classification	Sample No.	Depth	Description	Comments
	PID			
CL	0.0	1	0-0.5 Brn silt clay mixture slightly moist/Earth worms/moist	
	0.0	2		
CL+Fill	0.0	3	0.5-1 Trash + soil mixture Bottles/Plastic/Glass wood. Root structure ≈ 2.5' into Ground surface	
		4		
		5		
		6		
		7	Soil Brn silt + clay mixture 80% Trash/moist	
Fill		8	1-2.5 mostly Trash Household Debris Bottles/Plastic/Glass/moist	
		9		
		10		
		11	Test Pit 3' long by 2' wide	
		12	by 2.5' deep. No Groundwater	
		13	Back Filled move To next	
		14	Location	
		15		
		16		
		17		
		18		
		19		
		20		

Stratigraphic Summary:

Contractor: PW
Operator: Jim
Inspector: JM
Equip Type: TX760B

Dvirka and Bartilucci Test Pit Log

Project Name: Trimmer Road LF
Project #: 2273

Pit No. TP- 2
Sheet 1 of 1
Pit Location:

Groundwater Observations		
Water level	NOT ENCOUNTERED	
Time		
Date		
Depth of pit	2.0	

Start: 1230
Finish: 1243
Weather: overcast mid 50's

Plot Plan (see location map)

USCS Classification	Sample No.	Depth	Description	Comments
	P10	1		ROOTS 12 TO 18"
CL	0.0		Br/Red clay + SIT mixture LEAN 10-20% Angular Boulders soft / moist	
	0.0	2		
		3	1-2' TRASH (Tire, CANS-TIN some wood & wire) w/ clay + SIT mixture moist	
		4		
		5		
		6	TEST PIT, 3' IN LENGTH 2' 2' wide Deep NO Groundwater encountered	
		7		
		8		
		9		
		10		
		11		
		12		
		13		
		14		
		15		
		16		
		17		
		18		
		19		
		20		

Stratigraphic Summary:

Contractor: PW
Operator: Jim
Inspector: JM
Equip Type: TX760B

Dvirka and Bartilucci Test Pit Log

Project Name: Trimmer Road LF
Project #: 2273

Pit No. TP- 3
Sheet 1 of 1
Pit Location:

Groundwater Observations		
Water level	N/A	
Time	1247	
Date	11/17	
Depth of pit	2'	

Start: 1247
Finish: 1255
Weather: overcast mid 50s

Plot Plan (see location map)

USCS Classification	Sample No.	Depth	Description	Comments
	PID			
CL	0.0	1	0-16" Ba/Rec - silt + clay mixture slightly moist lean clay / medium stiff	20" deep root system
	0.0	2		
		3		
		4	16"-24" plastic / bottles / tin cans some soil (same as above) 95% trash / moist	
		5		
		6		
		7	end pit at 2' no groundwater	
		8	Test pit 3' long x 2' wide x 2' deep	
		9		
		10		
		11		
		12		
		13		
		14		
		15		
		16		
		17		
		18		
		19		
		20		

Stratigraphic Summary:

Contractor: Ru	**Dvirka and Bartilucci Test Pit Log**		Pit No. TP- 4
Operator: Jim			Sheet 1 of 1
Inspector: JM	Project Name:	Trimmer Road LF	Pit Location:
Equip Type: TX760B	Project #:	2273	

Groundwater Observations					Plot Plan
Water level	N/A		Start:	1304	(see location map)
Time	1304		Finish:	1319	
Date	11/17		Weather:	overcast 50s	
Depth of pit	3				

USCS Classification	Sample No.	Depth	Description	Comments
CL	PID 0.0	1	Brn/Rd Silt + clay mixture slight ribboning	very tight clay w/ root system ~ 18" likely unrootable
	0.0	2	1-3' 10-20% angular boulders / soft/moist	
	0.0	3	Some mottling at 2-3' Green/Gray silt + clay very stiff / dry	
		4		
		5	3' waste consisting of plastic/glass/metal / dry	
		6		
		7		
		8	Clay/silt mixture gets tighter w/ depth very stiff / dry	
		9		
		10	Test pit 3'L x 2'w x 3'D	
		11	No groundwater encountered	
		12		
		13		
		14		
		15		
		16		
		17		
		18		
		19		
		20		

Stratigraphic Summary:

d&b test pit log form

Dvirka and Bartilucci Test Pit Log

Contractor:	PW	Project Name:	Trimmer Road LF
Operator:	Jim	Project #:	2273
Inspector:	JM		
Equip Type:	TX760B		

Pit No. TP- 5
Sheet 1 of 1
Pit Location:

Groundwater Observations

Water level	N/A	
Time	1325	
Date	11/17	
Depth of pit	2'	

Start: 1325
Finish: 1335
Weather: Overcast, 50s

Plot Plan

(see location map)

USCS Classification	Sample No.	Depth	Description	Comments
CL ↓	PID 0.0	1	0-1' Rd/Br Cl + Slt mixture some ribbowing medium soft 10-20% Angular Boulders / moist	Root system 16" deep
	0.0	2		
		3		
		4	1'-2' Household waste (carpeting / plastic / glass) moist	
		5		
		6		
		7	Test pit 2'W x 3'L x 2'D No Groundwater encountered	
		8		
		9		
		10		
		11		
		12		
		13		
		14		
		15		
		16		
		17		
		18		
		19		
		20		

Stratigraphic Summary:

Dvirka and Bartilucci Test Pit Log

Contractor: Pw
Operator: Jim
Inspector: JM
Equip Type: TX 760 B

Project Name: Trimmer Road
Project #: 2273

Pit No. TP- 6
Sheet 1 of 1
Pit Location:

Groundwater Observations

Water level	N/A	
Time	1339	
Date	11/17	
Depth of pit	3'	

Start: 1339
Finish: 1350
Weather: Overcast
mid 50s

Plot Plan (see location map)

USCS Classification	Sample No.	Depth	Description	Comments
CL	PID 0	1	0-4" Red/Bn SIT+Clay mixture / very soft / moist	18-24" Root depth
		2		
	0	3	4"-6" Green/Gray SIT+ clay / moist	
		4		
	4.6	5	6"-3' Red/Bn SIT+Clay medium stiff slightly moist	
		6		
	4.6	7	3' waste consisting of plastic/paint can/ paper/syringe/moist	
		8		
		9		
		10	3'L x 2'W x 3'D	
		11	No Groundwater	
		12		
		13		
		14		
		15		
		16		
		17		
		18		
		19		
		20		

Stratigraphic Summary:

Contractor: PW
Operator: Jim
Inspector: JM
Equip Type: TX760B

Dvirka and Bartilucci Test Pit Log

Project Name: Trimmer Road
Project #: 2273

Pit No. TP-7
Sheet 1 of 1
Pit Location:

Groundwater Observations		
Water level	3'	
Time	1400	
Date	11/17	
Depth of pit	7	

Start: 1400
Finish: 1415
Weather: overcast mid 50s

Plot Plan (see location map)

USCS Classification	Sample No.	Depth	Description	Comments
CL	PID 0.0	1	0-0.5' Red/Br very soft clay w/ 10-20 Any Boulders	moist
	0.0	2		
	0.0	3	.5'-10" Black/Brown very soft clay	moist
	0.0	4		
		5	10"-3' Red/Br medium stiff clay	moist
		6		
		7	3'-3.5 waste consisting of plastic/wood/ paper	saturated
		8		
		9	3'L x 2'W x 3.5'D	
		10	Ground water at 3.5'	
		11		
		12		
		13		
		14		
		15		
		16		
		17		
		18		
		19		
		20		

Stratigraphic Summary:

Dvirka and Bartilucci Test Pit Log

Contractor: PW
Operator: Jim
Inspector: JM
Equip Type: TX 760 B

Project Name: Trimmer Road
Project #: 2273

Pit No PTP- 8
Sheet 1 of 1
Pit Location:

Groundwater Observations

Water level	2'	
Time	1420	
Date	11/17	
Depth of pit	3'	

Start: 1420
Finish: 1430
Weather: overcast mid 40's

Plot Plan (see location map)

USCS Classification	Sample No.	Depth	Description	Comments
CL	P10 0.0	1	0-1 Black/Brown organic soil silt + clay mixture FAT soft saturated	Tree roots to 24"
	0.0	2		
	0.0	3		
		4	1-3' orange/Brown mottled silt + clay mixture medium stiff/ moist	
		5		
		6		
		7		
		8	← Groundwater seepage at 2' BGS breaking out of the side of test pit	
		9		
		10		
		11	Test pit 2'w x 3'L x 3'D	
		12	No waste encountered	
		13		
		14		
		15		
		16		
		17		
		18		
		19		
		20		

Stratigraphic Summary:

Dvirka and Bartilucci Test Pit Log

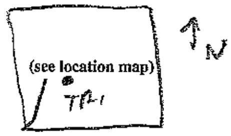
Contractor:	Parratt Wolff
Operator:	Brad Palmer
Inspector:	G. Gould
Equip Type:	Kobelco Track Excavator
Project Name:	Trimmer Rd LF
Project #:	170
Pit No. TP-	01
Sheet	1 of 1
Pit Location:	

Groundwater Observations

Water level		
Time		
Date		
Depth of pit		

Start:	12/20/95	12:35
Finish:	12/20/95	13:45
Weather:	overcast, wind from SE 0-10 mph	

Plot Plan



USCS Classification	Sample No.	Depth	Description	Comments
		1	grass & silt cover - red/brown	
		2	Refuse	
		3	Plastic bags, metal scraps	
		4	wood, stamped sheet metal pieces	
		5	water seep	
		6		-garbage odor
		7		
		8	newspaper date Nov 1973	-
		9	↑	
		10		
		11	Refuse	
		12		
		13		
		14		
		15		
		16		
		17		
		18		
		19		
		20	↓	

Stratigraphic Summary:

12" rounded boulder, silt

23'

bottom of boring

Dvirka and Bartilucci Test Pit Log

Contractor: Permatt-Wall
Operator: Brad Palmer
Inspector: G. Gould
Equip Type: Kubota

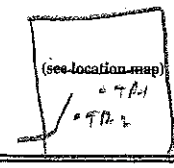
Project Name: Trimmer Rd LF.
Project #: 1701

Pit No. TP- TP-2
Sheet 1 of 1
Pit Location: E of MW-7D

Groundwater Observations		
Water level		
Time		
Date		
Depth of pit		

Start: 12/20/99 13:55
Finish: 12/20/99 14:35
Weather: overcast, wind gusting from south 5-15 mph 40°F

Plot Plan



USCS Classification	Sample No.	Depth	Description	Comments
		1	grass & silt cover — 0.5'	
		2	Waste	
		3	wood, paper, carpeting	
		4	plastic bags	
		5		
		6		- GMC gas receipts from 1968
		7	- water seep - black/gray water leaking in	- Hanover accounting printouts
		8		
		9		
		10		
		11		- garbage odor
		12		
		13		- water leaking in from walls of excavation (not ground surface)
		14		
		15		
		16		
		17		
		18	silt cover layer	
		19	- metal pressure tank 270 gallon	
		20	newspaper from 1967	
		21	red sistone/sandstone - moist - garbage right on rock - no apparent water in rock	

Stratigraphic Summary:

Bottom of pit 21.0'

Contractor: PW
Operator: B. Palmer
Inspector: G. Gould
Equip Type: Kobelco Track mounted excavator

Dvirka and Bartilucci Test Pit Log

Project Name: Trimmer Rd L.F.
Project #: 1701

Pit No. TP-3
Sheet 1 of 1
Pit Location: in low area near access rd.

Groundwater Observations

Water level		
Time		
Date		
Depth of pit		

Start: 14:50 12/20/99
Finish: 12/20/99 15:45
Weather: overcast, wind 0-15 mph S, SW, 45°F

Plot Plan

USCS Classification	Sample No.	Depth	Description	Comments
		1	grass & silt cover	
		2	Waste, bricks, wood - cut tree logs, tires	
		3		
		4		
		5	brown Plastic bags	
		6		- no newspapers
		7	gray	
		8	Genesee Beer can with pull tab (detached)	- water dripping in from walls of garbage
		9		
		10		
		11		
		12		
		13		
		14		
		15	siltstone/sandstone red silt & clay weathery	
		16	bottom of excavation 19'	
		17		
		18		
		19		
		20		

Stratigraphic Summary:

Dvirka and Bartilucci Test Pit Log

Contractor: DW
Operator: B. Palmer
Inspector: G. Gould
Equip Type: Kobelco Trackhoe

Project Name: Trimmer Rd LF
Project #: 1701

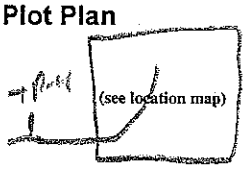
Pit No. TP- 4
Sheet 1 of 1
Pit Location: N of access Rd.

Groundwater Observations

Water level		
Time		
Date		
Depth of pit		

Start: 12/21/09 7:45
Finish: 12/21/09 15:50
Weather: P cloudy 25°F

Plot Plan



USCS Classification	Sample No.	Depth	Description	Comments
		1	moist brown - red silt tr. gravel & cobbles	
		2		- no water in bottom after 8 hours open
		3		
		4	green rock fragments	- small seep at 3 feet - not enough to reach bottom of hole
		5	weathered siltstone	
		6		
		7		
		8		Photos 4, 5, 6, 7, 8, 9 of pit & cuttings pile
		9		
		10	red siltstone 9.0'	
		11		
		12		
		13		
		14		
		15		
		16		
		17		
		18		
		19		
		20		

Stratigraphic Summary:

Dvirka and Bartilucci Test Pit Log

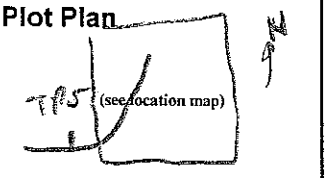
Contractor: PW
Operator: B. Palmer
Inspector: G. Gould
Equip Type: Kobelco Track Exc.

Project Name: Trimm Rd L.F
Project #: 1701

Pit No. TP- 5
Sheet 1 of 1
Pit Location: N of access road

Start: 12/21/99 8:15
Finish: 12/21/99 15:20
Weather: ML/windy 35°F

Plot Plan



Groundwater Observations		
Water level		
Time		
Date		
Depth of pit		

USCS Classification	Sample No.	Depth	Description	Comments
		1	moist brown silt	
		2	moist black silty organic	water seeps at black layer
		3	weathered red siltstone	
		4		- oily sheen on water
		5		
		6		- scattered waste at surface
		7		
		8		- no waste at depth
		9		
		10	Red siltstone bedrock 9.0'	- Sample of soil collected at 15:15 from black layer
		11		
		12		- Water sample collected from black layer at 15:20
		13		
		14		
		15		
		16		- 18" of water in bottom of pit
		17		- all water seeps are from black layer
		18		
		19		
		20		- Photos 22, 23, 24 on Roll 2 1, 2, 3 at Roll 2

Stratigraphic Summary:

Contractor: PW
Operator: Brad Palmer
Inspector: G. Gould
Equip Type: Kobelco Trackhoe

Dvirka and Bartilucci Test Pit Log

Project Name: Trimmer Rd LF
Project #: 1707

Pit No. TP- TP-6
Sheet 1 of 1
Pit Location: W waste limit at access rd.

Groundwater Observations		
Water level		
Time		
Date		
Depth of pit		

Start: 12/21/99 8:40
Finish: 12/21/99 15:30
Weather: Sunny 25°F

Plot Plan

TP-6 (see location map) ↑N

USCS Classification	Sample No.	Depth	Description	Comments
		1	moist brown silt & sand	- scattered metal debris at surface
		2		
		3		- no gasoline
		4		- no water
		5		
		6	moist red weathered siltstone	photos: 22, 23, 24
		7		25
		8		- near crane turntable
		9		
		10		
		11		
		12	red siltstone 11.0' bottom of pit	
		13		
		14		
		15		
		16		
		17		
		18		
		19		
		20		

Stratigraphic Summary:

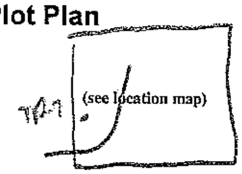
Dvirka and Bartilucci Test Pit Log

Contractor:	PW
Operator:	B. Palmer
Inspector:	G. Gould
Equip Type:	Kobelco Track Ex.
Project Name:	Trimmer Rd L.F.
Project #:	1701
Pit No. TP-	7
Sheet 1 of	1
Pit Location:	near west side perimeter berm
Start:	12/21/99 9:30
Finish:	12/21/99 14:35
Weather:	p. sunny 25°F

Groundwater Observations

Water level		
Time		
Date		
Depth of pit		

Plot Plan



USCS Classification	Sample No.	Depth	Description	Comments
		1	grass & silt cover	
		2		Photos 19, 20, 21
		3		
		4		TP-7A ^ TP-7 ↑N
		5		
		6	bottles, paper	berm & property line
		7		
		8		TP-7A - no waste 1½' top soil over 2½' red silt - weathered bedrock siltstone
		9		
		10	waste	
		11		
		12		TP-7 -
		13		
		14		
		15		
		16		14:00 water filled up 4' in bottom of pit since this morning
		17		
		18		
		19		
		20		
			bottom of boring on red siltstone	

Stratigraphic Summary:

Contractor: PW
Operator: B. Palmer
Inspector: B. Gould
Equip Type: Kobelco Track Exc.

Dvirka and Bartilucci Test Pit Log

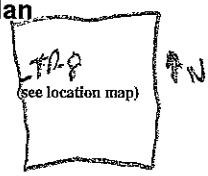
Project Name: Trimmer Rd LF.
Project #: 1701

Pit No. TP- 8
Sheet 1 of 1
Pit Location: west of Line 6

Groundwater Observations		
Water level		
Time		
Date		
Depth of pit		

Start: 12/21/99 11:30
Finish: 12/21/99 14:00
Weather: P. sunny, 25°F

Plot Plan



USCS Classification	Sample No.	Depth	Description	Comments
		1	moist brown silt	no waste at time well
		2	red weathered siltstone	some waste uphill from well
		3		
		4		Photos 16-18
		5	red siltstone 4.0'	
		6	bottom of pit 4.0'	
		7		
		8		
		9		
		10		
		11		
		12		
		13		
		14		
		15		
		16		
		17		
		18		
		19		
		20		

Stratigraphic Summary:

Dvirka and Bartilucci Test Pit Log

Contractor: PW
Operator: B. Palmer
Inspector: G. Gould
Equip Type: Kobelco Track Exc.

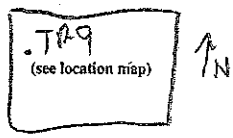
Project Name: Tremont Rd LF
Project #: 1701

Pit No. TP- 9
Sheet 1 of 1
Pit Location: W end of Line H

Groundwater Observations		
Water level		
Time		
Date		
Depth of pit		

Start: 12/21/99 12:00
Finish: 12/21/99 13:07
Weather: Overcast, 25° F

Plot Plan



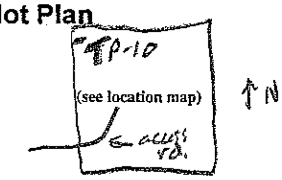
USCS Classification	Sample No.	Depth	Description	Comments
		1	moist brown silt	- natural ground surface slopes down as moving away from edge of landfill
		2		
		3	moist black silt	
		4		
		5	wet waste bottles, cans, papers	
		6		
		7		
		8		
		9		
		10	silt/stone bedrock 9.0'	Photos 10, 11
		11		
		12		- appears as though landfill was excavated before filling w/ waste
		13		
		14		
		15		
		16		
		17		
		18		
		19		
		20		

Stratigraphic Summary:

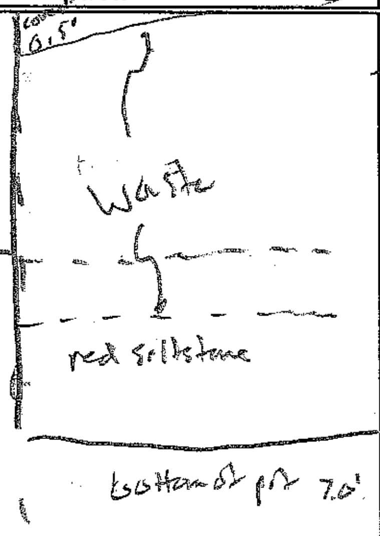
Dvirka and Bartilucci Test Pit Log

Contractor: PW	Project Name: Trimmer Rd LF.	Pit No. TP-10
Operator: B. Palmer	Project #: 1701	Sheet 1 of 1
Inspector: G Gould		Pit Location: W end of Line I
Equip Type: Kobelco Track Exc.		

Groundwater Observations			Start: 12/21/99 12:45	Plot Plan
Water level			Finish: 12/21/99 13:35	
Time			Weather: pt Cloudy 25° F	
Date				
Depth of pit				



USCS Classification	Sample No.	Depth	Description (W edge of proposed ... up hill E)	Comments
		1	moist silt	- water leaking at gravel layer
		2	no waste	
		3	weathered red siltstone	photos 12-15
		4		- bottom of pit filled with
		5	red siltstone; bottom of pit 4.0'	water after 45 minutes open
		6		- slight oily sheen on water
		7		
		8		
		9		
		10		
		11		
		12		
		13		
		14		
		15		
		16		
		17		
		18		
		19		
		20		



Stratigraphic Summary:

Dvirka and Bartilucci Test Pit Log

Contractor:
Operator:
Inspector:
Equip Type: Kobelco 909

Project Name: Trimmer Rd LF
Project #: 1701

Pit No. TP-TP-11
Sheet 1 of 1
Pit Location: NW corner of LF off site

Groundwater Observations		
Water level		
Time		
Date		
Depth of pit		

Start: 12/22/94 8:00
Finish: 12/22/94 8:17
Weather: m. clear, wind from W 5-10 20° F

Plot Plan - TP-11: (see location map) ↑N

USCS Classification	Sample No.	Depth	Description	Comments
		1	moist dark brown/black organic silt	
		2	moist grey f. sand	~2.5' water seep
		3	moist brown f. sandy silt	
		4		photos Roll 3 1, 2, 3
		5	red weathered siltstone	
		6		
		7		no waste
		8	bottomed pit 7.0'	
		9		
		10		
		11		
		12		
		13		
		14		
		15		
		16		
		17		
		18		
		19		
		20		

Stratigraphic Summary:

Dvirka and Bartilucci Test Pit Log

Contractor: PW
Operator: B. Palmer
Inspector: G. Gould
Equip Type: Kobelco 905

Project Name: Trimmer Ave L.F.
Project #: 1761

Pit No. TP- 12
Sheet 1 of 1
Pit Location: 5 of N edge of LF west corner

Groundwater Observations		
Water level		
Time		
Date		
Depth of pit		

Start: 12/22/99 8:18
Finish: 12/22/99 8:35
Weather: O.C. cold 20°F

Plot Plan: TP-12 (see location map)

USCS Classification	Sample No.	Depth	Description	Comments
		1	Soil cover	
		2	black-gray waste	
		3	wet	
		4		water is flowing in from sides at several gallons per minute - fastest inflow of all pits so far
		5	bottles, bags	
		6		
		7		
		8		
		9		
		10	red silt stone	
		11	bottom of excavation 10.5'	
		12		
		13		
		14		
		15		
		16		
		17		
		18		
		19		
		20		

Photos 4, 5, 6 on Roll 3

- ground is spongy upto 7' south of berm
- waste is inside of berm

Stratigraphic Summary:

Dvirka and Bartilucci Test Pit Log

Contractor: PW
Operator: B. Palmer
Inspector: G. Gaw
Equip Type: Kobelco 909

Project Name: Trimmer Rd
Project #: 1701

Pit No. TP- 13
Sheet 1 of 1
Pit Location: N of LF - in cat tails

Groundwater Observations		
Water level		
Time		
Date		
Depth of pit		

Start: 12/22/99 8:38
Finish: 12/22/99 8:48
Weather: P. cl. calm 20°F

Plot Plan: TP-13 (see location map) N4

USCS Classification	Sample No.	Depth	Description	Comments
		1	moist brown to black organic matter	
		2	wet brown fine sand & silt	~1.5' small water seep
		3		
		4		Photos Roll 3 7,8
		5	red weathered siltstone	
		6		
		7		
		8	bottom of excavation 7.0	
		9		
		10		
		11		
		12		
		13		
		14		
		15		
		16		
		17		
		18		
		19		
		20		

Stratigraphic Summary:

Contractor: PW
Operator: B. Palmer
Inspector: G. Gould
Equip Type: Kobelco 909

Dvirka and Bartilucci Test Pit Log

Project Name: Trimmer Rd LF
Project #: 1701

Pit No. TP- 14
Sheet 1 of 1
Pit Location: inside wedge

Groundwater Observations

Water level		
Time		
Date		
Depth of pit		

Start: 12/22/99 8:49
Finish: 12/22/99 9:00
Weather: P. Sunny 22°F

Plot Plan

USCS Classification	Sample No.	Depth	Description	Comments
		1	moist brown silt cover material	
		2		water seeps from 1.0 - 4.0' through waste
		3	waste tires & plastic	
		4		
		5	weathered siltstone	no photos
		6		
		7		
		8	bottom of pit 7.0'	
		9		
		10		
		11		
		12		
		13		
		14		
		15		
		16		
		17		
		18		
		19		
		20		

Stratigraphic Summary:

Dvirka and Bartilucci Test Pit Log

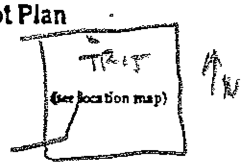
Contractor: PW
Operator: B. Palmer
Inspector: G. Gould
Equip Type: Kobelco 909

Project Name: Trimmer Rd LF
Project #: 1701

Pit No. TP- 15
Sheet 1 of 1
Pit Location: E of contractor 15 M wooded portion of N site

Start: 12/22/99 9:05
Finish: 12/22/99 9:20
Weather: sunny cold 28°F

Plot Plan



Groundwater Observations		
Water level		
Time		
Date		
Depth of pit		

USCS Classification	Sample No.	Depth	Description	Comments
		1	moist brown silt	
		2		no water
		3	mottled red w/some green 2.0 weathered siltstone	no waste Photos Roll 3 9,10,11
		4		
		5	siltstone - well indurated	bucket scraping hard rock
		6	bottom excavation 5.0'	
		7		
		8		
		9		
		10		
		11		
		12		
		13		
		14		
		15		
		16		
		17		
		18		
		19		
		20		

Stratigraphic Summary:

Contractor: PW
Operator: B. Pulmer
Inspector: L. Gard
Equip Type: Kobelco 969

Dvirka and Bartilucci Test Pit Log

Project Name: Trimmer Rd
Project #: 1701

Pit No. TP- 16
Sheet 1 of 1
Pit Location: NE corner - on fill

Groundwater Observations

Water level		
Time		
Date		
Depth of pit		

Start: 12/12/99 9:35
Finish: 12/12/99 9:50
Weather: Sunny 25°F

Plot Plan

USCS Classification	Sample No.	Depth	Description	Comments
		1	moist red brown silt	
		2		
		3	waste - plastic bags, bottles, wood	
		4		4/10 water seeps through waste
		5		
		6		
		7	weathered siltstone	
		8	bottom of excavation 7.5'	- we shook ground surface w/ excavator - spongy to 7' South of N edge - N berm feels solid
		9		
		10		
		11		
		12		
		13		
		14		no photos
		15		
		16		
		17		
		18		
		19		
		20		

Stratigraphic Summary:

Dvirka and Bartilucci Test Pit Log

Contractor: PW
Operator: B. Palmer
Inspector: G. Gould
Equip Type: Lobster 909

Project Name: Trimmer Rd L.F.
Project #: 1701

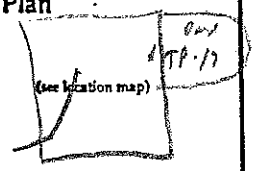
Pit No. TP- 17
Sheet 1 of 1
Pit Location: E side of site near pond

Groundwater Observations

Water level		
Time		
Date		
Depth of pit		

Start: 12/12/99 9:58
Finish: 12/12/99 10:15
Weather: Sunny / 28°F

Plot Plan



USCS Classification	Sample No.	Depth	Description	Comments
		1	moist red brown silt	
		2		
		3	boulders angular & rounded siltstone, sandstone	- upper 6' appears to be boulder pile
		4	green sandstone boulder	
		5		
		6		Photos Roll 3 12, 13, 14
		7	flaggy, angular boulders - green sandstone	
		8		
		9	bottom of excavation 8.0	
		10		pond bottom is 4' deep at 15' E of shore line
		11		
		12		
		13		
		14		
		15		
		16		
		17		
		18		
		19		
		20		

Stratigraphic Summary:

Contractor: PW
Operator: B. Palmer
Inspector: G. Gould
Equip Type: Kobelco 909

Dvirka and Bartilucci Test Pit Log

Project Name: Trimmer Rd L.F.
Project #: 1701

Pit No. TP-18
Sheet 1 of 1
Pit Location: lumpy area on line 2200 near road

Groundwater Observations

Water level		
Time		
Date		
Depth of pit		

Start: 12/22/99 10:20
Finish: 12/22/99 11:35
Weather: sunny 28°F

Plot Plan

USCS Classification	Sample No.	Depth	Description	Comments
		1	thin silt & boulder cover	
		2		
		3		
		4	waste	
		5		
		6	tires, 1977 newspaper	
		7		
		8	glass	possible methane odor
		9		
		10		- sweet solvent or hand cleaner-like odor
		11		
		12		water flowing in hole
		13		
		14		
		15	bottom of excavation 14.0	stopped at obstruction of water-waste containers deeper
		16		
		17		
		18		
		19		
		20		

Stratigraphic Summary:

Contractor: PW
Operator: B. Palmer
Inspector: C. Gould
Equip Type: Kubota 909

Dvirka and Bartilucci Test Pit Log

Project Name: Trimmer Rd LF
Project #: 1701

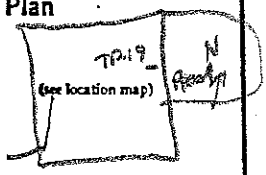
Pit No. TP-19
Sheet 1 of 1
Pit Location: SW corner of pond

Groundwater Observations

Water level		
Time		
Date		
Depth of pit		

Start: 12/22/99 10:40
Finish: 12/22/99 11:15
Weather: sunny 49°F

Plot Plan



USCS Classification	Sample No.	Depth	Description	Comments
		1	moist brown silt	- no waste
		2	↓	- edge of pond
		3		- no water seeps
		4	red weathered siltstone	
		5		
		6	bottom of excavation 5.5'	
		7		
		8		
		9		
		10		
		11		
		12		
		13		
		14		
		15		
		16		
		17		
		18		
		19		
		20		

Stratigraphic Summary:

Contractor: PW
Operator: B. Palmer
Inspector: G. Gald
Equip Type: Kobelco 909

Dvirka and Bartilucci Test Pit Log

Project Name: Trimmer LF
Project #: 1191

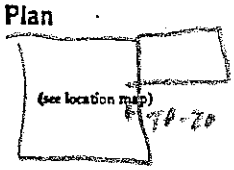
Pit No. TP- 20
Sheet 1 of 1
Pit Location: SW of pad - leachate seep near W-2

Groundwater Observations

Water level		
Time		
Date		
Depth of pit		

Start: 12/22/99 11:20
Finish: 12/22/99 11:40
Weather: Sunny breezy from W 25° F

Plot Plan



USCS Classification	Sample No.	Depth	Description	Comments
		1	wet sod silt & grass	
		2	white	
		3	water running in from waste 2'-7'	
		4		
		5		
		6		
		7	Peat weathered siltstone 7.0	- hard, sandy at bottom
		8		
		9	bottom of pit 8.0'	Photos Roll 3 #5, 16, 17
		10		
		11		
		12		
		13		
		14		
		15		
		16		
		17		
		18		
		19		
		20		

Stratigraphic Summary:

Contractor: QW
Operator: B. Palmer
Inspector: L. Gould
Equip Type: Kubota 909

Dvirka and Bartilucci Test Pit Log

Project Name: Trimmer Rd LF
Project #: 1701

Pit No. TP- 21
Sheet 1 of 1
Pit Location: E edge of LF near ditch

Groundwater Observations

Water level		
Time		
Date		
Depth of pit		

Start: 12/22/99 11:45
Finish: 12/22/99 12:06
Weather: sunny, w breeze 50°F

Plot Plan

USCS Classification	Sample No.	Depth	Description	Comments
		1	brown silt	seeps at surface
		2		seeps through waste
		3	waste	
		4		-waste is below stream & native ground surface levels
		5	weathered red siltstone	
		6	bottom of pit 4.5'	
		7		
		8		
		9		
		10		
		11		
		12		
		13		
		14		
		15		
		16		
		17		
		18		
		19		
		20		

Stratigraphic Summary:

Contractor: PW
Operator: B. Palmer
Inspector: G. Gould
Equip Type: Kobelco 909

Dvirka and Bartilucci Test Pit Log

Project Name: Trimmer Rd
Project #: 1701

Pit No. TP- 22
Sheet 1 of 1
Pit Location: SE corner of LF

Groundwater Observations

Water level		
Time		
Date		
Depth of pit		

Start: 12/22/99 12:30
Finish: 12/22/99 12:50
Weather: sunny, w breeze, 25°F

Plot Plan

USCS Classification	Sample No.	Depth	Description	Comments
		1	moist brown silt, sand - top soil	
		2		
		3		- no waste - no water seep
		4	red + green weathered siltstone	
		5		Photos Roll 3
		6		18, 19, 20, 21
		7	bottom of excavation 6 ft.	
		8		
		9		
		10		
		11		
		12		
		13		
		14		
		15		
		16		
		17		
		18		
		19		
		20		

Stratigraphic Summary:

Contractor: PW
Operator: D. Palmer
Inspector: B. Gould
Equip Type: Kubelco 909

Dvirka and Bartilucci Test Pit Log

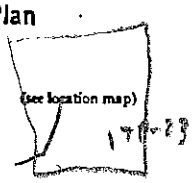
Project Name: Trimmer Rd LF
Project #: 1701

Pit No. TP- 23
Sheet 1 of 1
Pit Location:

Groundwater Observations		
Water level		
Time		
Date		
Depth of pit		

Start: 12/22/99 13:00
Finish: 12/22/99 13:35
Weather: Sunny, breeze from W
25°F

Plot Plan



USCS Classification	Sample No.	Depth	Description	Comments
		1	red silt cover	
		2		
		3		
		4	white glass, wood, plastic	
		5		
		6		
		7		
		8		
		9		
		10		10.5 water seep
		11		
		12		
		13		
		14	red weathered siltstone	
		15		
		16		
		17		
		18		
		19		
		20		

Stratigraphic Summary:

Dvirka and Bartilucci Test Pit Log

Contractor: PW
Operator: B. Palmer
Inspector: G. Gould
Equip Type: Kobelco 909

Project Name: Trimmer Rd LF
Project #: 1701

Pit No. TP- 24
Sheet 1 of 1
Pit Location:

Groundwater Observations

Water level		
Time		
Date		
Depth of pit		

Start: 12/22/95 12:45
Finish: 12/22/95 13:50
Weather: snow breezy 25°F

Plot Plan: (see location map) TP-37

USCS Classification	Sample No.	Depth	Description	Comments
		1	fill	waste is about ditch level
		2	waste water seeps	
		3		
		4		
		5	red weathered siltstone 5.0	
		6	bottom of pit	ditch is 2½ deep
		7		
		8		
		9		
		10		
		11		
		12		
		13		
		14		
		15		
		16		
		17		
		18		
		19		
		20		

Stratigraphic Summary:

Contractor: PW
Operator: B Smith
Inspector: G. Gould
Equip Type: Kubota 909

Dvirka and Bartilucci Test Pit Log

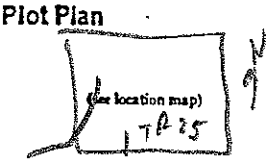
Project Name: Trimmer Rd
Project #: 1701

Pit No. TP- 25
Sheet 1 of 1
Pit Location: S edge of LT

Groundwater Observations		
Water level		
Time		
Date		
Depth of pit		

Start: 12/22/99 13:55
Finish: 12/22/99 14:05
Weather: P. Sunny, windy (W) 25°F

Plot Plan



USCS Classification	Sample No.	Depth	Description	Comments
		1	red brown silt cover	
		2		
		3	waste	
		4	plastic, bottles, paper	Photos 22+23
		5		
		6		Ground surface appears 2' above S. ditch
		7		
		8		
		9	red weathered rock stone	
		10	bottom of pit TD	
		11		
		12		
		13		
		14		
		15		
		16		
		17		
		18		
		19		
		20		

Stratigraphic Summary:

Contractor: PW
Operator: B. Palmer
Inspector: G. Gould
Equip Type: Kobelco 909

Dvirka and Bartilucci Test Pit Log

Project Name: Trimmer Rd LF
Project #: 1701

Pit No. TP-26
Sheet 1 of 1
Pit Location: SW corner of LF

Groundwater Observations		
Water level		
Time		
Date		
Depth of pit		

Start: 12/7/99 14:09
Finish: 12/7/99 14:20
Weather: sunny, breezy 25° F

Plot Plan

USCS Classification	Sample No.	Depth	Description	Comments
		1	Cover = silt	
		2		
		3	1965 newspaper	water seeping at 2.0' - in wash
		4		
		5	waste	
		6		
		7		Photos: Roll 3: 24, 25
		8	8.0'	
		9	red weathered silt, harder than moist	
		10	bottom of pit 9.0'	
		11		
		12		
		13		
		14		
		15		
		16		
		17		
		18		
		19		
		20		

Stratigraphic Summary:

APPENDIX B

BORING LOGS

Driller: P-W/J. Percy, J. Hammond
Inspector: D. Stahl
Rig Type: CME 850 ATV
Drilling Method: 4 1/4" ID HSA's

Dvirka and Bartilucci Boring Log

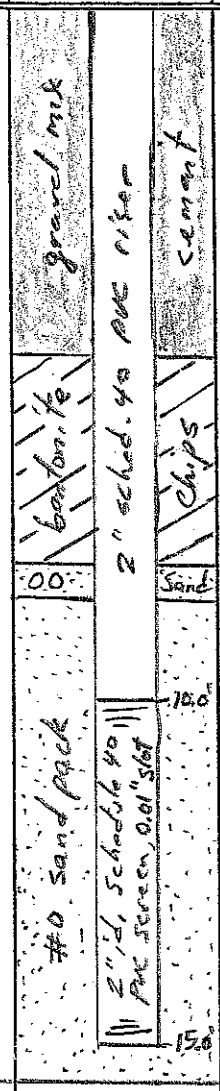
Project Name: Trimmer Road L.F.
Project #: 1701
Boring Depth: 15.5'

Boring ID : MW-15
Sheet 1 of 1
Location: S of Seal of landfill

Groundwater Observations			
Date	12-21-99	12-22-99	12-23-99
Time	15:45	07:45	09:00
DTW	dry	dry	13.3'
Casing/Total Depth	12.5'	12.5'	15.5'

Start (Date & Time): 12-21-99, 15:00
Finish (Date & Time): 12-23-99, 12:30
Weather: 12-21, W/4-8, 20°F
12-23, SW/2-8, 25°F
Elevation of Ground Surface:

Location Sketch:

Sample Interval	Sample No.	Blows		Field Description	Well Schematic	Comments
				Auger to 15.5' w/out sampling See log for adjacent MW-1D.		Stickup of ~3' w/ locking 4" steel protective casing.
				B.O.B. = 15.5'		

Soil Stratigraphy Summary

Driller: P-W/S. Percy, J. Hammond, N. Ellingworth
Inspector: D. Stahl
Rig Type: CME 850 ATV
Drilling Method: 4¼" i.d. HSAs, HX Core

Dvirka and Bartilucci Boring Log

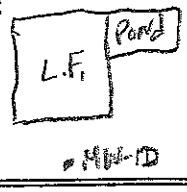
Project Name: Trimmer Road L.F.
Project #: 1701
Boring Depth: 32.0'

Boring ID: MW-1D
Sheet 1 of 2
Location: S of S side of refuse

Groundwater Observations			
Date	12-21-99	1-24-00	
Time	13:30	—	
DTW	~10'	~4.7'	
Casing/Total Depth	11.5'	32.0'	

Start (Date & Time): 12-21-99, 12:45
Finish (Date & Time): 12-22-99, 14:30
Weather: 12-21, overcast, W/5-15, 25°F
12-22, M. Sun, WSW/5-12, 25°F
Elevation of Ground Surface: _____

Location Sketch:



Sample Interval	Sample No.	Blows	(ppm) PID	Field Description	Well Schematic	Comments
0-2.0'	SS-1	WOH	0.0	Moist, dark Br silt, trace f sand, organic rich (0.3') over Moist, light Br silt, little f sand, Og mottling (0.1') over Moist, Rd silt, trace f sub-ø to a gravel, trace, c-f sand (0.1').	cement-bentonite grout; 4" i.d. steel pipe	Stick-up of ~3' w/ locking cover
Rec=	0.5'	1				
		5				
		5				SS-1, reacts to HCl strongly
2-3.8'	SS-2	9	0.0	Moist, Rd silt, trace c-f sand, trace f ø to a gravel (1.2') over Dry, Rd m-f ø siltstone gravel, trace Gn portions (0.6').		SS-2, bedrock 3.5'
Rec=	1.8'	33				
		41				
		50/3'				
4-4.2'	SS-3	50/.2'	0.0	Dry, Rd f ø siltstone gravel, trace silt, trace Gn portions.		
Rec=	0.2'					
5						
6-6.2'	SS-4	50/.2'	0.0	Dry, Rd f ø siltstone gravel, trace silt, trace Gn portions.		
Rec=	0.2'					
8-8.2'	SS-5	50/.2'	0.0	Dry, Rd f ø siltstone gravel (0.15') over Dry, Gn f ø siltstone gravel in tip (0.05').		
Rec=	0.2'					
10						
10-10.1'	SS-6	50/.1'	0.0	No recovery.		Very hard drilling 10.6 to 11.0'.
Rec=	0.0'					post SS-6, auger to 17' and grout 4" pipe. Stop for day.
						11:50 on 12-22-99, start C-1
15						
17.0-19.5'	C-1	HX	0.0	Rd siltstone, trace Gn portions	17.0' 3.75" open Rock Hole	Coring rate= 3-3.5 min/ft.
Rec=	2.5'					
RQD=	2.2'	46%				
19.5-24.5'	C-2	HX	0.0	Rd siltstone, trace Gn portions		

Soil Stratigraphy Summary _____

Driller: _____
Inspector: _____
Rig Type: _____
Drilling Method: _____

Dvirka and Bartilucci Boring Log
Project Name: Timmons Road L.F.
Project #: #1701
Boring Depth: 32.0'

Boring ID : MW-10
Sheet 2 of 2
Location: _____

	Groundwater Observations		
Date			
Time			
DTW			
Casing/Total Depth			

Start (Date & Time): _____
Finish (Date & Time): _____
Weather: _____
Elevation of Ground Surface: _____

Location Sketch:

Sample Interval	Sample No.	Blows	(ppm) PID	Field Description	Well Schematic	Comments
Rec=	4.8'			Rd siltstone, trace Gn portion, Some fractures.		
RQD=	3.8'	79%				
24.5-29.5	C-3	HX	0.0	Rd siltstone, little Gn portions	3.75" Open Rock Hole - HX Core	
Rec=	5.0'					
RQD=	3.9'	78%				
29.5-32.0	C-4	HX	0.0	Rd siltstone, trace Gn portions		
Rec=	2.5					
RQD=	1.7	68%				32.0'
				B.O.B. = 32.0'		

Soil Stratigraphy Summary _____

Driller: P-W/J. Percy, J. Hammond
Inspector: D. Stahl
Rig Type: CME 850 ATV
Drilling Method: 4¼", 2 HSAs, HX Core

Dvirka and Bartilucci Boring Log

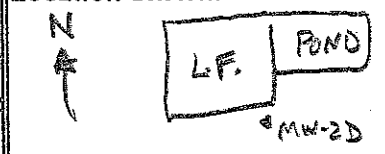
Project Name: Trimmer Road L.F.
Project #: 1701
Boring Depth: 41.0'

Boring ID : MW-2D
Sheet 1 of 3
Location: S of SE corner of refuse

Groundwater Observations			
Date	12-15-99	1-24-00	
Time	07:45	–	
DTW	~21.5'	~14.7'	
Casing/Total Depth	22'	41.0'	

Start (Date & Time): 12-14-99, 13:25
Finish (Date & Time): 12-20-99, 16:50
Weather: 12-14, overcast, E/5-15, 40°F
12-20, overcast, SW/5-25, 25°F
Elevation of Ground Surface: _____

Location Sketch:



Sample Interval	Sample No.	Blows	(ppm) PID	Field Description	Well Schematic	Comments
0-2.0'	SS-1	WOH	0.3	Moist, dark Br silt, little f sand, organic rich, roots, sticks, leaves (0.3') over Moist, light Br F sand, some silt (0.2').	cement-bentonite grout; 4" i.d. steel pipe	stick-up of ~3' w/ locking cover.
Rec =	0.5'	WOH				SS-1 + SS-2, no HCl reaction.
		WOH				Auger past cobbles 3-3.5'. refusal at 4' on boulder. Move rig 2' south.
		1				
2-2.9'	SS-2	2	0.8	Moist, light Br f sand, some silt, trace thin (<1mm) Moist, light Br f sand seams.		
Rec =	0.7'	50/.4				
						4.5', bedrock.
4-6.0'	SS-3	11	1.4	Dry, Rd silt, trace c-f sand (& too), trace thin (<1mm) brown silt seams, trace Gn coloring in tip.		SS-3, strong reaction w/ HCl
Rec =	0.8'	21				
		36				
		44				
6-7.5'	SS-4	41	1.6	Moist, Rd silt, trace c-f sand trace brown silt seams (<1 to 4mm), trace Gn + Rd f & to 0 siltstone gravel.		SS-4, strong reaction w/ HCl
Rec =	1.5'	47				
		56				
8-8.8'	SS-5	28	0.5	Moist, Rd silt, little m-f & Gn + Rd siltstone gravel, trace f sand.		
Rec =	0.8'	50/.3'				
10-10.4'	SS-6	50/.4'	0.2	Moist, Rd silt, trace Gn + Rd f & siltstone gravel.		
Rec =	0.2'					
12-12.2'	SS-7	50/.2'	0.1	Dry, Rd silt and Gy & m-f siltstone gravel.		
Rec =	0.2'					
14-14.3'	SS-8	50/.3'	0.4	Dry, Rd + Gy & m-f siltstone gravel, little silt.		SS-8, strong reaction w/ HCl
Rec =	0.3'					
16-16.2'	SS-9	50/.2'	0.0	Dry, Rd siltstone (0.1') over Dry, Gn siltstone.		
Rec =	0.2'					
18-18.1'	SS-10	50/.1'	0.0	Dry, Rd siltstone		
Rec =	0.1'					

Soil Stratigraphy Summary _____

Driller: _____
Inspector: _____
Rig Type: _____
Drilling Method: _____

Dvirka and Bartilucci Boring Log

Project Name: Trimmer Road L.F.
Project #: 1701
Boring Depth: 41.0'

Boring ID : MW-2D
Sheet 2 of 3
Location: _____

Groundwater Observations			
Date			
Time			
DTW			
Casing/Total Depth			

Start (Date & Time): _____
Finish (Date & Time): _____
Weather: _____
Elevation of Ground Surface: _____

Location Sketch:

Sample Interval	Sample No.	Blows	(ppm) PID	Field Description	Well Schematic	Comments
20-20.1'	SS-11	50/.1'	0.0	Dry, Gy-Rd m-f & siltstone gravel.	cement-bentonite grout; 4" i.d. steel pipe	post SS-11, auger to 22' and stop for day
Rec=	0.1'					start on 12:15 at 08:50
22-22.2'	SS-12	50/.2'	0.0	Dry, Gy-Rd m-f & siltstone gravel.		
Rec=	0.2'					
24-24.1'	SS-13	50/.1'	0.0	Moist, Rd+Gn siltstone		post SS-13, auger to 26' and grout 4" pipe to 26'. Stop for day
Rec=	0.1'					
26-29.0'	C-1	HX	0.0	Rd siltstone, some Gn portions highly weathered at top and bottom of recovery.	26.0' 3.75" open Rock Hole - HX Core	start C-1 at 13:45 on 12-20-99.
Rec=	3.7'					
RQD=	0.75'	20%				
29-34.0'	C-2	HX	0.0	Rd siltstone, trace green portions, trace faint X-bedding, trace wt calcareous portions ~32-34' (<1 to 2mm thick) rare but present in upper recovery.		C-2, calcite portions very HCl reactive
Rec=	5.2'					
RQD=	4.45'	86%				
34-39.0'	C-3	HX	0.0	Rd siltstone, little Gn portions		Coring rate C-3 = 3 min/ft.
Rec=	5.0'					
RQD=	4.8'	96%				
39-41.0'	C-4	HX	0.0	Rd siltstone, trace Gn portions		
Rec=	1.9'					

Soil Stratigraphy Summary _____

Driller: _____
Inspector: _____
Rig Type: _____
Drilling Method: _____

Dvirka and Bartilucci Boring Log
Project Name: Trimmer Road L.F.
Project #: 1701
Boring Depth: 41.0'

Boring ID: MW-2D
Sheet 3 of 3
Location: _____

Groundwater Observations			
Date			
Time			
DTW			
Casing/Total Depth			

Start (Date & Time): _____
Finish (Date & Time): _____
Weather: _____
Elevation of Ground Surface: _____

Location Sketch:

Sample Interval	Sample No.	Blows	(ppm) PID	Field Description	Well Schematic	Comments
RQD=	1.9'	100%		Rd siltstone, trace Gr portions	Open Rock Hole	41.0'
				B.O.B. = 41.0'		

Soil Stratigraphy Summary _____

file d&blog xls revised 8/26/96 by GG

Driller: P-W/J. Percy, J. Hammond
Inspector: D. Stahl
Rig Type: CME 850 ATV
Drilling Method: 4 1/4" i.d. HSAs

Dvirka and Bartilucci Boring Log

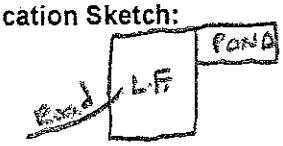
Project Name: Trimmer Road L.F.
Project #: 1701
Boring Depth: 14.5'

Boring ID : MW-3S
Sheet 1 of 1
Location: S of SW corner of refuse

Groundwater Observations			
Date	1-5-00	1-24-00	
Time	08:05	–	
DTW	dry	~8.7'	
Casing/Total Depth	12.0'	14.0'	

Start (Date & Time): 1-5-00, 07:50
Finish (Date & Time): 1-5-00, 08:45
Weather: M. Sun, 25°F, NW/0-4
Elevation of Ground Surface: _____

Location Sketch:



Sample Interval	Sample No.	Blows		Field Description	Well Schematic	Comments
				Auger to 14.5' w/out sampling. See log for adjacent MW-3D.	gravel mix; bentonite; #0 Sand Pack; 2" sched. 40 PVC riser; 2" i.d. schedule 40 PVC screen, 0.01" slot; cement; chips; sand; 2.0'; 3.0'; 3.5'; 4.0'; 14.0'; 14.5'	stick-up of ~3' w/ locking 4" steel protective casing.
				B.O.B. = 14.5'		

Soil Stratigraphy Summary _____

Driller: P-W/J. Perry, J. Hammond, P. Palmer
Inspector: D. Stahl
Rig Type: CME 850 ATV
Drilling Method: 4 1/4" i.d HSA's HX Core

Dvirka and Bartilucci Boring Log

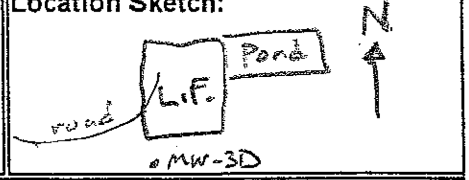
Project Name: Trimmer Road L.F.
Project #: 1701
Boring Depth: 32.5'

Boring ID : MW-3D
Sheet 1 of 2
Location: S of SW corner of refuse

Groundwater Observations			
Date	1-4-00	1-24-00	
Time	15:20	—	
DTW	dry	~4.0'	
Casing/Total Depth	12.3'	32.5'	

Start (Date & Time): 1-4-00, 14:20
Finish (Date & Time): 1-5-00, 10:40
Weather: 1-4-00, O-cast, 45°F, SW/15-50
1-5-00, M.C., 25°F, NW/5-15
Elevation of Ground Surface: ______

Location Sketch:



Sample Interval	Sample No.	Blows	(ppm) PID	Field Description	Well Schematic	Comments
0-2.0'	SS-1	2	0.0	Moist, dark Br silt, organic rich (0.3') over Moist, light Br silt w/organics (sticks/roots), trace f sand, mottled Br, Rd.	cement-bentonite grout; 4" i.d. steel pipe	stickup of ~3' w/ locking cover.
Rec =	0.6	1				
		2				
		3				
2 - 3.8'	SS-2	5	0.0	Moist, Lt Br silt, little f sand, trace c-m, a to subo sand, trace f s/bx to subo dark Gy gravel (0.5') over Moist Red silt, trace f & Rd + Gn gravel (1.1')		
Rec =	1.6'	12				
		44				3.0', bedrock
		50/.3'	-			
4 - 4.8'	SS-3	33	0.0	Dry, Rd. siltstone		SS-3, reacts strongly w/ HCl
Rec =	0.9'	50/.3'				
6 - 6.3'	SS-4	50/.3'	0.0	Dry, Rd siltstone, trace Gn portions		
Rec =	0.3'					
8 - 8.4'	SS-5	50/.4'	0.0	Dry, Rd siltstone		
Rec =	0.4'					
10 - 10.2'	SS-6	50/.2'	0.0	Dry, Gn siltstone		SS-6, reacts weakly w/ HCl.
Rec =	0.1'					
12 - 12.3'	SS-7	50/.3'	0.0	Dry, Rd + Gn siltstone		post SS-7, auger to 17.5' and grout 4" pipe. Stop for day
Rec =	0.2'					
						Start coring C-1 at 09:00 on 1-5-00.
17.5-19.5'	C-1	HX	0.0	Rd siltstone, trace Gn portions	17.5'; Open Rock Hole - HX	
Rec =	2.0'					
RQD =	1.8'	90%				
19.5-24.5'	C-2	HX	0.0			

Soil Stratigraphy Summary ______

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Driller: _____
Inspector: _____
Rig Type: _____
Drilling Method: _____

Dvirka and Bartilucci Boring Log
Project Name: Trimmer Road L.F.
Project #: 1701
Boring Depth: 32.5'

Boring ID: MW-3D
Sheet 2 of 2
Location: _____

	Groundwater Observations		
Date			
Time			
DTW			
Casing/Total Depth			

Start (Date & Time): _____
Finish (Date & Time): _____
Weather: _____
Elevation of Ground Surface: _____

Location Sketch:

Sample Interval	Sample No.	Blows	(ppm) PID	Field Description	Well Schematic	Comments
Rec= 4.9'				Rd siltstone, little green portions, very fractured 2nd foot of recovery. A wht, muddy Rd layer (½") at ~23.5'.		Coring rate, C-2 = 3 min/ft.
RQD= 3.7'		76%				
24.5-29.5'	C-3	HX	0.0	Rd siltstone, trace Gn portions. A weathered ½" seam at ~26.5' and highly fractured 28.0-29.0'.	3.75" Open Rock Hole - HX Core	
Rec= 5.0'						
RQD= 4.3'		86%				
29.5-32.5'	C-4	HX	0.0	Rd siltstone, little Gn portions.		
Rec= 2.9'						
RQD= 2.65'		92%				32.5'
				B.O.B. = 32.5'		

Soil Stratigraphy Summary _____

Driller: P-W/S. Percy, J. Hammond
Inspector: D. Stahl
Rig Type: CME 850 ATV
Drilling Method: 4¼" i.d. HSAs

Dvirka and Bartilucci Boring Log

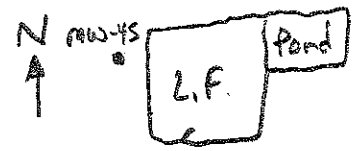
Project Name: Trimmer Road L.F.
Project #: 1701
Boring Depth: 12.5'

Boring ID: MW-4S
Sheet 1 of 1
Location: W of NW end of refuse

Groundwater Observations			
Date	1-3-00	1-24-00	
Time	14:15	—	
DTW	dry	~1.3'	
Casing/Total Depth	12.5'	12.0'	

Start (Date & Time): 1-3-00, 13:30
Finish (Date & Time): 1-3-00, 14:45
Weather: 1-3, overcast, NE/6-15, 40°F
Elevation of Ground Surface: _____

Location Sketch:



Sample Interval	Sample No.	Blows		Field Description	Well Schematic	Comments
				Auger to 12.5' w/out sampling. See log for adjacent MW-4D.	Gravel Mix; Bent-onite; 2" i.d. PVC Riser; Cement; Chips; #0 sand pack, 12.5'-1.6'; 2" i.d. sched. 40 PVC Screen, 0.01" slot; #00 sand pack, 1.6'-1.5'; 2.0'; 12.0'; 12.5'	stick-up of ~3' w/ locking 4" steel protective casing. 1.0' 1.5'
				B.O.B. = 12.5'		

Soil Stratigraphy Summary _____

Driller: P-W/T. Percy, J. Hammond, B. Palmer
Inspector: D. Stahl
Rig Type: CME 850 ATV
Drilling Method: 4¼" i.d. HSAs, HX Core

Dvirka and Bartilucci Boring Log

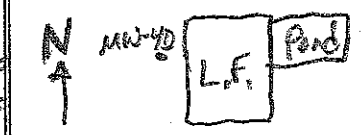
Project Name: Thimmer Road L.F.
Project #: 1701
Boring Depth: 33.0'

Boring ID : MW-4D
Sheet 1 of 2
Location: W of NW end of refuse

Groundwater Observations			
Date	1-3-00	1-24-00	
Time	12:30	–	
DTW	dry	~6.6'	
Casing/Total Depth	12.3'	33.0'	

Start (Date & Time): 1-3-00, 11:45
Finish (Date & Time): 1-4-00, 08:50
Weather: 1-3, overcast, NE/6-15, 40°F
1-4, overcast, SW/5-25, 60°F
Elevation of Ground Surface: ____

Location Sketch:



Sample Interval	Sample No.	Blows	(ppm) PID	Field Description	Well Schematic	Comments
0-2.0'	SS-1	WOH	0.4	Wet, dark Br silt, organic rich w/ roots (0.3') over Wet, light Br silt, trace clay, organic rich w/ yl, Rd + Br mottling (0.5') over Moist, Rd-Br silt (0.5').		Ponded water to 0.2' above grade stick-up of ~2' w/ w/ locking cover.
Rec=	1.3'	WOH				
		3				
		4				
2-4.0'	SS-2	6	0.2	Moist, Rd silt, trace f x to sub-a Rd + Gn siltstone gravel (0.2') over		SS-2, 2.5', bedrock
Rec=	0.7'	7				
		15				
		25				
4-5.0'	SS-3	33	0.3	Moist, Rd siltstone, trace Gn portions.		SS-3, spoon bounces at end of drive.
Rec=	0.6'	52				
6-6.1'	SS-4	50/.1'	0.1	Dry, Rd siltstone, trace Gn portions		
Rec=	0.1'					
8-8.4'	SS-5	50/.4'	0.0	Dry, Rd siltstone (0.2') over Dry Gn siltstone in tip.		
Rec=	0.3'					
10-10.2'	SS-6	50/.2'	0.0	Moist, Rd siltstone		
Rec=	0.2'					
12-12.3'	SS-7	50/.3'	0.0	Moist, Rd siltstone dust – no recovery.		Post SS-7, auger to 18.0' w/out sampling and grout 4" pipe to 18.0'. End of day.
Rec=	0.0'					
						Start C-1 on 1-4-00 at 07:25
18-20.5'	C-1	HX	0.0	Rd siltstone, trace Gn portions, Gn at end of recovery.		
Rec=	2.3'					
RQD=	1.6'	70%				

Well Schematic: cement-bentonite grout; 4" i.d. steel pipe; Open Rock Hole; 18.0'

Soil Stratigraphy Summary ____

Driller: _____
Inspector: _____
Rig Type: _____
Drilling Method: _____

Dvirka and Bartilucci Boring Log

Project Name: Trimmer Road L.F.
Project #: 1701
Boring Depth: 33.0'

Boring ID: MW-4D
Sheet 2 of 2
Location: _____

Groundwater Observations			
Date			
Time			
DTW			
Casing/Total Depth			

Start (Date & Time): _____
Finish (Date & Time): _____
Weather: _____
Elevation of Ground Surface: _____

Location Sketch:

Sample Interval	Sample No.	Blows	(ppm) PID	Field Description	Well Schematic	Comments
20.5-25.5'	C-2	HX	0.0	Rd siltstone, some Gn portions w/ fractures near 22-22.5' and at 25'.	3.75" Open Rock Hole - HX Core	Coring rate, C-2 = 3.5 min/ft.
Rec =	4.9'					
RQD =	4.3'	88%				
25.5-30.5'	C-3	HX	0.0	Rd siltstone, some Gn portions, inclined (30°) fractures near 27-28'. Fractures also near 28.5', 29.5' & 30'.		
Rec =	5.0'					
RQD =	4.45'	89%				
30.5-33.0'	C-4	HX	0.0	Rd siltstone, some Gn portions, fractures at 31 and 32'.		
Rec =	2.35'					
RQD =	1.7'	72%				
				B.O.B. = 33.0'		33.0'

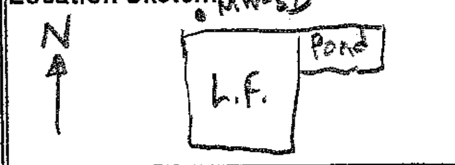
Soil Stratigraphy Summary _____

Dvirka and Bartilucci Boring Log	
Driller: P-W/J. Percy, J. Hammond	Boring ID: MW-5D
Inspector: D. Stahl	Sheet 1 of 3
Rig Type: CME 850 ATV	Project Name: Trimmer Road L.F.
Drilling Method: 4 1/4" i.d. HSAs, HX Core	Project #: 1701
Boring Depth: 42.0'	Location: N of NW corner of refuse

Groundwater Observations		
Date	12-15-99	1-24-00
Time	13:15	—
DTW	dry	~6.0'
Casing/Total Depth	14.5	42.0'

Start (Date & Time): 12-15-99, 12:15
Finish (Date & Time): 12-17-99, 14:55
Weather: 12-15, M.Sun, SW/2-5, 45°F
12-17, M.Sun, NW/4-8, 30°F
Elevation of Ground Surface:

Location Sketch:



Sample Interval	Sample No.	Blows	(ppm) PID	Field Description	Well Schematic	Comments
0-2.0'	SS-1	WOH	0.4	Moist, dark Br silt, trace c-f sand, organic rich (0.3') over Moist, Rd-Br silt, trace c-f sand, trace f subå to o gravel.	cement-bentonite grout; 4" i.d. steel pipe	stick-up of ~3' w/ locking cover.
Rec=	0.5'	WOH				
		1				
		3				
2-4.0'	SS-2	5	0.3	Moist, light Br silt, trace f sand, trace f subo to o gravel. Inclined layering.		SS-2, reacts strongly to HCl.
Rec=	1.8'	7				
		9				
		11				
4-6.0'	SS-3	6	0.2	Moist, Rd silt, little f å to subå gravel, trace c-f sand		SS-3, bedrock 4.0'.
Rec=	2.0'	12				
		21				
		30				
6-7.0'	SS-4	15	1.2	Moist, Rd silt, trace c-f sand, trace f å gravel. A thin (<1mm) light Br silt seam near tip.		SS-4, no Gn traces reacts strongly w/ HCl.
Rec=	0.3'	52				
8-10.0'	SS-5	30	1.1	Moist, Rd silt, trace c-f sand, trace f å Rd+Gn siltstone gravel, trace light Br silt & f sand seams (<1mm thick).		
Rec=	1.9'	48				
		44				
		54				
10-11.7'	SS-6	12	1.2	Moist, Rd silt, little subå to å f siltstone gravel, trace c-f sand, a piece of m å Rd siltstone gravel in tip.		harder drilling starting at 11.0'.
Rec=	1.2'	21				
		40				
		50/.2'				
12-12.2'	SS-7	50/.2'	0.0	Dry, Rd m-f å siltstone gravel, trace silt.		
Rec:	0.1'					
14-14.5'	SS-8	56	0.2	Dry, Rd m-f å siltstone gravel, little silt.		SS-8, strong reaction to HCl.
Rec=	0.1'					
16-16.2'	SS-9	50/.2'	0.4	Dry, Rd f å siltstone gravel, trace silt, trace Gn portions.		
Rec=	0.2'					
18-18.2'	SS-10	50/.2'	0.3	Dry, Rd m-f å siltstone gravel and silt		SS-10, weak reaction to HCl
Rec=	0.1'					

Soil Stratigraphy Summary

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Driller: _____
Inspector: _____
Rig Type: _____
Drilling Method: _____

Dvirka and Bartilucci Boring Log
Project Name: Trimmer Road L.F.
Project #: 1701
Boring Depth: 42.0'

Boring ID: MW-5D
Sheet 2 of 3
Location: _____

Groundwater Observations			
Date			
Time			
DTW			
Casing/Total Depth			

Start (Date & Time): _____
Finish (Date & Time): _____
Weather: _____
Elevation of Ground Surface: _____

Location Sketch:

Sample Interval	Sample No.	Blows	(ppm) PID	Field Description	Well Schematic	Comments
20-20.2'	SS-11	50/.2'	0.1	Dry, Rd. m-f & siltstone gravel, some silt, trace Gn portions in tip.	cement-bentonite grout; 4" i.d. steel pipe	
Rec=	0.2'					
22-22.2'	SS-12	50/.2'	0.0	Moist, Rd. m-f & siltstone gravel, little silt, trace thin (1-2 mm) Gn layers.		SS-12, bottom half of spoon outside is wet.
Rec=	0.2'					
24-24.2'	SS-13	50/.2'	0.2	Dry, Rd. m-f & siltstone gravel, trace silt.		
Rec=	0.2'					
26-26.1'	SS-14	50/.1'	0.3	Dry, Gn f & siltstone gravel, trace Rd portions.		Post SS-14, auger to 26' and grout 4" steel pipe, End of day
Rec=	0.1'					
26-29.5'	C-1	HX	0.0	Rd siltstone, little Gn portions	3.75" open Rock Hole - HX Core	Start C-1 at 12:55 on 12-17-00.
Rec=	2.3'					
RQD=	1.4'	61%				
29.5-34.5'	C-2	HX	0.0	Rd siltstone, trace Gn portions near bottom of recovery.		Coring rate C-2, =4 min/ft.
Rec=	5.0'					
RQD=	3.25'	65%				
34.5-39.5'	C-3	HX	0.0	Rd siltstone, a 1" Gn layer near 37.5'.		
Rec=	5.0'					
RQD=	4.6'	92%				
39.5-42.0	C-4	HX	0.0	Rd siltstone, little Gn portions		

Soil Stratigraphy Summary _____

Driller: _____
Inspector: _____
Rig Type: _____
Drilling Method: _____

Dvirka and Bartilucci Boring Log

Project Name: Trimmer Road L.F.
Project #: 1701
Boring Depth: 42.0'

Boring ID : MW-5D
Sheet 3 of 3
Location: _____

Groundwater Observations			
Date			
Time			
DTW			
Casing/Total Depth			

Start (Date & Time): _____
Finish (Date & Time): _____
Weather: _____
Elevation of Ground Surface: _____

Location Sketch:

Sample Interval	Sample No.	Blows		Field Description	Well Schematic	Comments
Rec=	2.5'			Rd siltstone, little Gn portions.	Open Rock Hole 3.75"	
RQD=	1.85'	74%				
				B.O.B. = 42.0'		=42.0'

45
50
55

Soil Stratigraphy Summary _____

Driller: P-W/S. Percy, J. Hammond
Inspector: D. Stahl
Rig Type: CME 85D ATV
Drilling Method: 4¼" i.d. HSA, HX Core

Dvirka and Bartilucci Boring Log

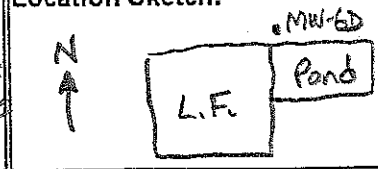
Project Name: Trimmer Road L.F.
Project #: 1701
Boring Depth: 42.5'

Boring ID: MW-6D
Sheet 1 of 3
Location: N of NE corner of refuse

Groundwater Observations			
Date	12-14-99	1-24-00	
Time	07:44	—	
DTW	~4.8'	~3.1'	
Casing/Total Depth	14.0'	42.5'	

Start (Date & Time): 12-13-99, 15:10
Finish (Date & Time): 12-17-99, 10:30
Weather: 12-13, overcast, W/2-5, 40°F
12-17, M, Sun, NW/4-8, 30°F
Elevation of Ground Surface: _____

Location Sketch:



Sample Interval	Sample No.	Blows	(ppm) PID	Field Description	Well Schematic	Comments
0-2.0'	SS-1	WOH	0.0	Moist, Br silt, some m-f sub o to o gravel, trace c-f sand (0.7') over Moist, Rd-Br silt, trace c-f sand (0.4')		stick-up of ~3' w/ locking cover.
Rec=	1.1'	3				
		11				
		7				
2-4.0'	SS-2	6	0.1	Moist, Rd silt, trace f sand, trace Gn+Br f % siltstone gravel		SS-2, strong reaction to HCl
Rec=	1.9'	7				Bedrock, 2.0'.
		12				
		21				SS-3 thru SS-7, strong reaction to HCl
4-6.0'	SS-3	12	0.0	Moist, Rd silt, Rd+Og+Y/ mottling-		
Rec=	2.0'	14				
5		21				
		36				
6-7.4'	SS-4	37	0.0	Moist, Rd silt, some f % siltstone gravel, trace Gn portions		
Rec=	0.6'	49				
		50/4"				
8-9.1'	SS-5	10	0.2	Moist, Rd silt, little f % Rd+Gn siltstone gravel (0.6') over Wet, Rd silt, trace f % to o siltstone gravel (0.2') over Moist, Gn siltstone (0.4').		
Rec=	1.2'	35				
		50/.1'				
10						
10-10.9'	SS-6	36	0.0	Wet, Rd silt, some m-f % to sub o gravel, trace c-f sand. A piece of sub o m gravel in tip.		
Rec=	0.6'	50/.4'				
12-12.4'	SS-7	50/.4'	0.6	Moist, Rd m-f % siltstone gravel, trace silt.		post SS-7, stop for day, 16:45.
Rec=	0.4'					start on 12-14 at 07:45.
14-14.3'	SS-8	50/.3'	0.1	Moist, Rd m-f % siltstone gravel, trace silt, trace Gn portions.		
Rec=	0.2'					
15						
16-16.3'	SS-9	50/.3'	0.2	Moist, Rd f % siltstone gravel, trace silt, trace Gn portions.		SS-9 & SS-10, react strongly to HCl.
Rec=	0.3'					
18-18.2'	SS-10	50/.2'	0.0	Moist, Rd f % siltstone gravel, trace silt, trace Gn portions.		
Rec=	0.1'					

Well Schematic: cement-bentonite grout; 4" i.d. steel pipe

Soil Stratigraphy Summary _____

Driller: _____
Inspector: _____
Rig Type: _____
Drilling Method: _____

Dvirka and Bartilucci Boring Log

Project Name: Trimmer Road L.F.
Project #: 1701
Boring Depth: 42.5'

Boring ID: MW-6D
Sheet 2 of 3
Location: _____

	Groundwater Observations		
Date			
Time			
DTW			
Casing/Total Depth			

Start (Date & Time): _____
Finish (Date & Time): _____
Weather: _____
Elevation of Ground Surface: _____

Location Sketch:

Sample Interval	Sample No.	Blows	(ppm) PID	Field Description	Well Schematic	Comments
20-20.2'	SS-11	50/.2'	0.1	Wet, Rd m-f & siltstone gravel, trace silt.	cement-bentonite grout; 4" I.D. steel pipe	
Rec=	0.2'					
22-22.2'	SS-12	50/.2'	0.0	Moist, Rd m-f & siltstone gravel, trace silt.		Softer drilling, 23.5 to 24.0'.
Rec=	0.2'					
24-24.2'	SS-13	50/.2'	0.0	Moist, Gry f & siltstone gravel, little silt.		SS-13, moderate reaction to HCl
Rec=	0.1'					
26-26.1'	SS-14	50/.1'	0.0	Moist, Gry f & siltstone gravel, little silt.		Softer drilling, 26.5 to 27.0'. Post SS-14, auger to 27.5' and grout 4" pipe. Stop for day.
Rec=	0.1'					
27.5-29.5'	C-1	HX	0.0	Rd siltstone, some Gn portions.	27.5' 3.75" Open Rock Hole - HX Core	12-17-99, start C-1 at 08:45.
Rec=	2.0'					
RQD=	1.3'	65%				
29.5-34.5'	C-2	HX	0.0	Rd siltstone, little Gn portions		Coring rate = 3-3.5 min/ft.
Rec=	4.7'					
RQD=	4.2'	89%				
34.5-39.5'	C-3	HX	0.0	Rd siltstone, trace Gn portions		
Rec=	5.0'					
RQD=	4.6'	92%				
39.5-42.5'	C-4	HX	0.0	Rd siltstone, trace calcareous wt		

Soil Stratigraphy Summary _____

Driller: _____
Inspector: _____
Rig Type: _____
Drilling Method: _____

Dvirka and Bartilucci Boring Log

Project Name: Trimmer Road L.F.
Project #: 1701
Boring Depth: 42.5'

Boring ID : MW-6D
Sheet 3 of 3
Location: _____

Groundwater Observations			
Date			
Time			
DTW			
Casing/Total Depth			

Start (Date & Time): _____
Finish (Date & Time): _____
Weather: _____
Elevation of Ground Surface: _____

Location Sketch:

Sample Interval	Sample No.	Blows		Field Description	Well Schematic	Comments
Rec =	3.0'			portions (1-2 mm thick, 2-10 mm long)	Open Rock Hole - 3.5' to 42.5'	C-4, wt portions very strongly HCl reactive.
RQD =	2.8'	93%				
				B.O.B. = 42.5'		42.5'

Soil Stratigraphy Summary _____

file d&blog.xls revised 8/26/96 by GG

Driller: P-W/J. Percy, S. Hammond
Inspector: D. Stahl
Rig Type: CME 850 ATV
Drilling Method: 4¼" i.d. HSAs

Dvirka and Bartilucci Boring Log

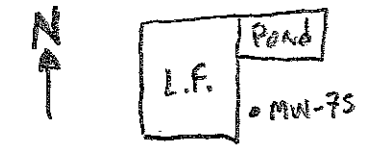
Project Name: Trimmer Road L.F.
Project #: 1701
Boring Depth: 14.5'

Boring ID: MW-7S
Sheet 1 of 1
Location: E of SE side of refuse

Groundwater Observations			
Date	12-23-99	1-24-00	
Time	08:55	—	
DTW	dry	~7.0'	
Casing/Total Depth	14.5'	14.0'	

Start (Date & Time): 12-23-99, 07:25
Finish (Date & Time): 12-23-99, 09:50
Weather: 12-23, overcast, SW/1-4, 20°F
Elevation of Ground Surface: _____

Location Sketch:



Sample Interval	Sample No.	Blows	(ppm) PID	Field Description	Well Schematic	Comments
0-2.0'	SS-1	2	0.1	Moist, dark Br silt, organic rich, roots, leaves (0.3') OVER Moist, Rd silt, trace f % gravel, Og+Rd+Br+Yl mottling (1.1').	gravel/grout mix; cement	stick-up of ~3' w/ locking 4" steel protective casing.
Rec=	1.4'	3				
		4				
		5				
2-4.0'	SS-2	7	0.0	Moist, Rd silt, trace Gn portions	Bentonite #00; Chips; Sand; 2" i.d. PVC Riser	2.0'
Rec=	0.5'	13				3.0'
		18				3.5'
		21				
4-6.0'	SS-3	23	0.1	Moist, Rd silt, little f % siltstone gravel: A light Br f sand layer (3/4") near 4.5'. Grades to Dry.		SS-2, bedrock 2.0'.
Rec=	2.0'	33				
5		39				
		44				
6-6.4'	SS-4	50/.4'	0.0	Dry, Rd m-f % siltstone gravel, some Gn portions.		
Rec=	0.2'					
8-8.8'	SS-5	25	0.0	Dry, Rd m-f % siltstone gravel, trace Gn portions.	#0 sand pack; 2" i.d. sched. 40 PVC Screen, 0.01" slot	
Rec=	0.8'	50/.3'				
10						
10-10.7'	SS-6	21	0.0	Moist Rd+Gn m-f % siltstone gravel.		
Rec=	0.6'	50/.2'				
12-12.2'	SS-7	50/.2'	0.0	Wet, Rd siltstone (0.1') over Moist, Gn siltstone (0.1').		SS-7, spoon exterior wet upon retrieval.
Rec=	0.2'					
14-14.2'	SS-8	50/.2'	0.0	No recovery	14.0'	14.5'
Rec=	0.0'					
15				B.O.B. = 14.5'		

Soil Stratigraphy Summary _____

Driller: P-W/S. Percy, J. Hammond, M. Ellingworth
Inspector: D. Stahl
Rig Type: CME 850 ATV
Drilling Method: 4¼" i.d. HSAs, HX Core

Dvirka and Bartilucci Boring Log

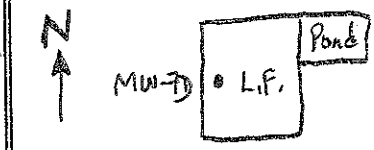
Project Name: Trimmer Road L.F.
Project #: 1701
Boring Depth: 41.0'

Boring ID : MW-7D
Sheet 1 of 3
Location: central-west side of refuse.

Groundwater Observations			
Date	1-24-00		
Time	–		
DTW	~12.1		
Casing/Total Depth	41.0'		

Start (Date & Time): 12-21-99, 08:10
Finish (Date & Time): 1-4-00, 13:05
Weather: 12-21, overcast, NW/6-12, 20°F
1-4, overcast, SW/15-40, 40°F
Elevation of Ground Surface: _____

Location Sketch:



Sample Interval	Sample No.	Blows		Field Description	Well Schematic	Comments
				No sampling 0 to 20'.	cement-bentonite grout; 4" i.d. steel pipe	stick-up of ~3' w/ locking cover
						17', harder drilling begins and continues to 20'.

Soil Stratigraphy Summary _____

Driller: _____
Inspector: _____
Rig Type: _____
Drilling Method: _____

Dvirka and Bartilucci Boring Log

Project Name: Trimmer Road L.F.
Project #: 1701
Boring Depth: 41.0'

Boring ID: MW-7D
Sheet 2 of 3
Location: _____

Groundwater Observations			
Date			
Time			
DTW			
Casing/Total Depth			

Start (Date & Time): _____
Finish (Date & Time): _____
Weather: _____
Elevation of Ground Surface: _____

Location Sketch:

Sample Interval	Sample No.	Blows	(ppm) PID	Field Description	Well Schematic	Comments
20-21.5'	SS-1	42	0.1	Moist, Rd silt, some m-f & to sub a gravel, trace c-f sand	cement-bentonite grout; 4" i.d. steel pipe	
Rec=	0.7'	32				
		46				
22-22.2'	SS-2	50/.2'	0.0	No recovery.		
Rec=	0.0'					
24-24.3'	SS-3	50/.3'	0.0	Dry, Rd silt and f & siltstone gravel.		post SS-3, auger to 26' and grout 4" pipe. Stop for day. Start C-1 at 10:55 on 1-4-00.
Rec=	0.3'					
26.0-30.0'	C-1	HX	0.0	Rd siltstone, trace Gn portions, 2" Gn layer 1' from bottom of recovery, highly fractured lower 1'.	26.0'	
Rec=	3.55'				3.75" Open Rock Hole - HX Core	
RQD=	2.8'	79%				
30.0-35.0'	C-2	HX	0.0	Rd siltstone, little Gn portions highly fractured near 33-34'.		C-2, coring rate: 3 min/ft.
Rec=	4.9'					
RQD=	3.1'	63%				
35.0-40.0'	C-3	HX	0.0	Rd siltstone, trace Gn portions highly fractured near 39'.		
Rec=	5.1'					
RQD=	4.7'	92%				

Soil Stratigraphy Summary _____

Driller: _____
Inspector: _____
Rig Type: _____
Drilling Method: _____

Dvirka and Bartilucci Boring Log

Project Name: Trimmee Road L.F.
Project #: 1701
Boring Depth: 41.0'

Boring ID: MW-7D
Sheet 3 of 3
Location: _____

	Groundwater Observations		
Date			
Time			
DTW			
Casing/Total Depth			

Start (Date & Time): _____
Finish (Date & Time): _____
Weather: _____
Elevation of Ground Surface: _____

Location Sketch:

Sample Interval	Sample No.	Blows	(ppm) PID	Field Description	Well Schematic	Comments
40.0-41.0'	C-4	HX	0.0	Rd+Gn, siltstone, wt calcareous fossils in tip.	Open Rock Hole	41.0'
Rec:	1.0'					
RQD=	0.85'	85%				
				B.O.B. = 41.0'		

Soil Stratigraphy Summary _____

Driller: P-W/S. Percy, J. Hammond
Inspector: D. Stahl
Rig Type: CME 850 ATV
Drilling Method: 4 1/4" i.d. HSAs

Dvirka and Bartilucci Boring Log

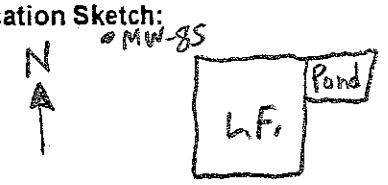
Project Name: Trimmer Road L.F.
Project #: 1701
Boring Depth: 14.5'

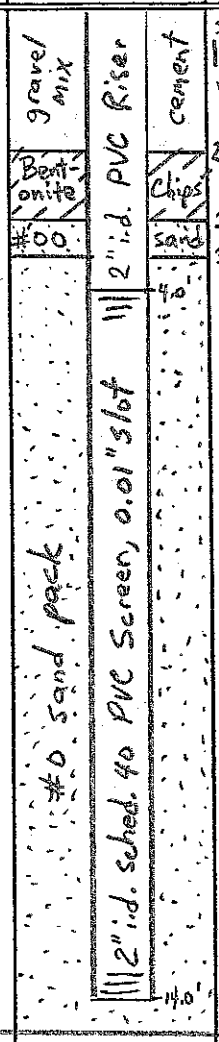
Boring ID: MW-85
Sheet 1 of 1
Location: NW of NW corner of refuse

Groundwater Observations			
Date	12-30-99	1-24-00	
Time	11:30	—	
DTW	dry	~0.8'	
Casing/Total Depth	14.5'	14.0'	

Start (Date & Time): 12-30-99, 10:20
Finish (Date & Time): 12-30-99, 12:15
Weather: 12-30, M, Cloudy, NW/5-35,35°
Elevation of Ground Surface: ____

Location Sketch:



Sample Interval	Sample No.	Blows		Field Description	Well Schematic	Comments
				Auger to 14.5' w/out sampling. See log for adjacent MW-85.		stick-up of ~3' w/ locking 4" steel protective casing.

Soil Stratigraphy Summary ____

Driller: P-W/J. Percy, J. Hammond
Inspector: D. Stahl
Rig Type: CME 850 ATV
Drilling Method: 4¼" i.d. HSAs, HK Core

Dvirka and Bartilucci Boring Log

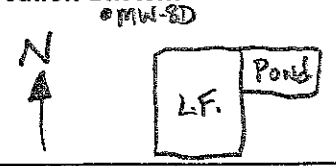
Project Name: Trimmer Road L.F.
Project #: 1701
Boring Depth: 35.0'

Boring ID: MW-8D
Sheet 1 of 2
Location: NW of NW corner of refuse

Groundwater Observations			
Date	12-29-99	1-24-00	
Time	14:50	—	
DTW	dry	~2.7'	
Casing/Total Depth	10.3'	35.0'	

Start (Date & Time): 12-29-99, 14:25
Finish (Date & Time): 12-30-99, 10:10
Weather: 12-29, overcast, SW/0-2, 25°F
12-30, M. Sun, NW/5-15, 40°F
Elevation of Ground Surface: _____

Location Sketch:



Sample Interval	Sample No.	Blows	(ppm) PID	Field Description	Well Schematic	Comments
0-2.0'	SS-1	WOH	0.0	Wet, dark Br silt, organic rich, roots (0.7') over Moist, Rd-Br silt, trace f sand, Yl+Bk+Rd+Wt mottling.	cement-bentonite grout; 4" i.d. steel pipe	
Rec=	1.0'	2				
		4				
		5				
2-4.0'	SS-2	3	0.0	Moist, Rd silt, trace f sub$ to subo gravel, A dark Gy piece of round c sand in tip, trace Gn portions.		
Rec=	0.7'	6				
		12				
		18				
4-5.5'	SS-3	15	0.0	Moist, Rd silt, trace f sand as thin (<1mm) seams, trace dark Gy round to sub$ c sand. Gn+Rd m-f $ siltstone gravel in tip.		SS-3, bedrock 4.5'
Rec=	0.5'	34				
5		50				
6-7.7'	SS-4	22	0.1	Moist, Rd silt, Some m-f $ siltstone gravel, trace Gn portions.		SS-4, spoon bounces at end, exterior wet upon retrieval
Rec=	0.6'	34				
		29				
		50/.2'				
8-8.3'	SS-5	50/.3'	0.0	Dry, Rd silt and f $ siltstone gravel.		
Rec=	0.3'					
						Post SS-6, auger to 20' and grout 4" pipe. Stop for day
10						
10-10.3'	SS-6	50/.3'	0.0	Dry, Gn f $ siltstone gravel, little silt, trace Rd portions.		Start C-1 at 08:50 on 12-30-99.
Rec=	0.2'					
15						

Soil Stratigraphy Summary _____

Driller: _____
Inspector: _____
Rig Type: _____
Drilling Method: _____

Dvirka and Bartilucci Boring Log

Project Name: Teimmer Road L.F.
Project #: 1701
Boring Depth: 35.0'

Boring ID : MW-8D
Sheet 2 of 2
Location: _____

	Groundwater Observations		
Date			
Time			
DTW			
Casing/Total Depth			

Start (Date & Time): _____
Finish (Date & Time): _____
Weather: _____
Elevation of Ground Surface: _____

Location Sketch:

Sample Interval	Sample No.	Blows	(ppm) PID	Field Description	Well Schematic	Comments
20.0-24.5'	C-1	HX	0.0	Rd siltstone, trace Gn portions, highly fractured in places	20.0' 3.75" Open Rock Hole - HX Core	C-1, coring rate = 3 min/ft
Rec=	4.4'					
RQD	2.95'	67%				
24.5-29.5'	C-2	HX	0.0	Rd siltstone, trace Gn portions.		
Rec=	4.9'					
RQD=	3.15'	64%				
29.5-34.5'	C-3	HX	0.0	Rd siltstone, trace Gn portions.		C3, coring rate = 3.5 min/ft.
Rec=	4.8'					
RQD=	4.8'	100%				
34.5-35.0'	C-4	HX	0.0	Rd siltstone		35.0'
Rec=	0.6'			B.O.B. = 35.0'		
RQD=	0.6'	100%				

Soil Stratigraphy Summary _____

Driller: P-W/J. Percy, J. Hammond
Inspector: D. Stahl
Rig Type: CME 850 ATV
Drilling Method: 4 1/4" i.d. HSAs

Dvirka and Bartilucci Boring Log

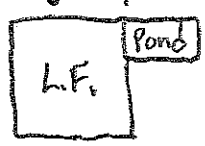
Project Name: Trimmer Road L.F.
Project #: 1701
Boring Depth: 14.5'

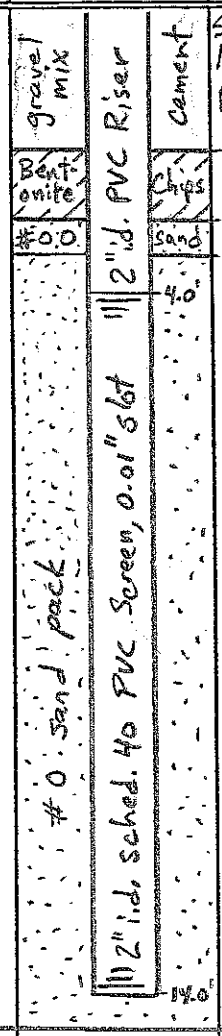
Boring ID : MW-9S
Sheet 1 of 1
Location: N of N side of refuse

Groundwater Observations			
Date	12-28-99	1-24-00	
Time	15:00	—	
DTW	dry	~5.1	
Casing/Total Depth	14.5'	14.0'	

Start (Date & Time): 12-28-99, 14:30
Finish (Date & Time): 12-28-99, 15:50
Weather: 12-28, overcast, SW/8-15, 20°F
Elevation of Ground Surface: _____

Location Sketch: MW-9S



Sample Interval	Sample No.	Blows		Field Description	Well Schematic	Comments
				Auger to 14.5 w/out sampling. See log for adjacent MW-9D.		Stick-up of ~3' w/ locking 4" steel protective casing.
				B.O.B. = 14.5'		

Soil Stratigraphy Summary _____

file: c&b log.xls revised 8/26/96 by GG

Driller: P-W/S, Percy, J. Hammond, D. Thoma
Inspector: D. Stahl
Rig Type: CME 850 ATV
Drilling Method: 4¼" I.D. HSAs, 4" joint, HXCore

Dvirka and Bartilucci Boring Log

Project Name: Trimmer Road L.F.
Project #: 1701
Boring Depth: 39.5'

Boring ID: MW-9D
Sheet 1 of 2
Location: N of N side of refuse

	Groundwater Observations		
Date	12-16-99	12-16-99	1-24-00
Time	10:50	15:20	—
DTW	~1.3'	~0.5'	~5.5'
Casing/Total Depth	6.3'	20.0'	39.5'

Start (Date & Time): 12-16-99, 10:25
Finish (Date & Time): 12-29-99, 11:40
Weather: 12-16, M. Cloudy, S/4-8, 35°F
12-29, M. Cloudy, WSW/2-6, 20°F
Elevation of Ground Surface: _____

Location Sketch: MW-9D, N, L.F., Pond

Sample Interval	Sample No.	Blows	(ppm) PID	Field Description	Well Schematic	Comments
0-2.0'	SS-1	6	0.6	Moist, Br wood fragments.		stick-up of ~3' w/ locking cover.
Rec=	0.2'	1				
		1				SS-1, no reaction to HCl
		1				
2-4.0'	SS-2	3	3.6	Moist, Rd silt, little f & to sub& gravel (Rd, Gn, Gl), trace c-f sand, Gnm Br mottling.		SS-2, bedrock 2.0'.
Rec=	1.5'	5				
		6				SS-2 thru SS-6, strong reaction to HCl.
		11				
4-6.0'	SS-3	8	1.9	Moist, Rd silt, little f & to sub& gravel (Rd+Gn), trace c-f sand.		
Rec=	1.2'	20				
		32				
		41				
6-6.3'	SS-4	50/.3'	1.2	Moist, Rd silt, f & siltstone gravel, trace c-f sand.		drilling 0 to 15' is by means of 4" flush joint casing.
Rec=	0.2'					
8-8.7'	SS-5	26	0.0	Moist, Rd silt and f & siltstone gravel.		
Rec=	0.5'	50/.2'				
10-10.2'	SS-6	50/.2'	0.0	Moist, Rd m-f & siltstone gravel, trace silt, trace Gn portions		
Rec=	0.2'					
12-12.2'	SS-7	50/.2'	0.2	Moist, Rd m-f & siltstone gravel, trace silt, trace Gn portions.		
Rec=	0.2'					
14-14.2'	SS-8	50/.2'	0.1	Moist, Rd f & siltstone gravel, trace silt, trace Gn portions, Rd siltstone, trace Gn portions		
Rec=	0.2'					
15-20.0'	C-1	HX	0.0			post C-1, pull 5' of casing to 10'. Stop for day.
Rec=	5.0'					
RQD=	3.4'	68%				12-28-99, auger 0 to 24.5' after pulling 4" casing and grout 4" pipe at 24.5'; stop for day.
						10:00 on 12-29-99, start C-2.

cement-bentonite grout
4" I.d. steel pipe

Soil Stratigraphy Summary _____

Driller: ____________
Inspector: ____________
Rig Type: ____________
Drilling Method: ____________

Dvirka and Bartilucci Boring Log

Project Name: Trimmer Road L.F.
Project #: 1701
Boring Depth: 39.5'

Boring ID: MW-9D
Sheet 2 of 2
Location: ____________

	Groundwater Observations		
Date			
Time			
DTW			
Casing/Total Depth			

Start (Date & Time): ____________
Finish (Date & Time): ____________
Weather: ____________
Elevation of Ground Surface: ____________

Location Sketch:

Sample Interval	Sample No.	Blows		Field Description	Well Schematic	Comments
					cement-bentonite grout; 4" i.d. steel pipe	
					24.5'	
24.5-25.0'	C-2	HX	0.0	Rd siltstone	3.75" Open Rock Hole - HX Core	C-2, Rec=0.4', RQD=0.4' or 100%.
25.0-30.0'	C-3	HX	0.0	Rd siltstone, w/ 4 green layers each ~1" thick, some fractures.		
Rec=	4.9'					
RQD=	4.1'	84%				
30.0-35.0'	C-4	HX	0.0	Rd siltstone, trace Gn portions. A 0.55' vertical fracture at top of recovery. Other fractured portions		C-4, coring rate = 3 min/ft.
Rec=	4.9'					
RQD=	3.65'	75%				
35.0-39.5'	C-5	HX	0.0	Rd siltstone, trace Gn portions.		
Rec=	4.4'					
RQD=	4.1'	93%			39.5'	
				B.O.B. = 39.5'		

Soil Stratigraphy Summary ____________

file d&blog.xls revised 8/26/96 by GG

Driller: P-W/J.Percy, J.Hammond
Inspector: D.Stahl
Rig Type: CME 850 ATV
Drilling Method: 4 1/4" i.d. HSAs

Dvirka and Bartilucci Boring Log

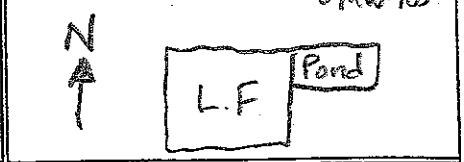
Project Name: Trimmer Road L.F.
Project #: 1701
Boring Depth: 15.5'

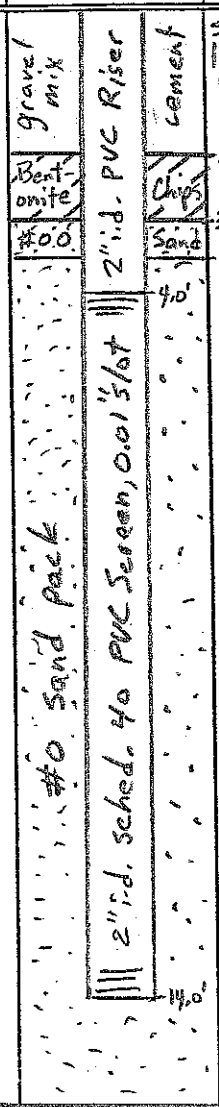
Boring ID: MW-10S
Sheet 1 of 1
Location: N of pond

Groundwater Observations			
Date	12-28-99	1-24-00	
Time	07:20	—	
DTW	~5.7'	~1.1'	
Casing/Total Depth	15.5'	14.0'	

Start (Date & Time): 12-27-99, 15:20
Finish (Date & Time): 12-28-99, 08:45
Weather: 12-27, M, Cloudy, SW/2-4, 20°F
12-28, overcast, SSW/1-4, 5°F
Elevation of Ground Surface: _____

Location Sketch:



Sample Interval	Sample No.	Blows		Field Description	Well Schematic	Comments
				Auger to 15.5' w/out sampling. See log for adjacent MW-10D.		stick-up of ~3' w/ locking 4" steel protective casing

B.O.B. = 15.5'

Soil Stratigraphy Summary _____

Driller: P-W/S. Percy, J. Hammond
Inspector: D. Stahl
Rig Type: CME 850 ATV
Drilling Method: 4¼" i.d. HSAs, HX Core

Dvirka and Bartilucci Boring Log

Project Name: Trimmer Road L.F.
Project #: 1701
Boring Depth: 32.5'

Boring ID: MW-10D
Sheet 1 of 2
Location: N of pond

Groundwater Observations		
Date	12-23-99	1-24-00
Time	11:30	~
DTW	dry	~1.5'
Casing/Total Depth	7.9'	32.5'

Start (Date & Time): 12-23-99, 11:05
Finish (Date & Time): 12-27-99, 15:10
Weather: 12-23, overcast, SW/2-8, 25°F
12-27, P. Sun, NW/1-5, 25°F
Elevation of Ground Surface: ____

Location Sketch: (MW-10D)

Sample Interval	Sample No.	Blows	(ppm) PID	Field Description	Well Schematic	Comments
0-2.0'	SS-1	WOH	0.0	Moist, dark Br silt, organic rich, roots, leaves (0.4') over Yl-Br m & sandstone gravel (0.1') over Moist, Rd silt, little f-f round sand including dark Gy clasts.		stick-up of ~3' w/ locking cover
Rec=	0.6'	3				
		5				cobbly drilling 0-4'.
		10				
2-4.0'	SS-2	15	0.0	Moist, Br-Rd silt, little f sand, little f & to subo gravel.		
Rec=	2.0'	19				
		23				
		34				SS-2, reacts w/ HCl strongly
4-5.5'	SS-3	15	0.0	Moist, light Rd-Br silt, little f sand, little m-f & to subo gravel, trace c-m subo sand, including dark Gy clasts.		
Rec=	0.8'	39				
		55				
6-7.9'	SS-4	13	0.1	Moist, light Rd-Br silt, little f sand, little m-f & to subo gravel, trace c-m subo sand, including dark Gy clasts (0.6') over Moist, Rd siltstone, trace Gn portions (0.9').		SS-4, bedrock 7'. spoon bounces at end of drive.
Rec=	1.5'	17				
		21				
		50/.4'				
8-8.4'	SS-5	50/.4'	0.0	Dry, Rd silt and f & siltstone gravel, trace Gn portions.		SS-5, reacts w/ HCl strongly
Rec=	0.1'					
10-10.4'	SS-6	50/.4'	0.0	No recovery		
Rec=	0.0'					
12-12.2'	SS-7	50/.2'	0.0	Dry Rd + Gn f & siltstone gravel, little silt.		post SS-7, auger to 17.5' and grout 4" pipe. Stop for day
Rec=	0.2'					
						13:18, start C-1 on 12.27.99
17.5-19.5'	C-1	HX	0.0	Rd siltstone, little Gn portions, fractured near 18.0'.	17.5'	C-1 coring rate = 3 min/ft.
Rec=	1.9'					
RQD=	1.9'	100%				
19.5-24.5'	C-2	HX	0.0	Rd siltstone, little Gn portions		

Cement-bentonite grout
4" i.d. steel pipe
Open Rock Hole 3.75"

Soil Stratigraphy Summary

Driller: _____
Inspector: _____
Rig Type: _____
Drilling Method: _____

Dvirka and Bartilucci Boring Log
Project Name: Trimmer Road L.F.
Project #: 1701
Boring Depth: 32.5'

Boring ID: MW-10D
Sheet 2 of 2
Location: _____

	Groundwater Observations		
Date			
Time			
DTW			
Casing/Total Depth			

Start (Date & Time): _____
Finish (Date & Time): _____
Weather: _____
Elevation of Ground Surface: _____

Location Sketch:

Sample Interval	Sample No.	Blows	(ppm) PID	Field Description	Well Schematic	Comments
Rec=	4.9'					
RQD=	4.6'	94%				
24.5-29.5'	C-3	HX	0.0	Rd siltstone, trace Gn portions, highly fractured in places.	3.75" Open Rock Hole – HX Core	
Rec=	5.0'					
RQD=	4.4'	88%				
29.5-32.5'	C-4	HX	0.0	Rd siltstone, trace Gn portions		
Rec=	3.1'					
RQD=	3.1'	100%				
				B.O.B. = 32.5'	32.5'	

Soil Stratigraphy Summary _____

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Driller: P.W/J.Percy, J.Hammond
Inspector: D.Stahl
Rig Type: CME 850 ATV
Drilling Method: 4 1/4" i.d. HSAs

Dvirka and Bartilucci Boring Log

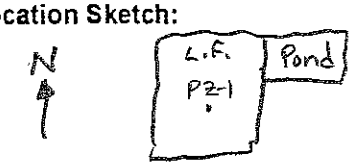
Project Name: Trimmer Road L.F.
Project #: 1701
Boring Depth: 23.2'

Boring ID: PZ-1
Sheet 1 of 2
Location: center of refuse

Groundwater Observations			
Date	1-24-00		
Time	—		
DTW	~10.5'		
Casing/Total Depth	23'		

Start (Date & Time): 1-5-00, 11:10
Finish (Date & Time): 1-5-00, 12:20
Weather: M. Cloudy, NW/5-15, 25°F
Elevation of Ground Surface: _____

Location Sketch:



Sample Interval	Sample No.	Blows	(ppm) PID	Field Description	Well Schematic	Comments
				No sampling before 23'.	gravel mix; Bentonite; #0 Sand pack & collapse; 2" i.d. sched. 40 PVC screen, 0.01" slot; cement; Chips; 2" i.d. sched. 40 PVC riser; 4.0'; 6.5'; 13.0'	Stick-up of ~3' w/ locking 4" steel protective casing.

Soil Stratigraphy Summary _____

Driller: _____
Inspector: _____
Rig Type: _____
Drilling Method: _____

Dvirka and Bartilucci Boring Log
Project Name: Trimmer Road L.F.
Project #: 1701
Boring Depth: 23.2'

Boring ID : PZ-1
Sheet 2 of 2
Location: _____

Groundwater Observations			
Date			
Time			
DTW			
Casing/Total Depth			

Start (Date & Time): _____
Finish (Date & Time): _____
Weather: _____
Elevation of Ground Surface: _____

Location Sketch:

Sample Interval	Sample No.	Blows	(ppm) PID	Field Description	Well Schematic	Comments
					#0 sand pack; 2" i.d. screen; s.w. collapse; 23.0'	harder drilling starting at 22.5'
23-23.2'	SS-1	50/.2'	0.0	Rd silt and f & siltstone gravel		23.2'
Rec=	0.1'			B.O.B. = 23.2'		

Soil Stratigraphy Summary _____

Driller: P-W/J. Percy, J. Hammond
Inspector: D. Stahl
Rig Type: CME 850 ATV
Drilling Method: 4¼" i.d. HSA

Dvirka and Bartilucci Boring Log

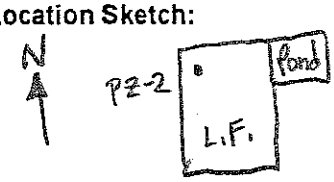
Project Name: Trimmer Road L.F.
Project #: 1701
Boring Depth: 15.0'

Boring ID: PZ-2
Sheet 1 of 1
Location: NW corner of refuse

Groundwater Observations			
Date	1-24-00		
Time	—		
DTW	~7.2		
Casing/Total Depth			

Start (Date & Time): 1-5-00, 14:40
Finish (Date & Time): 1-5-00, 15:25
Weather: M. Cloudy, NW/5-15, 25°F
Elevation of Ground Surface: ____

Location Sketch:



Sample Interval	Sample No.	Blows		Field Description	Well Schematic	Comments
				No sampling before 14'.		stick-up of ~3' w/ locking 4" steel protective casing
14-15.0'	SS-1	21	0.0	Moist, Rd silt and f-x siltstone gravel, trace Gn portions.		harder drilling starting at 13.5'
	Rec= 0.9'	29				
				B.O.B. = 15.0'		

Well Schematic: gravel / mix; cement; 2" i.d. sched. 40 PVC Riser; bentonite; chips/powder; #0 sand pack + Calhaze; 2" i.d. PVC Screen, 0.010 slot; 5.0'; 8.0'; 9.0'; 14.0'; 15.0'

Soil Stratigraphy Summary ____

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Driller: P-W/J. Percy, J. Hammond	**Dvirka and Bartilucci Boring Log**	**Boring ID :** PZ-3
Inspector: D. Stahl	Project Name: Trimmer Road L.F.	Sheet 1 of 1
Rig Type: CME 850 ATV	Project #: 1701	Location: NE corner of refuse
Drilling Method: 4¼" i.d. HSAs	Boring Depth: 9.0'	

Groundwater Observations			
Date	1-24-00		
Time	—		
DTW	~6.0'		
Casing/Total Depth	8.0'		

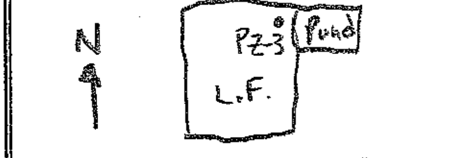
Start (Date & Time): 1-5-00, 13:50

Finish (Date & Time): 1-5-00, 14:25

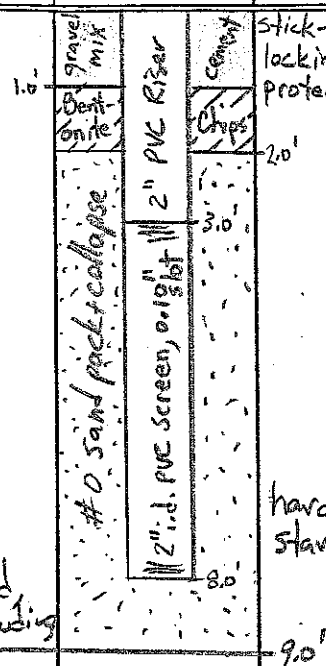
Weather: M. Cloudy, NW/5-15, 25°F

Elevation of Ground Surface:

Location Sketch:



Depth	Sample Interval	Sample No.	Blows	(ppm) PID	Field Description	Well Schematic	Comments
					No sampling before 8'.		Stick-up of ~3' w/ locking 4" steel protective casing.
5							
							harder drilling starting at 7.5'.
	8-9.0'	SS-1	21	0.0	Moist, Rd silt, trace c-f sand, trace m-f sub% to subo gravel including quartz		
	Rec=	0.7'	26				
					B.O.B. = 9.0'		
10							
15							



Soil Stratigraphy Summary

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Driller: P-W/J. Percy, J. Hammond
Inspector: D. Stahl
Rig Type: CME 850 ATV
Drilling Method: 4¼" i.d. HSAs

Dvirka and Bartilucci Boring Log

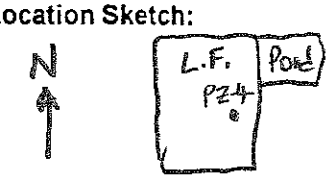
Project Name: Trimmer Road L.F.
Project #: 1701
Boring Depth: 12.0'

Boring ID: PZ-4
Sheet 1 of 1
Location: E side of refuse

Groundwater Observations			
Date	1-24-00		
Time	—		
DTW	~5.5'		
Casing/Total Depth	11.5'		

Start (Date & Time): 1-5-00, 12:55
Finish (Date & Time): 1-5-00, 13:35
Weather: M. Cloudy, NW/5-15, 25°F
Elevation of Ground Surface: _____

Location Sketch:



Sample Interval	Sample No.	Blows	(ppm) PID	Field Description	Well Schematic	Comments
				No sampling before 11'.		stick-up of ~3' w/ locking 4" steel protective casing.
11-12.0'	SS-1	7	0.0	Rd silt, little f & siltstone gravel, trace Gn portions		harder drilling starting at 10.5'
Rec=	0.8'	17		B.O.B. = 12.0'		

Well Schematic: gravel mix; Bent. onite; #0 sand pack + collapse; 2" i.d. sched. 40 PVC Riser; cement; Chips; 2" i.d. PVC Screen, 0.01 slot; 4.0'; 5.0'; 6.5'; 11.5'; 12.0'

Soil Stratigraphy Summary _____

file c&blog.xls revised 8/26/96 by GG

Driller: Parratt Wolff
Inspector: J Magda
Rig Type: 4¼" HSA 2'2" SPLITSPOON w 140lb Hammer and Cathead
Drilling Method: CME-850

Dvirka and Bartilucci Boring Log

Project Name: Trimmer Road LF
Project #: 2273
Boring Depth: 13.20

Boring ID: MW-11
Sheet 1 of 1
Location: N/A

Groundwater Observations			
Date	12/22/04		
Time	1601		
DTW	0.86	BGS	
Casing/Total Depth	12.25	BGS	

Start (Date & Time): 12/22/04 1127
Finish (Date & Time): 12/22/04 1329
Weather: Cloudy, Temp 34°F Light Rain
Elevation of Ground Surface: N/A

Location Sketch: N/A

Sample Interval	Sample No.	Blows	PID (ppm)	Field Description
0-2	1127	WOH 7	0	Br clay w/ High organic content (leaves, wood, roots) saturated
	1.8'	WOH 1	0	
		3	0	
		4	0	
2-4	1130	8	0	Red SILT w/ trace clay damp
	1.6'	13	0	
		15	0	Red SILT over Red SILT w/ F-C SILTSTONE Fragments
		28	0	
4-6	1139	9	0	Red SILT damp with F-C Angular SILTSTONE Fragments
	1.6'	14	0	
		20	0	
		23	0	
				Auger to 8' without sampling
8-10	1202	7	0	Red SILT (0.5) fluff over
	0.9'	50/.4	0	Red SILTSTONE dry Green SILTSTONE in tip
				Auger to 13.2 without sampling
	1244		0	Red SILTSTONE
	50/.2		6	

Well Schematic: Ø Sand 13.25-1.25 Bentonite 1.25-0.75 10-slot Screen 12.25-2.25 Ave Riser 2.25-0.0 cement/grout
B.O.W 12.25

Comments: Ponded water in area of well (<0.5)
well completed with 4" ID Steel Stick up + locking cap. Stick up 3.5' above grade
Bedrock at 13.20' BGS
Difficult Drilling 8.9 To 13.2'

Soil Stratigraphy Summary

Driller: Parratt Wolff
Inspector: J Magda
Rig Type: CME-550
Drilling Method: 4¼ HSA 2' 2" Split Spoons w 140lb Hammer + Cathead

Dvirka and Bartilucci Boring Log
Project Name: Trimmer Road LF
Project #: 2273
Boring Depth: 14.4'

Boring ID: MW-12
Sheet 1 of 1
Location: N/A

Groundwater Observations			
Date	12/22/04		
Time	1304		
DTW	11.6	BGS	
Casing/Total Depth	13.35	BGS	

Start (Date & Time): 12/22/04 0919
Finish (Date & Time): 12/22/04 1120
Weather: Cloudy, Temp 34°F wind calm
Elevation of Ground Surface: N/A

Location Sketch: N/A

Sample Interval	Sample No.	Blows	PID (ppm)	Field Description
0-2	0919	2	0	Br clay with High organic content (Leaves, Roots, wood) wet
	1.6'	2	0	
		4	0	Red/Rusty Silt Trace clay Damp
		4	0	
2-4	0921	5	0	Red/Rusty Silt Damp
	1.3'	13	0	(0.8) over Green/Tan Silt
		14	0	Dry (0.2)
		15	0	(3-4) Red/Brown Silt w Angular Fragments of Siltstone
4-6	0940	1	0	
	0.3'	1	0	Brown/Tan Silt Dry (Fluff)
		3	0	
		11	0	
6-8	18	0946	0	Red/Rusty Silt Damp w Angular Fragments Red Siltstone
	40	1.3'	0.2	
	~~27~~		0.2	Red Silt w Angular Fragments of Red Siltstone
	28		0.4	
				Auger to 10' without Sampling
10-12	15	1007	0.0	Red Siltstone Dry
	50/.2'			
				Auger To 14' without Sampling
14-16	50/.4'	1043	0.0	Red Siltstone Dry

Well Schematic: Ø Sand Pack 13.35-1.35; Ø Sand 1.35-1.0; Bentonite 1.0-0.5; Cement 0.5-0.0; AC Riser TO 0.0; 10-Slot Screen 13.35-3.35; 13.35 B.O.W

Comments: Completed with 4" ID Steel Stick + locking cap. Stick up 2.3' above grade
Bedrock at 3.0 bgs
No odor or staining noted

Soil Stratigraphy Summary

Driller: Parratt Wolff
Inspector: J Magda
Rig Type: Diedrich D-90 ATC
Drilling Method: 7 1/4 HSA 2' 2" split spoon 140lb Hammer w/ CATHead

Dvirka and Bartilucci Boring Log

Project Name: Trimmer Road LF
Project #: 2273
Boring Depth: 14.75

Boring ID: MW-13
Sheet 1 of 1
Location: N/A

Groundwater Observations		
Date	12/21/04	
Time	1436	
DTW	5.10	bgs
Casing/Total Depth	14.75	bgs

Start (Date & Time): 12/21/04 0958
Finish (Date & Time): 12/21/04 1220
Weather: Cloudy, Temp 34°F wind calm
Elevation of Ground Surface: N/A

Location Sketch: N/A

Sample Interval	Sample No. / Rec	Blows	PID	Field Description
0-2	1001 1.4'	2 2 5 5		Br FAT clay w/ organic material (ROOTS, LEAVES, wood) WET Rusty SILT w/ Trace clay DAMP
2-4	1005 2.0'	7 13 20 21		Rusty Red SILT Trace clay Dry TAN/Green SILT Dry
4-6	1015 1.5'	5 10 26 30		Rusty Red SILT Dry + SILT F-C Fragments Rusty Red SILT + Angular F-C Fragments weathered SILTSTONE Augen to 8' w/out Sampling
8-10	1051 1.6'	5 30 50/.2		Rusty Red SILT + Angular F-C Fragments, Saturated & FLUFF SILTSTONE DRY Red SILTSTONE Augen TO 14' WITHOUT SAMPLING
14-15	1123' 0.3	50/.4		Red SILTSTONE DAMP

Well Schematic: 1.0-0.0 cement; 3.0-1.5 Ø Sand; Ø Sand Pack 14.75 - 3.0; 1.5-1.0 Bentonite; 10-SLOT Screen 14.75 - 4.75; 4" PVC Riser 4.75 - 0.0; B.O.C 14.75 bgs

Comments: Completed w/ 4" I.D. Steel Stick up + locking cap Stick up 4'L 3' above Grade

Bedrock at 4.5' bgs

Formation Tight at 5.5'

Soil Stratigraphy Summary

Driller: Parratt Wolff
Inspector: J Magda
Rig Type: CME-850
Drilling Method: 4¼ HSA 2" 2" Split Spoons 140lb Hammer w/ CAThead

Dvirka and Bartilucci Boring Log

Project Name: Trimmer Road LF
Project #: 2273
Boring Depth: 15.3

Boring ID: MW-14
Sheet 1 of 1
Location: N/A

Groundwater Observations			
Date	12/22/04		
Time	1536		
DTW	1.61	Bgs	
Casing/Total Depth	14.42	Bgs	

Start (Date & Time): 12/22/04 1359
Finish (Date & Time): 12/22/04 1538
Weather: Cloudy, Rain/Snow Temp 34°F wind calm
Elevation of Ground Surface: N/A

Location Sketch:

N/A

Sample Interval	Sample No.	Blows	PID	Field Description
0-2	1355	WOH	0	(0.4) Brown clay w/ High organic content (leaves and ROOTS) over 1.2 Red Silt + Trace clay Saturated
	1.6'	2	0	
		3	0	
		4	0	
2-4	1359	6	0	
	1.3'	21	0	Red Silt Trace clay Saturated (1.0) over Red Silt Stone Damp (3)
		28	0	
		25	0	
				Auger to 8' without Sampling
8-10	1420	50/4	0	(0.2) Green Siltstone over (0.2) Red Siltstone Dry
	0.4'			
				Auger to 15' without Sampling
X	1445'	50/3	0	Red Siltstone

Well Schematic: Ø Sand Pack 14.42 - 2.42 ft; Sand 2.42-2.0; Bentonite 2.0-1.5; Cement 1.5-0.0; Ø Riser 4.42-0; 10-Slot Screen 14.42-4.42; B.O.W 14.42 Bgs

Comments: Ponded water in area of well (<2.0"); Bedrock at 3.3 Bgs; well completed with 4" ID Steel Stick up + locking cap. Stick up 2.5' Above grade

Soil Stratigraphy Summary

APPENDIX C

WELL CONSTRUCTION LOGS

Dvirka and Bartilucci CONSULTING ENGINEERS
A DIVISION OF WILLIAM F. COSULICH ASSOCIATES, P.C.

Well Construction Log

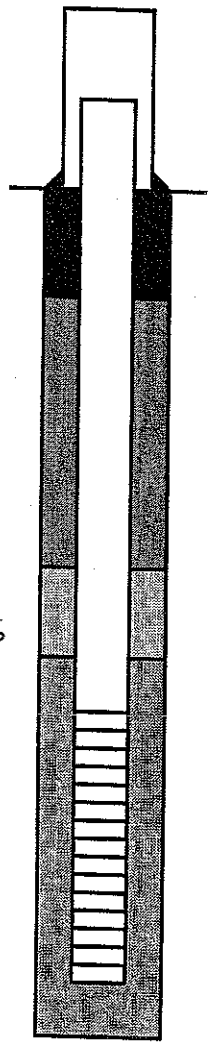
Site Trimmer Road LF Job No. 2273 Well No. MW-11

Total Depth 15.16' Surface Elevation 376.63 Top Riser Elevation 379.54

Water Levels (Depth, Date, Time) 0.86', 12/22/04, 1601 Date Installed 12/22/04

Riser	Dia. 2" ID	Material PVC	Length 5.16'			
Screen	Dia. 2" ID	Material PVC	Length 10'	Slot Size 10		
Protective Casing	Dia. 4" ID	Material Steel	Length 4'			

SCHEMATIC



3.21' Protective Casing Stickup

2.91' Riser Stickup

Ground Surface

Surface Seal Type Quick-Crete Concrete

0.75' Bottom Surface Seal

Grout Type Enviro-Plug Bentonite Chips

0.75 Top Seal

Seal Type Enviro-Plug Bentonite Chips

1.25' Top Sand Pack

2.25' Top Screen

Sand Pack Type US Silica
Size #

12.25' Bottom Screen

13.2' Total Depth of Boring

Dvirka and Bartilucci CONSULTING ENGINEERS
A DIVISION OF WILLIAM F. COSULICH ASSOCIATES, P.C.

Well Construction Log

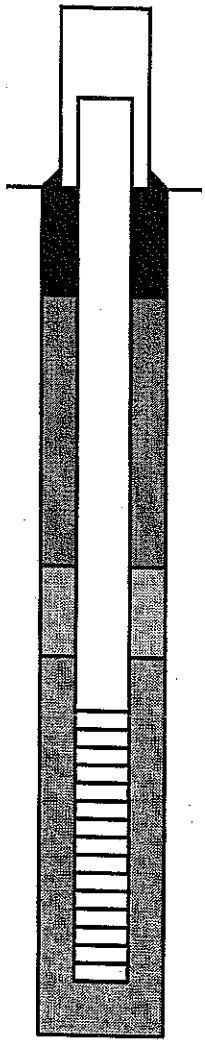
Site Trimmer Road LF Job No. 2273 Well No. MW-12

Total Depth 15.29' Surface Elevation 374.51 Top Riser Elevation 376.45

Water Levels (Depth, Date, Time) 12.6', 12/22/04, 1304 Date Installed 12/22/04

Riser	Dia. 2" ID	Material PVC	Length 5.29'			
Screen	Dia. 2" ID	Material PVC	Length 10'	Slot Size	10	
Protective Casing	Dia. 4" ID	Material Steel	Length 4'			

SCHEMATIC



2.31' Protective Casing Stickup

1.94' Riser Stickup

Ground Surface

Surface Seal Type Quick-crete concrete

0.5' Bottom Surface Seal

Grout Type Enviro-Plug Bentonite Chips

0.5' Top Seal

1.0' Top Fine Sand Pack

Seal Type Enviro-plug Bentonite Chips

1.35' Top Sand Pack

3.35' Top Screen

Sand Pack Type US Silica
Size #0

13.35' Bottom Screen

14.4' Total Depth of Boring

Dvirka and Bartilucci CONSULTING ENGINEERS
A DIVISION OF WILLIAM F. COSULICH ASSOCIATES, P.C.

Well Construction Log

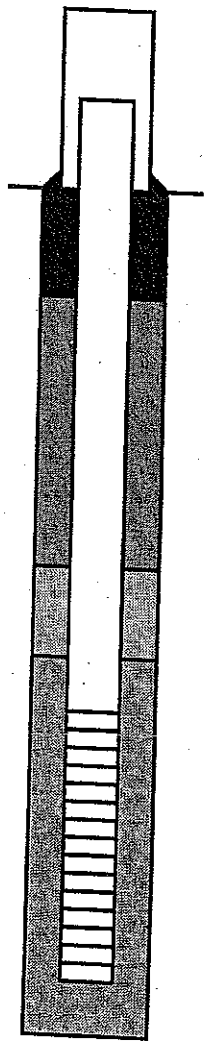
Site Trimmer Road Landfill Job No. 2273 Well No. MW-13

Total Depth 17.24 Surface Elevation 363.64 Top Riser Elevation 366.13

Water Levels (Depth, Date, Time) 5.10' 12/21/04 1436 Date Installed 12/21/04

Riser	Dia. 2" ID	Material PVC	Length 7.24'			
Screen	Dia. 2" ID	Material PVC	Length 10'	Slot Size 10		
Protective Casing	Dia. 4" ID	Material Steel	Length 4'			

SCHEMATIC



2.72' Protective Casing Stickup

2.49' Riser Stickup

Ground Surface

Surface Seal Type Quick-Crete Concrete

1.0' Bottom Surface Seal

Grout Type Enviro-Plug Bentonite Chips

Seal Type Enviro-Plug Bentonite Chips

1.0' Top Seal

1.5' Top Fine Sand Seal

2.0' Top Sand Pack

4.75 Top Screen

Sand Pack Type US Silica

Size #

14.75 Bottom Screen

14.75' Total Depth of Boring

Dvirka and Bartilucci CONSULTING ENGINEERS
A DIVISION OF WILLIAM F. COSULICH ASSOCIATES, P.C.

Well Construction Log

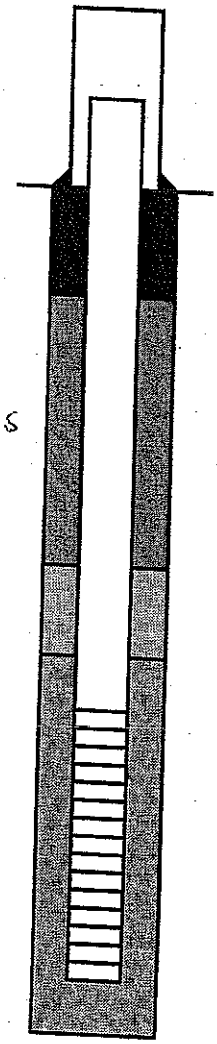
Site Trimmer Road Landfill Job No. 2273 Well No. MW-14

Total Depth 16.6' Surface Elevation 367.38 Top Riser Elevation 369.56

Water Levels (Depth, Date, Time) 1.61, 12/22/04, 1536 Date Installed 12/22/04

Riser	Dia. 2" ID	Material PVC	Length 6.6'			
Screen	Dia. 2" ID	Material PVC	Length 10'	Slot Size 10		
Protective Casing	Dia. 4" ID	Material Steel	Length 4'			

SCHEMATIC



2.47 Protective Casing Stickup

2.18 Riser Stickup

Ground Surface

Surface Seal Type Quick-crete Concrete

1.5 Bottom Surface Seal

Grout Type Enviro-plug Bentonite chips

Seal Type Enviro-plug Bentonite Chips

1.5 Top Seal

2.0 Top Fine Sand Seal

2.42 Top Sand Pack

4.42 Top Screen

Sand Pack Type US Silica
Size #

14.42 Bottom Screen

15.3 Total Depth of Boring

APPENDIX D

GEOPHYSICAL SURVEY REPORT

TERRAIN CONDUCTIVITY SURVEY
TRIMMER ROAD LANDFILL
PARMA, NEW YORK

Prepared for:

Dvirka & Bartilucci Consulting Engineers
PO Box 56
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Prepared by:

Hager-Richter Geoscience, Inc.
8 Industrial Way - D10
Salem, New Hampshire 03079

File 99J43
November, 1999

Terrain Conductivity Survey
Trimmer Road Landfill
Parma, New York
File 99J43 November, 1999

0. EXECUTIVE SUMMARY

Hager-Richter Geoscience, Inc. conducted a terrain conductivity survey at the Trimmer Road Landfill, Parma, New York for Dvirka & Bartilucci Consulting Engineers (D&B) in November, 1999. The survey is part of an environmental investigation of the Site conducted by D&B for the New York State Department of Environmental Conservation (NYSDEC).

The Trimmer Road Landfill is an inactive municipal solid waste landfill located in Parma, New York. The landfill is approximately 25 acres in size and is partially covered by dense vegetation. The area surrounding the landfill is wooded and very flat. The objective of the geophysical survey is to detect, and if detected, to delineate possible leachate plumes around the landfill.

The NYSDEC specified through D&B that the geophysical survey be conducted using a multi-frequency electromagnetic induction terrain conductivity meter and that the survey be conducted in two phases: a pilot study to determine if the method could be used successfully, and if successful, a full scale follow-up survey. The limited pilot test of the method was conducted at the Trimmer Road Landfill on October 27, 1999. After review of the results of the pilot test with D&B and NYSDEC, the parties concurred that the results indicated that possible leachate plumes were detected and the more extensive survey would be performed.

D&B staked the survey lines and specified the area of interest for the geophysical survey. Terrain conductivity data were collected along 11 survey lines ranging in length from approximately 300 feet to 2400 feet. The survey lines were generally oriented approximately parallel to the sides of the landfill. Data were collected using a multi-spectral terrain conductivity meter, the Geophysical Survey Systems GEM-300, and a station spacing of about 2 feet.

On the basis of the terrain conductivity survey conducted at the Trimmer Road Landfill in Parma, New York, we conclude that

- Four zones of elevated values of apparent conductivity occur along the north and northwest sides of the landfill. Three of the areas are adjacent to the landfill and may indicate possible leachate plumes. One of the areas of elevated apparent conductivity is separated from the landfill, and its source is not known.

- No significant areas of elevated apparent conductivity are present along the southern and southwestern sides of the landfill indicating that no leachate plumes were detected in these areas.

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Terrain Conductivity Survey
Trimmer Road Landfill
Parma, New York
File 99J43 November, 1999

1. INTRODUCTION

Hager-Richter Geoscience, Inc. conducted a terrain conductivity survey at the Trimmer Road Landfill, Parma, New York for Dvirka & Bartilucci Consulting Engineers (D&B) of Syracuse, New York in November, 1999. The survey is part of an environmental investigation of the Site being conducted by D&B for the New York State Department of Environmental Conservation (NYSDEC).

The Trimmer Road Landfill is an inactive municipal solid waste disposal site located in Parma, New York (Figure 1). The landfill is approximately 25 acres in size, Plate 1 is a Site Plan. The Site is currently partially covered by dense vegetation and the area located off the landfill is very flat. The objective of the terrain conductivity survey was to delineate possible leachate plumes on the north, west, and south sides of the landfill. D&B specified the locations of the survey lines and assisted in staking and clearing the survey lines.

The NYSDEC specified through D&B that the geophysical survey be conducted using a multi-frequency electromagnetic induction terrain conductivity meter and that the survey be conducted in two phases: a pilot study to determine whether the method could be used successfully, and if successful, a full scale follow-up survey. The pilot test was conducted at the Trimmer Road Landfill by Jeffrey Reid, P.G., of Hager-Richter at the direction of D&B and the NYSDEC on October 27, 1999. After review of the results of the pilot test with Mr. Gerry Gould of D&B and Mr. David Foster of NYSDEC, the parties concurred that the results indicated that possible leachate plumes were detected and the full scale follow-up survey would be performed. The locations of the survey lines conducted during the pilot study were not surveyed, and therefore, the data collected during the pilot study are not reported here.

Steven Grant and Jeffrey Sullivan of Hager-Richter conducted the field operations for the follow-up survey on November 1-4, 1999. The project was coordinated with Mr. Gerry Gould of D&B, who specified the locations of the survey lines, assisted clearing and staking the survey lines, and observed a portion of the field work. All work was conducted under Level D personal protection. Data analysis and interpretation were completed at the Hager-Richter offices. Original data and field notes reside in the Hager-Richter files and will be retained for a minimum of three years.

2. EQUIPMENT AND PROCEDURES

2.1 General

Terrain conductivity meters use the electromagnetic induction method, wherein an electrical current is induced in the subsurface by energizing a coil of wire (the transmitter) with an alternating current at the surface of the earth. The induced alternating current produces a secondary magnetic field that is proportional to the conductivity of the subsurface material and the voltage generated by the secondary magnetic field in the receiver coil of the instrument is related to the conductivity.

2.2 Equipment.

We used a Geophysical Survey Systems GEM-300 Multi Frequency Electromagnetic Profiler for the survey. This instrument is based on the same principles of electromagnetic induction as other commonly used terrain conductivity meters such as Geonics EM31, EM34, and EM38. There are two coils separated by a small fixed distance. One coil, the transmitter coil, induces eddy currents in the subsurface and the other coil, the receiver coil, measures the secondary fields due to the eddy currents. The in-phase (IP) and quadrature (QP) components of the secondary field are related to the volume of metallic objects in the subsurface and the electrical conductivity of the subsurface material, respectively.

The theoretical advantage of the GEM-300 over the Geonics instruments is that the frequencies of the Geonics units are fixed whereas the frequency of the GEM-300 is user-selectable over the range 330 to 20,000 Hz, and up to 16 frequencies can be measured simultaneously. Because the depth of the subsurface material that is sampled for a particular measurement is a function of frequency, the GEM-300 data reportedly can provide relative depths of objects detected with several frequencies.

2.3 Data Analysis and Interpretation.

Terrain conductivity data are plotted in either profile format or as contour maps, depending on the density of the data. At sites free of metal objects and other cultural interference, the terrain conductivity measured at a particular location is controlled by the subsurface fluid. The instrument response is more affected by near-surface material than by deeper material. In cases where the terrain conductivity meter is directly over a buried metal target, the apparent conductivity reading may be a negative number.

Terrain conductivity surveys are commonly included in environmental investigations because they can be used to determine the lateral extent of disposal areas and/or landfills, to detect buried metal objects, and to detect the presence of conductive leachate plumes. Typically, terrain conductivity values measured in disposal areas are irregular and highly variable over short distances due to the heterogeneous materials in the subsurface. The edges of disposal areas can be determined, then, where there is a change to smoothly varying values of terrain conductivity. In areas of buried metal objects, terrain conductivity meters commonly yield apparently negative values. Leachate plumes are generally recognized on the basis of terrain conductivity data as relatively smoothly varying, but anomalously elevated, values compared to the background values for a given site.

2.4 Limitations of the Method

As with any of the electrical geophysical methods, terrain conductivity data are subject to interference from such cultural features as buildings, fencing, and underground and overhead power lines. Thus, the use of the terrain conductivity method in urban settings might be limited.

Terrain conductivity meters were designed and calibrated to be used in the range of natural ground conductivity (i.e., low induction numbers). Values of apparent conductivity greater than about 100 mmho/m are likely not valid measures of actual ground conductivity. In areas where the meters are affected by highly conductive materials (such as metal objects), the values of apparent terrain conductivity measured are not accurate.

2.5 Site Specific

D&B specified the area of interest for the survey and assisted in establishing staked survey lines for the geophysical survey. Data for the terrain conductivity survey were recorded at approximately 2-foot intervals along lines oriented generally parallel to the north, south, and west sides of the landfill. The quadrature phase (apparent conductivity) component was recorded for the vertical dipole mode at frequencies of 1.530 kHz, 7.290 kHz, 9.810 kHz, and 15.270 kHz for all traverses. The minimum and maximum frequencies were selected by the field crew and the intermediate frequencies were selected automatically by the equipment.

Apparent conductivity data were re-measured along a baseline located off the southwest corner of the landfill at the beginning, before and after lunch, and end of each day to check for instrument drift. Instrument drift of up to 7 mmho/m was detected between baseline measurements and the field data were corrected for the instrument drift. The values of apparent conductivity reported are relative to the value of apparent conductivity at the southern end of the baseline. Therefore, some of the values reported are negative because they are lower relative to the baseline.

3. RESULTS AND DISCUSSION

The apparent conductivity data for the Trimmer Road Landfill is presented in color contour form in Plate 2 and in profile form in Appendix 1. The profile plots of apparent conductivity are corrected for the instrument drift, but have not been edited for electronic noise as evidenced by spikes and station-to-station variations, especially prominent in the 1.530 kHz data. The contoured data shown in Plate 2 have been corrected for instrument drift and the electronic noise has been removed.

The GEM-300 measurements are referred to as "apparent" conductivity because they do not represent an accurate value of the conductivity of the subsurface, but rather represent bulk measurements of large volumes of earth. Although the values measured are "apparent," the relative changes in conductivity in a single survey reflect relative changes in conductivity of the subsurface as a function of surface location, however.

Theoretically, the different combinations of frequencies used for the data collection for the GEM-300 allow exploration of apparent conductivity of the subsurface for differing depth intervals, with variation of the relative effects of near surface versus deeper materials for the high frequencies and low frequencies, respectively. The table below shows the theoretical effects of frequency on the nominal depth of exploration[1].

Frequency (kHz)	Assumed Conductivity (mho/m)	Depth of Exploration (m)
1.530	1	14 m
7.290	1	5.8 m
9.810	1	5 m
15.270	1	2.9 m

For this Site, however, there is little real variation in the shapes of the profiles for the different frequencies, other than a small vertical shift in the apparent conductivity values as shown in the appendix. Therefore, we provide contoured data for only a single frequency. The color contour plot, Plate 2, represents the apparent conductivity of the subsurface using the 9.810 kHz frequency.

[1] Taken from the Skin Depth Nomogram provided in Geophysical Survey System, Inc. GEM-300 Operating Manual, dated January, 1998.

Terrain Conductivity Survey
Trimmer Road Landfill
Parma, New York
File 99J43 November, 1999

The contour plot of apparent conductivity indicates the presence of four major zones of elevated apparent conductivity: two zones extending northward from the landfill, a zone extending northwest from the west side of the landfill, and a zone located northwest of the landfill. Such zones may indicate possible leachate plumes.

A zone with elevated apparent conductivity extends northward from the landfill near Line J, 2100E. The possible plume extends at least 200 feet from the landfill, but was not detected on Line L located 400 feet north of the landfill. Another area of elevated apparent conductivity on the north side of the landfill extends north from Line J, 1500E. The location of this possible plume is coincident with a swampy area with standing water and phragmites. Whether the elevated apparent conductivity values are due to the presence of shallow groundwater or conductive leachate cannot be determined on the basis of the geophysical data alone. However, since the elevated apparent conductivity values extend beyond the swampy area, we infer that at least a portion of the response is due to conductive groundwater. The possible plume extends at least 400 feet from the landfill, but was not detected on Line M located approximately 600 feet north of the landfill.

Two areas of elevated apparent conductivity are located on the west and northwest sides of the landfill. One such area occurs near Line H, 1200 E and extends to the northwest approximately 350 feet and roughly coincides with a marshy area . Whether the elevated apparent conductivity values are due to the presence of shallow groundwater or conductive leachate cannot be determined on the basis of the geophysical data alone. However, since the elevated apparent conductivity values extend beyond the swampy area, we infer that at least a portion of the response is due to conductive groundwater.

The area of elevated conductivity located northwest of the landfill with peak conductivity near Line K+50, 1000E is separated from the landfill and the other possible plumes. Because elevated apparent conductivity was not detected closer to the landfill along Line J and Line 1000E, we cannot firmly attribute this area elevated apparent conductivity to a conductive leachate plume from the landfill. The apparent conductivity anomaly associated with the area is well constrained on the south and east sides, but may extend outside the survey area on the west and north sides near K+50, 700E and Line M, 850E, respectively. Due to time limitations and dense vegetation in these areas, additional data could not be collected.

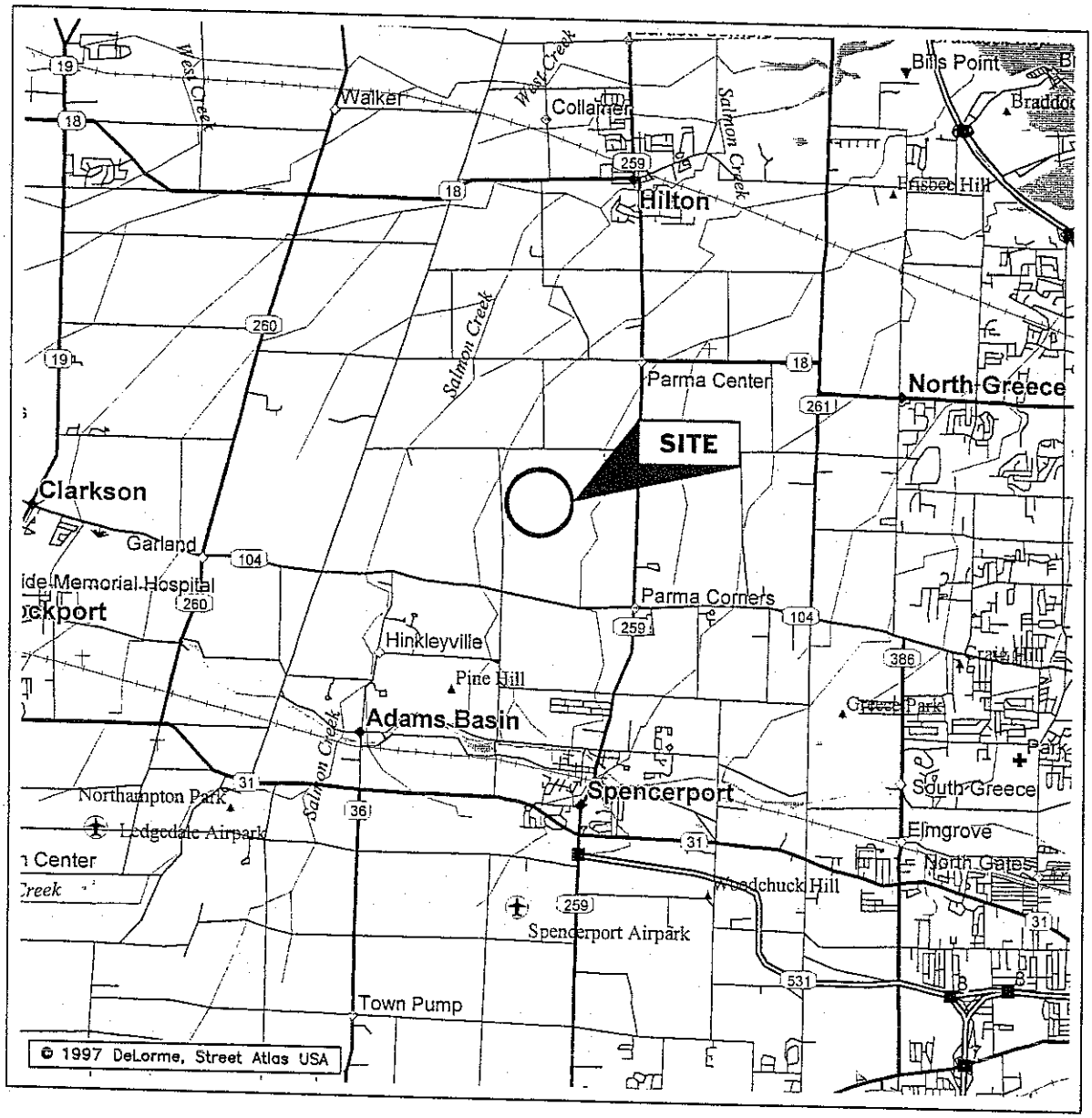
No significant apparent conductivity anomalies are present along the southern and southeastern sides of the landfill and we infer that no leachate plumes are present in these areas surveyed. A few small, low amplitude anomalies are located along the entrance road to the landfill and along Line 1100E, and are attributed to small pieces at surface metal noted at the time of the survey.

4. LIMITATIONS

This report was prepared for the exclusive use of Dvirka & Bartilucci Consulting Engineers and the New York State Department of Environmental Conservation(Client). No other party shall be entitled to rely on this Report or any information, documents, records, data, interpretations, advice or opinions given to Client by Hager-Richter Geoscience, Inc. (H-R) in the performance of its work. The Report relates solely to the specific project for which H-R has been retained and shall not be used or relied upon by Client or any third party for any variation or extension of this project, any other project or any other purpose without the express written permission of H-R. Any unpermitted use by Client or any third party shall be at Client's or such third party's own risk and without any liability to H-R.

H-R has used reasonable care, skill, competence and judgment in the preparation of this Report consistent with professional standards for those providing similar services at the same time, in the same locale, and under like circumstances. Unless otherwise stated, the work performed by H-R should be understood to be exploratory and interpretational in character and any results, findings or recommendations contained in this Report or resulting from the work proposed may include decisions which are judgmental in nature and not necessarily based solely on pure science or engineering. It should be noted that our conclusions might be modified if subsurface conditions were better delineated with additional subsurface exploration including, but not limited to, test pits, soil borings with collection of soil and water samples, and laboratory testing.

Except as expressly provided in this limitations section, H-R makes no other representation or warranty of any kind whatsoever, oral or written, expressed or implied; and all implied warranties of merchantability and fitness for a particular purpose, are hereby disclaimed.



LOCATION

SCALE (miles)

0 2 4

Figure 1
General Site Location
Trimmer Road Landfill
Parma, New York

File 99J43 | November, 1999

HAGER–RICHTER GEOSCIENCE, INC.
Salem, New Hampshire

APPENDIX 1
APPARENT CONDUCTIVITY DATA
TRIMMER ROAD LANDFILL
PARMA, NEW YORK

Trimmer Road Landfill
Parma, NY
Line A

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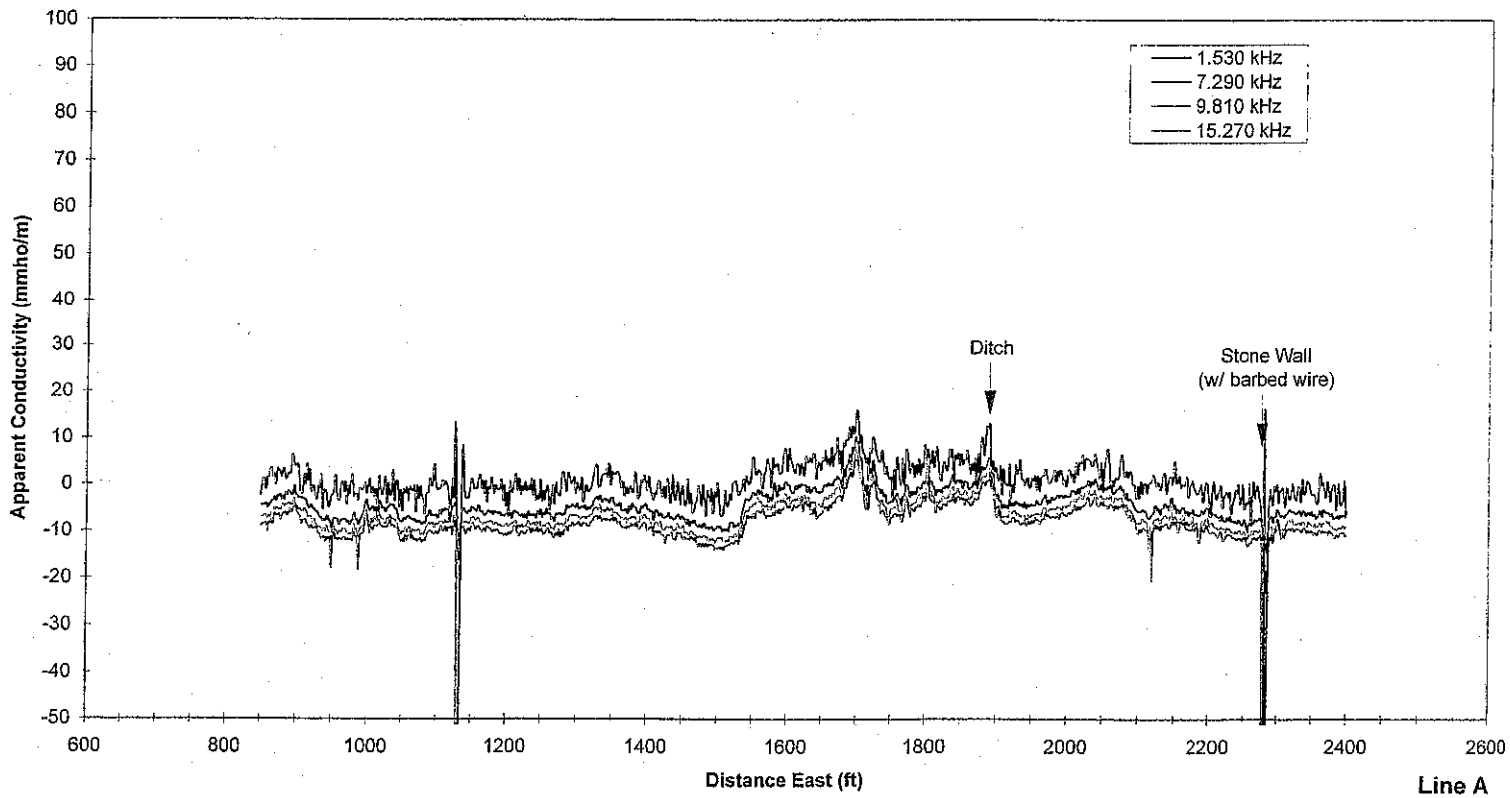
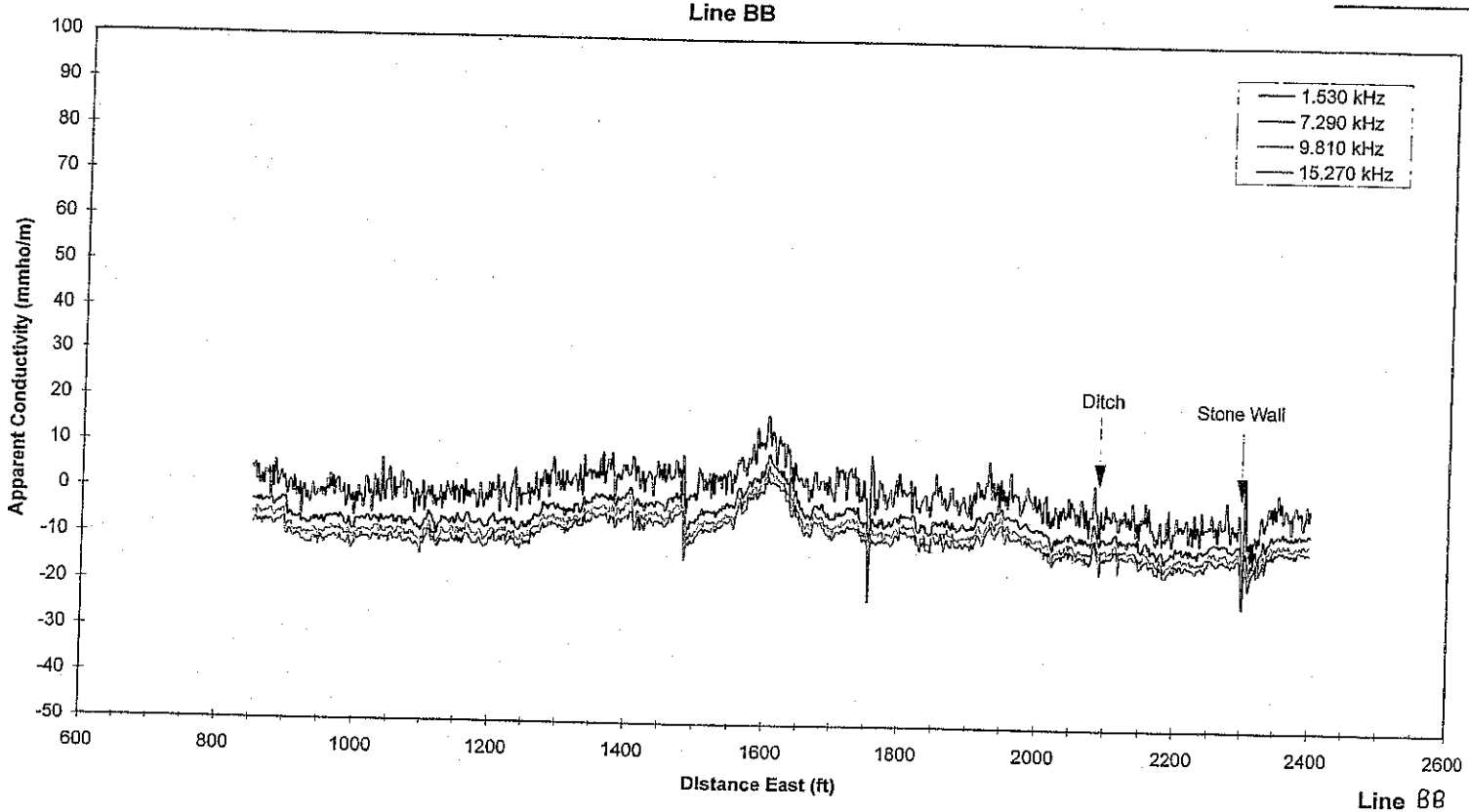
GEOSCIENCE, INC.



Line A

Trimmer Road Landfill
Parma, NY
Line BB

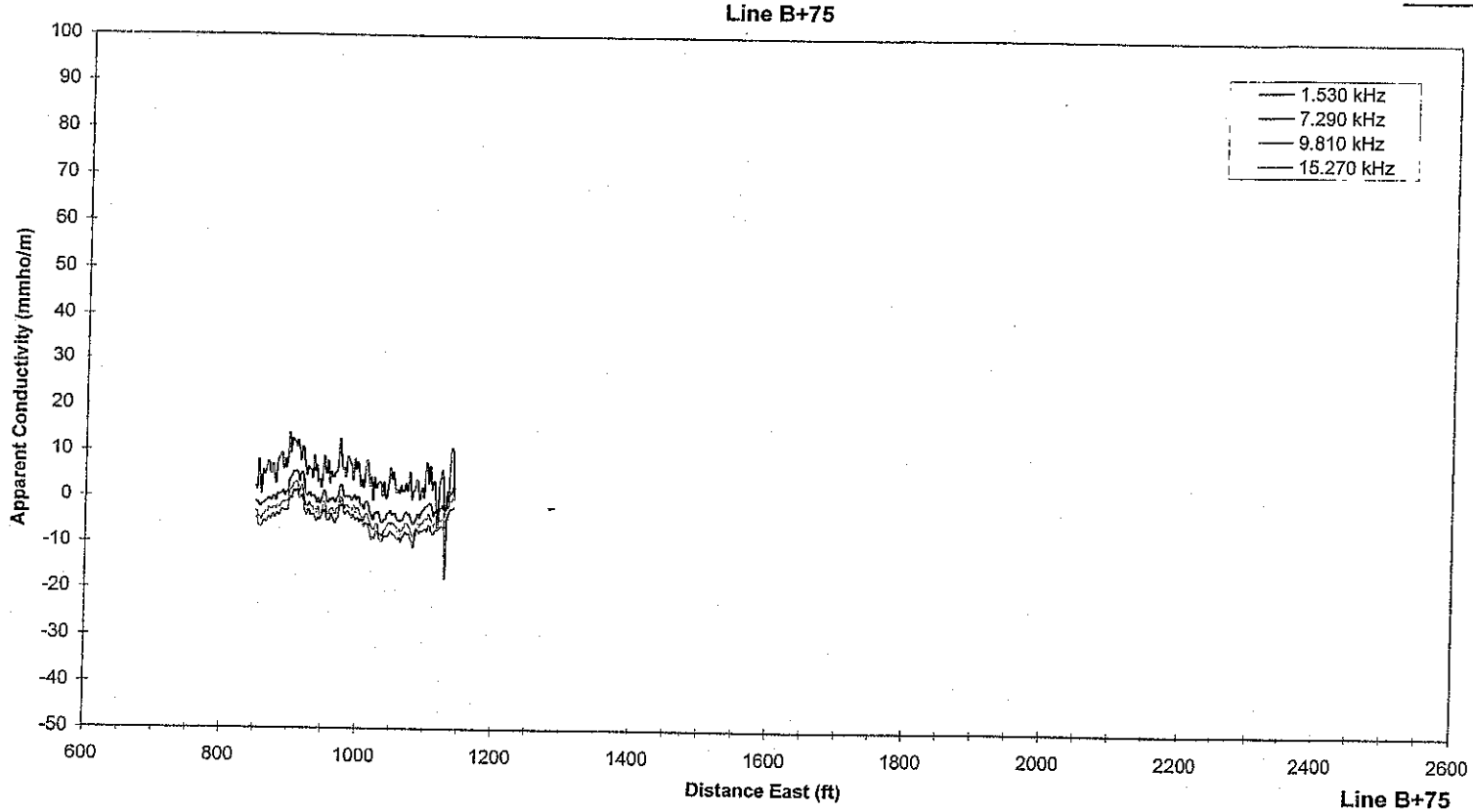
HAGER-RICHTER
GEOSCIENCE, INC.



Line BB

Trimmer Road Landfill
Parma, NY
Line B+75

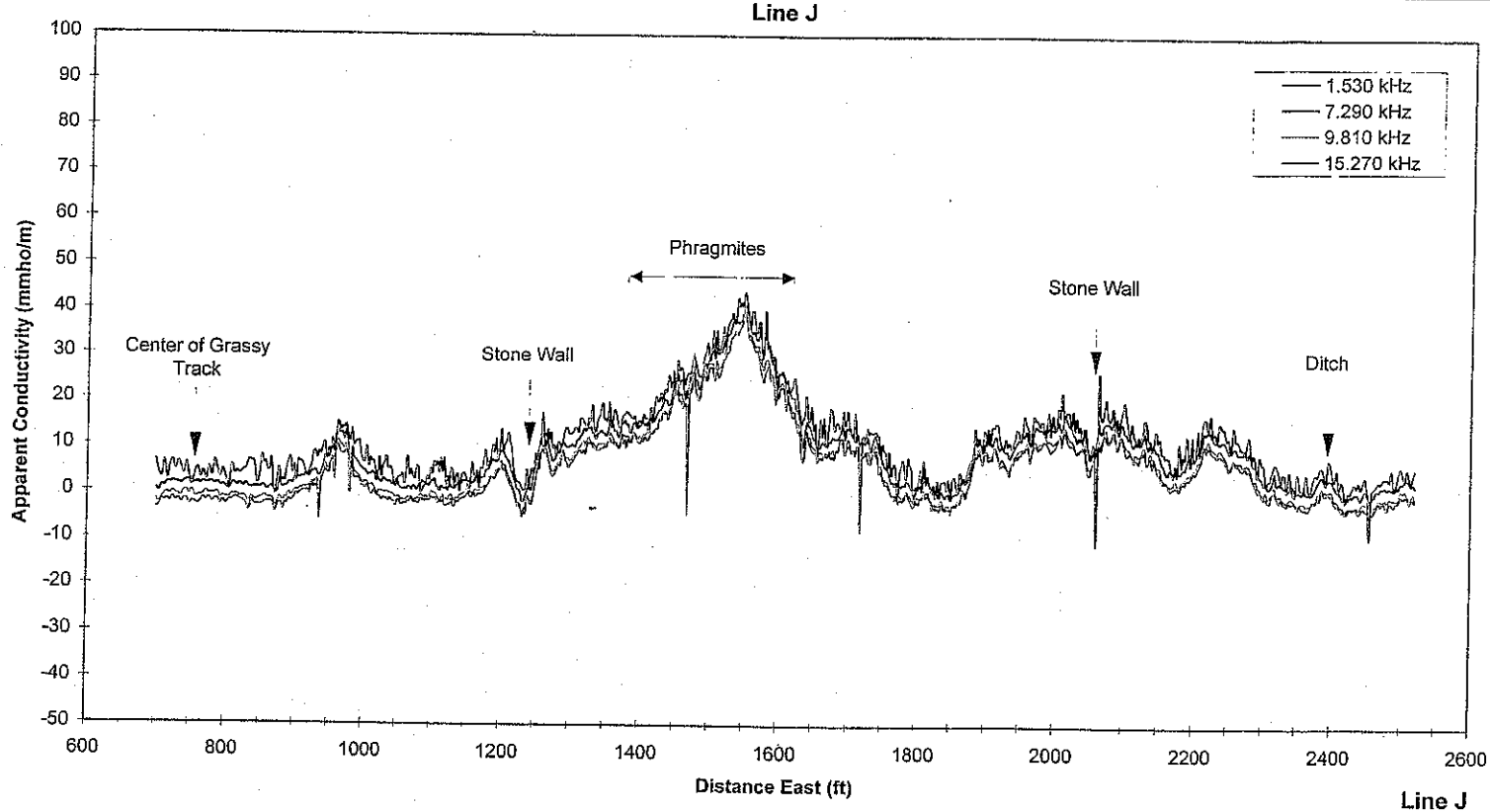
HAGER-RICHTER
GEOSCIENCE, INC.



Line B+75

HAGER-RICHTER
GEOSCIENCE, INC.

Trimmer Road Landfill
Parma, NY
Line J



Line J

Trimmer Road Landfill
Parma, NY
Line K

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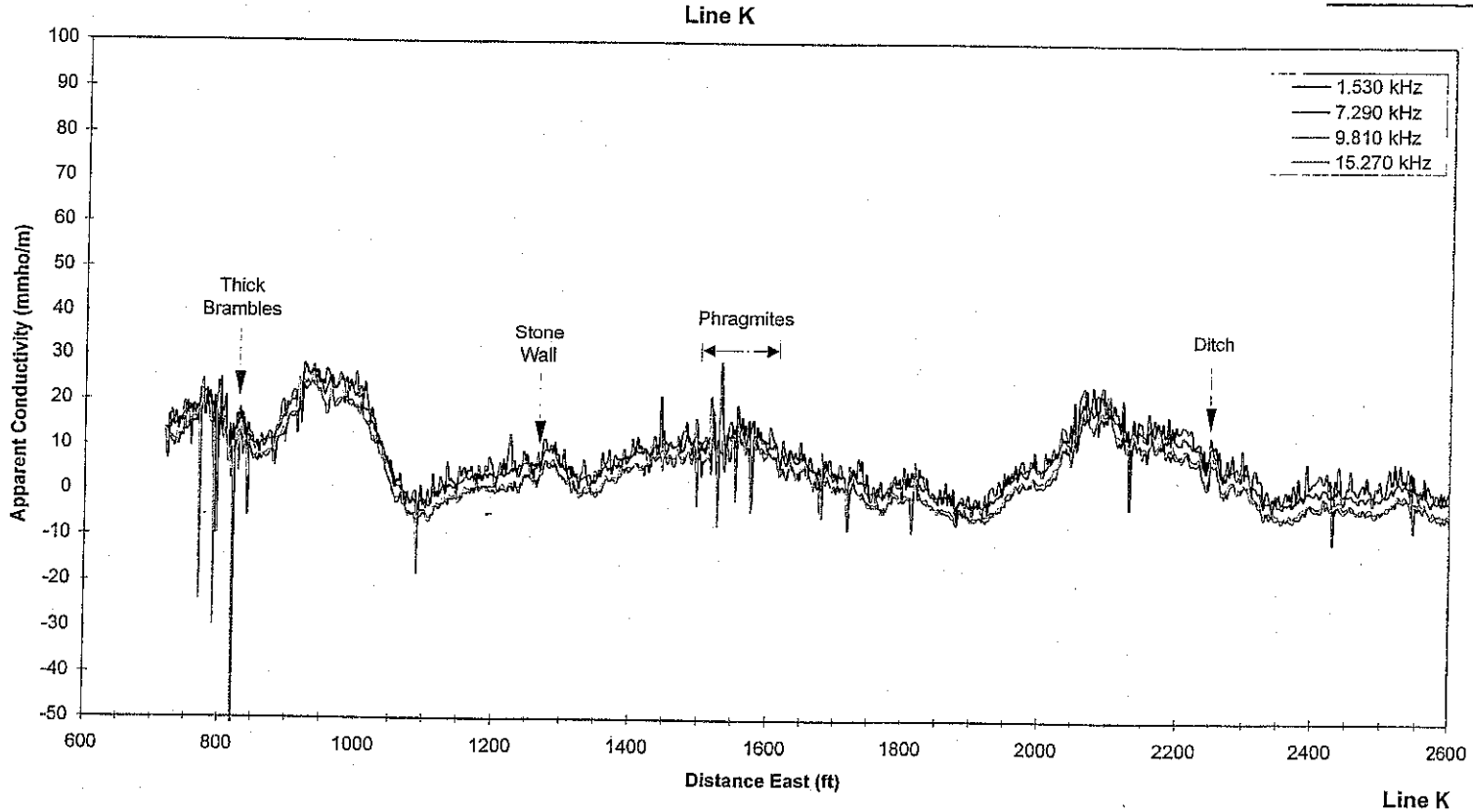

Line K

Trimmer Road Landfill
Parma, NY
Line L

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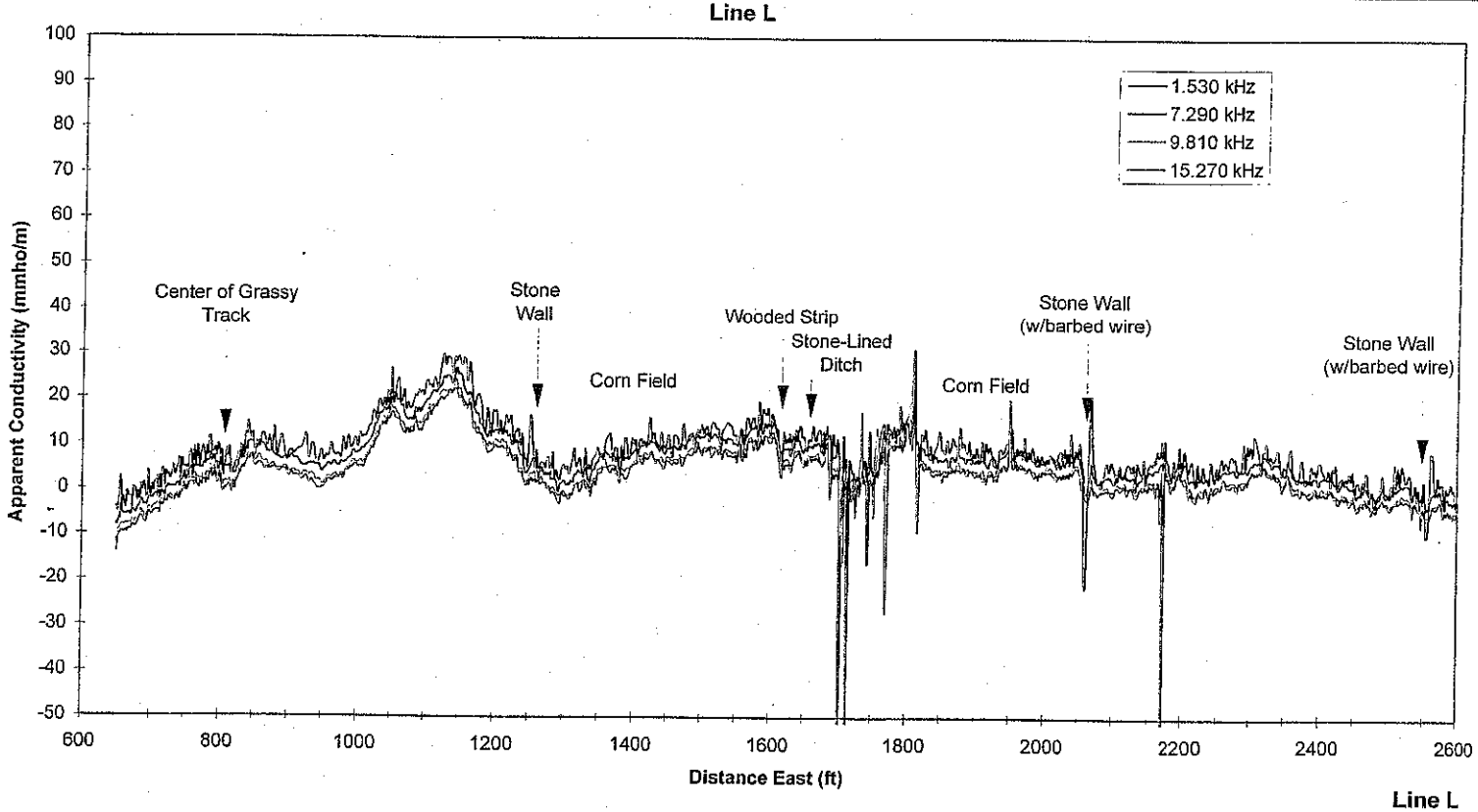
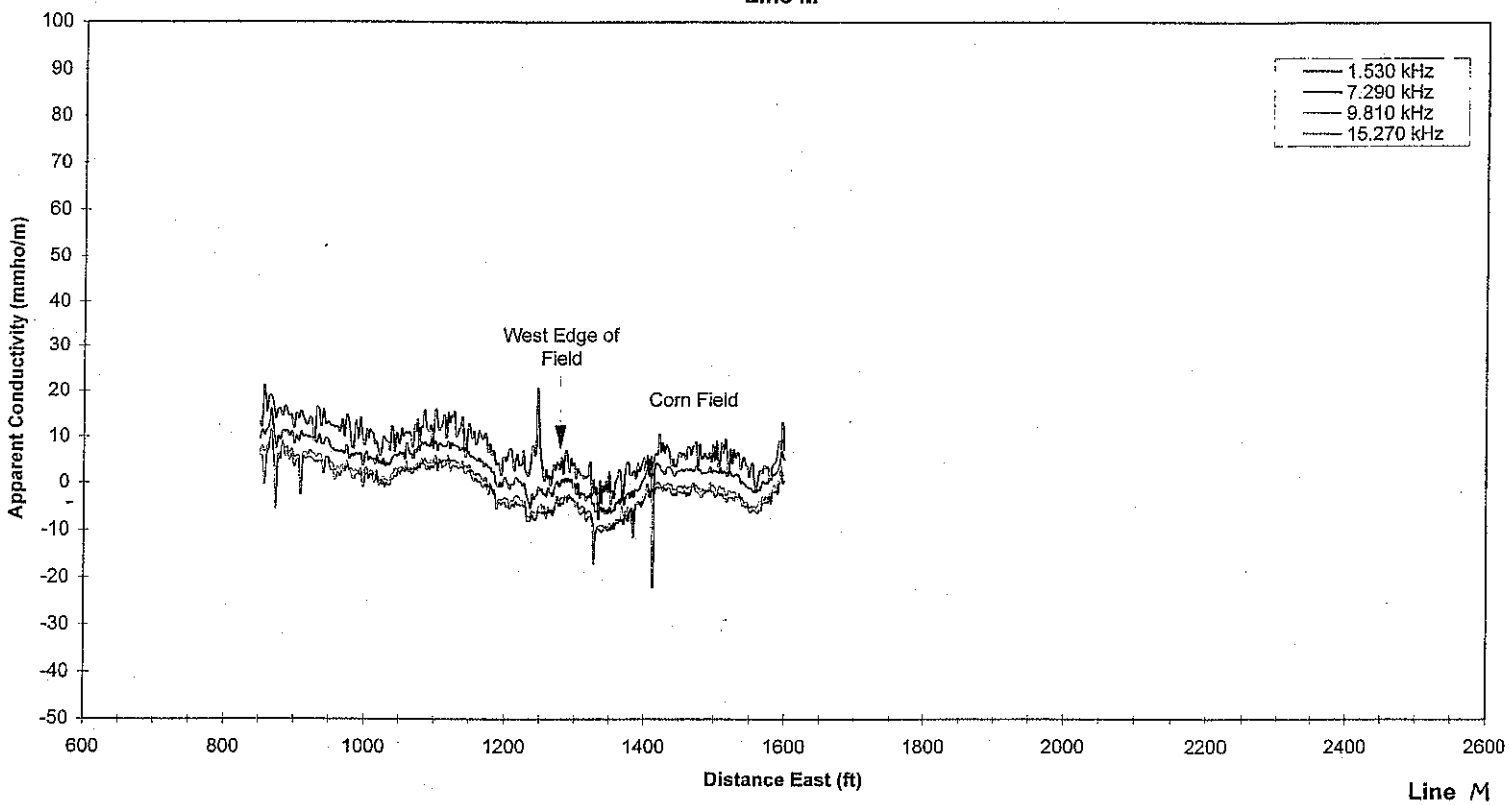
GEOSCIENCE, INC.



Line L

Trimmer Road Landfill
Parma, NY
Line M

HAGER-RICHTER
GEOSCIENCE, INC.



Line M

Trimmer Road Landfill
Parma, NY
Line 700E

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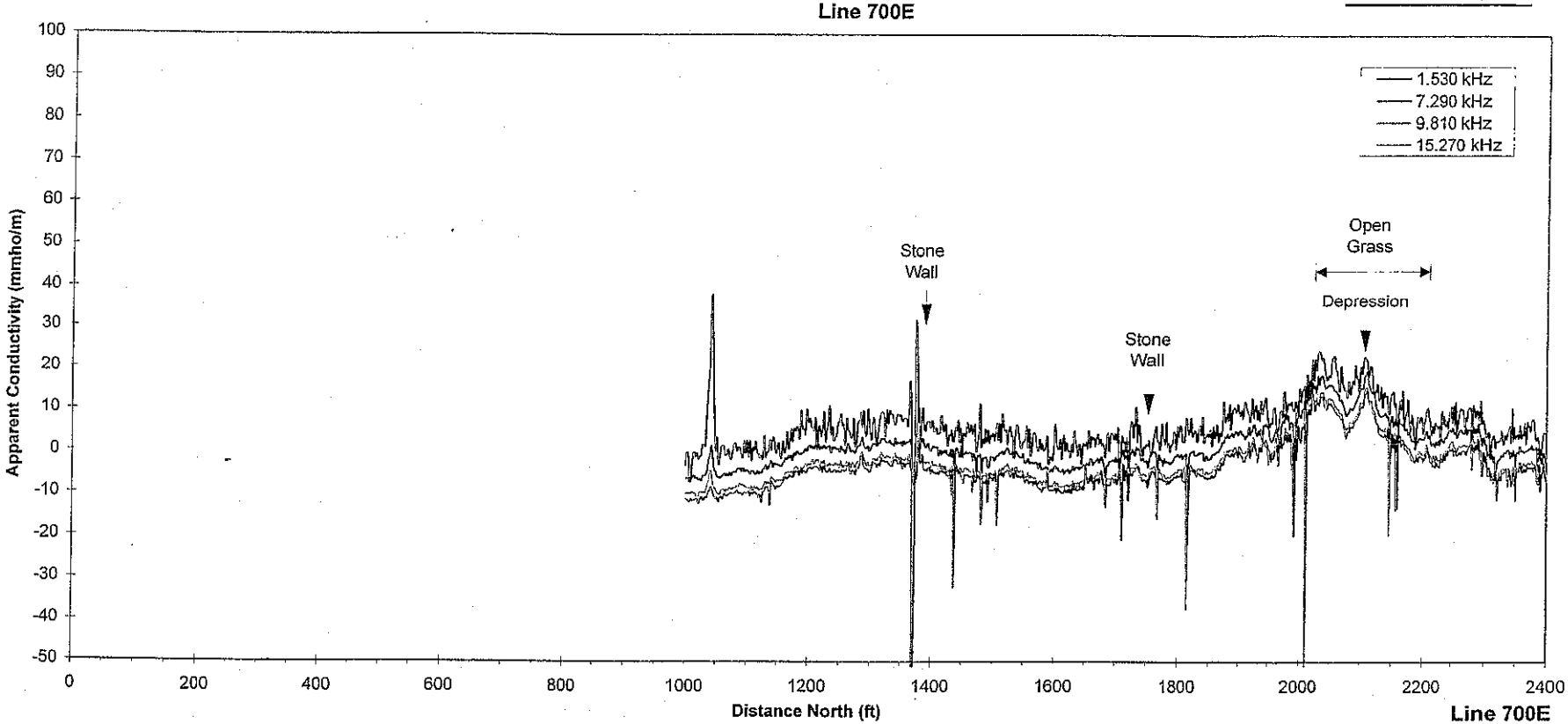

Line 700E

Trimmer Road Landfill
Parma, NY
Line 850E

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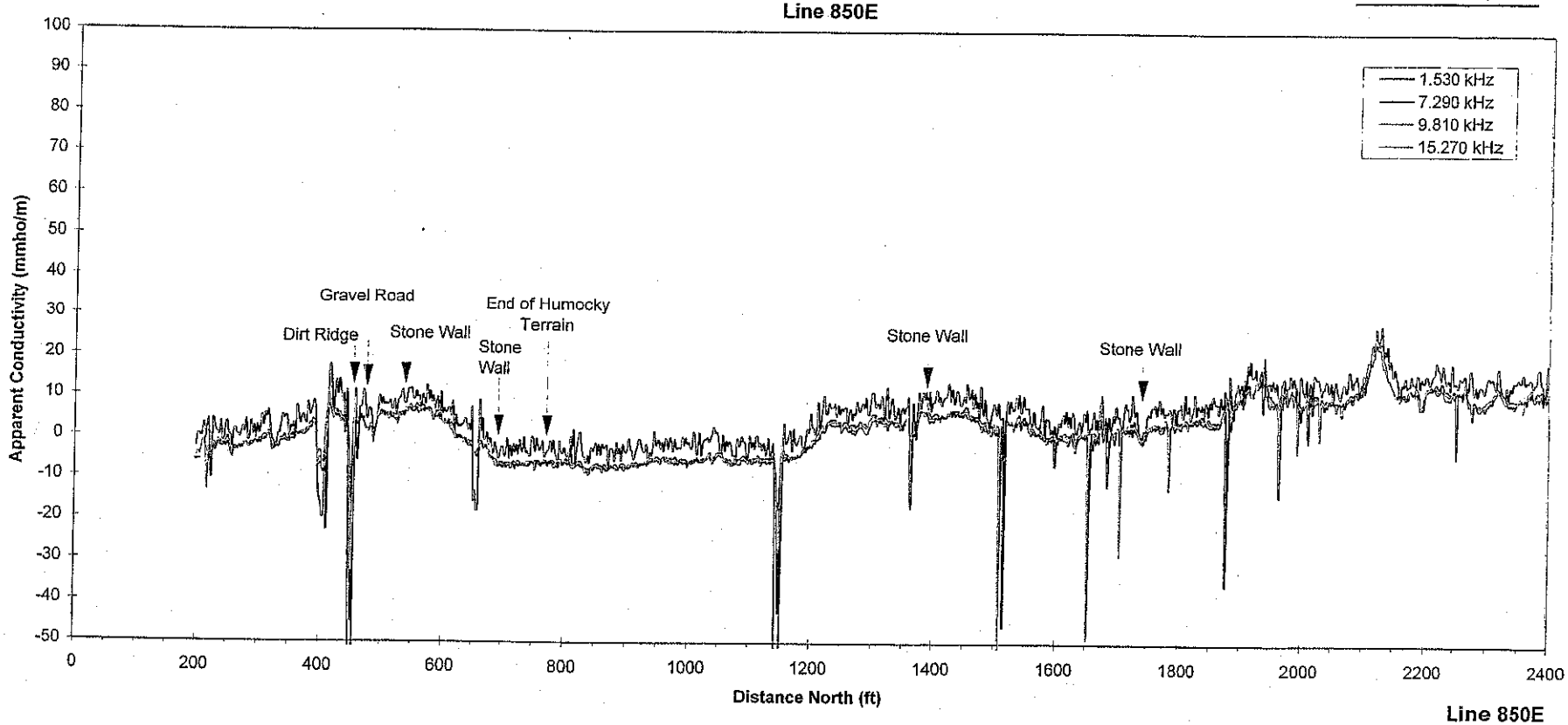

Line 850E

Trimmer Road Landfill
Parma, NY
Line 1000E

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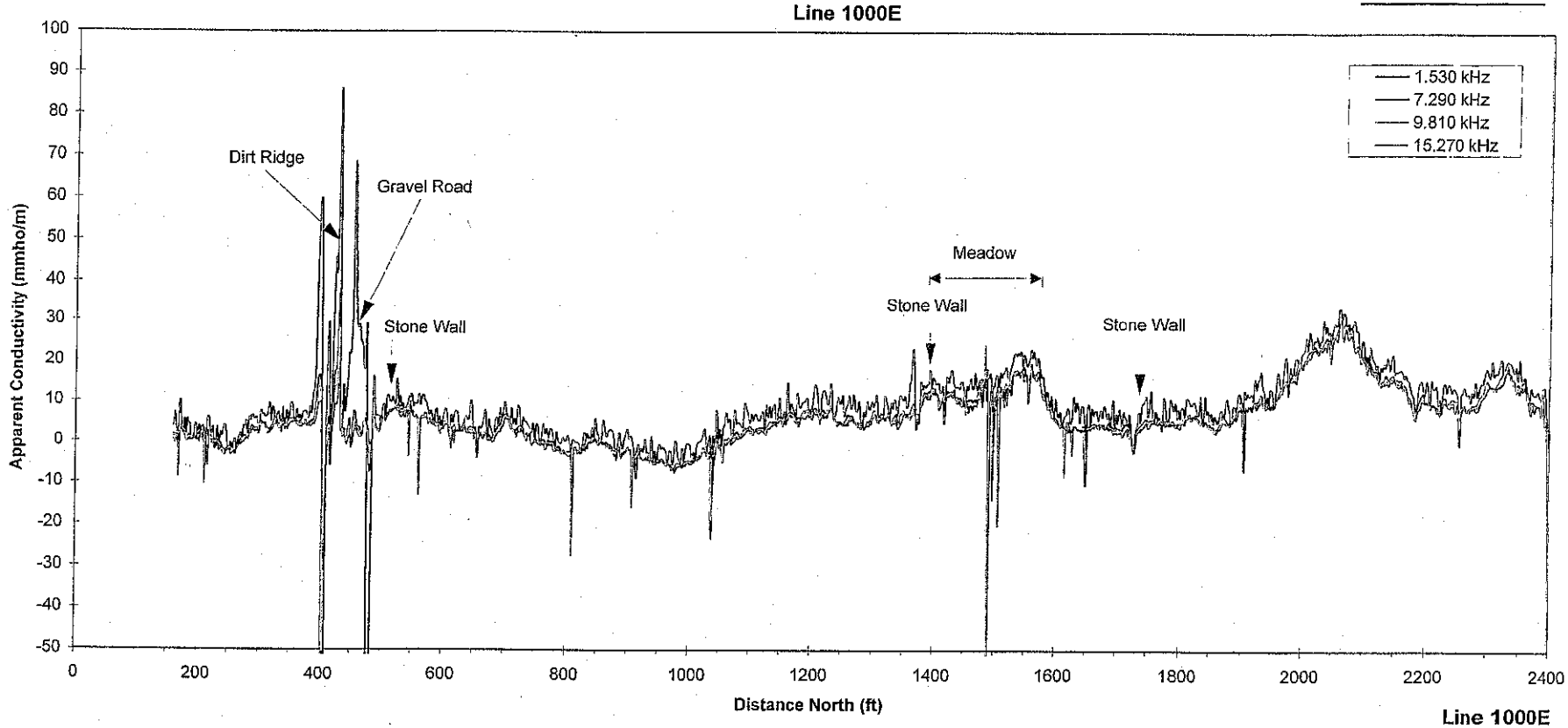
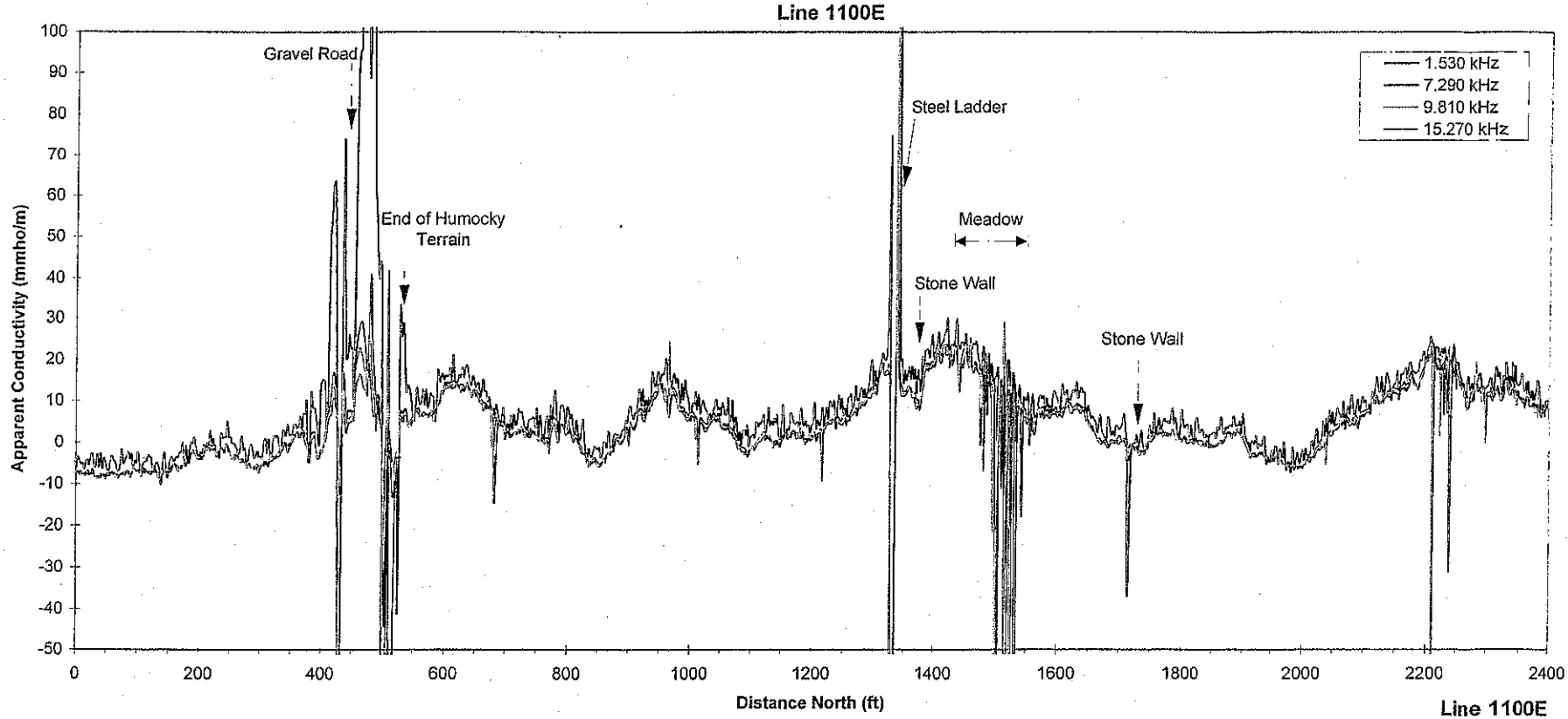
GEOSCIENCE, INC.



Line 1000E

Trimmer Road Landfill
Parma, NY
Line 1100E

HAGER-RICHTER
GEOSCIENCE, INC.



Line 1100E

APPENDIX E

GROUNDWATER ELEVATION DATA

Groundwater Level Measurements
Trimmer Road landfill
January 24, 2000

Well ID	Depth to Groundwater (feet)	Groundwater Elevation (feet amsl)	Depth Below Ground Surface (feet)
MW-01D	7.74	379.74	5.16
MW-01S	7.87	379.39	5.43
MW-02D	17.74	372.01	15.23
MW-02S	9.49	379.57	7.99
MW-03D	7.02	378.35	4.36
MW-03S	11.68	373.41	9.20
MW-04D	8.61	364.63	7.05
MW-04S	3.34	370.49	1.18
MW-05D	9.01	362.75	6.70
MW-05S	5.44	365.97	3.61
MW-06D	6.14	367.68	3.67
MW-06S	5.16	367.76	3.52
MW-07D	15.12	374.18	13.26
MW-07S	10.00	367.74	7.80
MW-08D	5.77	362.39	3.02
MW-08S	3.78	363.88	1.42
MW-09D	8.51	363.07	6.62
MW-09S	8.14	364.11	5.84
MW-10D	4.46	366.55	2.19
MW-10S	4.14	367.07	1.70
PZ-1	13.46	381.32	11.23
PZ-2	10.25	373.98	7.71
PZ-3	8.98	369.69	6.75
PZ-4	8.52	377.11	5.88
SG-1	2.24	379.00	NA
SG-2	2.95	370.89	NA
SG-3	2.99	368.74	NA
TR-3D	1.19	380.24	0.57
TR-3M	5.18	376.46	4.36
TR-3S	4.72	376.44	4.41

Groundwater Level Measurements
Trimmer Road landfill
February 16, 2000

Well ID	Depth to Groundwater (feet)	Groundwater Elevation (feet amsl)	Depth Below Ground Surface (feet)
MW-01D	6.32	381.16	3.74
MW-01S	5.96	381.30	3.52
MW-02D	16.65	373.10	14.14
MW-02S	7.88	381.18	6.38
MW-03D	5.77	379.60	3.11
MW-03S	10.31	374.78	7.83
MW-04D	7.61	365.63	6.05
MW-04S	2.88	370.95	0.72
MW-05D	8.18	363.58	5.87
MW-05S	4.64	366.77	2.81
MW-06D	5.60	368.22	3.13
MW-06S	4.53	368.39	2.89
MW-07D	14.58	374.72	12.72
MW-07S	9.21	368.53	7.01
MW-08D	4.63	363.53	1.88
MW-08S	3.15	364.51	0.79
MW-09D	7.56	364.02	5.67
MW-09S	4.80	367.45	2.50
MW-10D	3.89	367.12	1.62
MW-10S	3.57	367.64	1.13
PZ-1	13.41	381.37	11.18
PZ-2	10.22	374.01	7.68
PZ-3	8.77	369.90	6.54
PZ-4	8.60	377.03	5.96
SG-1	2.48	378.76	NA
SG-2	2.95	370.89	NA
SG-3	2.83	368.90	NA
TR-3D	1.21	380.22	0.59
TR-3M	4.87	376.77	4.05
TR-3S	3.84	377.32	3.53

Groundwater Level Measurements
Trimmer Road landfill
March 29, 2000

Well ID	Depth to Groundwater (feet)	Groundwater Elevation (feet amsl)	Depth Below Ground Surface (feet)
MW-01D	4.03	383.45	1.45
MW-01S	3.03	384.23	0.59
MW-02D	13.29	376.46	10.78
MW-02S	5.88	383.18	4.38
MW-03D	1.88	383.49	-0.78
MW-03S	5.46	379.63	2.98
MW-04D	5.60	367.64	4.04
MW-04S	1.71	372.12	-0.45
MW-05D	6.28	365.48	3.97
MW-05S	4.04	367.37	2.21
MW-06D	4.12	369.70	1.65
MW-06S	3.17	369.75	1.53
MW-07D	11.60	377.70	9.74
MW-07S	7.21	370.53	5.01
MW-08D	3.71	364.45	0.96
MW-08S	2.80	364.86	0.44
MW-09D	5.86	365.72	3.97
MW-09S	3.84	368.41	1.54
MW-10D	2.45	368.56	0.18
MW-10S	2.35	368.86	-0.09
PZ-1	10.74	384.04	8.51
PZ-2	9.83	374.40	7.29
PZ-3	5.46	373.21	3.23
PZ-4	7.46	378.17	4.82
SG-1	2.30	378.94	NA
SG-2	2.91	370.93	NA
SG-3	1.89	369.84	NA
TR-3D	1.22	380.21	0.60
TR-3M	0.92	380.72	0.10
TR-3S	1.06	380.10	0.75

Groundwater Level Measurements
Trimmer Road landfill
April 18, 2000

Well ID	Depth to Groundwater (feet)	Groundwater Elevation (feet amsl)	Depth Below Ground Surface (feet)
MW-01D	3.89	383.59	1.31
MW-01S	2.77	384.49	0.33
MW-02D	12.61	377.14	10.10
MW-02S	5.70	383.36	4.20
MW-03D	1.64	383.73	-1.02
MW-03S	5.11	379.98	2.63
MW-04D	5.47	367.77	3.91
MW-04S	1.64	372.19	-0.52
MW-05D	6.02	365.74	3.71
MW-05S	3.88	367.53	2.05
MW-06D	4.10	369.72	1.63
MW-06S	3.13	369.79	1.49
MW-07D	11.72	377.58	9.86
MW-07S	6.94	370.80	4.74
MW-08D	3.59	364.57	0.84
MW-08S	2.61	365.05	0.25
MW-09D	5.66	365.92	3.77
MW-09S	3.68	368.57	1.38
MW-10D	2.45	368.56	0.18
MW-10S	2.35	368.86	-0.09
PZ-1	10.31	384.47	8.08
PZ-2	9.50	374.73	6.96
PZ-3	5.25	373.42	3.02
PZ-4	7.11	378.52	4.47
SG-1	2.47	378.77	NA
SG-2	3.02	370.82	NA
SG-3	2.03	369.70	NA
TR-3D	1.04	380.39	0.42
TR-3M	0.94	380.70	0.12
TR-3S	1.24	379.92	0.93

Groundwater Level Measurements
Trimmer Road landfill
May 19, 2000

Well ID	Depth to Groundwater (feet)	Groundwater Elevation (feet amsl)	Depth Below Ground Surface (feet)
MW-01D	3.84	383.64	1.26
MW-01S	2.83	384.43	0.39
MW-02D	11.48	378.27	8.97
MW-02S	5.58	383.48	4.08
MW-03D	1.50	383.87	-1.16
MW-03S	5.16	379.93	2.68
MW-04D	5.39	367.85	3.83
MW-04S	1.69	372.14	-0.47
MW-05D	5.85	365.91	3.54
MW-05S	4.00	367.41	2.17
MW-06D	4.09	369.73	1.62
MW-06S	3.15	369.77	1.51
MW-07D	11.94	377.36	10.08
MW-07S	7.03	370.71	4.83
MW-08D	3.56	364.60	0.81
MW-08S	2.76	364.90	0.40
MW-09D	5.56	366.02	3.67
MW-09S	3.83	368.42	1.53
MW-10D	2.41	368.60	0.14
MW-10S	2.33	368.88	-0.11
PZ-1	10.78	384.00	8.55
PZ-2	9.67	374.56	7.13
PZ-3	5.29	373.38	3.06
PZ-4	6.77	378.86	4.13
SG-1	2.28	378.96	NA
SG-2		373.84	NA
SG-3	1.94	369.79	NA
TR-3D	1.02	380.41	0.40
TR-3M	1.07	380.57	0.25
TR-3S	1.08	380.08	0.77

Groundwater Level Measurements
Trimmer Road landfill
June 6, 2000

Well ID	Depth to Groundwater (feet)	Groundwater Elevation (feet amsl)	Depth Below Ground Surface (feet)
MW-01D	4.21	383.27	1.63
MW-01S	3.05	384.21	0.61
MW-02D	11.42	378.33	8.91
MW-02S	5.96	383.10	4.46
MW-03D	2.04	383.33	-0.62
MW-03S	5.51	379.58	3.03
MW-04D	5.81	367.43	4.25
MW-04S	1.80	372.03	-0.36
MW-05D	5.98	365.78	3.67
MW-05S	4.29	367.12	2.46
MW-06D	4.43	369.39	1.96
MW-06S	3.41	369.51	1.77
MW-07D	12.39	376.91	10.53
MW-07S	7.38	370.36	5.18
MW-08D	3.86	364.30	1.11
MW-08S	2.84	364.82	0.48
MW-09D	5.75	365.83	3.86
MW-09S	4.13	368.12	1.83
MW-10D	2.67	368.34	0.40
MW-10S	2.53	368.68	0.09
PZ-1	11.17	383.61	8.94
PZ-2	9.71	374.52	7.17
PZ-3	5.59	373.08	3.36
PZ-4	7.33	378.30	4.69
SG-1	2.39	378.85	NA
SG-2		373.84	NA
SG-3	2.06	369.67	NA
TR-3D	1.01	380.42	0.39
TR-3M	1.69	379.95	0.87
TR-3S	1.66	379.50	1.35

Groundwater Level Measurements
Trimmer Road landfill
August 2, 2000

Well ID	Depth to Groundwater (feet)	Groundwater Elevation (feet amsl)	Depth Below Ground Surface (feet)
MW-01D	5.28	382.20	2.70
MW-01S	4.58	382.68	2.14
MW-02D	15.50	374.25	12.99
MW-02S	7.02	382.04	5.52
MW-03D	3.62	381.75	0.96
MW-03S	7.18	377.91	4.70
MW-04D	6.98	366.26	5.42
MW-04S	2.04	371.79	-0.12
MW-05D	7.43	364.33	5.12
MW-05S	4.36	367.05	2.53
MW-06D	5.17	368.65	2.70
MW-06S	4.19	368.73	2.55
MW-07D	12.71	376.59	10.85
MW-07S	8.41	369.33	6.21
MW-08D	4.18	363.98	1.43
MW-08S	2.96	364.70	0.60
MW-09D	6.47	365.11	4.58
MW-09S	5.52	366.73	3.22
MW-10D	3.61	367.40	1.34
MW-10S	3.46	367.75	1.02
PZ-1	11.86	382.92	9.63
PZ-2	10.07	374.16	7.53
PZ-3	5.95	372.72	3.72
PZ-4	7.87	377.76	5.23
SG-1	2.52	378.72	NA
SG-2	3.24	370.60	NA
SG-3	2.18	369.55	NA
TR-3D	0.58	380.85	-0.04
TR-3M	3.72	377.92	2.90
TR-3S	4.51	376.65	4.20

Table 3-1
Trimmer Road Landfill Site
Pre-Design Investigation
Groundwater Elevation Data

Well ID	December 16, 2004			March 10, 2005		
	Depth to Groundwater* (feet)	Groundwater Elevation (feet amsl)	Depth Below Ground Surface (feet)	Depth to Groundwater* (feet)	Groundwater Elevation (feet amsl)	Depth Below Ground Surface (feet)
MW-01D	3.72	383.76	1.14	3.65	383.83	1.07
MW-01S	2.56	384.70	0.12	2.50	384.76	0.06
MW-02D	10.81	378.94	8.30	10.78	378.97	8.27
MW-02S	5.31	383.75	3.81	5.31	383.75	3.81
MW-03D	1.23	384.14	-1.43	1.22	384.15	-1.44
MW-03S	4.56	380.53	2.08	4.51	380.58	2.03
MW-04D	4.95	368.29	3.39	4.76	368.48	3.20
MW-04S	1.77	372.06	-0.39	1.63	372.20	-0.53
MW-05D	5.34	366.42	3.03	4.99	366.77	2.68
MW-05S	3.58	367.83	1.75	3.58	367.83	1.75
MW-06D	3.22	370.60	0.75	3.56	370.26	1.09
MW-06S	2.93	369.99	1.29	2.81	370.11	1.17
MW-07D	12.51	376.79	10.65	11.86	377.44	10.00
MW-07S	6.61	371.13	4.41	6.52	371.22	4.32
MW-08D	3.35	364.81	0.60	3.34	364.82	0.59
MW-08S	2.50	365.16	0.14	2.51	365.15	0.15
MW-09D	4.85	366.73	2.96	4.76	366.82	2.87
MW-09S	3.56	368.69	1.26	3.49	368.76	1.19
MW-10D	2.11	368.90	-0.16	2.02	368.99	-0.25
MW-10S	2.37	368.84	-0.07	2.25	368.96	-0.19
MW-11	NI	NI	NI	3.67	375.87	3.67
MW-12	NI	NI	NI	3.71	372.74	3.71
MW-13	NI	NI	NI	2.42	363.71	2.42
MW-14	NI	NI	NI	4.03	365.53	4.03
PZ-1	11.67	383.11	9.44	10.96	383.82	8.73
PZ-2	9.67	374.56	7.13	9.65	374.58	7.11
PZ-3	6.11	372.56	3.88	5.69	372.98	3.46
PZ-4	7.11	378.52	4.47	6.79	378.84	4.15

* - Measured relative to top of well casing.
feet amsl - Feet above mean sea level (NAVD 88).
NI - Not installed.

APPENDIX F

ANALYTICAL DATA

Appendix F

Analytical Data

List of Tables

TABLE 1a.
TRIMMER ROAD LANDFILL SITE
REMEDIAL INVESTIGATION AND FEASIBILITY STUDY
LEACHATE SAMPLE RESULTS - JUNE 2000
VOLATILE ORGANIC COMPOUNDS

Sample Identification	L-1	L-2	L-3	L-4	L-5	L-6	L-7	Contract Required Detection Limit	NYSDEC Class GA Groundwater Standard or Guidance Value
Date of Collection	06/08/00	06/08/00	06/08/00	06/08/00	06/08/00	06/08/00	06/08/00		
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
Units	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)
Chloromethane	U	U	U	U	U	U	U	10	5 ST
Bromomethane	U	U	U	U	U	U	U	10	5 ST
Vinyl Chloride	U	U	U	U	U	U	U	10	2 ST
Chloroethane	U	U	U	U	U	U	U	10	5 ST
Methylene Chloride	U	U	U	U	U	U	U	10	5 ST
Acetone	6 J	U	10	11	U	U	10	10	50GV
Carbon Disulfide	U	U	U	U	U	U	U	10	----
1,1-Dichloroethene	U	U	U	U	U	U	U	10	5 ST
1,1-Dichloroethane	U	U	U	U	U	1 J	U	10	5 ST
1,2-Dichloroethene (total)	U	U	U	U	U	U	U	10	5 ST *
Chloroform	U	U	U	U	U	U	U	10	7 ST
1,2-Dichloroethane	U	U	U	U	U	U	U	10	0.6 ST
2-Butanone	U	U	U	U	U	U	U	10	50GV
1,1,1-Trichloroethane	U	U	U	U	U	U	U	10	5 ST
Carbon Tetrachloride	U	U	U	U	U	U	U	10	5 ST
Bromodichloromethane	U	U	U	U	U	U	U	10	50GV
1,2-Dichloropropane	U	U	U	U	U	U	U	10	1 ST
cis-1,3-Dichloropropene	U	U	U	U	U	U	U	10	0.4 ST **
Trichloroethene	U	U	U	U	U	U	U	10	5 ST
Dibromochloromethane	U	U	U	U	U	U	U	10	50GV
1,1,2-Trichloroethane	U	U	U	U	U	U	U	10	1 ST
Benzene	3 J	U	U	5 J	2 J	13	4 J	10	1 ST
Trans-1,3-Dichloropropene	U	U	U	U	U	U	U	10	0.4 ST **
Bromoform	U	U	U	U	U	U	U	10	50GV
4-Methyl-2-Pentanone	U	U	U	U	U	U	U	10	----
2-Hexanone	U	U	U	U	U	U	U	10	50GV
Tetrachloroethene	U	U	U	U	U	U	U	10	5 ST
1,1,2,2-Tetrachloroethane	U	U	U	U	U	U	U	10	5 ST
Toluene	U	U	5 J	U	U	U	U	10	5 ST
Chlorobenzene	70	U	U	21	9 J	24	18	10	5 ST
Ethylbenzene	U	U	U	U	U	6 J	6 J	10	5 ST
Styrene	U	U	U	U	U	U	U	10	5 ST
Total Xylenes	U	U	2 J	75	4 J	79	66	10	5 ST
Total VOCs	79	0	17	112	15	123	104		----
Total VOC TICs	0	0	0	0	0	0	0		----

QUALIFIERS:
U: Compound analyzed for but not detected
U*: Result qualified as non-detect based upon validation criteria
J: Compound found at a concentration below the CRDL, value estimated

NOTES:
*: Value pertains to cis-1,2 Dichloroethene and trans-1,2 Dichloroethene individually
**: Value pertains to the sum of the isomers
GV: Guidance Value
ST: Standard
----: Not established

Indicates value exceeds NYSDEC Class GA groundwater standard or guidance value.

TABLE 1b.
TRIMMER ROAD LANDFILL SITE
REMEDIAL INVESTIGATION AND FEASIBILITY STUDY
LEACHATE SAMPLE RESULTS - JUNE 2000
SEMIVOLATILE ORGANIC COMPOUNDS

Sample Identification	L-1	L-2	L-3	L-4	L-5	L-6	L-7	Contract Required Detection Limit	NYSDEC Class GA Groundwater Standard or Guidance Value
Date of Collection	06/08/00	06/08/00	06/08/00	06/08/00	06/08/00	06/08/00	06/08/00		
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
Units	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)
Phenol	U	U	U	U	U	U	U	10	1 ST *
bis (2-Chloroethyl) ether	U	U	U	U	U	U	U	10	1 ST
2-Chlorophenol	U	U	U	U	U	U	U	10	1 ST *
1,3-Dichlorobenzene	U	U	U	U	U	U	U	10	3 ST
1,4-Dichlorobenzene	4 J	U	2 J	15	7 J	9 J	10	10	3 ST
1,2-Dichlorobenzene	U	U	U	2 J	2 J	U	U	10	3 ST
2-Methylphenol	U	U	2 J	U	U	U	U	10	----
2,2'-Oxybis (1-Chloropropane)	U	U	U	U	U	U	U	10	----
4-Methylphenol	U	U	25	3 J	U	U	U	10	----
N-Nitroso-di-n-propylamine	U	U	U	U	U	U	U	10	----
Hexachloroethane	U	U	U	U	U	U	U	10	5 ST
Nitrobenzene	U	U	U	U	U	U	U	10	0.4 ST
Isophorone	U	U	U	U	U	U	U	10	50 GV
2-Nitrophenol	U	U	U	U	U	U	U	10	----
2,4-Dimethylphenol	U	U	U	U	1 J	U	2 J	10	1 ST *
2,4-Dichlorophenol	U	U	U	U	U	U	U	10	1 ST *
1,2,4-Trichlorobenzene	U	U	U	U	U	U	U	10	5 ST
Naphthalene	4 J	U	U	15	2 J	10	3 J	10	10 GV
4-Chloroaniline	U	U	U	U	U	U	U	10	5 ST
bis (2-Chloroethoxy) methane	U	U	U	U	U	U	U	10	5 ST
Hexachlorobutadiene	U	U	U	U	U	U	U	10	0.5 ST
4-Chloro-3-methylphenol	U	U	U	U	U	U	U	10	----
2-Methylnaphthalene	U	U	U	2 J	2 J	2 J	1 J	10	----
Hexachlorocyclopentadiene	U	U	U	U	U	U	U	10	5 ST
2,4,6-Trichlorophenol	U	U	U	U	U	U	U	10	----
2,4,5-Trichlorophenol	U	U	U	U	U	U	U	25	----
2-Chloronaphthalene	U	U	U	U	U	U	U	10	5 ST
2-Nitroaniline	U	U	U	U	U	U	U	25	5 ST
Dimethylphthalate	U	U	U	U	U	U	U	10	50 GV
Acenaphthylene	U	U	U	U	U	U	U	10	----
2,6-Dinitrotoluene	U	U	U	U	U	U	U	10	5 ST
3-Nitroaniline	U	U	U	U	U	U	U	25	5 ST
Acenaphthene	U	U	U	U	U	U	U	10	20 GV
2,4-Dinitrophenol	U	U	U	U	U	U	U	25	1 ST *
4-Nitrophenol	U	U	U	U	U	U	U	25	----
Dibenzofuran	U	U	U	U	U	U	U	10	----
2,4-Dinitrotoluene	U	U	U	U	U	U	U	10	5 ST

TABLE 1b. (CONTINUED)
TRIMMER ROAD LANDFILL SITE
REMEDIAL INVESTIGATION AND FEASIBILITY STUDY
LEACHATE SAMPLE RESULTS - JUNE 2000
SEMIVOLATILE ORGANIC COMPOUNDS

Sample Identification	L-1	L-2	L-3	L-4	L-5	L-6	L-7	Contract Required Detection Limit	NYSDEC Class GA Groundwater Standard or Guidance Value
Date of Collection	06/08/00	06/08/00	06/08/00	06/08/00	06/08/00	06/08/00	06/08/00		
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
Units	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)
Diethylphthalate	U	U	U	U	U	U	U	10	50 GV
4-Chlorophenyl-phenylether	U	U	U	U	U	U	U	10	----
Fluorene	U	U	U	U	U	U	U	10	50 GV
4-Nitroaniline	U	U	U	U	U	U	U	10	5 ST
4,6-Dinitro-2-methylphenol	U	U	U	U	U	U	U	25	----
N-Nitrosodiphenylamine	U	U	U	U	2 J	U	4 J	25	50 GV
4-Bromophenyl-phenylether	U	U	U	U	U	U	U	10	----
Hexachlorobenzene	U	U	U	U	U	U	U	10	0.04 ST
Pentachlorophenol	U	U	U	U	U	U	U	10	1 ST *
Phenanthrene	U	U	U	1 J	U	U	U	25	50 GV
Anthracene	U	U	U	U	U	U	U	10	50 GV
Carbazole	U	U	U	U	U	U	U	10	----
Di-n-butylphthalate	U	U	U	U	U	U	U	10	50 ST
Fluoranthene	U	U	U	U	U	U	U	10	50 GV
Pyrene	U	U	U	U	U	U	U	10	50 GV
Butylbenzylphthalate	U	U	U	U	U	U	U	10	50 GV
3,3'-Dichlorobenzidine	U	U	U	U	U	U	U	10	5 ST
Benzo (a) anthracene	U	U	U	U	U	U	U	10	0.002 GV
Chrysene	U	U	U	U	U	U	U	10	0.002 GV
bis (2-Ethylhexyl) phthalate	U	U	U	U	U	U	U	10	5 ST
Di-n-octylphthalate	U	U	U	U	U	U	U	10	50 GV
Benzo (b) fluoranthene	U	U	U	U	U	U	U	10	0.002 GV
Benzo (k) fluoranthene	U	U	U	U	U	U	U	10	0.002 GV
Benzo (a) pyrene	U	U	U	U	U	U	U	10	ND ST
Indeno (1,2,3-cd) pyrene	U	U	U	U	U	U	U	10	0.002 GV
Dibenzo (a,h) anthracene	U	U	U	U	U	U	U	10	----
Benzo (g,h,i) perylene	U	U	U	U	U	U	U	10	----
Total PAHs	4	0	0	16	2	10	3		----
Total Carcinogen PAHs	0	0	0	0	0	0	0		----
Total SVOCs	8	0	29	38	16	21	20		----
Total SVOC TICs	0	0	0	0	0	0	0		----

QUALIFIERS:
J: Compound found at a concentration below the detection limit
U: Compound analyzed for but not detected

NOTES:
GV: Guidance value
ST: Standard
----: Not established
*: Value pertains to total phenols

Indicates value exceeds NYSDEC Class GA groundwater standard or guidance value

TABLE 1c.
TRIMMER ROAD LANDFILL SITE
REMEDIAL INVESTIGATION AND FEASIBILITY STUDY
LEACHATE SAMPLE RESULTS - JUNE 2000
PESTICIDE/PCBs

Sample Identification	L-1	L-2	L-3	L-4	L-5	L-6	L-7	Contract Required Detection Limit	NYSDEC Class GA Groundwater Standard or Guidance Value
Date of Collection	06/08/00	06/08/00	06/08/00	06/08/00	06/08/00	06/08/00	06/08/00		
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
Units	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)
alpha-BHC	U	U	U	U	U	U	U	0.05	0.01 ST
beta-BHC	U	U	U	U	U	U	U	0.05	0.04 ST
delta-BHC	U	U	U	U	U	U	U	0.05	0.04 ST
gamma-BHC (Lindane)	U	U	U	U	U	U	U	0.05	0.05 ST
Heptachlor	U	U	U	U	U	U	U	0.05	0.04 ST
Aldrin	U	U	U	U	U	U	U	0.05	ND ST
Heptachlor Epoxide	U	U	U	U	U	U	U	0.05	0.03 ST
Endosulfan I	U	U	U	U	U	U	U	0.05	----
Dieldrin	U	U	U	U	U	U	U	0.10	0.004 ST
4,4'-DDE	U	U	U	U	U	U	U	0.10	0.2 ST
Endrin	U	U	U	U	U	U	U	0.10	ND ST
Endosulfan II	U	U	U	U	U	U	U	0.10	----
4,4'-DDD	U	U	U	U	U	U	U	0.10	0.3 ST
Endosulfan Sulfate	U	U	U	U	U	U	U	0.10	----
4,4'-DDT	U	U	U	U	U	U	U	0.10	0.2 ST
Methoxychlor	U	U	U	U	U	U	U	0.50	35 ST
Endrin Ketone	U	U	U	U	U	U	U	0.10	5 ST
Endrin Aldehyde	U	U	U	U	U	U	U	0.10	5 ST
alpha-Chlordane	U	U	U	U	U	U	U	0.05	0.05 ST
gamma-Chlordane	U	U	U	U	U	U	U	0.05	0.05 ST
Toxaphene	U	U	U	U	U	U	U	5.0	0.06 ST
Aroclor-1016	U	U	U	U	U	U	U	1.0	0.09 ST *
Aroclor-1221	U	U	U	U	U	U	U	2.0	0.09 ST *
Aroclor-1232	U	U	U	U	U	U	U	1.0	0.09 ST *
Aroclor-1242	U	U	U	U	U	U	U	1.0	0.09 ST *
Aroclor-1248	U	U	U	U	U	U	U	1.0	0.09 ST *
Aroclor-1254	U	U	U	U	U	U	U	1.0	0.09 ST *
Aroclor-1260	U	U	U	U	U	U	U	1.0	0.09 ST *
Total PCBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0		

QUALIFIER:
U: Compound analyzed for but not detected

NOTES:
*: Value applies to the sum of these substances
GV: Guidance Value
ST: Standard
----: not established
[ ] Indicates value exceeds NYSDEC Class GA

TABLE 1d.
TRIMMER ROAD LANDFILL SITE
REMEDIAL INVESTIGATION AND FEASIBILITY STUDY
LEACHATE SAMPLE RESULTS - JUNE 2000
INORGANIC PARAMETERS - UNFILTERED

Sample Identification	L-1	L-2	L-3	L-4	L-5	L-6	L-7	Instrument Detection Limit	NYSDEC Class GA Groundwater Standard or Guidance Value
Date of Collection	06/08/00	06/08/00	06/08/00	06/08/00	06/08/00	06/08/00	06/08/00		
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
Units	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)
Aluminum	4,890	10,900	41,000	6,210	9,620	28,900	1,820	9	----
Antimony	U	U	U	U	U	U	U	4	3 ST
Arsenic	7.5 B	7.9 B	23.6	U	7.0 B	U	10.9	2	25 ST
Barium	657	687	2,660	347	398	770	154 B	2	1,000 ST
Beryllium	U	0.98 B	2.0 B	0.24 B	0.48 B	1.3 B	U	0.2	3 GV
Cadmium	5.8	27.5	25.0	3.1 B	8.3	19.9	4.3 B	0.2	5 ST
Calcium	170,000	291,000	346,000	77,500	122,000	143,000	137,000	234	----
Chromium	5.3 B	27.2	50.5	17.2	15.6	38.4	1.1 B	0.6	50 ST
Cobalt	12.5 B	18.8 B	59.9	16.3 B	17.2 B	37.3 B	6.3 B	0.7	----
Copper	15.6 B	482	204	9.7 B	13.9 B	19.1 B	3.3 B	5	200 ST
Iron	84,500	77,700	280,000	44,200	118,000	363,000	75,800	2	300 ST ^
Lead	24.7	693	217	22.3	66.8	81.2	10.7	2	25 ST
Magnesium	36,900	42,800	43,500	55,800	37,600	59,900	28,100	2	35,000 GV
Manganese	3,190	1,610	4,160	486	750	1,430	516	0.9	300 ST ^
Mercury	0.82	2.6	0.34	U	U	U	U	0.1	0.7 ST
Nickel	36.9 B	133	249	46.6	61.3	111	21.3 B	0.9	100 ST
Potassium	56,100	35,400	43,900	214,000	81,000	133,000	47,600	320	----
Selenium	9.8	15.7	U	17.3	U	U	U	3	10 ST
Silver	9.3 B	10.8	31.5	5.1 B	16.7	32.9	8.5 B	2	50 ST
Sodium	49,400	41,100	31,000	403,000	128,000	195,000	51,900	132	20,000 ST
Thallium	U	U	U	U	U	U	U	2	0.5 GV
Vanadium	10.6 B	25.2 B	83.5	12.1 B	19.0 B	51.0	3.0 B	0.6	----
Zinc	232	2,070	3,940	90.4	344	325	148	2	2,000 GV
Cyanide	U	5.2 B	5.9 B	2.6 B	2.0 B	4.6 B	7.7 B	2	200 ST

QUALIFIERS:
U: Compound analyzed for but not detected
B: Compound concentration is less than the CRDL but greater than the IDL.

NOTES:
^: The combined standard for iron and manganese is 500 ug/l
Indicates value exceeds NYSDEC Class GA groundwater standard or guidance value

TABLE 2a.
TRIMMER ROAD LANDFILL
REMEDIAL INVESTIGATION AND FEASIBILITY STUDY
SUBSURFACE SOIL SAMPLE RESULTS - DECEMBER 1999
VOLATILE ORGANIC COMPOUNDS

Sample Identification	TP-5		
Sample Depth	2.5'	Contract	NYSDEC
Date of Collection	12/21/99	Required	Recommended
Dilution Factor	1.0	Detection	Soil Clean-Up
Percent Moisture	39	Limit	Objective
Units	(ug/kg)	(ug/kg)	(ug/kg)
Chloromethane	U	10	----
Bromomethane	U	10	----
Vinyl Chloride	U	10	200
Chloroethane	U	10	1,900
Methylene Chloride	U	10	100
Acetone	U	10	200
Carbon Disulfide	U	10	2,700
1,1-Dichloroethene	U	10	400
1,1-Dichloroethane	U	10	200
1,2-Dichloroethene (total)	U	10	300
Chloroform	U	10	300
1,2-Dichloroethane	U	10	100
2-Butanone	U	10	300
1,1,1-Trichloroethane	U	10	800
Carbon Tetrachloride	U	10	600
Bromodichloromethane	U	10	----
1,2-Dichloropropane	U	10	----
cis-1,3-Dichloropropene	U	10	----
Trichloroethene	U	10	700
Dibromochloromethane	U	10	----
1,1,2-Trichloroethane	U	10	----
Benzene	U	10	60
Trans-1,3-Dichloropropene	U	10	----
Bromoform	U	10	----
4-Methyl-2-Pentanone	U	10	1,000
2-Hexanone	U	10	----
Tetrachloroethene	U	10	1,400
1,1,2,2-Tetrachloroethane	U	10	600
Toluene	U	10	1,500
Chlorobenzene	U	10	1,700
Ethylbenzene	U	10	5,500
Styrene	U	10	----
Total Xylenes	U	10	1,200
Total VOCs	0		10,000
Total VOC TICs	0		

QUALIFIERS:
U: Compound analyzed for but not detected
J: Compound found at aconcentration below the CRDL, value estimated
D: Result taken from reanalysis at a 1:250 dilution
U*: Result qualified as non-detect based on validation criteria
[ ] Indicates value exceeds the NYSDEC recommended soil clean up objective.

TABLE 2b.
TRIMMER ROAD LANDFILL
REMEDIAL INVESTIGATION AND FEASIBILITY STUDY
SUBSURFACE SOIL SAMPLE RESULTS - DECEMBER 1999
SEMIVOLATILE ORGANIC COMPOUNDS

Sample Identification	**TP-5**		
Sample Depth	2.5'	Contract	NYSDEC
Date of Collection	12/21/99	Required	Recommended
Dilution Factor	1.0	Detection	Soil Clean-Up
Percent Moisture	39	Limit	Objective
Units	(ug/kg)	(ug/kg)	(ug/kg)
Phenol	U	550	30 OR MDL
bis(2-Chloroethyl)ether	U	550	----
2-Chlorophenol	U	550	800
1,3-Dichlorobenzene	U	550	1,600
1,4-Dichlorobenzene	U	550	8,500
1,2-Dichlorobenzene	U	550	7,900
2-Methylphenol	U	550	100 OR MDL
2,2-Oxybis (1-Chloropropane)	U	550	----
4-Methylphenol	U	550	900
N-Nitroso-di-n-propylamine	U	550	----
Hexachloroethane	U	550	----
Nitrobenzene	U	550	200 OR MDL
Isophorone	U	550	4,400
2-Nitrophenol	U	550	330 OR MDL
2,4-Dimethylphenol	U	550	----
2,4-Dichlorophenol	U	550	400
1,2,4-Trichlorobenzene	U	550	3,400
Naphthalene	U	550	13,000
4-Chloroaniline	U	550	220 OR MDL
bis(2-Chloroethoxy)methane	U	550	----
Hexachlorobutadiene	U	550	----
4-Chloro-3-methylphenol	U	550	240 OR MDL
2-Methylnaphthalene	U	550	36,400
Hexachlorocyclopentadiene	U	550	----
2,4,6-Trichlorophenol	U	1400	----
2,4,5-Trichlorophenol	U	550	100
2-Chloronaphthalene	U	1400	----
2-Nitroaniline	U	550	430 OR MDL
Dimethylphthalate	U	550	2,000
Acenaphthylene	U	550	41,000
2,6-Dinitrotoluene	U	550	1
3-Nitroaniline	U	1400	500 OR MDL
Acenaphthene	U	550	50,000
2,4-Dinitrophenol	U	1400	200 OR MDL
4-Nitrophenol	U	1400	100 OR MDL
Dibenzofuran	U	550	6,200

TABLE 2b. (CONTINUED)
TRIMMER ROAD LANDFILL
REMEDIAL INVESTIGATION AND FEASIBILITY STUDY
SUBSURFACE SOIL SAMPLE RESULTS - DECEMBER 1999
SEMIVOLATILE ORGANIC COMPOUNDS

Sample Identification	TP-5		
Sample Depth	2.5'	Contract	NYSDEC
Date of Collection	12/21/99	Required	Recommended
Dilution Factor	1.0	Detection	Soil Clean-Up
Percent Moisture	39	Limit	Objective
Units	(ug/kg)	(ug/kg)	(ug/kg)
2,4-Dinitrotoluene	U	550	----
Diethylphthalate	U	550	7,100
4-Chlorophenyl-phenylether	U	550	----
Fluorene	U	550	50,000
4-Nitroaniline	U	1400	----
4,6-Dinitro-2-methylphenol	U	1400	----
N-Nitrosodiphenylamine	U	550	----
4-Bromophenyl-phenylether	U	550	----
Hexachlorobenzene	U	550	410
Pentachlorophenol	U	1400	100 OR MDL
Phenanthrene	U	550	50,000
Anthracene	U	550	50,000
Carbazole	U	550	----
Di-n-butylphthalate	U	550	8,100
Fluoranthene	U	550	50,000
Pyrene	U	550	50,000
Butylbenzylphthalate	U	550	50,000
3,3'-Dichlorobenzidine	U	550	----
Benzo (a) anthracene	U	550	224 OR MDL
Chrysene	U	550	400
bis(2-Ethylhexyl)phthalate	U	550	50,000
Di-octylphthalate	U	550	50,000
Benzo(b)fluoranthene	U	550	1,100
Benzo(k)fluoranthene	U	550	1,100
Benzo(a)pyrene	U	550	61 OR MDL
Indeno(1,2,3-cd)pyrene	U	550	3,200
Dibenzo(a,h)anthracene	U	550	14 OR MDL
Benzo(g,h,i)perylene	U	550	50,000
Total PAHs	0		----
Total Carcinogen PAHs	0		10,000
Total SVOCs	0		500,000
Total SVOC TICs	0		

QUALIFIERS:
J: Compound found at a concentration below the detection limit
U: Compound analyzed for but not detecte factor and %S = percent solids.
B: Compound found in the method blank as ---: not established
D: Value is a result of analysis with a dilution factor of 2.0

NOTES: To determine the detection limit for each sample, use the following equation: (CRDL)*(DF)*(100/%S), where CRDL = contract required detection limit, DF = dilution

Indicates value exceeds NYSDEC recommended Soil Clean-up objective

TABLE 3a.
TRIMMER ROAD LANDFILL SITE
REMEDIAL INVESTIGATION AND FEASIBILITY STUDY
GROUNDWATER SAMPLE RESULTS - JANUARY 2000
VOLATILE ORGANIC COMPOUNDS

Sample Identification	MW-1D	MW-1S	MW-2D	MW-2S	MW-3D	MW-3S	MW-4D	MW-4S	MW-5D	MW-5S	Contract Required Detection Limit	NYSDEC Class GA Groundwater Standard or Guidance Value
Date of Collection	01/26/00	01/26/00	01/26/00	01/26/00	01/26/00	01/26/00	01/27/00	01/27/00	01/27/00	01/27/00		
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
Units	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)
Chloromethane	U	U	U	U	U	U	U	U	U	U	10	5 ST
Bromomethane	U	U	U	U	U	U	U	U	U	U	10	5 ST
Vinyl Chloride	U	U	U	U	U	U	U	78	U	110	10	2 ST
Chloroethane	U	U	U	U	U	U	U	5 J	U	15	10	5 ST
Methylene Chloride	U	U	U	U	U	U	U	U	U	U	10	5 ST
Acetone	U	U	U	U	U	U	3 JB	7 JB	3 JB	3 JB	10	50GV
Carbon Disulfide	U	U	U	U	U	U	U	U	U	U	10	----
1,1-Dichloroethene	U	U	U	U	U	U	U	U	U	U	10	5 ST
1,1-Dichloroethane	U	U	U	U	U	U	U	U	U	1 J	10	5 ST
1,2-Dichloroethene (total)	U	U	U	U	U	U	U	210 D	U	54	10	5 ST *
Chloroform	U	U	U	U	U	U	U	U	U	U	10	7 ST
1,2-Dichloroethane	U	U	U	U	U	U	U	U	U	U	10	0.6 ST
2-Butanone	U	2 J	U	U	U	U	U	U	U	U	10	50GV
1,1,1-Trichloroethane	U	U	U	U	U	U	U	U	U	U	10	5 ST
Carbon Tetrachloride	U	U	U	U	U	U	U	U	U	U	10	5 ST
Bromodichloromethane	U	U	U	U	U	U	U	U	U	U	10	50GV
1,2-Dichloropropane	U	U	U	U	U	U	U	U	U	U	10	1 ST
cis-1,3-Dichloropropene	U	U	U	U	U	U	U	U	U	U	10	0.4 ST **
Trichloroethene	U	U	U	U	U	U	U	2 J	U	4 J	10	5 ST
Dibromochloromethane	U	U	U	U	U	U	U	U	U	U	10	50GV
1,1,2-Trichloroethane	U	U	U	U	U	U	U	U	U	U	10	1 ST
Benzene	U	U	U	U	U	U	U	3 J	U	6 J	10	1 ST
Trans-1,3-Dichloropropene	U	U	U	U	U	U	U	U	U	U	10	0.4 ST **
Bromoform	U	U	U	U	U	U	U	U	U	U	10	50GV
4-Methyl-2-Pentanone	U	U	U	U	U	U	U	U	U	U	10	----
2-Hexanone	U	U	U	U	U	U	U	U	U	U	10	50GV
Tetrachloroethene	U	U	U	U	U	U	U	U	U	U	10	5 ST
1,1,2,2-Tetrachloroethane	U	U	U	U	U	U	U	U	U	U	10	5 ST
Toluene	U	U	U	U	U	U	U	U	U	U	10	5 ST
Chlorobenzene	U	U	U	U	U	U	U	13	U	11	10	5 ST
Ethylbenzene	U	U	U	U	U	U	U	U	U	U	10	5 ST
Styrene	U	U	U	U	U	U	U	U	U	U	10	5 ST
Total Xylenes	U	U	U	U	U	U	U	1 J	U	U	10	5 ST
Total VOCs	0	2	0	0	0	0	3	319	3	204		----
Total VOC TICs	0	0	0	0	0	0	0	0	0	0		----

QUALIFIERS:

U: Compound analyzed for but not detected

B: Compound found in the blank as well as the sample

J: Compound found at a concentration below the CRDL, value estimated

D: Value is a result of analysis with a dilution factor of 2.0

U*: Result qualified as non-detect based upon validation criteria

NOTES:

*: Value pertains to cis-1,2 Dichloroethene and trans-1,2 Dichloroethene individually

**: Value pertains to the sum of the isomers

GV: Guidance Value

ST: Standard

----: Not established

[ ] Indicates value exceeds NYSDEC Class GA groundwater standard or guidance value.

Table 3a. (continued)
TRIMMER ROAD LANDFILL SITE
REMEDIAL INVESTIGATION AND FEASIBILITY STUDY
GROUNDWATER SAMPLE RESULTS - JANUARY 2000
VOLATILE ORGANIC COMPOUNDS

Sample Identification	MW-6D	MW-6S	MW-7D	MW-7S	MW-8D	MW-8S	MW-9D	MW-9S	MW-10D	MW-10S	Contract Required Detection Limit	NYSDEC Class GA Groundwater Standard or Guidance Value
Date of Collection	01/27/00	01/27/00	01/27/00	01/27/00	01/27/00	01/27/00	01/27/00	01/27/00	01/26/00	01/26/00		
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
Units	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)
Chloromethane	U	U	U	U	U	U	U	U	U	U	10	5 ST
Bromomethane	U	U	U	U	U	U	U	U	U	U	10	5 ST
Vinyl Chloride	U	U	4 J	U	U	U	U	16	U	U	10	2 ST
Chloroethane	U	1 J	U	U	U	U	U	24	U	U	10	5 ST
Methylene Chloride	U	U	U	U	U	U	U	U	U	U	10	5 ST
Acetone	9 JB	2 JB	14 B	2 JB	5 JB	2 JB	6 JB	5 JB	U	U	10	50GV
Carbon Disulfide	U	U	U	U	U	U	U	U	U	U	10	----
1,1-Dichloroethene	U	U	U	U	U	U	U	2 J	U	U	10	5 ST
1,1-Dichloroethane	U	U	U	U	U	U	U	46	U	U	10	5 ST
1,2-Dichloroethene (total)	U	U	U	U	U	U	U	57	U	U	10	5 ST *
Chloroform	U	U	U	U	U	U	U	U	U	U	10	7 ST
1,2-Dichloroethane	U	U	U	U	U	U	U	U	U	U	10	0.6 ST
2-Butanone	2 J	U	5 J	U	1 J	U	U	U	U	U	10	50GV
1,1,1-Trichloroethane	U	U	U	U	U	U	U	13	U	U	10	5 ST
Carbon Tetrachloride	U	U	U	U	U	U	U	U	U	U	10	5 ST
Bromodichloromethane	U	U	U	U	U	U	U	U	U	U	10	50GV
1,2-Dichloropropane	U	U	U	U	U	U	U	U	U	U	10	1 ST
cis-1,3-Dichloropropene	U	U	U	U	U	U	U	U	U	U	10	0.4 ST **
Trichloroethene	U	U	U	U	U	U	U	21	U	U	10	5 ST
Dibromochloromethane	U	U	U	U	U	U	U	U	U	U	10	50GV
1,1,2-Trichloroethane	U	U	U	U	U	U	U	U	U	U	10	1 ST
Benzene	U	U	U	U	U	U	U	4 J	U	U	10	1 ST
Trans-1,3-Dichloropropene	U	U	U	U	U	U	U	U	U	U	10	0.4 ST **
Bromoform	U	U	U	U	U	U	U	U	U	U	10	50GV
4-Methyl-2-Pentanone	U	U	U	U	U	U	U	U	U	U	10	----
2-Hexanone	1 JB	U	1 JB	U	U	U	U	U	U	U	10	50GV
Tetrachloroethene	U	U	U	U	U	U	U	U	U	U	10	5 ST
1,1,2,2-Tetrachloroethane	U	U	U	U	U	U	U	U	U	U	10	5 ST
Toluene	U	U	2 J	U	U	U	U	U	U	U	10	5 ST
Chlorobenzene	U	U	U	U	U	U	U	16	U	U	10	5 ST
Ethylbenzene	U	U	U	U	U	U	U	U	U	U	10	5 ST
Styrene	U	U	U	U	U	U	U	U	U	U	10	5 ST
Total Xylenes	U	U	U	U	U	U	U	1 J	U	U	10	5 ST
Total VOCs	12	3	26	2	6	2	6	205	0	0		----
Total VOC TICs	0	0	0	0	0	0	0	0	0	0		----

QUALIFIERS:
U: Compound analyzed for but not detected
B: Compound found in the blank as well as the sample
J: Compound found at aconcentration below the CRDL, value estimated
U*: Result qualified as non-detect based upon validation criteria

NOTES:
*: Value pertains to cis-1,2 Dichloroethene and trans-1,2 Dichloroethene individually
**: Value pertains to the sum of the isomers
GV: Guidance Value
ST: Standard
----: Not established
Indicates value exceeds NYSDEC Class GA groundwater standard or guidance value.

TABLE 3b.
TRIMMER ROAD LANDFILL SITE
REMEDIAL INVESTIGATION AND FEASIBILITY STUDY
GROUNDWATER SAMPLE RESULTS - JANUARY 2000
SEMIVOLATILE ORGANIC COMPOUNDS

Sample Identification	MW-1D	MW-1S	MW-2D	MW-2S	MW-3D	MW-3S	MW-4D	MW-4S	MW-5D	MW-5S	Contract Required Detection Limit	NYSDEC Class GA Groundwater Standard or Guidance Value
Date of Collection	01/26/00	01/26/00	01/26/00	01/26/00	01/26/00	01/26/00	01/27/00	01/27/00	01/27/00	01/27/00		
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
Units	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)
Phenol	U	U	U	U	U	U	U	U	1 J	U	10	1 ST *
bis (2-Chloroethyl) ether	U	U	U	U	U	U	U	U	U	U	10	1 ST
2-Chlorophenol	U	U	U	U	U	U	U	U	U	U	10	1 ST *
1,3-Dichlorobenzene	U	U	U	U	U	U	U	U	U	U	10	3 ST
1,4-Dichlorobenzene	U	U	U	U	U	U	U	3 J	U	3 J	10	3 ST
1,2-Dichlorobenzene	U	U	U	U	U	U	U	U	U	U	10	3 ST
2-Methylphenol	U	U	U	U	U	U	U	U	U	U	10	----
2,2'-Oxybis (1-Chloropropane)	U	U	U	U	U	U	U	U	U	U	10	----
4-Methylphenol	U	U	U	U	U	U	U	U	U	U	10	----
N-Nitroso-di-n-propylamine	U	U	U	U	U	U	U	U	U	U	10	----
Hexachloroethane	U	U	U	U	U	U	U	U	U	U	10	5 ST
Nitrobenzene	U	U	U	U	U	U	U	U	U	U	10	0.4 ST
Isophorone	U	U	U	U	U	U	U	U	U	U	10	50 GV
2-Nitrophenol	U	U	U	U	U	U	U	U	U	U	10	----
2,4-Dimethylphenol	U	U	U	U	U	U	U	U	U	U	10	1 ST *
2,4-Dichlorophenol	U	U	U	U	U	U	U	U	U	U	10	1 ST *
1,2,4-Trichlorobenzene	U	U	U	U	U	U	U	U	U	U	10	5 ST
Naphthalene	U	U	U	U	U	U	U	U	U	U	10	10 GV
4-Chloroaniline	U	U	U	U	U	U	U	U	U	U	10	5 ST
bis (2-Chloroethoxy) methane	U	U	U	U	U	U	U	U	U	U	10	5 ST
Hexachlorobutadiene	U	U	U	U	U	U	U	U	U	U	10	0.5 ST
4-Chloro-3-methylphenol	U	3 J	U	U	U	U	U	U	U	U	10	----
2-Methylnaphthalene	U	U	U	U	U	U	U	U	U	U	10	----
Hexachlorocyclopentadiene	U	U	U	U	U	U	U	U	U	U	10	5 ST
2,4,6-Trichlorophenol	U	U	U	U	U	U	U	U	U	U	10	----
2,4,5-Trichlorophenol	U	U	U	U	U	U	U	U	U	U	25	----
2-Chloronaphthalene	U	U	U	U	U	U	U	U	U	U	10	5 ST
2-Nitroaniline	U	U	U	U	U	U	U	U	U	U	25	5 ST
Dimethylphthalate	U	U	U	U	U	U	U	U	U	U	10	50 GV
Acenaphthylene	U	U	U	U	U	U	U	U	U	U	10	----
2,6-Dinitrotoluene	U	U	U	U	U	U	U	U	U	U	10	5 ST
3-Nitroaniline	U	U	U	U	U	U	U	U	U	U	25	5 ST
Acenaphthene	U	U	U	U	U	U	U	U	U	U	10	20 GV
2,4-Dinitrophenol	U	U	U	U	U	U	U	U	U	U	25	1 ST *
4-Nitrophenol	U	U	U	U	U	U	U	U	U	U	25	----
Dibenzofuran	U	U	U	U	U	U	U	U	U	U	10	----
2,4-Dinitrotoluene	U	U	U	U	U	U	U	U	U	U	10	5 ST

TABLE 3b. (CONTINUED)
TRIMMER ROAD LANDFILL SITE
REMEDIAL INVESTIGATION AND FEASIBILITY STUDY
GROUNDWATER SAMPLE RESULTS - JANUARY 2000
SEMIVOLATILE ORGANIC COMPOUNDS

Sample Identification	MW-1D	MW-1S	MW-2D	MW-2S	MW-3D	MW-3S	MW-4D	MW-4S	MW-5D	MW-5S	Contract Required Detection Limit	NYSDEC Class GA Groundwater Standard or Guidance Value
Date of Collection	01/26/00	01/26/00	01/26/00	01/26/00	01/26/00	01/26/00	01/27/00	01/27/00	01/27/00	01/27/00		
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
Units	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)
Diethylphthalate	U	U	U	U	U	U	U	U	U	1 J	10	50 GV
4-Chlorophenyl-phenylether	U	U	U	U	U	U	U	U	U	U	10	----
Fluorene	U	U	U	U	U	U	U	U	U	U	10	50 GV
4-Nitroaniline	U	U	U	U	U	U	U	U	U	U	10	5 ST
4,6-Dinitro-2-methylphenol	U	U	U	U	U	U	U	U	U	U	25	----
N-Nitrosodiphenylamine	U	U	U	U	U	U	U	U	U	U	25	50 GV
4-Bromophenyl-phenylether	U	U	U	U	U	U	U	U	U	U	10	----
Hexachlorobenzene	U	U	U	U	U	U	U	U	U	U	10	0.04 ST
Pentachlorophenol	U	U	U	U	U	U	U	U	U	U	10	1 ST *
Phenanthrene	U	U	U	U	U	U	U	U	U	U	25	50 GV
Anthracene	U	U	U	U	U	U	U	U	U	U	10	50 GV
Carbazole	U	U	U	U	U	U	U	U	U	U	10	----
Di-n-butylphthalate	U	U	U	U	U	U	U	U	U	U	10	50 ST
Fluoranthene	U	U	U	U	U	U	U	U	U	U	10	50 GV
Pyrene	U	U	U	U	U	U	U	U	U	U	10	50 GV
Butylbenzylphthalate	U	U	U	U	U	U	U	U	U	U	10	50 GV
3,3'-Dichlorobenzidine	U	U	U	U	U	U	U	U	U	U	10	5 ST
Benzo (a) anthracene	U	U	U	U	U	U	U	U	U	U	10	0.002 GV
Chrysene	U	U	U	U	U	U	U	U	U	U	10	0.002 GV
bis (2-Ethylhexyl) phthalate	15	4 J	13	2 J	13	2 J	6 J	9 J	22	18	10	5 ST
Di-n-octylphthalate	U	U	U	U	U	U	U	U	U	U	10	50 GV
Benzo (b) fluoranthene	U	U	U	U	U	U	U	U	U	U	10	0.002 GV
Benzo (k) fluoranthene	U	U	U	U	U	U	U	U	U	U	10	0.002 GV
Benzo (a) pyrene	U	U	U	U	U	U	U	U	U	U	10	ND ST
Indeno (1,2,3-cd) pyrene	U	U	U	U	U	U	U	U	U	U	10	0.002 GV
Dibenzo (a,h) anthracene	U	U	U	U	U	U	U	U	U	U	10	----
Benzo (g,h,i) perylene	U	U	U	U	U	U	U	U	U	U	10	----
Total PAHs	0	0	0	0	0	0	0	0	0	0		----
Total Carcinogen PAHs	0	0	0	0	0	0	0	0	0	0		----
Total SVOCs	15	7	13	2	13	2	6	12	23	22		----
Total SVOC TICs	0	0	0	0	0	0	0	0	0	0		----

QUALIFIERS:
J: Compound found at a concentration below the detection limit
U: Compound analyzed for but not detected
B: Compound found in the method blank as well as the sample

NOTES:
GV: Guidance value
ST: Standard
----: Not established
*: Value pertains to total phenols
[ ] Indicates value exceeds NYSDEC Class GA groundwater standard or guidance value.

TABLE 3b. (CONTINUED)
TRIMMER ROAD LANDFILL SITE
REMEDIAL INVESTIGATION AND FEASIBILITY STUDY
GROUNDWATER SAMPLE RESULTS - JANUARY 2000
SEMIVOLATILE ORGANIC COMPOUNDS

Sample Identification	MW-6D	MW-6S	MW-7D	MW-7S	MW-8D	MW-8S	MW-9D	MW-9S	MW-10D	MW-10S	Contract Required Detection Limit	NYSDEC Class GA Groundwater Standard or Guidance Value
Date of Collection	01/27/00	01/27/00	01/27/00	01/27/00	01/27/00	01/27/00	01/27/00	01/27/00	01/26/00	01/26/00		
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
Units	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)
Phenol	1 J	U	6 J	U	U	U	U	U	U	U	10	1 ST *
bis (2-Chloroethyl) ether	U	U	U	U	U	U	U	U	U	U	10	1 ST
2-Chlorophenol	U	U	U	U	U	U	U	U	U	U	10	1 ST *
1,3-Dichlorobenzene	U	U	U	U	U	U	U	U	U	U	10	3 ST
1,4-Dichlorobenzene	U	U	U	U	U	U	U	2 J	U	U	10	3 ST
1,2-Dichlorobenzene	U	U	U	U	U	U	U	U	U	U	10	3 ST
2-Methylphenol	U	U	U	U	U	U	U	U	U	U	10	----
2,2'-Oxybis (1-Chloropropane)	U	U	U	U	U	U	U	U	U	U	10	----
4-Methylphenol	U	U	5 J	U	U	U	U	U	U	U	10	----
N-Nitroso-di-n-propylamine	U	U	U	U	U	U	U	U	U	U	10	----
Hexachloroethane	U	U	U	U	U	U	U	U	U	U	10	5 ST
Nitrobenzene	U	U	U	U	U	U	U	U	U	U	10	0.4 ST
Isophorone	U	U	U	U	U	U	U	U	U	U	10	50 GV
2-Nitrophenol	U	U	U	U	U	U	U	U	U	U	10	----
2,4-Dimethylphenol	U	U	U	U	U	U	U	U	U	U	10	1 ST *
2,4-Dichlorophenol	U	U	U	U	U	U	U	U	U	U	10	1 ST *
1,2,4-Trichlorobenzene	U	U	U	U	U	U	U	U	U	U	10	5 ST
Naphthalene	U	U	U	U	U	U	U	U	U	U	10	10 GV
4-Chloroaniline	U	U	U	U	U	U	U	U	U	U	10	5 ST
bis (2-Chloroethoxy) methane	U	U	U	U	U	U	U	U	U	U	10	5 ST
Hexachlorobutadiene	U	U	U	U	U	U	U	U	U	U	10	0.5 ST
4-Chloro-3-methylphenol	U	U	U	U	U	U	U	U	U	U	10	----
2-Methylnaphthalene	U	U	U	U	U	U	U	U	U	U	10	----
Hexachlorocyclopentadiene	U	U	U	U	U	U	U	U	U	U	10	5 ST
2,4,6-Trichlorophenol	U	U	U	U	U	U	U	U	U	U	10	----
2,4,5-Trichlorophenol	U	U	U	U	U	U	U	U	U	U	25	----
2-Chloronaphthalene	U	U	U	U	U	U	U	U	U	U	10	5 ST
2-Nitroaniline	U	U	U	U	U	U	U	U	U	U	25	5 ST
Dimethylphthalate	U	U	U	U	U	U	U	U	U	U	10	50 GV
Acenaphthylene	U	U	U	U	U	U	U	U	U	U	10	----
2,6-Dinitrotoluene	U	U	U	U	U	U	U	U	U	U	10	5 ST
3-Nitroaniline	U	U	U	U	U	U	U	U	U	U	25	5 ST
Acenaphthene	U	U	U	U	U	U	U	U	U	U	10	20 GV
2,4-Dinitrophenol	U	U	U	U	U	U	U	U	U	U	25	1 ST *
4-Nitrophenol	U	U	U	U	U	U	U	U	U	U	25	----
Dibenzofuran	U	U	U	U	U	U	U	U	U	U	10	----
2,4-Dinitrotoluene	U	U	U	U	U	U	U	U	U	U	10	5 ST

TABLE 3b. (CONTINUED)
TRIMMER ROAD LANDFILL SITE
REMEDIAL INVESTIGATION AND FEASIBILITY STUDY
GROUNDWATER SAMPLE RESULTS - JANUARY 2000
SEMIVOLATILE ORGANIC COMPOUNDS

Sample Identification	MW-6D	MW-6S	MW-7D	MW-7S	MW-8D	MW-8S	MW-9D	MW-9S	MW-10D	MW-10S	Contract Required Detection Limit	NYSDEC Class GA Groundwater Standard or Guidance Value
Date of Collection	01/27/00	01/27/00	01/27/00	01/27/00	01/27/00	01/27/00	01/27/00	01/27/00	01/26/00	01/26/00		
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
Units	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)
Diethylphthalate	U	U	U	U	U	U	U	U	U	U	10	50 GV
4-Chlorophenyl-phenylether	U	U	U	U	U	U	U	U	U	U	10	----
Fluorene	U	U	U	U	U	U	U	U	U	U	10	50 GV
4-Nitroaniline	U	U	U	U	U	U	U	U	U	U	25	5 ST
4,6-Dinitro-2-methylphenol	U	U	U	U	U	U	U	U	U	U	25	----
N-Nitrosodiphenylamine	U	U	U	U	U	U	U	U	U	U	10	50 GV
4-Bromophenyl-phenylether	U	U	U	U	U	U	U	U	U	U	10	----
Hexachlorobenzene	U	U	U	U	U	U	U	U	U	U	10	0.04 ST
Pentachlorophenol	U	U	U	U	U	U	U	U	U	U	25	1 ST *
Phenanthrene	U	U	U	U	U	U	U	U	U	U	10	50 GV
Anthracene	U	U	U	U	U	U	U	U	U	U	10	50 GV
Carbazole	U	U	U	U	U	U	U	U	U	U	10	----
Di-n-butylphthalate	U	U	U	U	U	U	U	U	U	U	10	50 ST
Fluoranthene	U	U	U	U	U	U	U	U	U	U	10	50 GV
Pyrene	U	U	U	U	U	U	U	U	U	U	10	50 GV
Butylbenzylphthalate	U	U	U	U	U	U	U	U	U	U	10	50 GV
3,3'-Dichlorobenzidine	U	U	U	U	U	U	U	U	U	U	10	5 ST
Benzo (a) anthracene	U	U	U	U	U	U	U	U	U	U	10	0.002 GV
Chrysene	U	U	U	U	U	U	U	U	U	U	10	0.002 GV
bis (2-Ethylhexyl) phthalate	5 J	3 J	20	16	2 J	2 J	22	8 J	4 J	5 J	10	5 ST
Di-n-octylphthalate	U	U	U	U	U	U	U	U	U	U	10	50 GV
Benzo (b) fluoranthene	U	U	U	U	U	U	U	U	U	U	10	0.002 GV
Benzo (k) fluoranthene	U	U	U	U	U	U	U	U	U	U	10	0.002 GV
Benzo (a) pyrene	U	U	U	U	U	U	U	U	U	U	10	ND ST
Indeno (1,2,3-cd) pyrene	U	U	U	U	U	U	U	U	U	U	10	0.002 GV
Dibenzo (a,h) anthracene	U	U	U	U	U	U	U	U	U	U	10	----
Benzo (g,h,i) perylene	U	U	U	U	U	U	U	U	U	U	10	----
Total PAHs	0	0	0	0	0	0	0	0	0	0		----
Total Carcinogen PAHs	0	0	0	0	0	0	0	0	0	0		----
Total SVOCs	6	3	31	16	2	2	22	10	4	5		----
Total SVOC TICs	0	0	0	0	0	0	0	0	0	0		----

QUALIFIERS:
J: Compound found at a concentration below the detection limit
U: Compound analyzed for but not detected
B: Compound found in the method blank as well as the sample

NOTES:
GV: Guidance value
ST: Standard
----: Not established
*: Value pertains to total phenols
Indicates value exceeds NYSDEC Class GA groundwater standard or guidance value.

TABLE 3c.
TRIMMER ROAD LANDFILL SITE
REMEDIAL INVESTIGATION AND FEASIBILITY STUDY
GROUNDWATER SAMPLE RESULTS - JANUARY 2000
PESTICIDE/PCBs

Sample Identification	MW-1D	MW-1S	MW-2D	MW-2S	MW-3D	MW-3S	MW-4D	MW-4S	MW-5D	MW-5S	Contract Required Detection Limit	NYSDEC Class GA Groundwater Standard or Guidance Value
Date of Collection	01/26/00	01/26/00	01/26/00	01/26/00	01/26/00	01/26/00	01/27/00	01/27/00	01/27/00	01/27/00		
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
Units	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)
alpha-BHC	U	U	U	U	U	U	U	U	U	U	0.05	0.01 ST
beta-BHC	U	U	U	U	U	U	U	U	U	U	0.05	0.04 ST
delta-BHC	U	U	U	U	U	U	U	U	U	U	0.05	0.04 ST
gamma-BHC (Lindane)	U	U	U	U	U	U	U	U	U	U	0.05	0.05 ST
Heptachlor	U	U	U	U	U	U	U	U	U	U	0.05	0.04 ST
Aldrin	U	U	U	U	U	U	U	U	U	U	0.05	ND ST
Heptachlor Epoxide	U	U	U	U	U	U	U	U	U	U	0.05	0.03 ST
Endosulfan I	U	U	U	U	U	U	U	U	U	U	0.05	----
Dieldrin	U	U	U	U	U	U	U	U	U	U	0.10	0.004 ST
4,4'-DDE	U	U	U	U	U	U	U	U	U	U	0.10	0.2 ST
Endrin	U	U	U	U	U	U	U	U	U	U	0.10	ND ST
Endosulfan II	U	U	U	U	U	U	U	U	U	U	0.10	----
4,4'-DDD	U	U	U	U	U	U	U	U	U	U	0.10	0.3 ST
Endosulfan Sulfate	U	U	U	U	U	U	U	U	U	U	0.10	----
4,4'-DDT	U	U	U	U	U	U	U	U	U	U	0.10	0.2 ST
Methoxychlor	U	U	U	U	U	U	U	U	U	U	0.50	35 ST
Endrin Ketone	U	U	U	U	U	U	U	U	U	U	0.10	5 ST
Endrin Aldehyde	U	U	U	U	U	U	U	U	U	U	0.10	5 ST
alpha-Chlordane	U	U	U	U	U	U	U	U	U	U	0.05	0.05 ST
gamma-Chlordane	U	U	U	U	U	U	U	U	U	U	0.05	0.05 ST
Toxaphene	U	U	U	U	U	U	U	U	U	U	5.0	0.06 ST
Aroclor-1016	U	U	U	U	U	U	U	U	U	U	1.0	0.09 ST *
Aroclor-1221	U	U	U	U	U	U	U	U	U	U	2.0	0.09 ST *
Aroclor-1232	U	U	U	U	U	U	U	U	U	U	1.0	0.09 ST *
Aroclor-1242	U	U	U	U	U	U	U	U	U	U	1.0	0.09 ST *
Aroclor-1248	U	U	U	U	U	U	U	U	U	U	1.0	0.09 ST *
Aroclor-1254	U	U	U	U	U	U	U	U	U	U	1.0	0.09 ST *
Aroclor-1260	U	U	U	U	U	U	U	U	U	U	1.0	0.09 ST *
Total PCBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		

QUALIFIER:
U: Compound analyzed for but not detected

NOTES:
*: Value applies to the sum of these substances
GV: Guidance Value
ST: Standard
----: not established
[ ] Indicates value exceeds NYSDEC Class GA groundwater standard or guidance value

TABLE 3c. (CONTINUED)
TRIMMER ROAD LANDFILL SITE
REMEDIAL INVESTIGATION AND FEASIBILITY STUDY
GROUNDWATER SAMPLE RESULTS - JANUARY 2000
PESTICIDE/PCBs

Sample Identification	MW-6D	MW-6S	MW-7D	MW-7S	MW-8D	MW-8S	MW-9D	MW-9S	MW-10D	MW-10S	Contract Required Detection Limit	NYSDEC Class GA Groundwater Standard or Guidance Value
Date of Collection	01/27/00	01/27/00	01/27/00	01/27/00	01/27/00	01/27/00	01/27/00	01/27/00	01/26/00	01/26/00		
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
Units	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)
alpha-BHC	U	U	U	U	U	U	U	U	U	U	0.05	0.01 ST
beta-BHC	U	U	U	U	U	U	U	U	U	U	0.05	0.04 ST
delta-BHC	U	U	U	U	U	U	U	U	U	U	0.05	0.04 ST
gamma-BHC (Lindane)	U	U	U	U	U	U	U	U	U	U	0.05	0.05 ST
Heptachlor	U	U	U	U	U	U	U	U	U	U	0.05	0.04 ST
Aldrin	U	U	U	U	U	U	U	U	U	U	0.05	ND ST
Heptachlor Epoxide	U	U	U	U	U	U	U	U	U	U	0.05	0.03 ST
Endosulfan I	U	U	U	U	U	U	U	U	U	U	0.05	----
Dieldrin	U	U	U	U	U	U	U	U	U	U	0.10	0.004 ST
4,4'-DDE	U	U	U	U	U	U	U	U	U	U	0.10	0.2 ST
Endrin	U	U	U	U	U	U	U	U	U	U	0.10	ND ST
Endosulfan II	U	U	U	U	U	U	U	U	U	U	0.10	----
4,4'-DDD	U	U	U	U	U	U	U	U	U	U	0.10	0.3 ST
Endosulfan Sulfate	U	U	U	U	U	U	U	U	U	U	0.10	----
4,4'-DDT	U	U	U	U	U	U	U	U	U	U	0.10	0.2 ST
Methoxychlor	U	U	U	U	U	U	U	U	U	U	0.50	35 ST
Endrin Ketone	U	U	U	U	U	U	U	U	U	U	0.10	5 ST
Endrin Aldehyde	U	U	U	U	U	U	U	U	U	U	0.10	5 ST
alpha-Chlordane	U	U	U	U	U	U	U	U	U	U	0.05	0.05 ST
gamma-Chlordane	U	U	U	U	U	U	U	U	U	U	0.05	0.05 ST
Toxaphene	U	U	U	U	U	U	U	U	U	U	5.0	0.06 ST
Aroclor-1016	U	U	U	U	U	U	U	U	U	U	1.0	0.09 ST *
Aroclor-1221	U	U	U	U	U	U	U	U	U	U	2.0	0.09 ST *
Aroclor-1232	U	U	U	U	U	U	U	U	U	U	1.0	0.09 ST *
Aroclor-1242	U	U	U	U	U	U	U	U	U	U	1.0	0.09 ST *
Aroclor-1248	U	U	U	U	U	U	U	U	U	U	1.0	0.09 ST *
Aroclor-1254	U	U	U	U	U	U	U	U	U	U	1.0	0.09 ST *
Aroclor-1260	U	U	U	U	U	U	U	U	U	U	1.0	0.09 ST *
Total PCBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		

QUALIFIER:
U: Compound analyzed for but not detected

NOTES:
*: Value applies to the sum of these substances
GV: Guidance Value
ST: Standard
----: not established
[ ] Indicates value exceeds NYSDEC Class GA groundwater standard or guidance value

TABLE 3d.
TRIMMER ROAD LANDFILL SITE
REMEDIAL INVESTIGATION AND FEASIBILITY STUDY
GROUNDWATER SAMPLE RESULTS - JANUARY 2000
INORGANIC PARAMETERS - UNFILTERED

Sample Identification	MW-1D	MW-1S	MW-2D	MW-2S	MW-3D	MW-3S	MW-4D	Instrument	NYSDEC Class GA Groundwater
Date of Collection	01/26/00	01/26/00	01/26/00	01/26/00	01/26/00	01/26/00	01/27/00	Detection	Standard or
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	Limit	Guidance Value
Units	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)
Aluminum	938	22,000	337	3,320	665	3,680	398	9	----
Antimony	U	U	U	U	U	U	5.5 B	4	3 ST
Arsenic	21.0	16.5	21.3	U	8.1 B	U	6.1 B	2	25 ST
Barium	67.8 B	217	65.0 B	110 B	114 B	546	46.8 B	2	1,000 ST
Beryllium	U	1.2 B	U	U	U	0.20 B	U	0.2	3 GV
Cadmium	0.51 B	3.3 B	0.95 B	0.76 B	0.80 B	0.77 B	0.60 B	0.2	5 ST
Calcium	226,000	135,000	3,580 B	119,000	63,800	206,000	141,000	234	----
Chromium	U	36.0	1.5 B	3.0 B	U	2.1 B	U	0.6	50 ST
Cobalt	U	21.0 B	U	2.7 B	U	3.7 B	U	0.7	----
Copper	7.5 B	12.0 B	5.3 B	9.1 B	U	U	U	5	200 ST
Iron	4,220	33,200	8,310	5,000	5,830	5,870	7,060	2	300 ST ^
Lead	U	U	U	3.4	U	U	U	2	25 ST
Magnesium	39,200	35,300	713 B	28,400	13,100	38,700	21,900	2	35,000 GV
Manganese	271	755	51.9	187	106	490	144	0.9	300 ST ^
Mercury	U	U	U	U	U	U	U	0.1	0.7 ST
Nickel	1.9 B	50.3	6.4 B	7.8 B	2.5 B	20.1 B	U	0.9	100 ST
Potassium	84,000	26,500	8,080	6,660	18,100	10,800	129,000	320	----
Selenium	U	U	U	U	U	U	U	3	10 ST
Silver	U	5.6 B	U	U	U	U	2.7 B	2	50 ST
Sodium	1,400,000	428,000	161,000	52,200	406,000	250,000	3,340,000	132	20,000 ST
Thallium	4.7 B	3.9 B	3.2 B	2.5 B	2.8 B	2.5 B	2.4 B	2	0.5 GV
Vanadium	54.5	59.4	U	36.1 B	15.6 B	49.3 B	29.6 B	0.6	----
Zinc	11.4 B	94.8	12.0 B	18.5 B	9.5 B	19.9 B	9.8 B	2	2000 GV
Cyanide	7.8 B	6.4 B	4.9 B	4.9 B	5.2 B	6.3 B	11.4	2	200 ST

QUALIFIERS:
U: Compound analyzed for but not detected
B: Compound concentration is less than the CRDL but greater than the IDL.

NOTES:
^: The combined standard for iron and manganese is 500 ug/l
Indicates value exceeds NYSDEC Class GA groundwater standard or guidance value

TABLE 3d. (CONTINUED)
TRIMMER ROAD LANDFILL SITE
REMEDIAL INVESTIGATION AND FEASIBILITY STUDY
GROUNDWATER SAMPLE RESULTS - JANUARY 2000
INORGANIC PARAMETERS - UNFILTERED

Sample Identification	MW-4S	MW-5D	MW-5S	MW-6D	MW-6S	MW-7D	MW-7S	Instrument	NYSDEC Class GA Groundwater
Date of Collection	01/27/00	01/27/00	01/27/00	01/27/00	01/27/00	01/27/00	01/27/00	Detection	Standard or
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	Limit	Guidance Value
Units	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)
Aluminum	11,200	827	8,030	33.9 B	5,060	4,480	4,960	9	----
Antimony	U	U	U	5.8 B	U	U	U	4	3 ST
Arsenic	17.3	16.0	58.7	4.7 B	49.0	19.8	5.4 B	2	25 ST
Barium	1,630	45.7 B	1,280	130 B	590	124 B	166 B	2	1,000 ST
Beryllium	0.52 B	U	0.41 B	U	0.30 B	0.24 B	0.27 B	0.2	3 GV
Cadmium	2.2 B	0.39 B	2.0 B	0.52 B	1.7 B	1.2 B	1.3 B	0.2	5 ST
Calcium	358,000	35,200	370,000	289,000	125,000	45,700	229,000	234	----
Chromium	19.8	1.1 B	8.4 B	U	5.1 B	5.1 B	2.8 B	0.6	50 ST
Cobalt	16.8 B	1.1 B	13.0 B	U	3.9 B	2.7 B	3.9 B	0.7	----
Copper	8.1 B	U	5.4 B	U	U	6.8 B	U	5	200 ST
Iron	16,200	5,290	17,800	1,470	8,620	10,800	6,560	2	300 ST ^
Lead	U	U	U	U	U	U	U	2	25 ST
Magnesium	105,000	6,280	102,000	51,300	29,300	11,900	52,700	2	35,000 GV
Manganese	4,260	92.8	2,880	81.3	815	231	147	0.9	300 ST ^
Mercury	U	U	U	U	U	U	U	0.1	0.7 ST
Nickel	70.6	6.1 B	66.9	1.9 B	11.3 B	17.7 B	15.7 B	0.9	100 ST
Potassium	44,900	41,100	29,600	74,400	9,020	38,300	8,690	320	----
Selenium	U	U	U	U	U	U	U	3	10 ST
Silver	5.3 B	U	5.1 B	U	U	2.4 B	U	2	50 ST
Sodium	489,000	1,080,000	423,000	1,150,000	68,300	581,000	86,900	132	20,000 ST
Thallium	U	6.9 B	U	4.7 B	6.9 B	3.7 B	2.7 B	2	0.5 GV
Vanadium	125	9.5 B	117	71.6	42.8 B	19.5 B	70.7	0.6	----
Zinc	34.4	8.1 B	22.0	5.0 B	14.8 B	17.7 B	22.1	2	2000 GV
Cyanide	7.9 B	5.0 B	9.2 B	6.0 B	5.1 B	6.4 B	6.4 B	2	200 ST

QUALIFIERS:
U: Compound analyzed for but not detected
B: Compound concentration is less than the CRDL but greater than the IDL.

NOTES:
^: The combined standard for iron and manganese is 500 ug/l
Indicates value exceeds NYSDEC Class GA groundwater standard or guidance value

TABLE 3d. (CONTINUED)
TRIMMER ROAD LANDFILL SITE
REMEDIAL INVESTIGATION AND FEASIBILITY STUDY
GROUNDWATER SAMPLE RESULTS - JANUARY 2000
INORGANIC PARAMETERS - UNFILTERED

Sample Identification	MW-8D	MW-8S	MW-9D	MW-9S	MW-10D	MW-10S	Instrument Detection Limit	NYSDEC Class GA Groundwater Standard or Guidance Value
Date of Collection	01/27/00	01/27/00	01/27/00	01/27/00	01/26/00	01/26/00		
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0		
Units	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)
Aluminum	892	8,480	730	17,800	723	3,460	9	----
Antimony	U	4.2 B	U	5.7 B	U	U	4	3 ST
Arsenic	17.8	6.8 B	15.5	13.2	13.1	31.5	2	25 ST
Barium	238	198 B	59.2 B	1,690	30.9 B	288	2	1,000 ST
Beryllium	U	0.44 B	U	0.73 B	U	0.22 B	0.2	3 GV
Cadmium	2.2 B	1.0 B	1.8 B	3.1 B	0.46 B	0.95 B	0.2	5 ST
Calcium	80,100	676,000	28,400	333,000	30,500	153,000	234	----
Chromium	U	U	5.4 B	30.3	2.4 B	4.7 B	0.6	50 ST
Cobalt	1.2 B	5.8 B	1.0 B	32.9 B	U	4.3 B	0.7	----
Copper	U	U	U	8.7 B	U	U	5	200 ST
Iron	23,800	9,810	12,800	25,600	4,060	5,900	2	300 ST ^
Lead	U	U	U	U	U	2.1 B	2	25 ST
Magnesium	18,700	263,000	5,020	106,000	5,580	33,900	2	35,000 GV
Manganese	221	261	166	2,820	91.7	1,130	0.9	300 ST ^
Mercury	U	U	U	U	U	U	0.1	0.7 ST
Nickel	6.2 B	19.8 B	6.4 B	128	2.5 B	15.2 B	0.9	100 ST
Potassium	25,500	17,100	39,900	97,900	26,400	8,300	320	----
Selenium	U	U	U	U	U	U	3	10 ST
Silver	4.1 B	2.4 B	3.1 B	6.2 B	U	U	2	50 ST
Sodium	352,000	449,000	987,000	740,000	496,000	88,500	132	20,000 ST
Thallium	3.6 B	7.0 B	3.0 B	U	4.5 B	2.7 B	2	0.5 GV
Vanadium	16.0 B	190	3.0 B	133	8.5 B	42.8 B	0.6	----
Zinc	7.7 B	9.1 B	12.0 B	44.3	9.0 B	18.0 B	2	2000 GV
Cyanide	5.5 B	6.7 B	5.8 B	8.8 B	5.4 B	7.1 B	2	200 ST

QUALIFIERS
U: Compound analyzed for but not detected
B: Compound concentration is less than the CRDL but greater than the IDL.

NOTES:
^: The combined standard for iron and manganese is 500 ug/l
Indicates value exceeds NYSDEC Class GA groundwater standard or guidance value

TABLE 3e.
TRIMMER ROAD LANDFILL SITE
REMEDIAL INVESTIGATION AND FEASIBILITY STUDY
GROUNDWATER SAMPLE RESULTS - JANUARY 2000
INORGANIC PARAMETERS - FILTERED

Sample Identification	MW-1D	MW-1S	MW-2D	MW-2S	MW-3D	MW-3S	MW-4D	Instrument Detection Limit	NYSDEC Class GA Groundwater Standard or Guidance Value
Date of Collection	01/26/00	01/26/00	01/26/00	01/26/00	01/26/00	01/26/00	01/27/00		
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
Units	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)
Aluminum	9.3 B	201	77.1 B	U	U	U	U	9	----
Antimony	U	U	U	U	U	U	U	4	3 ST
Arsenic	4.0 B	2.6 B	16.3	U	4.0 B	U	3.3 B	2	25 ST
Barium	57.8 B	84.3 B	50.1 B	71.8 B	103 B	509	44.1 B	2	1,000 ST
Beryllium	U	U	U	U	U	U	U	0.2	3 GV
Cadmium	0.60 B	U	0.21 B	U	0.73 B	0.29 B	U	0.2	5 ST
Calcium	220,000	115,000	3,540 B	116,000	63,000	196,000	130,000	234	----
Chromium	U	U	U	U	U	U	U	0.6	50 ST
Cobalt	U	U	U	U	U	U	U	0.7	----
Copper	U	U	5.4 B	U	U	5.6 B	U	5	200 ST
Iron	5,120	22.4 B	927	66.7 B	2,270	17.8 B	109	2	300 ST ^
Lead	U	2.2 B	U	U	2.2 B	U	U	2	25 ST
Magnesium	38,600	25,000	637 B	27,400	12,900	35,800	17,900	2	35,000 GV
Manganese	289	109	19.5	67.4	94.4	408	90.8	0.9	300 ST ^
Mercury	U	U	U	U	U	U	U	0.1	0.7 ST
Nickel	1.6 B	0.99 B	0.93 B	1.3 B	1.0 B	11.4 B	U	0.9	100 ST
Potassium	76,000	26,900	8,000	6,030	17,900	9,650	138,000	320	----
Selenium	U	U	U	U	U	U	U	3	10 ST
Silver	U	U	U	U	U	U	U	2	50 ST
Sodium	1,270,000	542,000	154,000	52,000	408,000	242,000	3,450,000	132	20,000 ST
Thallium	4.4 B	5.0 B	2.9 B	3.2 B	3.5 B	3.2 B	4.0 B	2	0.5 GV
Vanadium	50.8	33.3 B	0.72 B	30.6 B	16.4 B	42.8 B	32.9 B	0.6	----
Zinc	7.8 B	9.7 B	11.5 B	5.4 B	10.5 B	6.5 B	5.2 B	2	2000 GV

QUALIFIERS:
U: Compound analyzed for but not detected
B: Compound concentration is less than the CRDL but greater than the IDL.

NOTES:
^: The combined standard for iron and manganese is 500 ug/l
[ ] Indicates value exceeds NYSDEC Class GA groundwater standard or guidance value

TABLE 3e. (CONTINUED)
TRIMMER ROAD LANDFILL SITE
REMEDIAL INVESTIGATION AND FEASIBILITY STUDY
GROUNDWATER SAMPLE RESULTS - JANUARY 2000
INORGANIC PARAMETERS - FILTERED

Sample Identification	MW-4S	MW-5D	MW-5S	MW-6D	MW-6S	MW-7D	MW-7S	Instrument Detection Limit	NYSDEC Class GA Groundwater Standard or Guidance Value
Date of Collection	01/27/00	01/27/00	01/27/00	01/27/00	01/27/00	01/27/00	01/27/00		
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
Units	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)
Aluminum	22.1 B	U	10.7 B	U	U	10.2 B	U	9	----
Antimony	U	4.1 B	U	U	U	4.1 B	U	4	3 ST
Arsenic	7.3 B	6.3 B	6.6 B	2.2 B	36.3	7.6 B	2.3 B	2	25 ST
Barium	1,310	46.3 B	1,160	120 B	546	106 B	163 B	2	1,000 ST
Beryllium	U	U	U	U	U	U	U	0.2	3 GV
Cadmium	0.52 B	U	0.63 B	U	0.26 B	0.40 B	0.40 B	0.2	5 ST
Calcium	323,000	34,400	345,000	278,000	122,000	50,000	247,000	234	----
Chromium	U	U	U	U	U	U	U	0.6	50 ST
Cobalt	7.4 B	U	6.9 B	U	U	0.71 B	U	0.7	----
Copper	U	U	U	U	U	U	U	5	200 ST
Iron	299	400	853	12.4 B	2,820	4,300	18.4 B	2	300 ST ^
Lead	U	U	U	U	U	U	U	2	25 ST
Magnesium	95,700	6,090	96,500	48,500	28,500	12,800	54,500	2	35,000 GV
Manganese	3,500	80.2	2,760	13.5 B	756	220	96.6	0.9	300 ST ^
Mercury	U	U	U	U	U	U	U	0.1	0.7 ST
Nickel	49.0	3.5 B	52.9	1.1 B	6.0 B	13.3 B	10.0 B	0.9	100 ST
Potassium	43,600	42,500	31,100	76,100	8,290	37,300	7,350	320	----
Selenium	U	U	U	U	U	U	U	3	10 ST
Silver	U	U	U	U	U	U	U	2	50 ST
Sodium	460,000	1,080,000	419,000	1,090,000	74,300	630,000	88,500	132	20,000 ST
Thallium	3.4 B	4.8 B	2.7 B	U	4.2 B	3.3 B	3.2 B	2	0.5 GV
Vanadium	108	10.9 B	108	70.4	37.5 B	18.0 B	65.9	0.6	----
Zinc	3.5 B	5.8 B	4.6 B	2.8 B	4.6 B	5.7 B	3.1 B	2	2000 GV

QUALIFIERS:
U: Compound analyzed for but not detected
B: Compound concentration is less than the CRDL but greater than the IDL.

NOTES:
^: The combined standard for iron and manganese is 500 ug/l
[ ] Indicates value exceeds NYSDEC Class GA groundwater standard or guidance value

TABLE 3e. (CONTINUED)
TRIMMER ROAD LANDFILL SITE
REMEDIAL INVESTIGATION AND FEASIBILITY STUDY
GROUNDWATER SAMPLE RESULTS - JANUARY 2000
INORGANIC PARAMETERS - FILTERED

Sample Identification	MW-8D	MW-8S	MW-9D	MW-9S	MW-10D	MW-10S	Instrument Detection Limit	NYSDEC Class GA Groundwater Standard or Guidance Value
Date of Collection	01/27/00	01/27/00	01/27/00	01/27/00	01/26/00	01/26/00		
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0		
Units	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)
Aluminum	23.8 B	U	9.6 B	36.7 B	U	U	9	-----
Antimony	U	U	U	U	U	U	4	3 ST
Arsenic	9.3 B	U	5.4 B	2.4 B	3.3 B	24.6	2	25 ST
Barium	222	153 B	52.1 B	1,010	25.7 B	252	2	1,000 ST
Beryllium	U	U	U	U	U	U	0.2	3 GV
Cadmium	1.6 B	0.34 B	U	0.27 B	0.34 B	U	0.2	5 ST
Calcium	80,900	620,000	28,500	310,000	29,600	148,000	234	-----
Chromium	U	U	U	1.4 B	U	U	0.6	50 ST
Cobalt	U	1.2 B	U	26.0 B	U	1.3 B	0.7	-----
Copper	U	U	U	9.8 B	U	U	5	200 ST
Iron	18,200	23.1 B	777	60.2 B	1,270	296	2	300 ST ^
Lead	U	U	U	U	2.9 B	U	2	25 ST
Magnesium	18,800	250,000	5,050	101,000	5,230	32,400	2	35,000 GV
Manganese	209	99.5	116	2,810	80.2	1,000	0.9	300 ST ^
Mercury	U	U	U	U	U	U	0.1	0.7 ST
Nickel	4.3 B	10.4 B	2.6 B	111	U	7.4 B	0.9	100 ST
Potassium	28,000	14,900	38,400	66,400	26,100	7,890	320	-----
Selenium	U	U	U	U	U	U	3	10 ST
Silver	3.3 B	U	U	U	U	U	2	50 ST
Sodium	359,000	419,000	1,010,000	842,000	489,000	91,900	132	20,000 ST
Thallium	4.2 B	6.7 B	4.2 B	2.4 B	4.6 B	3.4 B	2	0.5 GV
Vanadium	17.8 B	178	8.3 B	115	7.6 B	38.3 B	0.6	-----
Zinc	6.6 B	U	6.6 B	4.7 B	7.1 B	5.2 B	2	2000 GV

QUALIFIERS
U: Compound analyzed for but not detected
B: Compound concentration is less than the CRDL but greater than the IDL.

NOTES:
^: The combined standard for iron and manganese is 500 ug/l
Indicates value exceeds NYSDEC Class GA groundwater standard or guidance valu

TABLE 4a.
TRIMMER ROAD LANDFILL SITE
REMEDIAL INVESTIGATION AND FEASIBILITY STUDY
GROUNDWATER SAMPLE RESULTS - JUNE 2000
VOLATILE ORGANIC COMPOUNDS

Sample Identification	MW-1D	MW-1S	MW-2D	MW-2S	MW-3D	MW-3S	MW-4D	MW-4S	MW-5D	MW-5S	Contract Required Detection Limit	NYSDEC Class GA Groundwater Standard or Guidance Value
Date of Collection	06/08/00	06/08/00	06/08/00	06/08/00	06/08/00	06/08/00	06/07/00	06/07/00	06/07/00	06/07/00		
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
Units	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)
Chloromethane	U	U	U	U	U	U	U	U	U	U	10	5 ST
Bromomethane	U	U	U	U	U	U	U	U	U	U	10	5 ST
Vinyl Chloride	U	U	U	U	U	U	U	96	U	140	10	2 ST
Chloroethane	U	U	U	U	U	U	U	2 J	U	15	10	5 ST
Methylene Chloride	U	U	U	U	U	U	U	U	U	U	10	5 ST
Acetone	2 J	2 J	U	U	U	1 J	U	U	3 J	U	10	50GV
Carbon Disulfide	U	U	U	U	U	U	U	U	U	U	10	----
1,1-Dichloroethene	U	U	U	U	U	U	U	U	U	U	10	5 ST
1,1-Dichloroethane	U	U	U	U	U	U	U	U	U	2 J	10	5 ST
1,2-Dichloroethene (total)	U	U	U	U	U	U	U	300	U	50	10	5 ST *
Chloroform	U	U	U	U	U	U	U	U	U	U	10	7 ST
1,2-Dichloroethane	U	U	U	U	U	U	U	U	U	U	10	0.6 ST
2-Butanone	U	U	U	U	U	U	U	U	U	U	10	50GV
1,1,1-Trichloroethane	U	U	U	U	U	U	U	U	U	U	10	5 ST
Carbon Tetrachloride	U	U	U	U	U	U	U	U	U	U	10	5 ST
Bromodichloromethane	U	U	U	U	U	U	U	U	U	U	10	50GV
1,2-Dichloropropane	U	U	U	U	U	U	U	U	U	U	10	1 ST
cis-1,3-Dichloropropene	U	U	U	U	U	U	U	U	U	U	10	0.4 ST **
Trichloroethene	U	U	U	U	U	U	U	3 J	U	3 J	10	5 ST
Dibromochloromethane	U	U	U	U	U	U	U	U	U	U	10	50GV
1,1,2-Trichloroethane	U	U	U	U	U	U	U	U	U	U	10	1 ST
Benzene	U	5 J	6 J	1 J	U	1 J	2 J	8 J	2 J	9 J	10	1 ST
Trans-1,3-Dichloropropene	U	U	U	U	U	U	U	U	U	U	10	0.4 ST **
Bromoform	U	U	U	U	U	U	U	U	U	U	10	50GV
4-Methyl-2-Pentanone	U	U	U	U	U	U	U	U	U	U	10	----
2-Hexanone	U	U	U	U	U	U	U	U	U	U	10	50GV
Tetrachloroethene	U	U	U	U	U	U	U	U	U	U	10	5 ST
1,1,2,2-Tetrachloroethane	U	U	U	U	U	U	U	U	U	U	10	5 ST
Toluene	U	U	U	U	U	U	U	U	U	U	10	5 ST
Chlorobenzene	U	U	U	U	U	U	U	19 J	U	16	10	5 ST
Ethylbenzene	U	U	U	U	U	U	U	U	U	U	10	5 ST
Styrene	U	U	U	U	U	U	U	U	U	U	10	5 ST
Total Xylenes	U	U	U	U	U	U	U	U	U	U	10	5 ST
Total VOCs	2	7	6	1	0	2	2	428	5	235		----
Total VOC TICs	0	0	0	0	0	0	0	0	0	0		----

QUALIFIERS:
U: Compound analyzed for but not detected
B: Compound found in the blank as well as the sample
J: Compound found at a concentration below the CRDL, value estimated
D: Value is a result of analysis with a dilution factor of 2.0
U*: Result qualified as non-detect based upon validation criteria

NOTES:
*: Value pertains to cis-1,2 Dichloroethene and trans-1,2 Dichloroethene individually
**: Value pertains to the sum of the isomers
GV: Guidance Value
ST: Standard
----: Not established
Indicates value exceeds NYSDEC Class GA groundwater standard or guidance value.

Table 4a. (continued)
TRIMMER ROAD LANDFILL SITE
REMEDIAL INVESTIGATION AND FEASIBILITY STUDY
GROUNDWATER SAMPLE RESULTS - JUNE 2000
VOLATILE ORGANIC COMPOUNDS

Sample Identification	MW-6D	MW-6S	MW-7D	MW-7S	MW-8D	MW-8S	MW-9D	MW-9S	MW-10D	MW-10S	Contract Required Detection Limit	NYSDEC Class GA Groundwater Standard or Guidance Value
Date of Collection	06/07/00	06/07/00	06/06/00	06/08/00	06/06/00	06/06/00	06/06/00	06/06/00	06/07/00	06/07/00		
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
Units	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)
Chloromethane	U	U	U	U	U	U	U	U	U	U	10	5 ST
Bromomethane	U	U	U	U	U	U	U	U	U	U	10	5 ST
Vinyl Chloride	U	U	2 J	U	U	U	U	26	U	U	10	2 ST
Chloroethane	U	3 J	U	U	U	U	1 J	23	U	U	10	5 ST
Methylene Chloride	U	U	U	U	U	U	U	U	U	U	10	5 ST
Acetone	2 J	5 J	10	U	U	U	4 J	4 J	U	U	10	50GV
Carbon Disulfide	U	U	U	U	U	U	U	U	U	U	10	----
1,1-Dichloroethene	U	U	U	U	U	U	U	3 J	U	U	10	5 ST
1,1-Dichloroethane	U	U	U	U	U	U	U	39	U	U	10	5 ST
1,2-Dichloroethene (total)	U	U	U	U	U	U	U	95	U	U	10	5 ST *
Chloroform	U	U	U	U	U	U	U	U	U	U	10	7 ST
1,2-Dichloroethane	U	U	U	U	U	U	U	U	U	U	10	0.6 ST
2-Butanone	U	U	6 J	U	U	U	U	U	U	U	10	50GV
1,1,1-Trichloroethane	U	U	U	U	U	U	U	14	U	U	10	5 ST
Carbon Tetrachloride	U	U	U	U	U	U	U	U	U	U	10	5 ST
Bromodichloromethane	U	U	U	U	U	U	U	U	U	U	10	50GV
1,2-Dichloropropane	U	U	U	U	U	U	U	U	U	U	10	1 ST
cis-1,3-Dichloropropene	U	U	U	U	U	U	U	U	U	U	10	0.4 ST **
Trichloroethene	U	U	U	U	U	U	U	34	U	U	10	5 ST
Dibromochloromethane	U	U	U	U	U	U	U	U	U	U	10	50GV
1,1,2-Trichloroethane	U	U	U	U	U	U	U	U	U	U	10	1 ST
Benzene	U	4 J	U	U	U	2 J	9 J	10	U	U	10	1 ST
Trans-1,3-Dichloropropene	U	U	U	U	U	U	U	U	U	U	10	0.4 ST **
Bromoform	U	U	U	U	U	U	U	U	U	U	10	50GV
4-Methyl-2-Pentanone	U	U	U	U	U	U	U	U	U	U	10	----
2-Hexanone	U	U	U	U	U	U	U	U	U	U	10	50GV
Tetrachloroethene	U	U	U	U	U	U	U	U	U	U	10	5 ST
1,1,2,2-Tetrachloroethane	U	U	U	U	U	U	U	U	U	U	10	5 ST
Toluene	U	U	U	U	U	U	U	U	U	U	10	5 ST
Chlorobenzene	U	7 J	U	U	U	U	U	11	U	U	10	5 ST
Ethylbenzene	U	U	U	U	U	U	U	U	U	U	10	5 ST
Styrene	U	U	U	U	U	U	U	U	U	U	10	5 ST
Total Xylenes	U	U	U	U	U	U	U	U	U	U	10	5 ST
Total VOCs	2	19	18	0	0	2	14	259	0	0		----
Total VOC TICs	0	0	0	0	0	0	0	0	0	0		----

QUALIFIERS:

U: Compound analyzed for but not detected

B: Compound found in the blank as well as the sample

J: Compound found at aconcentration below the CRDL, value estimated

U*: Result qualified as non-detect based upon validation criteria

NOTES:

*: Value pertains to cis-1,2 Dichloroethene and trans-1,2 Dichloroethene individually

**: Value pertains to the sum of the isomers

GV: Guidance Value

ST: Standard

----: Not established

[ ] Indicates value exceeds NYSDEC Class GA groundwater standard or guidance value.

TABLE 4b.
TRIMMER ROAD LANDFILL SITE
REMEDIAL INVESTIGATION AND FEASIBILITY STUDY
GROUNDWATER SAMPLE RESULTS - JUNE 2000
INORGANIC PARAMETERS - UNFILTERED

Sample Identification	MW-1D	MW-1S	MW-2D	MW-2S	MW-3D	MW-3S	MW-4D	Instrument Detection Limit	NYSDEC Class GA Groundwater Standard or Guidance Value
Date of Collection	06/08/00	06/08/00	06/08/00	06/08/00	06/08/00	06/08/00	06/08/00		
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
Units	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)
Aluminum		1,380	500	190 B	319	1,820	75.4 B	9	----
Antimony	U	U	U	U	U	U	U	4	3 ST
Arsenic	12.9	5.5 B	24.5	U	8.2 B	10.6	8.5 B	2	25 ST
Barium	70.2 B	63.8 B	74.3 B	59.5 B	119 B	146 B	16.1 B	2	1,000 ST
Beryllium	U	U	U	U	U	U	U	0.2	3 GV
Cadmium	0.54 B	0.40 B	0.24 B	0.30 B	0.42 B	0.45 B	0.30 B	0.2	5 ST
Calcium	235,000	95,900	4,340 B	121,000	70,000	95,300	109,000	234	----
Chromium	U	1.2 B	0.75 B	U	0.78 B	1.4 B	U	0.6	50 ST
Cobalt	1.6 B	1.2 B	0.64 B	0.77 B	0.67 B	2.0 B	U	0.7	----
Copper	4.5 B	13.8 B	1.7 B	2.6 B	0.88 B	2.8 B	1.4 B	5	200 ST
Iron	4,390	1,680	2,280	331	4,200	3,630	2,120	2	300 ST ^
Lead	U	U	U	U	U	U	U	2	25 ST
Magnesium	47,600	22,800	1,010 B	29,300	15,300	17,300	16,600	2	35,000 GV
Manganese	263	118	28.3	15.1	140	205	152	0.9	300 ST ^
Mercury	U	U	U	U	U	U	U	0.1	0.7 ST
Nickel	3.7 B	2.4 B	2.6 B	1.6 B	2.1 B	3.8 B	2.0 B	0.9	100 ST
Potassium	74,000	18,300	8,510	4,090 B	16,800	5,050	61,800	320	----
Selenium	8.3	12.8	U	13.1	9.7	11.7	14.1	3	10 ST
Silver	U	U	U	U	U	U	U	2	50 ST
Sodium	1,910,000	288,000	145,000	43,800	306,000	101,000	2,360,000	132	20,000 ST
Thallium	12.0	U	U	U	U	U	U	2	0.5 GV
Vanadium	2.5 B	2.8 B	0.81 B	0.69 B	U	3.5 B	U	0.6	----
Zinc	U	4.7 B	3.1 B	1.4 B	2.3 B	6.4 B	1.6 B	2	2000 GV
Cyanide	U	U	U	U	U	2.1 B	U	2	200 ST

QUALIFIERS:
U: Compound analyzed for but not detected
B: Compound concentration is less than the CRDL but greater than the IDL.

NOTES:
^: The combined standard for iron and manganese is 500 ug/l
Indicates value exceeds NYSDEC Class GA groundwater standard or guidance value

TABLE 4b. (CONTINUED)
TRIMMER ROAD LANDFILL SITE
REMEDIAL INVESTIGATION AND FEASIBILITY STUDY
GROUNDWATER SAMPLE RESULTS - JUNE 2000
INORGANIC PARAMETERS - UNFILTERED

Sample Identification	MW-4S	MW-5D	MW-5S	MW-6D	MW-6S	MW-7D	MW-7S	Instrument Detection Limit	NYSDEC Class GA Groundwater Standard or Guidance Value
Date of Collection	06/08/00	06/08/00	06/08/00	06/08/00	06/08/00	06/07/00	06/08/00		
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
Units	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)
Aluminum	B	143 B	127 B	U	164 B	1,390	84.8 B	9	----
Antimony	U	U	U	U	6.5 B	U	U	4	3 ST
Arsenic	5.4 B	17.3	5.9 B	U	90.5	25.9	U	2	25 ST
Barium	1,500	42.2 B	1,450	64.5 B	1,580	82.1 B	48.0 B	2	1,000 ST
Beryllium	U	U	U	U	U	U	U	0.2	3 GV
Cadmium	0.59 B	0.34 B	0.56 B	0.51 B	1.0 B	0.33 B	3.1 B	0.2	5 ST
Calcium	328,000	31,600	380,000	295,000	430,000	10,800	92,800	234	----
Chromium	U	0.81 B	U	U	U	2.2 B	U	0.6	50 ST
Cobalt	14.0 B	0.78 B	10.0 B	U	3.2 B	0.97 B	U	0.7	----
Copper	6.8 B	2.0 B	7.7 B	5.9 B	5.1 B	6.2 B	2.1 B	5	200 ST
Iron	622	2,500	1,160	1,430	13,900	2,600	132	2	300 ST ^
Lead	U	U	U	U	U	U	U	2	25 ST
Magnesium	97,600	6,110	107,000	55,000	104,000	2,550 B	12,000	2	35,000 GV
Manganese	3,750	64.2	3,250	50.9	2,930	19.9	4.2 B	0.9	300 ST ^
Mercury	U	U	U	U	U	U	U	0.1	0.7 ST
Nickel	59.4	8.6 B	66.7	5.2 B	39.8 B	11.7 B	1.3 B	0.9	100 ST
Potassium	40,000	29,000	29,100	46,200	9,170	30,100	613 B	320	----
Selenium	31.9	6.6	11.4	7.7	18.7	U	14.2	3	10 ST
Silver	U	U	U	U	5.4 B	U	U	2	50 ST
Sodium	402,000	994,000	365,000	1,030,000	278,000	482,000	10,300	132	20,000 ST
Thallium	U	U	U	U	U	U	U	2	0.5 GV
Vanadium	2.7 B	U	0.55 B	U	1.2 B	2.7 B	0.52 B	0.6	----
Zinc	3.0 B	3.8 B	U	U	U	2.0 B	U	2	2000 GV
Cyanide	2.2 B	U	2.4 B	U	U	U	U	2	200 ST

QUALIFIERS:
U: Compound analyzed for but not detected
B: Compound concentration is less than the CRDL but greater than the IDL.

^: The combined standard for iron and manganese is 500 ug/l
Indicates value exceeds NYSDEC Class GA groundwater standard or guidance value

TABLE 4b. (CONTINUED)
TRIMMER ROAD LANDFILL SITE
REMEDIAL INVESTIGATION AND FEASIBILITY STUDY
GROUNDWATER SAMPLE RESULTS - JUNE 2000
INORGANIC PARAMETERS - UNFILTERED

Sample Identification	MW-8D	MW-8S	MW-9D	MW-9S	MW-10D	MW-10S	Instrument Detection Limit	NYSDEC Class GA Groundwater Standard or Guidance Value
Date of Collection	06/07/00	06/07/00	06/07/00	06/07/00	06/08/00	06/08/00		
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0		
Units	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)
Aluminum	196 B	352	193 B	868	125 B	1,100	9	----
Antimony	U	U	U	8.0 B	U	U	4	3 ST
Arsenic	17.1	U	22.9	13.5	8.1 B	28.2	2	25 ST
Barium	269	107 B	71.0 B	1,180	17.8 B	351	2	1,000 ST
Beryllium	U	U	U	U	U	U	0.2	3 GV
Cadmium	0.50 B	0.67 B	0.28 B	0.63 B	0.40 B	0.69 B	0.2	5 ST
Calcium	91,800	717,000	27,600	340,000	26,200	174,000	234	----
Chromium	U	U	1.3 B	1.3 B	U	0.41 B	0.6	50 ST
Cobalt	1.1 B	3.6 B	1.1 B	27.4 B	U	3.2 B	0.7	----
Copper	1.9 B	9.7 B	1.1 B	19.6 B	0.71 B	3.9 B	5	200 ST
Iron	6,340	398	3,190	1,240	1,800	2,590	2	300 ST ^
Lead	U	U	U	U	U	U	2	25 ST
Magnesium	22,600	287,000	5,470	112,000	5,290	38,600	2	35,000 GV
Manganese	181	353	103	3,740	57.1	1,270	0.9	300 ST ^
Mercury	U	U	U	U	U	U	0.1	0.7 ST
Nickel	7.7 B	13.9 B	10.4 B	129	1.0 B	11.9 B	0.9	100 ST
Potassium	21,900	15,100	35,300	55,600	20,400	6,030	320	----
Selenium	10.8	U	U	32.0	U	14.6	3	10 ST
Silver	U	5.4 B	U	3.2 B	U	U	2	50 ST
Sodium	318,000	441,000	883,000	709,000	1,370,000	83,300	132	20,000 ST
Thallium	U	11.2	U	U	U	U	2	0.5 GV
Vanadium	U	U	U	4.6 B	U	2.2 B	0.6	----
Zinc	1.3 B	U	4.1 B	5.6 B	2.1 B	4.5 B	2	2000 GV
Cyanide	U	U	U	4.8 B	U	U	2	200 ST

QUALIFIERS
U: Compound analyzed for but not detected
B: Compound concentration is less than the CRDL but greater than the IDL.

NOTES:
^: The combined standard for iron and manganese is 500 ug/l
Indicates value exceeds NYSDEC Class GA groundwater standard or guidance value

TABLE 5a.
TRIMMER ROAD LANDFILL SITE
REMEDIAL INVESTIGATION AND FEASIBILITY STUDY
TEST PIT WATER SAMPLE RESULTS - DECEMBER 1999
VOLATILE ORGANIC COMPOUNDS

Sample Identification	TP-5W	Contract Required Detection Limit	NYSDEC Class GA Groundwater Standard or Guidance Value
Sample Depth	2-2.5'		
Date of Collection	12/21/99		
Dilution Factor	1.0		
Units	(ug/l)	(ug/l)	(ug/l)
Chloromethane	U	10	5 ST
Bromomethane	U	10	5 ST
Vinyl Chloride	U	10	2 ST
Chloroethane	U	10	5 ST
Methylene Chloride	U	10	5 ST
Acetone	U	10	50GV
Carbon Disulfide	U	10	----
1,1-Dichloroethene	14	10	5 ST
1,1-Dichloroethane	U	10	5 ST
1,2-Dichloroethene (total)	U	10	5 ST *
Chloroform	U	10	7 ST
1,2-Dichloroethane	U	10	0.6 ST
2-Butanone	U	10	50GV
1,1,1-Trichloroethane	U	10	5 ST
Carbon Tetrachloride	U	10	5 ST
Bromodichloromethane	U	10	50GV
1,2-Dichloropropane	U	10	1 ST
cis-1,3-Dichloropropene	U	10	0.4 ST **
Trichloroethene	11	10	5 ST
Dibromochloromethane	U	10	50GV
1,1,2-Trichloroethane	U	10	1 ST
Benzene	13	10	1 ST
Trans-1,3-Dichloropropene	U	10	0.4 ST **
Bromoform	U	10	50GV
4-Methyl-2-Pentanone	U	10	----
2-Hexanone	U	10	50GV
Tetrachloroethene	U	10	5 ST
1,1,2,2-Tetrachloroethane	U	10	5 ST
Toluene	13	10	5 ST
Chlorobenzene	13	10	5 ST
Ethylbenzene	U	10	5 ST
Styrene	U	10	5 ST
Total Xylenes	U	10	5 ST
Total VOCs	64		
Total VOC TICs	0		

QUALIFIERS:
U: Compound analyzed for but not detected
J: Compound found at aconcentration below the CRDL, value estimated
* : Applies to the sum of 1,2-, 1,3- and 1,4-Xylene

NOTES:
*: Value pertains to cis-1,2 Dichloroethene and trans-1,2 Dichloroethene individually
**: Value pertains to the sum of the isomers
GV: Guidance Value
ST: Standard
----: Not established

Indicates value exceeds NYSDEC Class GA groundwater standard or guidance value.

TABLE 5b.
TRIMMER ROAD LANDFILL SITE
REMEDIAL INVESTIGATION AND FEASIBILITY STUDY
TEST PIT WATER SAMPLE RESULTS - DECEMBER 1999
SEMIVOLATILE ORGANIC COMPOUNDS

Sample Identification	**TP-5W**	Contract	NYSDEC Class GA
Sample Depth	2-2.5'	Required	Groundwater
Date of Collection	12/21/99	Detection	Standard or
Dilution Factor	2.5	Limit	Guidance Value
Units	(ug/l)	(ug/L)	(ug/l)
Phenol	U	10	1 ST *
bis(2-Chloroethyl)ether	U	10	1 ST
2-Chlorophenol	U	10	1 ST *
1,3-Dichlorobenzene	U	10	3 ST
1,4-Dichlorobenzene	U	10	3 ST
1,2-Dichlorobenzene	U	10	3 ST
2-Methylphenol	U	10	----
2,2-Oxybis (1-Chloropropane)	U	10	----
4-Methylphenol	U	10	----
N-Nitroso-di-n-propylamine	U	10	----
Hexachloroethane	U	10	5 ST
Nitrobenzene	U	10	0.4 ST
Isophorone	U	10	50 GV
2-Nitrophenol	U	10	----
2,4-Dimethylphenol	U	10	1 ST *
2,4-Dichlorophenol	U	10	1 ST *
1,2,4-Trichlorobenzene	U	10	5 ST
Naphthalene	U	10	10 GV
4-Chloroaniline	U	10	5 ST
bis(2-Chloroethoxy)methane	U	10	5 ST
Hexachlorobutadiene	U	10	0.5 ST
4-Chloro-3-methylphenol	U	10	----
2-Methylnaphthalene	U	10	----
Hexachlorocyclopentadiene	U	10	5 ST
2,4,6-Trichlorophenol	U	10	----
2,4,5-Trichlorophenol	U	25	----
2-Chloronaphthalene	U	10	5 ST
2-Nitroaniline	U	25	5 ST
Dimethylphthalate	U	10	50 GV
Acenaphthylene	U	10	----
2,6-Dinitrotoluene	U	10	5 ST
3-Nitroaniline	U	25	5 ST
Acenaphthene	U	10	20 GV
2,4-Dinitrophenol	U	25	1 ST *
4-Nitrophenol	U	25	----
Dibenzofuran	U	10	----

TABLE 5b. (CONTINUED)
TRIMMER ROAD LANDFILL SITE
REMEDIAL INVESTIGATION AND FEASIBILITY STUDY
TEST PIT WATER SAMPLE RESULTS - DECEMBER 1999
SEMIVOLATILE ORGANIC COMPOUNDS

Sample Identification	**TP-5W**	Contract	NYSDEC Class GA
Sample Depth	2-2.5'	Required	Groundwater
Date of Collection	12/21/99	Detection	Standard or
Dilution Factor	2.5	Limit	Guidance Value
Units	ug/l	(ug/l)	(ug/l)
2,4-Dinitrotoluene	U	10	5 ST
Diethylphthalate	U	10	50 GV
4-Chlorophenyl-phenylether	U	10	----
Fluorene	U	10	50 GV
4-Nitroaniline	U	25	5 ST
4,6-Dinitro-2-methylphenol	U	25	----
N-Nitrosodiphenylamine	U	10	50 GV
4-Bromophenyl-phenylether	U	10	----
Hexachlorobenzene	U	10	0.04 ST
Pentachlorophenol	U	25	1 ST *
Phenanthrene	U	10	50 GV
Anthracene	U	10	50 GV
Carbazole	U	10	----
Di-n-butylphthalate	U	10	50 ST
Fluoranthene	U	10	50 GV
Pyrene	U	10	50 GV
Butylbenzylphthalate	U	10	50 GV
3,3'-Dichlorobenzidine	U	10	5 ST
Benzo (a) anthracene	U	10	0.002 GV
Chrysene	U	10	0.002 GV
bis(2-Ethylhexyl)phthalate	4 J	10	5 ST
Di-octylphthalate	U	10	50 GV
Benzo(b)fluoranthene	U	10	0.002 GV
Benzo(k)fluoranthene	U	10	0.002 GV
Benzo(a)pyrene	U	10	ND ST
Indeno(1,2,3-cd)pyrene	U	10	0.002 GV
Dibenzo(a,h)anthracene	U	10	----
Benzo(g,h,i)perylene	U	10	----
Total PAHs	0		
Total Carcinogen PAHs	0		
Total SVOCs	4		
Total SVOC TICs			

QUALIFIERS:

J: Compound found at a concentration below the detection limit

U: Compound analyzed for but not detected

B: Compound found in the method blank as well as the sample

* : Applies to Total Phenols

** : Applies to the sum of Unchlorinated Phenols

***: Applies to the sum of 1,2-, 1,3- and 1,4-Dichlorobenzene

**** : Applies to the sum of Chlorinated Phenols

[ ] Indicates value exceeds NYSDEC Class GA groundwater standard or guidance valu

TABLE 6a.
TRIMMER ROAD LANDFILL SITE
REMEDIAL INVESTIGATION AND FEASIBILITY STUDY
SURFACE WATER SAMPLE RESULTS
VOLATILE ORGANIC COMPOUNDS

Sample Identification	SW-1	SW-2	SW-3	SW-4	SW-5	SW-6W	SW-6	SW-7	SW-8	SW-9	SW-10	SW-11	SW-12	Contract Required Detection Limit	NYSDEC Class C Surface Water Standard or Guidance Value
Date of Collection	06/08/00	06/09/00	06/09/00	06/09/00	06/09/00	1/27/00	06/09/00	06/09/00	06/07/00	06/07/00	06/07/00	06/09/00	06/09/00		
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
Units	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)
Chloromethane	U	U	U	U	U	U	U	U	U	U	U	U	U	10	---
Bromomethane	U	U	U	U	U	U	U	U	U	U	U	U	U	10	---
Vinyl Chloride	U	U	U	U	U	U	U	U	U	U	U	U	U	10	---
Chloroethane	U	U	U	U	U	U	U	U	U	U	U	U	U	10	---
Methylene Chloride	U	U	U	U	U	U	U	U	U	U	U	U	U	10	200 ST
Acetone	U	U	U	U	U	2 JB	U	U	U	U	U	U	U	10	---
Carbon Disulfide	U	U	U	U	U	U	U	U	U	U	U	U	U	10	---
1,1-Dichloroethene	U	U	U	U	U	U	U	U	U	U	U	U	U	10	---
1,1-Dichloroethane	U	U	U	U	U	U	U	U	U	U	U	U	U	10	---
1,2-Dichloroethene (total)	U	U	U	U	U	U	U	U	U	U	U	U	U	10	---
Chloroform	U	U	U	U	U	U	U	U	U	U	U	U	U	10	---
1,2-Dichloroethane	U	U	U	U	U	U	U	U	U	U	U	U	U	10	---
2-Butanone	U	U	U	U	U	U	U	U	U	U	U	U	U	10	---
1,1,1-Trichloroethane	U	U	U	U	U	U	U	U	U	U	U	U	U	10	---
Carbon Tetrachloride	U	U	U	U	U	U	U	U	U	U	U	U	U	10	---
Bromodichloromethane	U	U	U	U	U	U	U	U	U	U	U	U	U	10	---
1,2-Dichloropropane	U	U	U	U	U	U	U	U	U	U	U	U	U	10	---
cis-1,3-Dichloropropene	U	U	U	U	U	U	U	U	U	U	U	U	U	10	---
Trichloroethene	U	U	4 J	U	3 J	U	3 J	U	U	U	U	U	U	10	40 ST
Dibromochloromethane	U	U	U	U	U	U	U	U	U	U	U	U	U	10	---
1,1,2-Trichloroethane	U	U	U	U	U	U	U	U	U	U	U	U	U	10	---
Benzene	U	U	U	U	U	U	U	U	U	U	U	U	U	10	10 ST
Trans-1,3-Dichloropropene	U	U	U	U	U	U	U	U	U	U	U	U	U	10	---
Bromoform	U	U	U	U	U	U	U	U	U	U	U	U	U	10	---
4-Methyl-2-Pentanone	U	U	U	U	U	U	U	U	U	U	U	U	U	10	---
2-Hexanone	U	U	U	U	U	U	U	U	U	U	U	U	U	10	---
Tetrachloroethene	U	U	U	U	U	U	U	U	U	U	U	U	U	10	1 GV
1,1,2,2-Tetrachloroethane	U	U	U	U	U	U	U	U	U	U	U	U	U	10	---
Toluene	U	U	U	U	U	U	U	U	U	U	U	U	U	10	100 GV
Chlorobenzene	U	3 J	U	U	U	U	U	U	U	U	U	U	U	10	5 ST
Ethylbenzene	U	U	U	U	U	U	U	U	U	U	U	U	U	10	17 GV
Styrene	U	U	U	U	U	U	U	U	U	U	U	U	U	10	---
Total Xylenes	U	3 J	U	U	U	U	U	U	U	U	U	U	U	10	65 GV **
Total VOCs	0	6	4	0	3	2	3	0	0	0	0	0	0		----
Total VOC TICs	0	0	0	0	0	0	0	0	0	0	0	0	0		----

QUALIFIERS:
U: Compound analyzed for but not detected
U*: Result qualified as non-detect based upon validation criteria
J: Compound found at a concentration below the CRDL, value estimate

NOTES:
**: Value pertains to the sum of 1,2-, 1,3- and 1,4-Xylene.
GV: Guidance Value
ST: Standard
---: Not established

Indicates value exceeds standard or guidance value.

TABLE 6b.
TRIMMER ROAD LANDFILL SITE
REMEDIAL INVESTIGATION AND FEASIBILITY STUDY
SURFACE WATER SAMPLE RESULTS
SEMIVOLATILE ORGANIC COMPOUNDS

Sample Identification	**SW-6W**	Contract Required Detection Limit	NYSDEC Class C Standard or Guidance Value
Date of Collection	01/27/00		
Dilution Factor	1.0		
Units	(ug/l)	(ug/L)	(ug/l)
Phenol	U	10	1 ST **
bis(2-Chloroethyl)ether	U	10	---
2-Chlorophenol	U	10	1 ST *
1,3-Dichlorobenzene	U	10	5 ST ***
1,4-Dichlorobenzene	U	10	5 ST ***
1,2-Dichlorobenzene	U	10	5 ST ***
2-Methylphenol	U	10	1 ST *
2,2-Oxybis (1-Chloropropane)	U	10	---
4-Methylphenol	U	10	1 ST *
N-Nitroso-di-n-propylamine	U	10	---
Hexachloroethane	U	10	0.6 ST
Nitrobenzene	U	10	---
Isophorone	U	10	---
2-Nitrophenol	U	10	1 ST *
2,4-Dimethylphenol	U	10	1 ST *
2,4-Dichlorophenol	U	10	1 ST *
1,2,4-Trichlorobenzene	U	10	5 ST
Naphthalene	U	10	13 GV
4-Chloroaniline	U	10	---
bis(2-Chloroethoxy)methane	U	10	---
Hexachlorobutadiene	U	10	0.01 ST
4-Chloro-3-methylphenol	U	10	1 ST *
2-Methylnaphthalene	U	10	4.7 GV
Hexachlorocyclopentadiene	U	10	0.45 ST
2,4,6-Trichlorophenol	U	10	1 ST *
2,4,5-Trichlorophenol	U	25	1 ST *
2-Chloronaphthalene	U	10	---
2-Nitroaniline	U	25	---
Dimethylphthalate	U	10	---
Acenaphthylene	U	10	---
2,6-Dinitrotoluene	U	10	---
3-Nitroaniline	U	25	---
Acenaphthene	U	10	5.3 GV
2,4-Dinitrophenol	U	25	5 ST **
4-Nitrophenol	U	25	1 ST *
Dibenzofuran	U	10	---

TABLE 6b. (CONTINUED)
TRIMMER ROAD LANDFILL SITE
REMEDIAL INVESTIGATION AND FEASIBILITY STUDY
SURFACE WATER SAMPLE RESULTS
SEMIVOLATILE ORGANIC COMPOUNDS

Sample Identification	**SW-6W**	Contract Required Detection Limit	NYSDEC Class C Standard or Guidance Value
Date of Collection	01/27/00		
Dilution Factor	1.0		
Units	ug/l	(ug/l)	(ug/l)
2,4-Dinitrotoluene	U	10	---
Diethylphthalate	U	10	---
4-Chlorophenyl-phenylether	U	10	---
Fluorene	U	10	0.54 GV
4-Nitroaniline	U	25	---
4,6-Dinitro-2-methylphenol	U	25	1 ST *
N-Nitrosodiphenylamine	U	10	---
4-Bromophenyl-phenylether	U	10	---
Hexachlorobenzene	U	10	3E-5 ST
Pentachlorophenol	U	25	1 ST ****
Phenanthrene	U	10	5 GV
Anthracene	U	10	3.8 GV
Carbazole	U	10	---
Di-n-butylphthalate	U	10	---
Fluoranthene	U	10	---
Pyrene	U	10	4.6 GV
Butylbenzylphthalate	U	10	---
3,3'-Dichlorobenzidine	U	10	---
Benzo (a) anthracene	U	10	0.03 GV
Chrysene	U	10	---
bis(2-Ethylhexyl)phthalate	U	10	0.6 ST
Di-octylphthalate	U	10	---
Benzo(b)fluoranthene	U	10	---
Benzo(k)fluoranthene	U	10	---
Benzo(a)pyrene	U	10	1.2E-3 GV
Indeno(1,2,3-cd)pyrene	U	10	---
Dibenzo(a,h)anthracene	U	10	---
Benzo(g,h,i)perylene	U	10	---
Total PAHs	0		
Total Carcinogen PAHs	0		
Total SVOCs	0		
Total SVOC TICs			

QUALIFIERS:

J: Compound found at a concentration below the detection limit

U: Compound analyzed for but not detected

B: Compound found in the method blank as well as the

* : Applies to Total Phenols

** : Applies to the sum of Unchlorinated Phenols

***: Applies to the sum of 1,2-, 1,3- and 1,4-Dichlorobenzene

**** : Applies to the sum of Chlorinated Phenols

TABLE 6c.
TRIMMER ROAD LANDFILL SITE
REMEDIAL INVESTIGATION AND FEASIBILITY STUDY
SURFACE WATER SAMPLE RESULTS
PESTICIDE/PCBs

Sample Identification	**SW-6W**	Contract Required Detection Limit	NYSDEC Class C Standard or Guidance Value
Date of Collection	01/27/00		
Dilution Factor	1.0		
Units	(ug/l)	(ug/l)	(ug/l)
alpha-BHC	U	0.05	---
beta-BHC	U	0.05	---
delta-BHC	U	0.05	---
gamma-BHC (Lindane)	U	0.05	---
Heptachlor	U	0.05	2E-4 ST
Aldrin	U	0.05	1E-3 ST **
Heptachlor Epoxide	U	0.05	3E-4 ST
Endosulfan I	U	0.05	9E-3 ST ***
Dieldrin	U	0.10	6E-7 ST
4,4'-DDE	U	0.10	7E-6 ST
Endrin	U	0.10	2E-3 ST
Endosulfan II	U	0.10	9E-3 ST ***
4,4'-DDD	U	0.10	1E-5 ST
Endosulfan Sulfate	U	0.10	9E-3 ST ***
4,4'-DDT	U	0.10	1E-5 ST
Methoxychlor	U	0.50	0.03 ST
Endrin Ketone	U	0.10	---
Endrin Aldehyde	U	0.10	---
alpha-Chlordane	U	0.05	2E-5 ST ****
gamma-Chlordane	U	0.05	2E-5 ST ****
Toxaphene	U	5.0	6E-6 ST
Aroclor-1016	U	1.0	1E-6 ST *
Aroclor-1221	U	2.0	1E-6 ST *
Aroclor-1232	U	1.0	1E-6 ST *
Aroclor-1242	U	1.0	1E-6 ST *
Aroclor-1248	U	1.0	1E-6 ST *
Aroclor-1254	U	1.0	1E-6 ST *
Aroclor-1260	U	1.0	1E-6 ST *
Total PCBs	0.0		

QUALIFIERS:
U: Compound analyzed for but not detected
*: Applies to the sum of the isomers
**: Applies to the sum of Aldrin and Dieldrin
*** : The value is the one listed for "Endosulfan"
**** : The value is the one listed for "Chlordane"

TABLE 6d.
TRIMMER ROAD LANDFILL SITE
REMEDIAL INVESTIGATION AND FEASIBILITY STUDY
SURFACE WATER SAMPLE RESULTS - JUNE 2000
INORGANIC PARAMETERS - UNFILTERED

Sample Identification	SW-1	SW-2	SW-3	SW-4	SW-5	SW-6W	SW-6	Instrument	NYSDEC Class C Surface Water
Date of Collection	06/08/00	06/09/00	06/09/00	06/09/00	06/09/00	1/27/00	06/09/00	Detection	Standard or
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	Limit	Guidance Value
Units	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)
Aluminum	161 B	115 B	562	211	125 B	100 B	255	9	100 ST
Antimony	U	U	U	U	U	U	U	4	---
Arsenic	U	U	U	U	U	U	U	2	150 ST *
Barium	101 B	165 B	61.8 B	59.8 B	50.9 B	74.3 B	59.6 B	2	---
Beryllium	U	U	U	U	U	U	U	0.2	**
Cadmium	0.22 B	0.65 B	0.25 B	0.30 B	U	U	U	0.2	***
Calcium	63,500	106,000	32,700	35,700	30,600	44,000	35,000	234	---
Chromium	0.80 B	U	1.1 B	1.0 B	0.73 B	U	0.88 B	0.6	^
Cobalt	U	2.5 B	0.82 B	U	U	U	U	0.7	5 ST
Copper	1.3 B	3.4 B	1.8 B	1.1 B	0.64 B	U	0.52 B	5	200 ST ^^
Iron	850	6,620	1,240	612	486	231	721	2	300 ST
Lead	U	U	U	U	U	U	U	2	^^^
Magnesium	12,300	23,500	8,370	8,490	7,740	10,300	8,180	2	---
Manganese	91.8	425	71.3	28.8	22.9	28.6	36.0	0.9	---
Mercury	U	U	U	U	U	U	U	0.1	0.0007 ST
Nickel	2.1 B	10.8 B	2.5 B	2.1 B	1.7 B	1.4 B	1.9 B	0.9	100 ST ~
Potassium	4,010 B	31,100	4,510 B	4,980 B	4,280 B	11,800	4,930 B	320	---
Selenium	12.3	10.1	5.9	7.2	6.7	U	7.5	3	4.6 ST
Silver	U	U	U	U	U	U	U	2	0.1 ST
Sodium	40,200	42,400	16,000	16,900	15,100	29,200	16,000	132	---
Thallium	U	U	U	U	U	U	U	2	8 ST
Vanadium	0.54 B	U	1.2 B	0.76 B	0.63 B	13.9 B	0.81 B	0.6	14 ST
Zinc	5.1 B	6.1 B	9.2 B	7.9 B	2.1 B	9.4 B	2.9 B	2	2,000 ST ~~
Cyanide	U	U	U	U	U	6.8 B	U	2	5.2 ST ~~~
Hardness (as CaCO3)	209,000	361,000	116,000	124,000	108,000	NA	121,000	180	---

NOTES:

NA - not analyzed

* : Dissolved arsenic form

** : 11 ug/l when hardness is less than or equal to 75 ppm and 1,100 ug/l when hardness is greater than 75 ppm

*** : (0.85) exp(1.128 [ln (ppm hardness)] - 3.6867)

^ : (0.316) exp(0.819 [ln (ppm hardness)] + 3.7256)

^^ : (0.96) exp(0.9422 [ln (ppm hardness)] - 1.7)

^^^ : {1.46203 - [ln (hardness) (0.145712)]} exp (1.273 [ln (hardness)] - 1.052)

~ :(0.998) exp (0.846 [ln (hardness)] + 2.255)

~~ : 0.978 exp(0.8473 [ln (ppm hardness)] + 0.884)

~~~ : As free cyanide: the sum of HCN and CN- expressed as CN

QUALIFIERS:

U: Compound analyzed for but not detected

B: Compound concentration is less than the CRDL but greater than the IDL.

Indicates value exceeds standard or guidance value.
~~~

TABLE 6d. (CONTINUED)
TRIMMER ROAD LANDFILL SITE
REMEDIAL INVESTIGATION AND FEASIBILITY STUDY
SURFACE WATER SAMPLE RESULTS - JUNE 2000
INORGANIC PARAMETERS - UNFILTERED

Sample Identification	SW-7	SW-8	SW-9	SW-10	SW-11	SW-12	Instrument Detection Limit	NYSDEC Class C Surface Water Standard or Guidance Value
Date of Collection	06/09/00	06/07/00	06/07/00	06/07/00	06/09/00	06/09/00		
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0		
Units	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)
Aluminum	522	34.2 B	124 B	151 B	293	702	9	100 ST
Antimony	U	U	U	U	U	U	4	---
Arsenic	U	U	U	U	U	U	2	150 ST *
Barium	70.1 B	159 B	127 B	144 B	221	176 B	2	---
Beryllium	U	U	U	U	U	U	0.2	**
Cadmium	0.22 B	U	U	U	0.40 B	0.31 B	0.2	***
Calcium	36,600	91,000	76,200	76,700	62,200	121,000	234	---
Chromium	1.3 B	U	0.68 B	0.56 B	5.4 B	0.42 B	0.6	^
Cobalt	0.74 B	U	U	U	10.2 B	4.7 B	0.7	5 ST
Copper	0.86 B	2.3 B	2.0 B	1.9 B	4.4 B	6.0 B	5	200 ST '^^
Iron	1,300	128	260	274	1,280	825	2	300 ST
Lead	U	U	U	U	U	U	2	^^^
Magnesium	8,770	25,300	20,600	19,100	42,800	35,500	2	---
Manganese	125	35.3	36.0	63.0	597	1,030	0.9	---
Mercury	U	U	U	U	U	U	0.1	0.0007 ST
Nickel	2.5 B	2.4 B	2.0 B	1.8 B	26.7 B	10.5 B	0.9	100 ST ~
Potassium	5,210	5,020	4,280 B	2,930 B	162,000	58,500	320	---
Selenium	6.1	10.5	11.6	14.9	8.5	12.0	3	4.6 ST
Silver	U	U	U	U	U	U	2	0.1 ST
Sodium	17,600	59,000	47,500	48,400	277,000	76,900	132	---
Thallium	U	U	U	U	U	U	2	8 ST
Vanadium	1.4 B	0.55 B	0.96 B	0.74 B	0.66 B	2.3 B	0.6	14 ST
Zinc	4.7 B	U	1.0 B	1.4 B	26.3	3.8 B	2	2,000 ST ~~
Cyanide	U	U	U	U	2.2 B	U	2	5.2 ST ~~~
Hardness (as CaCO3)	128,000	331,000	275,000	270,000	332,000	448,000	180	---

NOTES:
* : Dissolved arsenic form
** : 11 ug/l when hardness is less than or equal to 75 ppm and 1,100 ug/l when hardness is greater than 75 ppm
*** : (0.85) exp(1.128 [ln (ppm hardness)] - 3.6867)
^ : (0.316) exp(0.819 [ln (ppm hardness)] + 3.7256)
^^ : (0.96) exp(0.9422 [ln (ppm hardness)] - 1.7)
^^^ : {1.46203 - [ln (hardness) (0.145712)]} exp (1.273 [ln (hardness)] - 1.052)
~ :(0.998) exp (0.846 [ln (hardness)] + 2.255)
~~ : 0.978 exp(0.8473 [ln (ppm hardness)] + 0.884)
~~~ : As free cyanide: the sum of HCN and CN- expressed as CN

QUALIFIERS:
U: Compound analyzed for but not detected
B: Compound concentration is less than the CRDL but greater than the IDL.

Indicates value exceeds standard or guidance value.
~~~

TABLE 7a.
TRIMMER ROAD LANDFILL SITE
REMEDIAL INVESTIGATION AND FEASIBILITY STUDY
SURFACE WATER SEDIMENT SAMPLE RESULTS
VOLATILE ORGANICS

Sample Identification	SD-1		SD-2		SD-3		SD-4		SD-6				
Sample Depth	0-3"		0-3"		0-3"		0-3"		0-3"				
Date of Collection	06/08/00		06/09/00		06/09/00		06/09/00		06/09/00		Contract Required Detection Limit	NYSDEC Sediment Criteria	Protection Level
Dilution Factor	1.0		1.0		1.0		1.0		1.0				
Percent Solids	69		72		83		68		62				
Total Organic Carbon (%)	0.46	N	1.00	N	0.87	N	0.26	N	1.03	N			
Units	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/gOC)	
Chloromethane	U	---	U	---	U	---	U	---	U	---	10	---	
Bromomethane	U	---	U	---	U	---	U	---	U	---	10	---	
Vinyl Chloride	U	32.2	U	70	U	60.9	U	18.2	U	72.1	10	0.07	HHB
Chloroethane	U	---	U	---	U	---	U	---	U	---	10	---	
Methylene Chloride	3 JB	---	3 JB	---	2 JB	---	2 JB	---	5 JB	---	10	---	
Acetone	U	---	U	---	U	---	U	---	U	---	10	---	
Carbon Disulfide	U	---	U	---	U	---	U	---	U	---	10	---	
1,1-Dichloroethene	U	9.2	U	20	U	17.4	U	5.2	U	20.6	10	0.02	HHB
1,1-Dichloroethane	U	---	2 J	---	U	---	U	---	U	---	10	---	
1,2-Dichloroethene (total)	U	---	U	---	U	---	U	---	U	---	10	---	
Chloroform	U	---	U	---	U	---	U	---	U	---	10	---	
1,2-Dichloroethane	U	322	U	700	U	609	U	182	U	721	10	0.7	HHB
2-Butanone	U	---	U	---	U	---	U	---	U	---	10	---	
1,1,1-Trichloroethane	17	---	9 J	---	9 J	---	3 J	---	2 J	---	10	---	
Carbon Tetrachloride	U	276	U	600	U	522	U	156	U	618	10	0.6	
Bromodichloromethane	U	---	U	---	U	---	U	---	U	---	10	---	
1,2-Dichloropropane	U	---	U	---	U	---	U	---	U	---	10	---	
cis-1,3-Dichloropropene	U	---	U	---	U	---	U	---	U	---	10	---	
Trichloroethene	U	920	6 J	2000	2 J	1740	2 J	520	4 J	2060	10	2	HHB
Dibromochloromethane	U	---	U	---	U	---	U	---	U	---	10	---	
1,1,2-Trichloroethane	U	276	U	600	U	522	U	156	U	618	10	0.6	HHB
Benzene	U	276	U	600	U	522	U	156	U	618	10	0.6	HHB
Trans-1,3-Dichloropropene	U	---	U	---	U	---	U	---	U	---	10	---	
Bromoform	U	---	U	---	U	---	U	---	U	---	10	---	
4-Methyl-2-Pentanone	U	---	U	---	U	---	U	---	U	---	10	---	
2-Hexanone	U	---	U	---	U	---	U	---	U	---	10	---	
Tetrachloroethene	U	368	U	800	U	696	U	208	U	824	10	0.8	HHB
1,1,2,2-Tetrachloroethane	U	138	U	300	U	261	U	78	U	309	10	0.3	HHB
Toluene	U	---	U	---	U	---	U	---	U	---	10	---	
Chlorobenzene	U	1610	1 J	3500	U	3045	U	910	U	3605	10	3.5	BALCT
Ethylbenzene	U	2944	U	6400	U	5568	U	1664	U	6592	10	6.4	BALCT
Styrene	U	---	U	---	U	---	U	---	U	---	10	---	
Total Xylenes	U	12420	U	27000	U	23490	U	7020	U	27810	10	27	BALCT
Total VOCs	20		21		13		7		11				

Qualifiers:

U: Compound analyzed for but not detected

B: Compound found in the blank as well as the sample

J: Compound found at a concentration below the CRDL, value estimated

Notes:

N - Total organic carbon normalized criteria

HHB - Human Health Bioaccumulation

BALCT - Benthic Aquatic Life Chronic Toxicity

Notes:

---: not established

Indicates value exceeds recommended soil clean-up objective.

TABLE 7b.
TRIMMER ROAD LANDFILL SITE
REMEDIAL INVESTIGATION AND FEASIBILITY STUDY
SURFACE WATER SEDIMENT SAMPLE RESULTS
SEMIVOLATILE ORGANIC COMPOUNDS

Sample Identification	SD-1		SD-2		SD-3		SD-4		SD-6				
Sample Depth	0-3"		0-3"		0-3"		0-3"		0-3"				
Date of Collection	06/08/00		06/09/00		06/09/00		06/09/00		06/09/00				
Dilution Factor	1		1		1		1		1				
Percent Solids	69		75		76		77		56		Contract Required Detection Limit	NYSDEC Sediment Criteria	Protection Level
Total Organic Carbon (%)	0.46	N	1.00	N	0.87	N	0.26	N	1.03	N			
Units	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/gOC)	
Phenol	360 J	276	320 J	600	440	522	180 J	156	310 J	618	330	0.6	BALCT
bis (2-Chloroethyl) ether	U	---	U	---	U	---	U	---	U	---	330	---	
2-Chlorophenol	U	---	U	---	U	---	U	---	U	---	330	---	
1,3-Dichlorobenzene	U	5520	U	12000	U	10440	U	3120	U	12360	330	12	BALCT
1,4-Dichlorobenzene	U	5520	U	12000	U	10440	U	3120	U	12360	330	12	BALCT
1,2-Dichlorobenzene	U	5520	U	12000	U	10440	U	3120	U	12360	330	12	BALCT
2-Methylphenol	U	---	U	---	U	---	U	---	U	---	330	---	
2,2'-Oxybis (1-Chloropropane)	U	---	U	---	U	---	U	---	U	---	330	---	
4-Methylphenol	U	---	U	---	U	---	U	---	U	---	330	---	
N-Nitroso-di-n-propylamine	U	---	U	---	U	---	U	---	U	---	330	---	
Hexachloroethane	U	---	U	---	U	---	U	---	U	---	330	---	
Nitrobenzene	U	---	U	---	U	---	U	---	U	---	330	---	
Isophorone	U	---	U	---	U	---	U	---	U	---	330	---	
2-Nitrophenol	U	---	U	---	U	---	U	---	U	---	330	---	
2,4-Dimethylphenol	U	---	U	---	U	---	U	---	U	---	330	---	
bis (2-Chloroethoxy) methane	U	---	U	---	U	---	U	---	U	---	330	---	
2,4-Dichlorophenol	U	---	U	---	U	---	U	---	U	---	330	---	
1,2,4-Trichlorobenzene	U	---	U	---	U	---	U	---	U	---	330	---	
Naphthalene	U	13800	U	30000	U	26100	U	7800	U	30900	330	30	BALCT
4-Chloroaniline	U	---	U	---	U	---	U	---	U	---	330	---	
Hexachlorobutadiene	U	138	U	300	U	261	U	78	U	309	330	0.3	HHB
4-Chloro-3-methylphenol	U	---	U	---	U	---	U	---	U	---	330	---	
2-Methylnaphthalene	U	15640	U	34000	U	29580	U	8840	U	35020	330	34	BALCT
Hexachlorocyclopentadiene	U	2024	U	4400	U	3828	U	1144	U	4532	330	4.4	BALCT
2,4,6-Trichlorophenol	U	---	U	---	U	---	U	---	U	---	330	---	
2,4,5-Trichlorophenol	U	---	U	---	U	---	U	---	U	---	800	---	
2-Chloronaphthalene	U	---	U	---	U	---	U	---	U	---	330	---	
2-Nitroaniline	U	---	U	---	U	---	U	---	U	---	800	---	
Dimethylphthalate	U	---	U	---	U	---	U	---	U	---	330	---	
Acenaphthylene	U	64400	U	140000	U	1E+05	U	36400	U	144200	330	140	BALCT
2,6-Dinitrotoluene	U	---	U	---	U	---	U	---	U	---	330	---	
3-Nitroaniline	U	---	U	---	U	---	U	---	U	---	800	---	
Acenaphthene	U	---	U	---	U	---	U	---	U	---	330	---	
2,4-Dinitrophenol	U	---	U	---	U	---	U	---	U	---	800	---	
4-Nitrophenol	U	---	U	---	U	---	U	---	U	---	800	---	

TABLE 7b. (CONTINUED)
TRIMMER ROAD LANDFILL SITE
REMEDIAL INVESTIGATION AND FEASIBILITY STUDY
SURFACE WATER SEDIMENT SAMPLE RESULTS
SEMIVOLATILE ORGANIC COMPOUNDS

Sample Identification	SD-1		SD-2		SD-3		SD-4		SD-6				
Sample Depth	0-3"		0-3"		0-3"		0-3"		0-3"		Contract Required Detection Limit	NYSDEC Sediment Criteria (ug/gOC)	Protection Level
Date of Collection	06/08/00		06/09/00		06/09/00		06/09/00		06/09/00				
Dilution Factor	1		1		1		1		1				
Percent Solids	69		75		76		77		56				
Total Organic Carbon (%)	0.46	N	1.00	N	0.87	N	0.26	N	1.03	N			
Units	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)		
Dibenzofuran	U	---	U	---	U	---	U	---	U		330	---	
2,4-Dinitrotoluene	U	---	U	---	U	---	U	---	U		330	---	
Diethylphthalate	U	---	U	---	U	---	U	---	U		330	---	
4-Chlorophenyl-phenylether	U	---	U	---	U	---	U	---	U		330	---	
Fluorene	U	3680	U	8000	U	6960	U	2080	U		330	8	BALCT
4-Nitroaniline	U	---	U	---	U	---	U	---	U		330	---	
4,6-Dinitro-2-methylphenol	U	---	U	---	U	---	U	---	U		330	---	
N-Nitrosodiphenylamine	U	---	U	---	U	---	U	---	U		330	---	
4-Bromophenyl-phenylether	U	---	U	---	U	---	U	---	U		330	---	
Hexachlorobenzene	U	69	U	150	U	130.5	U	39	U		330	0.15	HHB
Pentachlorophenol	U	18400	U	40000	U	34800	U	10400	U		330	40	BALCT
Phenanthrene	U	55200	U	120000	U	1E+05	U	31200	U		330	120	BALCT
Anthracene	U	49220	U	107000	U	93090	U	27820	U		330	107	BALCT
Carbazole	U	---	U	---	U	---	U	---	U		330	---	
Di-n-butylphthalate	U	---	U	---	U	---	U	---	U		330	---	
Fluoranthene	U	469200	U	1E+06	U	9E+05	U	265200	U		330	1020	BALCT
Pyrene	U	442060	U	961000	U	8E+05	U	249860	U		330	961	BALCT
Butylbenzylphthalate	U	---	U	---	U	---	U	---	U		330	---	
3,3'-Dichlorobenzidine	U	---	U	---	U	---	U	---	U		330	---	
Benzo (a) anthracene	U	5520	U	12000	U	10440	U	3120	U		330	12	BALCT
Chrysene	U	598	U	1300	U	1131	U	338	U		330	1.3	HHB
bis (2-Ethylhexyl) phthalate	270 J	91770	320 J	199500	230 J	2E+05	210 J	51870	340 J		330	199.5	BALCT
Di-n-octylphthalate	U	---	U	---	U	---	U	---	U		330	---	
Benzo (b) fluoranthene	U	598	U	1300	U	1131	U	338	U		330	1.3	HHB
Benzo (k) fluoranthene	U	598	U	1300	U	1131	U	338	U		330	1.3	HHB
Benzo (a) pyrene	U	598	U	1300	U	1131	U	338	U		330	1.3	HHB
Indeno (1,2,3-cd) pyrene	U	598	U	1300	U	1131	U	338	U		330	1.3	HHB
Dibenzo (a,h) anthracene	U	---	U	---	U	---	U	---	U		330	---	
Benzo (g,h,i) perylene	U	---	U	---	U	---	U	---	U		330	---	
Total PAHs	0		0		0		0		0				
Total Carcinogen PAHs	0		0		0		0		0				
Total SVOCs	630		640		670		390		650				

Qualifiers:
J: Compound found at a concentration below the detection limit
U: Compound analyzed for but not detected
B: Compound found in the method blank as well as the sample

Notes:
N - Total organic carbon normalized criteria
HHB - Human Health Bioaccumulation
BALCT - Benthic Aquatic Life Chronic Toxicity
MDL - method detection limit
----: not established

Indicates value exceeds NYSDEC soil clean-up objective.

TABLE 7c.
TRIMMER ROAD LANDFILL SITE
REMEDIAL INVESTIGATION AND FEASIBILITY STUDY
SEDIMENT SAMPLING RESULTS - JUNE 2000
PESTICIDE/PCBs

Sample Identification	SD-1		SD-2		SD-3		SD-4		SD-6				
Sample Depth	0-3"		0-3"		0-3"		0-3"		0-3"		Contract Required Detection Limit		
Date of Collection	06/08/00		06/09/00		06/09/00		06/09/00		06/09/00				
Dilution Factor	1		1		1		1		1				
Percent Solids	69		75		76		77		56			NYSDEC Sediment Criteria (ug/gOC)	Protection Level
Total Organic Carbon (%)	0.46	N	1.00	N	0.87	N	0.26	N	1.03	N			
Units	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)		
alpha-BHC	U	---	U	---	U	---	U	---	U	---	0.05	---	
beta-BHC	U	---	U	---	U	---	U	---	U	---	0.05	---	
delta-BHC	U	---	U	---	U	---	U	---	U	---	0.05	---	
gamma-BHC (Lindane)	U	---	U	---	U	---	U	---	U	---	0.05	---	
Heptachlor	U	0.368	U	0.8	U	0.696	U	0.21	U	0.824	0.05	0.0008	HHB
Aldrin	U	46	U	100	U	87	U	26	U	103	0.05	0.1	HHB
Heptachlor Epoxide	U	---	U	---	U	---	U	---	U	---	0.05	---	
Endosulfan I	U	13.8	U	30	U	26.1	U	7.8	U	30.9	0.05	0.03	BALCT
Dieldrin	U	46	U	100	U	87	U	26	U	103	0.10	0.1	HHB
4,4'-DDE	U	4.6	U	10	U	8.7	U	2.6	U	10.3	0.10	0.01	HHB
Endrin	U	368	U	800	U	696	U	208	U	824	0.10	0.8	HHB
Endosulfan II	U	---	U	---	U	---	U	---	U	---	0.10	---	
4,4'-DDD	U	4.6	U	10	U	8.7	U	2.6	U	10.3	0.10	0.01	HHB
Endosulfan Sulfate	U	---	U	---	U	---	U	---	U	---	0.10	---	
4,4'-DDT	U	4.6	U	10	U	8.7	U	2.6	U	10.3	0.10	0.01	HHB
Methoxychlor	U	276	U	600	U	522	U	156	U	618	0.50	0.6	BALCT
Endrin Ketone	U	---	U	---	U	---	U	---	U	---	0.10	---	
Endrin Aldehyde	U	---	U	---	U	---	U	---	U	---	0.10	---	
alpha-Chlordane	U	0.46	U	1	U	0.87	U	0.26	U	1.03	0.05	0.001	HHB
gamma-Chlordane	U	0.46	U	1	U	0.87	U	0.26	U	1.03	0.05	0.001	HHB
Toxaphene	U	4.6	U	10	U	8.7	U	2.6	U	10.3	5.0	0.01	BALCT
Aroclor-1016	U	0.368	U	0.8	U	0.696	U	0.21	U	0.824	1.0	0.0008	HHB
Aroclor-1221	U	0.368	U	0.8	U	0.696	U	0.21	U	0.824	2.0	0.0008	HHB
Aroclor-1232	U	0.368	U	0.8	U	0.696	U	0.21	U	0.824	1.0	0.0008	HHB
Aroclor-1242	U	0.368	U	0.8	U	0.696	U	0.21	U	0.824	1.0	0.0008	HHB
Aroclor-1248	U	0.368	U	0.8	U	0.696	U	0.21	U	0.824	1.0	0.0008	HHB
Aroclor-1254	U	0.368	U	0.8	U	0.696	U	0.21	U	0.824	1.0	0.0008	HHB
Aroclor-1260	U	0.368	U	0.8	U	0.696	U	0.21	U	0.824	1.0	0.0008	HHB
Total PCBs	0.0		0.0		0.0		0.0		0.0				

Qualifiers:

U: Compound analyzed for but not detected

J: Compound found at a concentration below the CRDL, value estimated

P: Greater than 25% difference for detected concentrations between the two GC columns

Notes:

----: not established

***: Total pesticides not to exceed 10,000 ug/kg

*: Value refers to the sum of these compounds

Notes:

N - Total organic carbon normalized criteria

HHB - Human Health Bioaccumulation

BALCT - Benthic Aquatic Life Chronic Toxicity

Indicates value exceeds NYSDEC recommended soil clean-up objective

TABLE 7d.
TRIMMER ROAD LANDFILL SITE
REMEDIAL INVESTIGATION AND FEASIBILITY STUDY
SEDIMENT SAMPLING RESULTS - JUNE 2000
INORGANICS

Sample Identification	SD-1	SD-2	SD-3	SD-4	SD-6		NYSDEC Sediment Criteria for Metals* Lowest Effect Level	NYSDEC Sediment Criteria for Metals* Severe Effect Level
Sample Depth	0-3"	0-3"	0-3"	0-3"	0-3"			
Date of Collection	06/08/00	06/09/00	06/09/00	06/09/00	06/09/00	Instrument Detection Limit		
Dilution Factor	1	1	1	1	1			
Percent Solids	69	79	78	69	70			
Units	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(ug/l)	(mg/kg)	(mg/kg)
Aluminum	54,300	4,530	4,430	6,960	9,860	13	--	--
Antimony	12.5 B	U	U	U	U	8	2	25
Arsenic	49.2	5.6	2.3	1.2 B	3.1	3	6	33
Barium	2,760	50.1	39.2 B	95.3	108	1	--	--
Beryllium	4.1 B	0.29 B	0.27 B	0.32 B	0.48 B	1	--	--
Cadmium	16.9	1.7	0.72 B	0.98 B	1.3 B	1	0.6	9
Calcium	12,900	15,500	7,460	1,540	2,130	8	--	--
Chromium	78.7	9.0	7.1	10.2	13.4	1	26	110
Cobalt	155	8.8 B	6.0 B	6.0 B	8.7 B	2	--	--
Copper	5.6 B	3.3 B	5.1 B	1.5 B	1.9 B	1	16	110
Iron	213,000	28,500	12,800	13,500	20,800	20	20,000	40,000
Lead	25.7	4.3	2.9	5.3	6.3	2	31	110
Magnesium	15,500	3,810	2,780	2,440	3,310	8	--	--
Manganese	24,500	462	247	221	353	4	460	1100
Mercury	U	U	U	U	U	0.2	0.15	1.3
Nickel	99.3	13.9	12.0	12.5	16.3	2	16	50
Potassium	506 B	237 B	566 B	739 B	1,080 B	20	--	--
Selenium	21.6	U	U	U	U	4	--	--
Silver	21.6	2.8	1.4 B	1.1 B	1.8 B	1	1	2.2
Sodium	1,690 B	348 B	218 B	120 B	201 B	9	--	--
Thallium	11.1 B	1.6 B	U	U	2.2 B	5	--	--
Vanadium	219	15.0	10.2 B	15.7	20.8	1	--	--
Zinc	569	91.1	41.6	35.3	67.1	1	120	270
Cyanide	U	U	U	U	U	10	--	--

Qualifiers:
U: Compound analyzed for but not detected
B: Compound concentration is less than the CRDL but greater than the IDL.

Notes:
To determine the detection limit for each sample, use the following equation: (CRDL)*(DF)*(100/%S) where CRDL = contract required detection limit, DF = dilution factor and %S = percent solids.
*: as per January 22, 1999 NYSDEC Technical Guidance for Screening Contaminated Sediment
--: not established

Indicates value exceeds the NYSDEC recommended soil clean-up objective

TABLE 7e.
TRIMMER ROAD LANDFILL SITE
REMEDIAL INVESTIGATION AND FEASIBILITY STUDY
SEDIMENT SAMPLING RESULTS - JUNE 2000
TOTAL ORGANIC CARBON

Sample Identification	**SD-1**	**SD-2**	**SD-3**	**SD-4**	**SD-6**	Instrument Detection Limit
Sample Depth	0-3"	0-3"	0-3"	0-3"	0-3"	
Date of Collection	06/08/00	06/09/00	06/09/00	06/09/00	06/09/00	
Units	%	%	%	%	%	%
Total Organic Carbon	0.46	1.00	0.87	0.26	1.03	0.10

TABLE 8a.
TRIMMER ROAD LANDFILL SITE
REMEDIAL INVESTIGATION AND FEASIBILITY STUDY
PRIVATE WATER SUPPLY SAMPLE RESULTS
VOLATILE ORGANIC COMPOUNDS

Sample Identification	DW- 1	DW- 2	DW- 3	DW- 4	DW- 5	DW -6	DW- 7	DW- 8	Contract Required Detection Limit	NYSDOH Drinking Water Maximum Contaminant Level
Date of Collection	6/13/00	6/13/00	6/13/00	6/14/00	6/14/00	6/14/00	6/14/00	6/14/00		
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
Units	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)
Chloromethane	U	U	U	U	U	U	U	U	1	5
Bromomethane	U	U	U	U	U	U	U	U	1	5
Vinyl Chloride	U	U	U	U	U	U	U	U	1	5
Chloroethane	U	U	U	U	U	U	U	U	1	5
Methylene Chloride	U	U	U	U	U	U	U	U	2	5
Acetone	U	U	U	U	U	U	U	U	5	5
Carbon Disulfide	U	U	U	U	U	U	U	U	1	5
1,1-Dichloroethene	U	U	U	U	U	U	U	U	1	5
1,1-Dichloroethane	U	U	U	U	U	U	U	U	1	5
1,2-Dichloroethene (total)	U	U	U	U	U	U	U	U	1	5
Chloroform	U	U	U	U	U	U	U	U	1	5
1,2-Dichloroethane	U	U	U	U	U	U	U	U	1	5
2-Butanone	U	U	U	U	U	U	U	U	5	5
1,1,1-Trichloroethane	U	U	U	U	U	U	U	U	1	5
Carbon Tetrachloride	U	U	U	U	U	U	U	U	1	5
Bromodichloromethane	U	U	U	U	U	U	U	U	1	5
1,2-Dichloropropane	U	U	U	U	U	U	U	U	1	5
cis-1,3-Dichloropropene	U	U	U	U	U	U	U	U	1	5
Trichloroethene	U	U	U	U	U	U	U	U	1	5
Dibromochloromethane	U	U	U	U	U	U	U	U	1	5
1,1,2-Trichloroethane	U	U	U	U	U	U	U	U	1	5
Benzene	U	U	U	U	U	U	U	U	1	5
Trans-1,3-Dichloropropene	U	U	U	U	U	U	U	U	1	5
Bromoform	U	U	U	U	U	U	U	U	1	5
4-Methyl-2-Pentanone	U	U	U	U	U	U	U	U	5	5
2-Hexanone	U	U	U	U	U	U	U	U	1	5
Tetrachloroethene	U	U	U	U	U	U	U	U	1	5
1,1,2,2-Tetrachloroethane	U	U	U	U	U	U	U	U	1	5
Toluene	U	U	U	U	U	U	U	U	1	5
Chlorobenzene	U	U	U	U	U	U	U	U	1	5
Ethylbenzene	U	U	U	U	U	U	U	U	1	5
Styrene	U	U	U	U	U	U	U	U	1	5
Total Xylenes	U	U	U	U	U	U	U	U	1	5
Total VOCs	0	0	0	0	0	0	0	0		100

QUALIFIERS:

U: Compound analyzed for but not detected

B: Compound found in the blank as well as the sample

J: Compound found at a concentration below the CRDL, value estimated

D: Value is a result of analysis with a dilution factor of 2.0

U*: Result qualified as non-detect based upon validation criteria

NOTES:

Indicates value exceeds standard or guidance value.

TABLE 8b.
TRIMMER ROAD LANDFILL SITE
REMEDIAL INVESTIGATION AND FEASIBILITY STUDY
PRIVATE WATER SUPPLY SAMPLE RESULTS
INORGANIC PARAMETERS - UNFILTERED

Sample Identification	DW- 1	DW- 2 #	DW- 3 #*	DW- 4 *	DW- 5	DW -6 *	DW- 7 *	DW- 8	Instrument	NYSDOH Drinking Water
Date of Collection	6/13/00	6/13/00	6/13/00	6/14/00	6/14/00	6/14/00	6/14/00	6/14/00	Detection	Maximum
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	Limit	Contaminant Level
Units	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)
Aluminum	U	U	103 B	U	U	18 B	U	U	12	---
Antimony	U	U	U	U	U	U	U	U	5	6
Arsenic	U	U	U	U	U	U	U	U	4	50
Barium	334	260	300	121 B	114 B	197 B	202	61 B		2,000
Beryllium	U	U	U	U	U	U	U	U	0.2	4
Cadmium	U	0.83 B	0.33 B	0.22 B	0.85 B	0.28 B	U	U	0.2	5
Calcium	66,500	140,000	156,000	90,500	50,100	144,000	56,600	90,600		---
Chromium	U	U	U	U	U	U	U	U	0.4	100
Cobalt	U	U	U	U	U	U	U	U	0.6	---
Copper	4 B	U	9.1 B	49.2	5.6 B	U	6.9 B	13 B		---
Iron	40 B	13,200	249	8.7 B	131	1,070	25 B	6.9 B		300^
Lead	U	U	U	U	8.5	U	U	U	3	---
Magnesium	12,700	26,500	30,200	32,700	136,000	28,700	10,300	29,400		---
Manganese	1.4 B	242	43.7	0.82 B	5.9 B	14.2 B	U	8 B	0.8	300
Mercury	U	U	U	U	U	U	U	U	0.13	2
Nickel	0.77 B	2.1 B	1.6 B	3.8 B	0.85 B	2.8 B	0.7 B	1.2 B		---
Potassium	2,990 B	4,850 B	9,950	14,700	1,700 B	12,000	2,210 B	26,500 B		---
Selenium	12.3	20.6	11.5	12.2	8.2	13.9	10.8	9.9		50
Silver	U	U	U	U	U	U	U	U	3	100
Sodium	18,000	75,200	77,400	84,100	14,400	197,000	15,000	58,200		---^^
Thallium	U	U	U	U	U	U	U	U	6	2
Vanadium	U	0.59 B	0.68 B	U	1 B	U	U	0.8 B	0.5	---
Zinc	8.2 B	24	72.6	27.7	77.6 B	3.9 B	5.4 B	7.6 B		5,000
Cyanide	U	U	U	U	U	U	U	U	2	200

QUALIFIERS:
U: Compound analyzed for but not detected
B: Compound concentration is less than the CRDL but greater than the IDL.

NOTES:
Sample collected directly from well, not at indoor tap.
* Well is not connected to household drinking supply. Public water is used by residents.
--- no designated limit
^ - The combined standard for iron and manganese is 500 ug/l. Higher levels may be allowed by the State when justified by water supplier.
^^ - Water with > 20,000 ug/l should not be consumed by people with severley restricted sodium diets

Indicates value exceeds standard or guidance value

Table 9.
Trimmer Road Landfill
Soil Gas Survey Results

Grid Location*		Measurements PID	FID	
Northing (ft)	Easting (ft)	(ppm)	(ppm)	Comments
C	1200	0.0	0.0	
C	1400	0.0	0.0	
C	1600	0.0	0.0	
C	1800	0.0	0.0	
C	2000	0.0	0.0	
C	2200	0.0	0.0	
C+100	1500	8.4	0.0	
C+100	1700	6.0	0.6	
C+100	1900	0.5	0.0	Biased sample based on bare spot on ground.
D	1200	0.0	0.0	
D	1400	2.7	0.0	
D	1600	10.8 (12.1)	120 (86)	Grid spacing reduced to 100' near D,1600 based on
D	1800	0.0	0.0	these results. ( ) indicate measurement at same
D	2000	6.8	0.0	point, one day later.
D	2200	0.0	0.0	
D+100	1500	6.8	21.0	
D+100	1700	10.2	39.0	
E	1200	0.0	0.0	
E	1400	0.6	0.0	
E	1600	2.9	0.1	
E	1800	0.9	0.0	
E	2000	6.1	1.1	
E	2200	2.4	0.0	
F	1200	7.2	0.0	
F	1400	0.4	0.0	
F	1600	1.6	0.0	
F	1800	0.0	0.0	
F	2000	0.0	0.0	
F	2200	0.8	0.0	
G	1200	0.2	6.2	
G	1400	0.4	38.0	
G	1600	5.9	3.5	
G	1800	2.2	0.0	
G	2000	6.8	0.0	
G	2200	7.4	0.6	
G+100	1700	0.4	0.0	Biased sample based on bare spot on ground.
H	1200	0.6	46.0	
H	1400	19.8	8.0	
H	1600	12.1	38.0	
H	1800	0.2	0.0	
H	2000	0.4	0.0	
H	2200	12.6	1.2	
I	1200	0.0	0.0	
I	1400	0.0	0.0	
I	1600	0.0	0.0	
I	1800	0.0	12.0	
I	2000	0.0	0.0	
I	2200	0.0	0.0	

*The soil gas survey was conducted on April 19 and 20, 2000. The weather was overcast with no wind and temperatures in the 50's Fahrenheit. Soil probes were advanced to a depth of 1.5 feet below ground surface. The samples were collected at nodes on the grid established for the geophysical survey and depicted in Figure 2-1

TABLE 10a.
TRIMMER ROAD LANDFILL SITE
PRE-DESIGN INVESTIGATION
GROUNDWATER SAMPLE RESULTS - JANUARY 2005
VOLATILE ORGANIC COMPOUNDS

Sample Identification	MW-4S	MW-5S	MW-6S	MW-7S	MW-8S	MW-9S	MW-11	MW-12	MW-13	MW-14	Contract Required Detection Limit	NYSDEC Class GA Groundwater Standard or Guidance Value
Date of Collection	02/05/05	01/20/05	01/20/05	02/05/05	01/20/05	01/20/05	01/20/05	01/20/05	01/20/05	01/20/05		
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
Units	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)
Dichlorodifluoromethane	U	U	2 J	U	U	U	U	U	U	U	10	5 ST
Chloromethane	U	U	U	U	U	U	U	U	U	U	10	5 ST
Vinyl Chloride	90	50	U	U	U	6 J	U	U	11	U	10	2 ST
Bromomethane	U	U	U	U	U	U	U	U	U	U	10	5 ST
Chloroethane	U	13	2 J	U	U	32	U	U	5 J	U	10	5 ST
Trichlorofluoromethane	U	U	U	U	U	U	U	U	U	U	10	5 ST
1,1-Dichloroethene	U	U	U	U	U	U	U	U	U	U	10	5 ST
1,1,2-trichloro-1,2,2-trifluoroethane	U	U	U	U	U	U	U	U	U	U	10	----
Acetone	U	U	U	U	U	U	U	U	U	U	10	50GV
Carbon Disulfide	U	U	U	U	U	U	2 J	U	1 J	U	10	60GV
Methyl Acetate	U	U	U	U	U	U	U	U	U	U	10	----
Methylene Chloride	U	U	U	U	U	U	U	U	U	U	10	5 ST
trans-1,2-dichloroethene	3 J	1 J	U	U	U	U	U	U	U	U	10	5 ST
Methyl tert-Butyl Ether	U	U	U	U	U	U	U	U	U	U	10	10GV
1,1-Dichloroethane	U	1 J	U	U	U	61	U	U	7 J	U	10	5 ST
cis-1,2-Dichloroethene	38	13	U	U	U	8 J	U	U	25	U	10	5 ST
2-Butanone	U	U	U	U	U	U	U	U	U	U	10	50GV
Chloroform	U	U	U	U	U	U	U	U	U	U	10	7 ST
1,1,1-Trichloroethane	U	U	U	U	U	6 J	U	U	1 J	U	10	5 ST
Cyclohexane	U	U	U	U	U	U	U	U	U	U	10	----
Carbon Tetrachloride	U	U	U	U	U	U	U	U	U	U	10	5 ST
Benzene	5 J	7 J	5 J	U	U	6 J	U	U	U	U	10	1 ST
1,2-Dichloroethane	U	U	U	U	U	U	U	U	U	U	10	0.6 ST
Trichloroethene	U	U	U	U	U	4 J	U	U	4 J	U	10	5 ST
Methylcyclohexane	U	U	U	U	U	U	U	U	U	U	10	----
1,2-Dichloropropane	U	U	U	U	U	U	U	U	U	U	10	1 ST
Bromodichloromethane	U	U	U	U	U	U	U	U	U	U	10	50GV
cis-1,3-Dichloropropene	U	U	U	U	U	U	U	U	U	U	10	0.4 ST *
4-Methyl-2-Pentanone	U	U	U	U	U	U	U	U	U	U	10	----
Toluene	U	U	U	U	U	U	U	U	U	U	10	5 ST
Trans-1,3-Dichloropropene	U	U	U	U	U	U	U	U	U	U	10	0.4 ST *
1,1,2-Trichloroethane	U	U	U	U	U	U	U	U	U	U	10	1 ST
Tetrachloroethene	U	U	U	U	U	U	U	U	U	U	10	5 ST
2-Hexanone	U	U	U	U	U	U	U	U	U	U	10	50GV
Dibromochloromethane	U	U	U	U	U	U	U	U	U	U	10	50GV
1,2-Dibromoethane	U	U	U	U	U	U	U	U	U	U	10	----
Chlorobenzene	15	16	9 J	U	U	26	U	U	1 J	2 J	10	5 ST
Ethylbenzene	U	U	U	U	U	U	U	U	U	U	10	5 ST
Total Xylenes	U	U	U	U	U	U	U	U	U	U	10	5 ST
Styrene	U	U	U	U	U	U	U	U	U	U	10	5 ST
Bromoform	U	U	U	U	U	U	U	U	U	U	10	50GV
Isopropylbenzene	U	U	U	U	U	U	U	U	U	U	10	5 ST
1,1,2,2-Tetrachloroethane	U	U	U	U	U	U	U	U	U	U	10	5 ST
1,3-Dichlorobenzene	U	U	U	U	U	U	U	U	U	U	10	3 ST
1,4-Dichlorobenzene	3 J	3 J	2 J	U	U	5 J	U	U	U	U	10	3 ST
1,2-Dichlorobenzene	U	U	U	U	U	1 J	U	U	U	U	10	3 ST
1,2-Dibromo-3-chloropropane	U	U	U	U	U	U	U	U	U	U	10	0.04 ST
1,2,4-Trichlorobenzene	U	U	U	U	U	U	U	U	U	U	10	5 ST
Total VOCs	154	104	20	0	0	155	2	0	55	2		----
Total VOC TICs	71	94	121	0	0	88	0	0	13	7		----

QUALIFIERS:
U: Compound analyzed for but not detected
J: Compound found at a concentration below the CRDL, value estimated
D: Result is taken from reanalysis at a secondary dilution

NOTES:
*: Value pertains to the sum of the isomers
GV: Guidance Value
ST: Standard
----: Not established
Indicates value exceeds standard or guidance value.

TABLE 10b.
TRIMMER ROAD LANDFILL SITE
PRE-DESIGN INVESTIGATION
GROUNDWATER SAMPLE RESULTS - JANUARY 2005
INORGANIC PARAMETERS - FILTERED

Sample Identification	MW-4S	MW-5S	MW-6S	MW-7S	MW-8S	MW-9S	MW-11	MW-12	MW-13	MW-14	Instrument Detection Limit	NYSDEC Class GA Groundwater Standard or Guidance Value
Date of Collection	02/05/05	01/20/05	01/20/05	02/05/05	01/20/05	01/20/05	01/20/05	01/20/05	01/20/05	01/20/05		
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
Units	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)
Aluminum	18.9 B	14.1 B	U	U	U	25.2 B	U	69.2 B	U	U	6	----
Antimony	**4.3 B**	**6.8 B**	**7.4 B**	2.6 B	**7.7 B**	**6.5 B**	**3.9 B**	**5.5 B**	**7.2 B**	**5.4 B**	3	3 ST
Arsenic	20.0	13.5	**41.0**	U	U	13.2	4.2 B	3.3 B	U	8.1 B	3	25 ST
Barium	**1,450**	**1,400**	**1,380**	99.1 B	62.0 B	**1,550**	72.7 B	566	507	531	0.3	1,000 ST
Beryllium	U	U	U	U	U	U	U	U	U	U	0.3	3 GV
Cadmium	U	U	U	U	0.92 B	0.76 B	0.44 B	1.6 B	0.76 B	0.68 B	0.2	5 ST
Calcium	296,000	352,000	354,000	137,000	694,000	288,000	208,000	234,000	310,000	280,000	74	----
Chromium	3.6 B	U	U	0.45 B	U	1.5 B	U	U	U	U	0.4	50 ST
Cobalt	12.3 B	9.8 B	2.2 B	U	1.4 B	21.2 B	4.0 B	3.0 B	3.9 B	4.2 B	0.3	----
Copper	U	U	U	U	U	2.4 B	U	25.8	7.6 B	U	0.9	200 ST
Iron	**2,160**	**3,700**	**5,850**	22.5 B	233	**762**	**2,030**	62.3 B	32.9 B	**1,310**	3	300 ST ^
Lead	U	U	U	U	U	U	U	U	U	U	2	25 ST
Magnesium	**87,700**	**95,500**	**86,900**	20,700	**253,000**	**90,100**	**50,000**	**56,400**	**72,100**	**57,100**	6	35,000 GV
Manganese	**3,330**	**2,810**	**2,140**	17.8	169	**2,050**	**699**	**383**	279	**1,790**	0.5	300 ST ^
Mercury	U	U	U	U	U	U	U	U	U	U	0.1	0.7 ST
Nickel	52.5	62.4	29.1 B	1.1 B	6.7 B	83.3	10.4 B	8.0 B	26.7 B	17.9 B	0.5	100 ST
Potassium	38,700	29,300	11,400	980 B	14,200	83,400	12,400	21,200	34,000	16,700	58	----
Selenium	U	U	U	U	U	U	U	U	U	U	4	10 ST
Silver	U	U	U	U	U	U	U	U	U	U	2	50 ST
Sodium	**454,000**	**375,000**	**294,000**	16,500	**576,000**	**598,000**	**160,000**	**86,100**	**246,000**	**149,000**	45	20,000 ST
Thallium	**3.0 B**	**4.8 B**	**5.0 B**	U	U	**3.0 B**	U	**3.2 B**	U	U	3	0.5 GV
Vanadium	2.9 B	1.1 B	0.90 B	U	0.44 B	3.2 B	U	0.51 B	0.52 B	U	0.7	----
Zinc	7.6 B	4.4 B	14.0 B	4.0 B	U	2.1 B	3.1 B	5.0 B	7.9 B	4.1 B	2	2,000 GV
Cyanide	U	2.2 B	2.3 B	U	U	5.3 B	U	U	8.2 B	8.4 B	3	200 ST

QUALIFIERS:
U: Compound analyzed for but not detected
B: Compound concentration is less than the CRDL but greater than the IDL.

NOTES:
^: The combined standard for iron and manganese is 500 ug/l
GV: Guidance Value
ST: Standard
----: Not established

Indicates value exceeds NYSDEC Class GA groundwater standard or guidance value